



**EDITAL CONCORRÊNCIA PÚBLICA Nº002/2017  
PROCESSO LICITATÓRIO N.º 9222/2017  
TIPO: MENOR PREÇO POR LOTE**

**OBJETO: Contratação de empresa especializada para prestar serviços de coleta e transporte de resíduo sólido domiciliar e comercial no perímetro urbano e rural (RSU), na circunscrição do Município de Barra do Piraí, bem como Coleta Semanal, transporte e disposição final dos resíduos de serviços de Saúde (RSS), conforme definição contida neste projeto em associação às especificações técnicas inseridas nas planilhas orçamentárias, memórias de cálculo e cronograma físico-financeiro (ANEXOS I a II DESTA EDITAL), com destinação final dos resíduos para Aterro Sanitário licenciado por Órgão Ambiental Estadual (Consórcio Intermunicipal de Gestão de Resíduos Sólidos do Vale do Café – CONVALE).**

ENTREGA DOS ENVELOPES DOCUMENTAÇÃO DE HABILITAÇÃO, E PROPOSTA DE PREÇOS

**DATA: 25/03/2019**

**HORÁRIO DE ENTREGA DOS ENVELOPES: 14 horas**

LOCAL: Setor de Licitação da Prefeitura Municipal de Barra do Piraí

ENDEREÇO: Travessa Assumpção nº 69, Centro - Barra do Piraí/RJ.

ABERTURA DOS ENVELOPES

**DATA: 25/03/2019**

**HORÁRIO: Às 14 horas**

LOCAL: Setor de Licitação, da Prefeitura Municipal de Barra do Piraí

CONSULTAS AO EDITAL no site;  
[www.barradopirai.rj.gov.br](http://www.barradopirai.rj.gov.br)

1) INFORMAÇÕES do edital com setor de licitações tel: (24)2442-5372

2) Sobre trajetos com a Secretaria de Serviços Públicos e Secretaria Municipal de Saúde, pelos tel: (24) 2443-2266 e (24) 24476151.

3) ESCLARECIMENTOS: e-mail : [licitacao@barradopirai.rj.gov.br](mailto:licitacao@barradopirai.rj.gov.br)



## PREÂMBULO

A Prefeitura Municipal de Barra do Piraí/RJ, pessoa jurídica de direito público interno, com endereço à Travessa Assumpção, nº 69, Centro, Barra do Piraí /RJ; CEP: 27.123-080, inscrito no CNPJ sob o nº 28.576.080/0001-47, isento de inscrição estadual, por sua Comissão Permanente de Licitação, designada pela Portaria nº 458/2017, torna pública a abertura do Processo Licitatório nº **9222/2017** na modalidade **CONCORRÊNCIA PÚBLICA Nº 002/2017**, tipo Menor Preço por lote, na forma de execução indireta, através do regime empreitada por preço unitário, regida pela Lei Federal n.º 8.666, de 21/06/93 e suas alterações, Lei Complementar nº 123, de 14/12/2006 e demais condições fixadas neste Edital.

### 1 - DO OBJETO DA LICITAÇÃO, DO PRAZO E VALOR ESTIMADO

**1.1 - Contratação de empresa especializada para prestar serviços de coleta e transporte de resíduo sólido domiciliar e comercial no perímetro urbano e rural (RSU), na circunscrição do Município de Barra do Piraí, bem como Coleta Semanal, transporte e disposição final dos resíduos de serviços de Saúde (RSS), conforme definição contida neste projeto em associação às especificações técnicas inseridas nas planilhas orçamentárias, memórias de cálculo e cronograma físico-financeiro (ANEXOS I a II DESTE EDITAL), com destinação final dos resíduos para Aterro Sanitário licenciado por Órgão Ambiental Estadual (Consórcio Intermunicipal de Gestão de Resíduos Sólidos do Vale do Café – CONVALE).**

**1.2. O valor estimado anual da contratação (critério de aceitabilidade das propostas) é de R\$ 3.933.272,68 (três milhões novecentos e trinta e tres mil duzentos e setenta e dois reais e sessenta e oito centavos).**

1.3. O contrato terá sua duração de 12(doze) meses, contados da data de sua assinatura, podendo ser prorrogado a critério da Administração, conforme artigo 57 da Lei Federal 8666/93..

1.3.1. O contrato poderá a qualquer tempo ser aditado para adequações às disposições governamentais aplicáveis à espécie, desde que respeitadas as regras do art. 57 e 65 da Lei Nacional nº 8.666/93.

**1.4. A licitante vencedora deverá assinar o contrato dentro do prazo de 05 (cinco) dias uteis após a convocação feita pela Secretaria Municipal de Administração, sob pena da multa prevista no item 14.1, deste edital, sem prejuízo das demais sanções previstas neste edital e no contrato.**



1.5. Na mesma data da assinatura do contrato, a licitante vencedora deverá entregar a garantia referida no item 18.1, conforme o caso.

## 2 – SECRETARIAS SOLICITANTES

2.1 - Secretaria Municipal de Serviços Públicos e Secretaria Municipal de Saúde.

## 3- CONSULTAS, ESCLARECIMENTOS E IMPUGNAÇÃO AO EDITAL

3.1 - Cópia deste Edital poderá ser obtido através do site [www.barradopirai.rj.gov.br](http://www.barradopirai.rj.gov.br).

3.1.1 – As empresas e/ou representantes que tiverem interesse em participar do certame, obrigam-se a acompanhar as publicações referentes ao processo nos jornais em que foi publicado o extrato do edital, com vista a possíveis alterações e avisos.

3.2 - Os pedidos de esclarecimentos sobre o Edital poderão ser encaminhados para o Setor de licitações no edifício sede da Prefeitura a Travessa Assumpção, 69, centro endereço constante à fl. 1, até o dia anterior ao da abertura dos envelopes.

3.2.1 - As respostas da Comissão Permanente de Licitação às solicitações de esclarecimentos serão encaminhadas por e-mail.

3.3 - Impugnações aos termos do Edital poderão ser interpostas por qualquer pessoa e efetuadas através do protocolo da sede da Prefeitura com data e horário, requerendo seja enviada imediatamente ao setor de Licitação até 05 (cinco) dias úteis antes da data fixada para a abertura dos envelopes, que deverá responder a impugnação em até 03 (três) dias úteis.

3.3.1 – A Prefeitura não se responsabilizará por impugnações endereçadas via postal ou por outras formas, entregues em locais diversos do mencionado no item acima, e que, por isso, não sejam efetuadas mediante protocolo no edifício sede no prazo legal;

3.3.2 – A decisão da Comissão Permanente de Licitação será enviada ao impugnante via e-mail, e será divulgada no Diário Oficial do Município e no site oficial para conhecimento de todos os interessados, que não poderão alegar desconhecimento.



#### 4 – CONDIÇÕES DE PARTICIPAÇÃO E VISITA TÉCNICA

4.1 - Não poderá participar da presente licitação:

4.1.1. Não será admitida a participação de licitantes suspensos temporariamente de participação em licitação, impedimento de contratar ou declaração de inidoneidade para licitar e contratar por qualquer Ente ou Entidade da Administração Federal, Estadual, Distrital e Municipal, nos termos do inciso III do artigo 87 da Lei 8666/93 cujos efeitos ainda vigores;

4.1.2. Não será admitida a participação de licitantes já incursos na pena do inciso IV do artigo 87 da Lei 8666/93, seja qual for o órgão ou entidade que tenha aplicado a reprimenda, em qualquer esfera da administração pública;

**4.1.3. Se encontrem sob falência, concurso de credores, dissolução, liquidação, empresas estrangeiras que não funcionem no País, será admitida a participação de empresa em recuperação judicial cujo plano de recuperação já tenha sido aprovado ou homologado pelo juízo competente;**

4.1.4. Que possua participação direta ou indireta de sócio, diretor ou responsável técnico que tenha vínculo empregatício com a Prefeitura de Barra do Piraí;

4.2 - A observância das vedações do item anterior é de inteira responsabilidade do licitante que, pelo descumprimento, se sujeita às penalidades cabíveis.

4.3 – A Visita Técnica do Licitante, será facultativa e poderá ser substituída por declaração firmada pelo responsável técnico da empresa licitante de que conhece os locais onde será prestado o serviços.

#### 5- APRESENTAÇÃO DA DOCUMENTAÇÃO DE HABILITAÇÃO E PROPOSTA DE PREÇO

5.1 – A “Documentação de Habilitação” e a “Proposta de Preço” deverão ser apresentadas, em envelopes distintos, colados e indevassáveis, contendo em sua parte externa as seguintes informações:

À COMISSÃO PERMANENTE DE LICITAÇÃO DA PREFEITURA  
DE BARRA DO BARRA DO PIRAI/RJ  
PROCESSO LICITATÓRIO Nº 9222/2017  
**CONCORRÊNCIA PÚBLICA Nº 002/2017**  
**DOCUMENTAÇÃO DE HABILITAÇÃO**  
**RAZÃO SOCIAL E ENDEREÇO**



À COMISSÃO PERMANENTE DE LICITAÇÃO DA PREFEITURA  
DE BARRA DO BARRA DO PIRAÍ/RJ  
PROCESSO LICITATÓRIO Nº 9222/2017  
**CONCORRÊNCIA PÚBLICA Nº 002/2017**  
**PROPOSTA DE PREÇO**  
RAZÃO SOCIAL E ENDEREÇO

6- ENTREGA E ABERTURA DOS ENVELOPES

6.1.Os envelopes “Documentação de Habilitação” e “Proposta de Preço” deverão ser entregues no setor de Licitação da Prefeitura Municipal, à Travessa Assumpção, nº 69, centro, Barra do Piraí /RJ- CEP 27.123-080 até a data e horário previstos na fl.1 deste edital

6.1.1 – A Prefeitura não se responsabilizará por envelopes “Documentação de Habilitação” e “Proposta de Preço” endereçados via postal ou por outra forma, entregues em local diverso do Setor de Licitações e que, por isso, não cheguem na data e horário previstos neste Edital.

6.2 - Abertos os envelopes “Documentação de Habilitação”, a Comissão analisará os documentos e decidirá sobre a habilitação dos licitantes.

6.2.1 - Havendo dúvidas ou necessidade de esclarecimentos que não possam ser dirimidos de imediato, demandando análises complementares ou diligências, as mesmas serão consignadas em ata, podendo a sessão ser suspensa;

6.2.2 - Suspensa a sessão, a decisão quanto à habilitação poderá ser publicada no Diário Oficial do Município ou através do site [www.barradopirai.rj.gov.br](http://www.barradopirai.rj.gov.br), ficando os envelopes das Propostas de Preços, sob a guarda da Comissão, devidamente lacrados e rubricados no fecho pelos seus membros e representantes legais das licitantes presentes.

6.2.3 - Na hipótese da Comissão não publicar a decisão de habilitação em seu jornal de circulação, será marcada data e horário para continuidade da sessão, para divulgação do resultado da habilitação, a ser comunicada com antecedência mínima de 24 (vinte e quatro) horas, mediante publicação ou aviso por e-mail aos licitantes através de ata digitalizada, ou ainda por nota no site [www.barradopirai.rj.gov.br](http://www.barradopirai.rj.gov.br) ocasião em que poderá ser aberto o envelope de Proposta de Preços .

6.3 - Os envelopes “Proposta de Preços” serão abertos:

6.3.1 - se houver renúncia registrada em ata ou formalizada por escrito de todas as licitantes ao direito de interposição de recurso , nos termos do art. 43, III e art. 109, § 1º da Lei Federal nº 8.666/93; ou



PREFEITURA MUNICIPAL DE BARRA DO PIRAI  
SECRETARIA MUNICIPAL DE SERVIÇO PÚBLICO

SERVIÇO PÚBLICO MUNICIPAL

PROCESSO Nº 9222/2017

DATA: \_\_\_/\_\_\_/\_\_\_ Fls. \_\_\_\_\_

RUBRICA: \_\_\_\_\_

6.3.2 - após transcorrido o prazo legal, sem que tenha havido interposição de recurso; ou

6.3.3 - após publicação do deferimento ou indeferimento do recurso interposto.

6.4 – A abertura dos envelopes Proposta de Preço somente ocorrerá após concluída a fase de habilitação .

6.5 - A abertura dos envelopes “Documentação de Habilitação” e “Proposta de Preço” será realizada em sessão pública, lavrando-se ata circunstanciada, assinada pelos membros da Comissão Permanente de Licitação, consignando, se for o caso, e que sejam somente em relação objeto da licitação, as manifestações dos representantes legais das licitantes presentes.

6.6 - Toda a documentação e as propostas serão rubricadas pelos membros da Comissão Permanente de Licitação e pelos representantes legais das licitantes presentes à sessão.

OBS: Não será admitida manifestação de presentes que não estejam devidamente credenciados, estes poderão somente assistir devendo permanecer em silêncio. A não observância a este disposto o mesmo será convidado a se retirar do recinto.

6.7 - A inabilitação da licitante importa preclusão do seu direito de participar das fases subseqüentes.

6.8 - Ultrapassada a fase de habilitação e abertos os envelopes “Proposta de Preços”, não caberá desclassificação de Proposta de Preço por motivos relacionados à habilitação, salvo em razão de fatos supervenientes ou só conhecidos após o julgamento.

6.9 - As empresas licitantes poderão ser representadas no certame por seu sócio, proprietário ou dirigente, desde que apresente o original ou cópia autenticada do Estatuto ou Contrato Social atualizado da empresa ou Registro Comercial, no caso de empresa individual, acompanhado de documento de identidade.

6.9.1 - A representação também poderá ser feita por procurador munido de instrumento público ou particular ou por Carta de Credenciamento, conforme modelo do Anexo IV, comprovando a outorga de poderes necessários para a prática de todos os atos inerentes ao procedimento licitatório, juntamente com o documento de identidade do credenciado ou procurador e documento que comprove a representação legal do outorgante;

6.9.2 - Serão admitidas fotocópias sem autenticação cartorial, desde que os respectivos originais sejam apresentados na Secretaria Municipal de Administração sito à Travessa Assumpção, nº 69, Centro, a Comissão nem a responsável pelo setor de licitações não autenticará a documentação, devendo ser providenciado anterior a abertura da sessão publica, podendo os envelopes



devidamente indevassáveis e lacrados serem entregues no setor de licitações, que será protocolado e rubricado pela responsável do setor.

6.10 - Os documentos do credenciamento (Cópia da Identidade, Contrato Social, Carta de Credenciamento e/ou Procuração) deverão ser apresentados à Comissão Permanente de Licitação no início dos trabalhos, isto é, antes da abertura e do lado de fora do envelope de “Documentação de Habilitação”, sendo permitido que cada credenciado represente apenas um licitante.

6.11 - A não apresentação do credenciamento não inabilitará a licitante, mas impedirá a pessoa presente de se manifestar e responder em nome da empresa, e deverá permanecer em silêncio, somente assistindo e qualquer perturbação será convidado a se retirar da sessão.

6.12 - O licitante que cumprir os requisitos legais para qualificação como Microempresa (ME) ou Empresa de Pequeno Porte (EPP) art. 3º da Lei complementar nº 123/2006, e que não estiver sujeito a quaisquer impedimentos do § 4º deste artigo, caso tenha interesse em usufruir do tratamento favorecido estabelecido nos arts. 42 a 49 da lei citada deverão comprovar sua condição de ME ou EPP, por meio de declaração, conforme modelo em anexo, sendo apresentado preferencialmente juntamente com o credenciamento sob pena de não poder usufruir dos benefícios da referida Lei.

6.13 - O licitante que apresentar declaração falsa responderá por seus atos, cível, penal e administrativamente. O credenciamento da licitante ou de seu representante legal junto à Comissão Permanente de Licitação implica a presunção de sua capacidade e responsabilidade legal pelos atos praticados.

## 7- DOCUMENTAÇÃO DE HABILITAÇÃO

7.1. Os licitantes deverão apresentar os documentos a seguir relacionados no envelope “Documentação de Habilitação”:

7.1.1- Registro comercial, no caso de empresa individual;

7.1.2 - Ato constitutivo, alterações subseqüentes, estatuto ou contrato social consolidado, devidamente registrado na Junta Comercial e/ou na Entidade Competente, em se tratando de sociedade comercial e, no caso de sociedade por ações, acompanhado do documento de eleição de seus administradores;

7.1.3 - Inscrição do ato constitutivo, no caso de sociedade civil, acompanhada de prova da diretoria em exercício;

7.1.4 - decreto de autorização, em se tratando de empresa ou sociedade estrangeira em funcionamento no país e ato de registro ou autorização para



funcionamento expedido pelo Órgão competente, quando a atividade assim o exigir;

## 7.2. REGULARIDADE FISCAL E TRABALHISTA

### 7.2.1 Habilitação Jurídica:

**a-)Cédula de identidade** e CPF dos sócios ou dos diretores;

**b-)Registro Comercial**, no caso de empresário pessoa física;

**c-)Ato constitutivo, estatuto ou contrato social** em vigor, devidamente registrado, em se tratando de sociedades empresárias, e, no caso de sociedades por ações, acompanhado de documentos de eleição de seus administradores.

**d-)Inscrição do ato constitutivo**, no caso de sociedades simples, acompanhada de prova de diretoria em exercício;

**e-) Decreto de autorização**, em se tratando de empresa ou sociedade estrangeira em funcionamento no país, e ato de registro ou autorização para funcionamento expedido pelo órgão competente, quando a atividade assim o exigir;

**f-) A sociedade simples que não adotar um dos tipos regulados nos artigos 1.039 a 1.092, deverá mencionar, no contrato social, por força do art. 997, inciso VI, as pessoas naturais incumbidas da administração, conforme Lei Federal 10.406 de 10/01/2002.**

**g-) A ata da respectiva fundação**, e o correspondente registro na Junta Comercial, bem como o estatuto com a ata da assembleia de aprovação, na forma do artigo 18 da Lei nº 5.764/71, em se tratando de sociedade cooperativa.

### 7.2.2 Regularidade Fiscal e Trabalhista

Para fins de comprovação da regularidade fiscal e trabalhista, deverão ser apresentados os seguintes documentos:

**a)prova de inscrição no Cadastro de Pessoas Físicas (CPF) ou no Cadastro Nacional de Pessoas Jurídicas (CNPJ);**

**b)prova de inscrição** no cadastro de contribuintes estadual ou municipal, se houver, relativo ao domicílio ou sede do licitante, ou outra equivalente, na forma da lei;

**c)prova de regularidade** perante a Fazenda Federal, Estadual e Municipal do domicílio ou sede do licitante, que será realizada da seguinte forma:

**c.1)Fazenda Federal:** apresentação de Certidão Conjunta Negativa de Débitos relativos a Tributos Federais e à Dívida Ativa da União, ou Certidão Conjunta Positiva com efeito negativo, expedida pela Secretaria da Receita Federal do Brasil (RFB) e Procuradoria-Geral da Fazenda Nacional (PGFN), que abrange,





inclusive, as contribuições sociais previstas nas alíneas a d, do parágrafo único, do art. 11, da Lei nº 8.212, de 1991;

**c.2)Fazenda Estadual:** apresentação da Certidão Negativa de Débitos, ou Certidão Positiva com efeito de Negativa, do Imposto sobre Operações relativas à Circulação de Mercadorias e sobre Prestações de Serviços de Transporte Interestadual, Intermunicipal e de Comunicação - ICMS, expedida pela Secretaria de Estado de Fazenda, e **Certidão Negativa de Débitos em Dívida Ativa**, ou Certidão Positiva com efeito de Negativa, expedida pela Procuradoria Geral do Estado ou, se for o caso, certidão comprobatória de que o licitante, em razão do objeto social, está isento de inscrição estadual;

**c.3)Fazenda Municipal:** apresentação da Certidão Negativa de Débitos, ou Certidão Positiva com efeito de Negativa, do Imposto sobre Serviços de Qualquer Natureza - ISS, ou, se for o caso, certidão comprobatória de que o licitante, em razão do objeto social, está isento de inscrição municipal;

**d) Prova de regularidade relativa à Seguridade Social e ao Fundo de Garantia por tempo de serviço (FGTS ), demonstrando situação regular no cumprimento dos Encargos Sociais instituído por Lei;**

**e)** prova de inexistência de débitos inadimplidos perante a Justiça do Trabalho, mediante a apresentação de **Certidão Negativa de Débitos Trabalhistas (CNDT)** ou da Certidão Positiva de Débitos Trabalhistas com os mesmos efeitos da CNDT.

**7.2.3.** Na hipótese de cuidar-se de microempresa ou de empresa de pequeno porte, na forma da lei, a documentação somente será exigida para efeito de assinatura do contrato, caso se sagre vencedora na licitação.

**7.2.4** Em sendo declarada vencedora do certame microempresa ou empresa de pequeno porte com débitos fiscais, ficará assegurado, a partir de então, o prazo de 05 (cinco) dias úteis para a regularização da documentação, pagamento ou parcelamento do débito, e emissão de eventuais certidões negativas ou positivas com efeito de negativas.

**7.2.5** O prazo acima poderá ser prorrogado por igual período, a critério exclusivo da Administração Pública.

**7.2.6** A não regularização da documentação no prazo estipulado implicará a decadência do direito à contratação, sem prejuízo da aplicação das sanções previstas no art. 81, da Lei nº 8.666, de 21 de junho de 1993.

### 7.3 – QUALIFICAÇÃO TÉCNICA



**7.3.1 – Os licitantes deverão apresentar Certificado de Registro e Quitação, junto ao Conselho Regional correspondente ao local de sua sede, de acordo com o artigo 30 da Lei Federal nº 8.666/93;**

**7.3.1.1 – A empresa vencedora do certame deverá apresentar o visto do CREA /RJ, caso sua sede seja fora do Rio de Janeiro.**

**7.3.2 - Atestado de Capacidade Técnico, fornecido por pessoa jurídica de direito público ou privado, em nome da empresa licitante, devidamente registrados nas entidades profissionais competentes, comprovando ter a mesma executado ou estar executando obras e serviços da mesma natureza, ou seja, coleta de resíduos sólidos urbanos (RSU) e ou resíduos de serviços de saúde (RSS ).**

7.3.3 - Os serviços poderão constar de atestados ou certidões distintos, sendo considerado seu conjunto.

#### 7.4 – QUALIFICAÇÃO ECONÔMICO-FINANCEIRA

7.4.1 – **Certidões negativas de falências e concordatas** expedidas pelos distribuidores da sede. Se o licitante não for sediado na Comarca da Capital do Estado do Rio de Janeiro, as certidões deverão vir acompanhadas de declaração oficial da autoridade judiciária competente, relacionando os distribuidores que, na Comarca de sua sede, tenham atribuição para expedir certidões negativas de falências e concordatas.

7.4.2 – A situação econômico-financeira das empresas licitantes será avaliada, dentre outros critérios, pelos índices de Liquidez Geral (LG), Liquidez Corrente (LC) e Solvência (SG), os quais deverão ser iguais ou superiores a 1 (um), após a aplicação das seguintes fórmulas contábeis:

LG = 
$$\frac{\text{ATIVO CIRCULANTE} + \text{REALIZÁVEL A LONGO PRAZO}}{\text{PASSIVO CIRCULANTE} + \text{EXIGÍVEL A LONGO PRAZO}}$$

LC = 
$$\frac{\text{ATIVO CIRCULANTE}}{\text{PASSIVO CIRCULANTE}}$$

SG = 
$$\frac{\text{ATIVO TOTAL}}{\text{PASSIVO CIRCULANTE} + \text{EXIGÍVEL A LONGO PRAZO}}$$



7.4.2.1 - As empresas com menos de um exercício financeiro em funcionamento devem apresentar Balanço de Abertura ou último Balanço Patrimonial levantado, conforme o caso.

7.4.2.2 - Serão considerados “na forma da lei” o Balanço Patrimonial (inclusive o de abertura) e demonstrações contábeis assim apresenta dos:

- a) publicados em Diário Oficial; ou
- b) publicados em Jornal; ou
- c) por cópia ou fotocópia registrada ou autenticada na Junta Comercial da sede ou domicílio do licitante; ou ;
- d) por cópia ou fotocópia do livro Diário, devidamente autenticado na Junta Comercial da sede ou domicílio do licitante ou em outro órgão equivalente, inclusive com os Termos de Abertura e de Encerramento.

7.4.2.3 - O Balanço Patrimonial e as demonstrações contábeis apresentadas (em memorial de calculo) deverão conter assinatura do representante legal da empresa licitante e do seu contabilista ou, caso apresentadas por meio de publicação, permitir a identificação do veículo e a data de sua publicação, bem como cópia da publicação. A indicação do nome do contabilista e do número do seu registro no Conselho Regional de Contabilidade - CRC – são indispensáveis.

**7.4.2.4 - prova de possuir Patrimônio Líquido, cujo valor seja, no máximo, igual ou superior a 10 % do valor estimado da contratação, comprovado na data da apresentação da proposta.**

#### OUTROS DOCUMENTOS

7.5 – declaração do licitante de que não possui em seu quadro funcional nenhum menor de dezoito anos, desempenhando trabalho noturno, perigoso ou insalubre ou qualquer trabalho por menor de dezesseis anos, na forma do artigo 7.º, inciso XXXIII, da Constituição Federal.

7.5.1 - declaração de que a licitante não possui quaisquer impedimentos que a impossibilitem de participar de procedimentos licitatórios;

7.5.2 - declaração de superveniência de fato impeditivo da habilitação, observadas as penalidades cabíveis;

7.5.3 - declaração de disponibilidade de maquinas, equipamentos e pessoal técnico, devidamente capacitado, para a execução dos serviços pertinente ao objeto da licitação, para a adequada realização dos serviços, assinada pelo representante legal da empresa.

7.5.4 – Declaração de Responsável Técnico, assumindo o compromisso de se responsabilizar pelos trabalhos ora licitados.

7.5.5 – Declaração de Concordância com os termos do Edital.



7.5.6 - Atestado de Visita Técnica emitida pela Secretaria Municipal de Serviço Público/Secretaria de Saúde, ou Declaração firmada pelo responsável técnico da empresa licitante de que conhece os locais onde será prestado o serviços.

**7.5.7 – A empresa vencedora deverá apresentar as Licenças Ambientais de acordo com o órgão ambiental.**

7.5.8 - Os documentos mencionados neste Título não poderão ser substituídos por qualquer tipo de protocolo ou apresentados por meio de discos magnéticos.

**OBS: 1** – O licitante que for isento de qualquer tributo, deverá apresentar certidão do referido órgão comprovando sua isenção.

**OBS: 2** - Sob pena de inabilitação, todos os documentos apresentados para habilitação deverão estar em nome do licitante e, observando-se que se:

- 1- o licitante for à matriz, todos os documentos deverão estar em nome da matriz;
- 2- ou se o licitante for a filial, todos os documentos deverão estar em nome da filial;
- 3- se o licitante for matriz e o executor do contrato for filial, a documentação deverá ser apresentada com CNPJ da matriz e da filial, simultaneamente
- 4- serão dispensados da filial aqueles documentos que, pela própria natureza comprovadamente, forem emitidos somente em nome da matriz.

7.5.9. A Comissão Permanente de Licitação efetuará consulta ao site da receita Federal na internet para certificação sobre a regularidade da inscrição da empresa no Cadastro Nacional de Pessoa Jurídica - CNPJ, em observância à Instrução Normativa nº 568, de 8/9/2005, da Secretaria da Receita Federal do Brasil, confirmando, ainda, a autenticidade dos demais documentos extraídos pela internet, junto aos sites dos órgãos emissores, para fins de habilitação.

7.5.10. A Prefeitura não se responsabilizará pela eventual indisponibilidade dos meios eletrônicos, hipótese em que, em face do não saneamento das falhas constatadas, o licitante será inabilitado.

7.5.11. - A microempresa - ME e empresa de pequeno porte – EPP deverá apresentar toda a documentação exigida para a habilitação, inclusive os documentos comprobatórios da regularidade fiscal, mesmo que estes apresentem alguma restrição fiscal.

7.5.11.1 - Havendo restrição nos documentos comprobatórios da regularidade fiscal, será assegurado o prazo de 5 (cinco) dias úteis, cujo termo inicial



corresponderá ao momento em que a ME ou EPP for declarada habilitada no certame, prorrogáveis por igual período, a critério da Administração, para regularização da documentação, pagamento ou parcelamento do débito, e emissão de eventuais certidões negativas ou positivas com efeito de negativa.

7.5.11.2 - A prorrogação do prazo para a regularização fiscal dependerá de requerimento, devidamente fundamentado, a ser dirigido à Comissão Permanente de Licitação.

7.5.11.3 - Entende-se por tempestivo o requerimento apresentado nos 5 (cinco) dias úteis inicialmente concedidos.

7.5.11.4. - A não regularização da documentação, no prazo previsto neste item, implicará decadência do direito à contratação, sem prejuízo das sanções previstas no art. 81 da Lei Federal nº 8.666/93, sendo facultado à Comissão convocar os licitantes remanescentes, na ordem de classificação, ou submeter o processo à Autoridade Competente para revogação.

7.5.12 - Os documentos exigidos neste Edital, poderão ser apresentados em original, ou qualquer processo de cópia legível, autenticada através de cartório competente, ou publicação em órgão da imprensa oficial ou de cópias, desde que acompanhadas dos originais para conferência pela Comissão de Licitação, ressalvados os que são emitidos através de sites.

7.5.13 – Os documentos que não possuem prazo de vigência estabelecido pelo órgão expedidor, deverão ser datados dos últimos 90 (noventa) dias até a data de abertura dos envelopes, com exceção do atestado de capacidade técnica.

7.5.14 – Os documentos deverão ser apresentados, preferencialmente, numerados na ordem retro mencionada.

7.5.15 - O certificado de inscrição no Cadastro de Fornecedores – CRF, expedido pela Prefeitura Municipal de Barra do Piraí, poderá ser apresentado opcionalmente pelas licitantes em substituição aos documentos para habilitação jurídica e regularidade fiscal.

7.5.15.1 - Por certificado de inscrição, devidamente atualizado, deve-se entender aquele que se encontre em vigor na data estabelecida no preâmbulo deste edital para a entrega dos envelopes contendo a proposta comercial e os documentos das licitantes.

## 8 - PROPOSTA DE PREÇO

8.1 - A Proposta Comercial deverá ser apresentada conforme Modelo do Anexo III, ou em modelo próprio, desde que contenha todas as informações ali previstas, com identificação da empresa proponente, n.º do CNPJ, e endereço, números de telefone e fax, e-mail e assinatura do seu representante legal ou credenciado,



devidamente identificado e qualificado, sem emendas, borrões, rasuras, ressalvas, entrelinhas ou omissões, salvo se, inequivocamente, tais falhas não acarretarem lesões ao direito dos demais licitantes, prejuízo à administração ou não impedirem a exata compreensão de seu conteúdo, constando:

8.1.1 - descrição do objeto, conforme especificações constantes do Anexo I;

8.1.2 – preço unitário e total de cada item das planilhas valor total, presente neste edital, não se admitindo valor unitário superior ao apresentado na planilha orçamentária sob pena de desclassificação.

8.2 - A proposta deverá referir-se a todo o objeto especificado.

8.3 - A apresentação da proposta por parte da licitante significa pleno conhecimento e integral concordância com as cláusulas e condições desta licitação e total sujeição à legislação pertinente.

8.4 - O prazo de validade da proposta será de, no mínimo, 60 (sessenta) dias, contados a partir da data de sua apresentação.

8.4.1 - Caso esse prazo não esteja expressamente indicado na Proposta de Preço, o mesmo será considerado como aceito para efeito de julgamento.

8.5 - Se, por motivo de força maior, a adjudicação não puder ocorrer dentro do período de validade das propostas, ou seja, 60 (sessenta) dias, e caso persista o interesse do Município, poderá ser solicitada prorrogação da validade das mesmas a todas as licitantes classificadas, por igual prazo, no mínimo.

8.6 - Decorridos 60 (sessenta) dias da data do recebimento das propostas, sem que tenha sido solicitada prorrogação de sua validade, as licitantes ficam liberadas dos compromissos assumidos.

8.7 - Os preços deverão ser expressos em moeda corrente do país, com 2 (duas) casas decimais ;

8.8 - O preço deverá ser proposto considerando-se a execução do objeto licitado da Prefeitura de Barra do Piraí, incluídos os valores de quaisquer despesas relativas à mão-de-obra, encargos previdenciários e trabalhistas, seguros, tributos e outras despesas, além do lucro.

## **9 – JULGAMENTO DA DOCUMENTAÇÃO DE HABILITAÇÃO**

9.1 - A ausência ou a apresentação da documentação de habilitação em desacordo com o previsto no Título VII, ou a verificação de irregularidade nas consultas aos sites dos órgãos emissores, inabilitará o licitante, impossibilitando a abertura dos envelopes Proposta de Preços;



9.2 - Após a fase de habilitação não cabe desistência de Proposta de Preços, salvo por motivo justo, decorrente de fato superveniente, e aceito pela Comissão Permanente de Licitação.

9.2.1 - Considera-se vencida a fase de habilitação:

9.2.1.1 - se houver renúncia registrada em ata ou formalizada por escrito de todas as licitantes ao direito de interposição de recurso, nos termos do art. 43, III e art. 109, § 1º da Lei Federal nº 8.666/93; **ou**

9.2.1.2 - após transcorrido o prazo legal, sem que tenha havido interposição de recurso; **ou**

9.2.1.3 - após publicação do deferimento ou indeferimento do recurso interposto.

## 10 - CRITÉRIOS DE JULGAMENTO

10.1 - O critério de julgamento será o de menor preço por lote, desde que observadas as especificações e demais condições estabelecidas neste edital e seus anexos.

10.2 - A Comissão Permanente de Licitação poderá solicitar, para verificação das propostas, o assessoramento de órgãos técnicos ou de profissionais especializados.

10.3 - Se a proposta de menor preço não tiver sido ofertada por ME ou EPP, e houver proposta apresentada por ME ou EPP com valor até 10% (dez por cento) superior ao melhor preço, estará configurado o empate ficto previsto no art. 44, § 2º da Lei Complementar nº 123/06.

10.4 - Ocorrendo o empate, proceder-se-á da seguinte forma:

10.4.1 - Se o representante da ME ou EPP mais bem classificada estiver presente na sessão, o mesmo será convocado para, apresentar nova proposta de preço inferior àquela considerada classificada em primeiro lugar no certame, sob pena de preclusão do exercício do direito de preferência;

10.4.2 – Se o representante da ME ou EPP não estiver presente na sessão, a Comissão Permanente de Licitação encaminhará correspondência ao licitante, inclusive por meio eletrônico, fixando prazo para apresentação de nova proposta de preço, sob pena de preclusão do exercício do direito de referência;

10.4.3 – Caso a ME ou EPP mais bem classificada, em situação de empate ficto, utilize seu direito de preferência, será classificada em primeiro lugar e dar-se-á prosseguimento à sessão;



PREFEITURA MUNICIPAL DE BARRA DO PIRAI  
SECRETARIA MUNICIPAL DE SERVIÇO PÚBLICO

SERVIÇO PÚBLICO MUNICIPAL

PROCESSO Nº 9222/2017

DATA: \_\_\_/\_\_\_/\_\_\_ Fls. \_\_\_\_\_

RUBRICA: \_\_\_\_\_

10.4.4 – Se a ME ou EPP mais bem classificada não exercer seu direito de preferência, na forma dos subitens anteriores, serão convocadas as demais ME ou EPP remanescentes, cujas propostas estiverem no limite estabelecido no item 10.3, na ordem de classificação, para o exercício do direito de preferência;

10.4.5 - No caso de equivalência dos valores apresentados pelas ME ou EPP que se encontrem nesse limite, a Comissão Permanente de Licitação realizará sorteio, entre essas empresas, para definir a que primeiro poderá apresentar nova proposta de preço;

10.4.6 – Não havendo ME ou EPP em situação de empate ficto, que utilize o direito de preferência, prosseguir-se-á a sessão observando-se a classificação das propostas de Preços;

10.4.7 - Será classificado em primeiro lugar o licitante que, após aplicação do direito de preferência instituído pela Lei Complementar nº 123 /06, ofertar o menor preço.

10.5 - Será desclassificada a proposta que:

10.5.1 - não atenda às exigências estabelecidas neste Edital, anexos ou em diligências;

10.5.2 – não se refira à integralidade do objeto licitado.

10.5.3 - apresente preços simbólicos, irrisórios ou de valor zero, incompatíveis com os preços de mercado acrescidos dos respectivos encargos, exceto quando se referirem a produtos e instalações de propriedade do licitante, para os quais ele renuncie à parcela ou à totalidade da remuneração; ou superestimados ou manifestamente inexequíveis, assim considerados nos termos do disposto no art. 4º, § 3º e art. 48, II, da Lei Federal nº 8.666/93.

10.5.4 – Contenha em seu texto rasuras, emendas, borrões, entrelinhas, defeito de linguagem ou outros que impossibilitem o julgamento .

10.5.5 – Serão desclassificadas as propostas com preços unitários superiores aqueles estabelecidos no Edital, nos termos do inciso X do artigo 40 da Lei Federal 8666/93.

10.6 – No caso de empate entre duas ou mais propostas, o desempate far-se-á por sorteio, nos termos do art.45, § 2º da Lei Federal nº 8.666/93.

10.7 - Na análise das propostas não será considerada qualquer oferta de vantagem.

10.8 - Quaisquer erros de soma e/ou multiplicação dos itens componentes da Proposta de Preços serão corrigidos pela Comissão Permanente de Licitação.





10.9 - Prevalecerão os valores unitários, corrigindo-se os demais valores, conforme a divergência apurada, sendo consignado na ata de julgamento a correção efetuada.

10.10 - serão desconsiderados os valores a partir da terceira casa decimal, se apresentados;

10.11 – prevalecerá, para efeito de julgamento, o menor valor global apurado.

10.12– Quaisquer erros de soma e/ou multiplicação apurados nos itens componentes da planilha de preços serão corrigidos pela Comissão.

10.12.1 – a correção efetuada constará da ata de julgamento, podendo ser objeto de diligência se necessário.

10.13 - A Comissão Permanente de Licitação poderá, no julgamento das propostas, desconsiderar evidentes falhas formais sanáveis e que não afetem seu conteúdo.

## 11 - RECURSOS E CONTRARRAZÕES

11.1 - O licitante poderá apresentar recursos contra as decisões da Comissão Permanente de Licitação, nos termos do art. 109 da Lei Federal no 8.666/93.

11.2 - Interposto recurso, dele será dada ciência a os licitantes, por e-mail e ou por meio de publicação em jornal de circulação que poderão impugná-lo no prazo legal.

11.3 - Os recursos e respectivas contra-razões deverão obedecer aos seguintes Requisitos, sob pena de não serem conhecidos:

11.3.1 - ser dirigido à Comissão Permanente de Licitação, no prazo de 5 (cinco) dias úteis, após a publicação dos resultados em jornal oficial da administração;

11.3.2 - ser dirigido ao Prefeito nos casos de anulação ou revogação, no prazo de 5 (cinco) dias úteis

11.3.3 - ser apresentado em uma via original, digitada contendo razão social, CNPJ e endereço da empresa, rubricado em todas as folhas e assinado pelo representante legal ou credenciado do licitante, devidamente comprovado;

11.3.4 - ser protocolizado na sala do setor de licitações constante do prédio sede da Prefeitura

11.4 – O Município não se responsabilizará por memoriais de recursos e contra-razões endereçados via postal ou por outras formas, entregues em locais diversos da Comissão Permanente de Licitação, e que, por isso, não sejam protocolizados no prazo legal.



11.5 - O acolhimento de recurso importará a invalidação apenas dos atos insuscetíveis de aproveitamento.

11.6 - Os recursos serão dirigidos à autoridade competente, por intermédio da Comissão Permanente de Licitação, que, reconsiderando ou não sua decisão, o fará subir, devidamente informado, no prazo de 5 (cinco) dias úteis.

11.7 - Os recursos serão decididos no prazo de 05 (cinco) dias úteis.

11.8 - A decisão acerca de recurso interposto será divulgada por meio de publicação na Imprensa Oficial do Município.

## 12 - ADJUDICAÇÃO E HOMOLOGAÇÃO

12.1 - Inexistindo manifestação recursal ou decididos os recursos porventura interpostos, a Comissão Permanente de Licitação encaminhará o processo para a autoridade competente adjudicar o objeto ao licitante classificado em primeiro lugar e homologar o procedimento licitatório.

12.2 - Decididos os recursos porventura interpostos e constatada a regularidade dos atos procedimentais, a autoridade competente adjudicará o objeto ao licitante vencedor e homologará o procedimento licitatório.

## 13- FISCALIZAÇÃO, ACOMPANHAMENTO, AVALIAÇÃO E GESTÃO DO CONTRATO

13.1 – A Prefeitura de Barra do Piraí reserva-se o direito de não receber o objeto com atraso ou em desacordo com as especificações e condições constantes

13.2 - A fiscalização anotarà em registro próprio as ocorrências relativas à execução do objeto do contrato, determinando o que for necessário à regularização das faltas ou defeitos observados. No que exceder à sua competência, comunicará o fato à autoridade superior, em tempo hábil, para adoção das medidas cabíveis.

13.3 – O gerenciamento, bem como a fiscalização do contrato, caberá à Secretaria Municipal de Serviço Público e Secretaria Municipal de Saúde, que deverão nomear servidores para acompanhar e fiscalizar, garantido que os serviços contratados atendam aos padrões definidos no edital desta licitação;

13.4. – A contratada deverá garantir acesso, a qualquer tempo, da fiscalização aos serviços a serem contratados, devendo aceitar e fornecer dados e informações, que forem necessários.

13.5 – A Contratada executará fielmente o objeto da presente licitação, em estrita obediência a este edital e ao contrato a ser firmado, respondendo pelas conseqüências de sua inexecução total ou parcial.



## 14 - SANÇÕES ADMINISTRATIVAS

14.1. A recusa injustificada do adjudicatário em assinar o contrato, aceitar ou retirar o instrumento equivalente, dentro do prazo estabelecido pela Administração, caracteriza o Descumprimento total da obrigação assumida, nos termos do art. 81 da Lei Federal n.º 8.666/93, sujeitando-o às penalidades legalmente estabelecidas e discriminadas na Minuta de Contrato, Anexo V do Edital

14.2 - A contratada ficará sujeita, pela inexecução das condições estipuladas neste Edital, às penalidades de advertência, multa, suspensão temporária do direito de licitar e contratar com o Município, e/ou declaração de inidoneidade para licitar e contratar com a Administração Pública, de acordo com os artigos 86 a 88 da Lei Federal n.º 8.666/93, sem prejuízo das responsabilidades civil e penal cabíveis, garantido o contraditório e a ampla defesa.

14.3 - Ficam estabelecidos os seguintes percentuais para as multas aplicáveis:

14.3.1 - 0,3% (zero vírgula três por cento) por dia de atraso na execução do objeto, até 30 (trigésimo) dia, calculado sobre o valor do contrato;

14.3.2 - 10% (dez por cento) sobre o valor do contrato, no caso de atraso superior a 30 (trinta) dias na entrega do objeto, com a possível rescisão contratual;

14.3.3 - 20% (vinte por cento) sobre o valor do contrato, na hipótese de a contratada, injustificadamente, desistir da contratação ou der causa à sua rescisão, bem como nos demais casos de descumprimento contratual, quando a Prefeitura, em face da menor gravidade do fato e mediante motivação da autoridade superior, poderá reduzir o percentual da multa a ser aplicada.

14.4 - O valor das multas aplicadas, após regular processo administrativo, será descontado do pagamento devido pela Prefeitura de Barra do Piraí. Se os valores não forem suficientes, a diferença deverá ser recolhida pela Contratada no prazo máximo de 03 (três) dias úteis, a contar da aplicação da sanção.

14.5 - As sanções previstas, face à gravidade da infração, poderão ser aplicadas cumulativamente, após regular processo administrativo em que se garantirá a observância dos princípios do contraditório e da ampla defesa.

## 15- DA DOTAÇÃO ORÇAMENTÁRIA

15.1 – As despesas decorrentes desta contratação correrão por conta da dotação orçamentária:

**20.13.04.452.0011.2.035.3.3.90.39.01.00.00.00**

**30.04.10.122.0020.2.961.3.3.90.39.99.00.00.00**



## 16 – PAGAMENTO

16.1 – O pagamento será efetuado sob o quantitativo RSU e RSS efetivamente coletados e pesados por meio de balança no local da destinação final, devendo constar os valores da pesagem nas medições mensais e nas notas fiscais a serem apresentadas pela contratada e serão realizados em moeda corrente nacional através de depósito bancário para conta corrente da licitante vencedora, no prazo de 30 (trinta) dias a contar da data de emissão e apresentação da nota fiscal na Secretaria de Serviços Públicos localizada na Rodovia Lucio Meira s/nº km 254 Belvedere Barra do Piraí /RJ, CEP 27113580, devidamente atestada.

16.1.1 – Havendo erro na nota fiscal ou circunstancia que impeça a liquidação da despesa, essa será devolvida a empresa vencedora, pelo representante do Município de Barra do Piraí e o pagamento ficara pendente ate que a mesma providencia as medidas saneadoras.

16.2 – No caso de expirar o prazo de validade das certidões apresentadas pelo licitante adjudicatário até a data do pagamento, deverá o mesmo providenciar a atualização destas.

16.3 – Nenhum pagamento será efetuado ao adjudicatário enquanto pendente de liquidação qualquer obrigação financeira que lhe for imposta, em virtude de inadimplência ou penalidade, sem que isso gere direito a reajustamento de preços e correção monetária.

16.4 – Em caso de irregularidade na emissão dos documentos fiscais, o prazo de pagamento será contado a partir de sua reapresentação, desde que, devidamente regularizados, ficando isento o Contratante de arcar com qualquer ônus.

16.5 - Uma vez paga a importância discriminada na nota fiscal, a adjudicatária dará a PREFEITURA plena, geral e irretratável quitação da remuneração referente aos valores nela discriminados, para nada mais vir a reclamar ou exigir a qualquer título, tempo ou forma.

**16.6 - O pagamento por serviços ou itens não previstos seja feito com base no custo unitário constante do Sistema EMOP, acrescido do BDI estabelecido pela Administração no orçamento base, aplicando-se o desconto inicialmente obtido na licitação. Os itens novos não constantes do Sistema EMOP terão seus custos limitados aos indicados nos sistemas de orçamentação de obras (SICRO)/ SINAPI/SCO/PINI/SBC), ou, em caso de inexistência nestes, ao menor preço obtido junto à no mínimo três fornecedores especializados**

## 17 - DA CONTRATAÇÃO



17.1 - Findo o processo licitatório, a autoridade competente adjudicará o objeto do instrumento de convocação ao proponente vencedor.

**17.2 - O proponente vencedor terá o prazo de 05 (cinco) dias úteis, contados a partir de sua convocação para assinar o contrato, que depois de cumpridos os requisitos de publicidade, terá efeito de compromisso para a prestação dos serviços nas condições estabelecidas.**

17.3 - Se a empresa adjudicatária, convocada no prazo acima, deixar de assinar o contrato, não tendo solicitado prorrogação de prazo com justificativa aceita pela Prefeitura, a Comissão Permanente de Licitação poderá convocar os licitantes subsequentes, segundo a ordem de classificação das propostas para fazê-lo em igual prazo e nas mesmas condições da proposta classificada em primeiro lugar, podendo optar por revogar a licitação, nos termos do art. 64, §2º da Lei Federal no 8.666/93.

17.4 – A Prefeitura poderá alterar quantitativos, sem que isto implique alteração dos preços unitários ofertados, obedecido o disposto no artigo 65, §1º da Lei Federal nº 8.666/93

17.5 - Será de responsabilidade da contratada o ônus resultante de quaisquer ações, demandas, custos e despesas decorrentes de danos causados por culpa ou dolo de qualquer de seus empregados, prepostos ou contratados.

17.6 - Obriga-se também a contratada por quaisquer responsabilidades decorrentes de ações judiciais, inclusive trabalhistas, que venham a ser atribuídas por força de lei, relacionadas com o cumprimento do presente Edital.

17.7 - Integrarão a contratação a serem firmada independentemente de transcrição, as condições estabelecidas neste edital e seus anexos, os elementos apresentados pelo proponente vencedor que tenham servido de base para o julgamento deste certame licitatório, além da Proposta Comercial a ser praticada por ele.

## 18 - DA GARANTIA

18.1 - Como garantia para execução do Contrato, a licitante vencedora fornecerá à Prefeitura de Barra do Piraí/RJ, no ato da assinatura do contrato, o valor correspondente a 2% ( dois por cento ) do valor total contratado, ficando a seu critério optar por uma das modalidades descritas no Art. 56, § 1º, da Lei 8.666/93, atualizada, a saber:

18.1.1 - Caução em dinheiro ou em título da dívida pública, emitidos sob a forma escritural, mediante registro em sistema centralizado de liquidação e de custódia autorizado pelo Banco Central do Brasil e avaliados pelos seus valores econômicos, conforme definido pelo Ministério da Fazenda;

18.1.2 - Seguro – garantia;



18.1.3 - Fiança bancária;

18.2 - Os depósitos para garantia das obrigações decorrentes da execução do contrato, quando em dinheiro, serão obrigatoriamente efetuados em Conta Corrente, especifica para tal fim a ser informada pela Secretaria da Fazenda, devendo o comprovante do depósito ser entregue no ato da assinatura do contrato. No caso da licitante vencedora optar por outra forma de garantia, o documento será entregue na Tesouraria da Prefeitura de Barra do Piraí para registro e guarda.

## 19- REAJUSTAMENTO DE PREÇOS

**19.1 - Em observância à Lei nº 10.192/2001, os preços somente poderão ser reajustados sobre os serviços a serem executados depois de 12 (doze) meses de acordo com IPCA – M da FGV, considerando o índice acumulado nos últimos 12 (doze) meses tendo como mês referente a apresentação da proposta.**

19.1.1 para fins de reajuste da mão-de-obra será obedecido o custo efetivo de variação adotando como critério o piso salarial estabelecido em convenção coletiva de trabalho 2017/2018, da categoria de profissionais envolvidos na execução do objeto contratado;

**19.1.2 - para fins de reajuste dos equipamentos e insumos gerais serão obedecidas às variações de preços apurada em média de mercado, efetivamente demonstrada nos autos do competente processo administrativo;**

**19.1.3 para os itens residuais será observado o Índice Oficial do Governo C ou outro índice que venha a substituí-lo, de comum acordo entre as partes, ficando ressalvada a possibilidade de alteração das condições para concessão de reajustes em face da superveniência de normas federais aplicáveis à espécie.**

## 20 - DISPOSIÇÕES GERAIS

20.1 - Constituem anexos deste Edital, dele fazendo parte integrante:

- ANEXO I - PROJETO BÁSICO
- ANEXO II - PLANILHAS DE CUSTOS/ORÇAMENTÁRIA
- ANEXO III - MODELO DE PROPOSTA COMERCIAL
- ANEXO IV - MODELO DE CARTA DE CREDENCIAMENTO
- ANEXO V - MINUTAS CONTRATUAL
- ANEXO VI - MODELO DE DECLARAÇÃO DE CONDIÇÃO DE ME OU EPP
- ANEXO VII - MODELO DE DECLARAÇÃO DE EMPREGADOR PESSOA JURÍDICA



- ANEXO VIII - MODELO DE DECLARAÇÃO DE REQUISITOS DE HABILITAÇÃO  
ANEXO IX - MOD. DECLARAÇÃO DE INEXISTENCIA DE PENALIDADE  
ANEXO X - MOD. DECLARAÇÃO DE DISPONIBILIDADE  
ANEXO XI - MOD. DECLARAÇÃO DE CONCORDÂNCIA COM OS TERMOS DO EDITAL

20.2 - O licitante é responsável pela fidelidade e legitimidade das informações prestadas e dos documentos apresentados em qualquer fase desta licitação. A falsidade de qualquer documento apresentado ou a inverdade das informações nele contidas implicará na imediata desclassificação ou inabilitação do licitante, ou a rescisão contratual, sem prejuízo das sanções administrativas, civis e penais cabíveis.

20.3 - Uma vez incluído no processo licitatório, nenhum documento será devolvido, salvo se original a ser substituído por cópia reprográfica autenticada ou tratar-se dos envelopes de licitantes desqualificados ou de envelopes Proposta de Preço de licitantes inabilitados.

20.4 - Na análise da documentação e no julgamento das Propostas Comerciais, a Comissão Permanente de Licitação poderá, a seu critério, solicitar o assessoramento técnico de órgãos ou de profissionais especializados.

20.5 - Toda a documentação apresentada neste edital e seus anexos são complementares entre si, de modo que qualquer detalhe que se mencione em um documento e se omita em outro será considerado especificado e válido.

20.6 - A Comissão Permanente de Licitação, no interesse da Administração, poderá adotar medidas saneadoras durante o certame, e relevar omissões e erros formais, observadas na documentação e proposta, desde que não contrariem a legislação vigente e não comprometam a lisura da licitação, sendo possível a promoção de diligências junto aos licitantes, destinadas a esclarecer a instrução do processo, conforme disposto no art. 43, §3º da Lei Federal nº 8.666/93.

20.6.1 - Se houver solicitação de documentos, estes deverão ser apresentados em original ou em cópia autenticada por cartório, sendo possível, ainda, a autenticação de cópias pela Comissão Permanente de Licitação;

20.6.2 - O não cumprimento da diligência poderá ensejar a inabilitação do licitante ou a desclassificação da proposta.

20.7 - A participação do licitante nesta licitação implica no conhecimento integral dos termos e condições inseridas neste edital, bem como das demais normas legais que disciplinam a matéria.

20.8 - A presente licitação não importa, necessariamente, em contratação, podendo a Prefeitura de Barra do Piraí, revogá-la no todo ou em parte, por razões de interesse público, derivadas de fato superveniente comprovado ou anulá-la por ilegalidade, de ofício ou por provocação, mediante ato escrito e fundamentado.



**PREFEITURA MUNICIPAL DE BARRA DO PIRAÍ**  
**SECRETARIA MUNICIPAL DE SERVIÇO PÚBLICO**

SERVIÇO PÚBLICO MUNICIPAL

PROCESSO Nº 9222/2017

DATA: \_\_\_/\_\_\_/\_\_\_ Fls. \_\_\_\_\_

RUBRICA: \_\_\_\_\_

20.9 – Caso o representante da licitante, ausente-se da sessão antes do término da lavratura da ata, considerar-se-á aceito os termos constantes nos respectivos documentos.

20.10 – As decisões do Prefeito Municipal e da Comissão Permanente de Licitação serão publicadas na Imprensa Oficial do Município e no site oficial, quando for o caso, podendo ser aplicado o disposto no art. 109, §1º da Lei Federal n.º 8.666/93.

20.11 – Para atender a seus interesses, a Prefeitura poderá alterar quantitativos, sem que isto implique alteração dos valores mensais ofertados, obedecidos os limites estabelecidos no § 1º, do art. 65, da Lei Federal n. 8.666/93.

20.12 – A Prefeitura poderá prorrogar, por conveniência exclusiva, a qualquer tempo, os prazos para recebimento das propostas ou para sua abertura.

20.13 - Fica eleito o foro da Comarca de Barra do Piraí/RJ, para dirimir eventuais conflitos de interesses decorrentes desta licitação, valendo esta cláusula como renúncia expressa a qualquer outro foro, por mais privilegiado que seja ou venha a ser.

Barra do Piraí , \_\_\_\_ de \_\_\_\_\_ de \_\_\_\_\_.

\_\_\_\_\_  
Secretaria Municipal de Serviços Públicos

\_\_\_\_\_  
Secretaria Municipal de Saúde





ESTADO DO RIO DE JANEIRO  
PREFEITURA MUNICIPAL DE BARRA DO PIRAI  
SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICOS

**PROJETO BÁSICO**

**OBJETO**

Contratação de empresa especializada para prestar serviços de coleta e transporte de resíduo sólido domiciliar e comercial, no perímetro urbano e rural (RSU), na circunscrição do Município de Barra do Piraí, bem como Coleta Semanal, transporte e disposição final dos resíduos de serviços de Saúde (RSS), conforme definição contida neste projeto em associação às especificações técnicas inseridas nas planilhas orçamentárias, memórias de cálculo e cronograma físico-financeiro (**ANEXOS I a II DESTE EDITAL**), com destinação final dos resíduos para Aterro Sanitário licenciado por Órgão Ambiental Estadual (**Consortio Intermunicipal de Gestão de Resíduos Sólidos do Vale do Café - CONVALE**).

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## 1. DEFINIÇÕES BÁSICAS

Para efeito deste **Projeto Básico** são adotadas as seguintes definições:

- 1.1. **RESÍDUOS SÓLIDOS DE SAÚDE (RSS):** São os resíduos provenientes dos serviços de saúde enquadrados na classificação da ABNT NBR 12808.
- 1.2. **RESÍDUOS SÓLIDOS URBANOS (RSU):** São os resíduos sólidos caracterizados conforme o artigo 13 da Lei nº 12.305/2010, compreendendo os resíduos domiciliares – gerados a partir de atividades domésticas em residências urbanas e os resíduos de estabelecimentos comerciais e prestadores de serviços, excetuando-se os decorrentes dos serviços de saúde (RSS);
- 1.3. **COLETA:** É o conjunto de atividades para a remoção dos resíduos devidamente acondicionados e dispostos no ponto de oferta, mediante o auxílio de veículos e equipamentos adequados para esta específica finalidade;
- 1.4. **COLETA MANUAL:** É aquela em que os resíduos sólidos são postos pelos munícipes nos pontos de oferta visando coleta manual pelos agentes de limpeza, através dos caminhões compactadores;
- 1.5. **COLETA PORTA-A-PORTA:** É a modalidade de coleta onde os veículos coletores compactadores removem os resíduos sólidos postos à disposição pelos munícipes no ponto de oferta da fonte geradora;
- 1.6. **ACONDICIONAMENTO:** É a colocação dos resíduos no interior de recipientes apropriados e estanques, em regulares condições de higiene, visando sua coleta;
- 1.7. **PONTOS DE CONFINAMENTO:** São locais predeterminados onde os cidadãos depositam e são acumulados os resíduos sólidos urbanos gerados nas áreas de difícil acesso, para posterior remoção pela coleta regular;
- 1.8. **SETOR DE COLETA:** É a área delimitada onde se realiza a coleta numa determinada frequência, num determinado período (diurno ou noturno), através de veículo coletor;
- 1.9. **ITINERÁRIO OU ROTEIRO DE COLETA:** É o trajeto efetuado pelo veículo coletor de lixo dentro da área do setor;
- 1.10. **TRANSPORTE:** É a transferência física dos resíduos sólidos coletados até a Unidade de Disposição Final, mediante o uso de veículos e equipamentos apropriados e devidamente licenciados pelo Órgão Ambiental Estadual – INEA, observando as Resoluções da ABNT e ANTT, considerando a extensão obtida por trabalho técnico especializado, mediante a realização de levantamento topográfico planimétrico, devidamente averbado na entidade profissional competente;
- 1.11. **ATERRO SANITÁRIO / LOCAL DE DISPOSIÇÃO FINAL:** Unidade de destinação final dos Resíduos Sólidos Urbanos (RSU). A unidade licenciada para destinação final dos resíduos sólidos urbanos gerados no Município de Barra do Piraí localiza-se na Estrada Teixeira Leite, nº 4040 - Cananéia – Vassouras/RJ. A Unidade é denominada Centro de Tratamento de Resíduos Sólidos Vassouras-RJ, sendo o Município de Barra do Piraí parte integrante do Consórcio Municipal responsável por sua administração

**Para fins deste projeto básico não estão compreendidos na conceituação de resíduos sólidos urbanos, objetivando remoção: terra, areia, lixo verde e entulhos de obras públicas ou particulares. Neste caso, os resíduos deverão ser levados ao destino pelo próprio gerador.**



## 2. DEFINIÇÕES DA ÁREA

2.1. A área dos serviços abrangidos por este edital engloba todo o limite territorial do Município de Barra do Piraí/RJ, abrangendo inclusive a área dos 05 (cinco) distritos, sendo estes: Califórnia da Barra, Dorândia, Ipiabas, Vargem Alegre e São José do Turvo, cujos **mapas** integram o **ANEXO II DESTE PROJETO BÁSICO**.

## 3. SERVIÇOS A SEREM REALIZADOS

3.1. Os serviços a serem contratados são constituídos por atividades de coleta e transporte de resíduos e outras ações conhecidas como serviços correlatos, pois atuam como acessórios aos primeiros. De um modo geral, podemos descrever estas classes de serviços como:

- ▶ **Coleta e transporte de resíduos domiciliares e comerciais: Serviços formados pelas atividades que utilizam mão de obra, ferramentas e equipamentos de coleta (como veículos coletores compactadores) para remover resíduos sólidos diversos localizados em vias e logradouros públicos.**
- ▶ **Coleta e transporte de Resíduos de Serviços de Saúde- RSS, em recipientes adequados (bombonas) de 200 litros, fornecidos pela licitante vendedora, devidamente licenciado pelo INMETRO, e de acordo com a legislação vigente, para o acondicionamento, transporte dos resíduos e disposição final**

O serviço de coleta e transporte de resíduos sólidos urbanos e rurais, domiciliares e comerciais, incluindo prestadores de serviços, com a exclusão dos serviços de saúde, compreende o recolhimento de todos os resíduos compostos basicamente por resíduos orgânicos, papéis, plásticos e outros que estejam devidamente acondicionados em calçadas e demais logradouros públicos.

A coleta, transporte e destinação final dos resíduos decorrentes dos serviços de saúde (RSS), compreende o recolhimento de todos resíduos provenientes dos serviços de saúde enquadrados na classificação da ABNT NBR 12808.

Após o final de cada itinerário e coleta o veículo deverá ser direcionado para área de disposição final indicada pela Prefeitura Municipal de Barra do Piraí, onde será procedida a sua pesagem e posterior disposição final dos resíduos sólidos urbanos (RSU)/Resíduos de Serviços de Saúde (RSS).

Havendo aumento de resíduos a recolher em consequência do crescimento da população, do número de estabelecimentos comerciais e prestadores de serviços ou por outra ocorrência não prevista, a Contratada deverá adequar seus recursos às necessidades dos serviços.

Os coletores de lixo (agentes de limpeza) deverão, utilizando equipamentos de proteção individual, manusear e carregar os resíduos adequadamente acondicionados em recipientes ou sacos plásticos, com o cuidado necessário para não danificá-los e evitar o derramamento nas vias públicas. Nos casos de danificação ou rompimento acidental será de responsabilidade dos agentes de limpeza o recolhimento integral dos resíduos, utilizando, para tanto, as ferramentas auxiliares de coleta.

Os resíduos deverão ser transportados pelos veículos coletores de forma a não acarretar nenhum tipo de derramamento de resíduos ou chorume nas vias públicas durante todo o trajeto.



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Os resíduos que porventura venham a vaziar ou que no ato do recolhimento cair em vias públicas deverão ser obrigatoriamente recolhidos pela Contratada.

A equipe para a execução da coleta e transporte de resíduos domiciliares e comerciais é composta de 01 (um) motorista, 03 (três) coletores de lixo (agentes de limpeza), especificamente para o veículo coletor do tipo compactador de 15m<sup>3</sup>, incluindo as ferramentas auxiliares de trabalho necessárias ao bom desempenho das funções (pás, vassouras e rastelos de leque).

A equipe para a execução da coleta e transporte de resíduos provenientes dos serviços de saúde é composta de 01 (um) motorista, 01 (um) coletor (agentes de limpeza), especificamente para o veículo utilitário, incluindo as ferramentas auxiliares de trabalho necessárias ao bom desempenho das funções.

Os motoristas e os coletores de lixo (agentes de limpeza) deverão se apresentar ao trabalho devidamente uniformizado e munido de todos os equipamentos de proteção individual (EPI's), na forma da legislação trabalhista.

O motorista deverá seguir rigorosamente o itinerário de coleta informado pela CONTRATANTE.

#### **DESTINAÇÃO ADEQUADA DOS RESÍDUOS SÓLIDOS URBANOS (RSU) E RESÍDUOS DE SERVIÇOS DE SAÚDE (RSS)**

Após cumprir a coleta regular dos resíduos, conforme rotas fixadas pela CONTRATANTE, os veículos deverão se dirigir ao Aterro Sanitário indicado com a sua devida identificação e com o preenchimento do Manifesto de Resíduos com o intuito de obter informações do peso exato dos resíduos e, assim, permitir a emissão dos TICKTES após conferência por balança instalada no Aterro Sanitário (CTDR VASSOURAS-RJ).

A CONTRATADA irá atuar de segunda a sábado e, em caso de demandas específicas, também será realizada aos domingos, garantindo a retirada dos resíduos sólidos da cidade de Barra do Piraí. Ao final de itinerário, todos os resíduos devem ser completamente transferidos para o Aterro Sanitário indicado pelo CONTRATANTE.

A CONTRATADA irá disponibilizar os veículos para carga e o transporte.

A CONTRATADA deve encaminhar os caminhões coletores e demais veículos ao Aterro Sanitário indicado pelo CONTRATANTE, sempre buscando manter a regularidade e não ocasionar filas e, consequentemente, atrasos nos serviços de limpeza da cidade.

#### **4. DISCRIMINAÇÃO DOS SERVIÇOS**

Para fins da presente licitação os serviços são assim discriminados:

##### **4.1. COLETA E TRANSPORTE AO DESTINO FINAL (RESÍDUOS SÓLIDOS DOMICILIARES E COMERCIAIS)**

4.1.1. Os serviços de coleta e transporte ao destino final de resíduos sólidos urbanos (RSU) compreendem o recolhimento regular oriundos das coletas domiciliares e comerciais, incluindo os provenientes das feiras livres, utilizando-se veículos coletores compactadores, devendo ser executados de forma manual. Encerrados os trabalhos diários serão os resíduos transportados até a



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unidade de destinação final.

4.1.2. A metodologia de coleta manual é aquela em que os resíduos são coletados em sacos plásticos descartáveis e alocados em pontos de acesso do compactador. Não sendo possível o acesso dos veículos em todos os logradouros do perímetro urbano, essa condição não impede que seja realizada a retirada dos resíduos despostos no horário de coleta nas rotas consideradas de difícil acesso ou que demande a coleta manual.

4.1.3. A coleta manual regular de resíduos sólidos deverá ser executada nas frequências, turnos e horários conforme estabelecidos no **ANEXO I DESTE PROJETO (EXTENSÃO DAS ROTAS E ETINERÁRIOS RSU)**.

4.1.4. Em locais de difícil acesso onde seja desaconselhável ou impossível o trânsito do caminhão coletor de lixo, a CONTRATADA deverá utilizar técnicas alternativas (tais como: coleta manual, instalações de contêineres nas proximidades, entre outras) para a execução dos serviços.

4.1.5. Todos os custos decorrentes dessa coleta deverão estar contemplados nos custos das coletas, diluídos no preço ofertado pela CONTRATADA.

4.1.6. Após o final de cada roteiro (viagem), o veículo deverá se dirigir ao destino final acompanhado do Manifesto de Resíduos (MRI) fornecido pela Prefeitura de Barra do Piraí, para que possa efetuar o controle de pesagem e descarregar os resíduos coletados.

## **4.2. COLETA E TRANSPORTE AO DESTINO FINAL (RESÍDUOS DE SERVIÇOS DE SAÚDE)**

4.2.1. Os serviços de coleta e transporte ao destino final de Resíduos de Serviços de Saúde (RSS) compreendem o recolhimento regular de todos os estabelecimentos públicos de saúde, já cadastrados e nos que vierem a serem cadastrados ou instalados no município, utilizando-se veículo utilitário adequado. Encerrada a coleta, os resíduos serão transportados até a unidade de destinação final.

4.2.2. A coleta regular de resíduos dos serviços de saúde deverá ser executada nas frequências, turnos e horários conforme estabelecidos no **ANEXO I DESTE PROJETO (EXTENSÃO DAS ROTAS E ETINERÁRIOS RSS)**.

4.2.3. Todos os custos decorrentes dessa coleta deverão estar contemplados nos custos das coletas, diluídos no preço ofertado pela CONTRATADA.

4.2.4. Após o final de cada roteiro (viagem), o veículo deverá se dirigir ao destino final acompanhado do Manifesto de Resíduos (MRI) fornecido pela Prefeitura de Barra do Piraí, para que possa efetuar o controle de pesagem e descarregar os resíduos coletados.

## **5. VEÍCULOS E EQUIPAMENTOS**

5.1. Os veículos automotores com os equipamentos adequados e necessários a cada tipo de serviço deverão ser dimensionados de forma a serem suficientes, em quantidades e qualidade, para atender, de maneira adequada, a prestação de serviços propostos.



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5.2. **A quantidade de veículos e equipamentos necessários à realização dos serviços é:**

<b>Relação de veículos/equipamento para coleta e transporte de resíduos urbanos (RSU) e Resíduos de Saúde (RSS)</b>				
<b>Serviços</b>	<b>Veículos/Equipamentos</b>	<b>Quantidade Operacional</b>	<b>Tempo máximo Uso (anos)</b>	<b>Reserva Técnica</b>
<b>Coleta e transporte Destino final</b>	<i>Caminhão semi pesado, chassi no toco, PBT mínimo de 16 Ton, equipado com coletor compactador de lixo 15 m<sup>3</sup> de carregamento traseiro devidamente instalado no chassi, com caixa de carga lateral lisas em chapa de aço sem emendas. Descarga de lixo por escudo ejetor, compatível com a resistência. Acionada por cilindro hidráulico, com travamento / destravamento manual da tampa traseira. Faixa de compactação de 4x1 e estribo traseiro para acomodação de 04 coletores. Sinalização conforme legislação de trânsito.</i>	06	05	01
	<i>Veículo, Tipo utilitário, fechado, motorização mínima 1,4 CV, com capacidade de no mínimo 02 (dois) passageiros.</i>	01	05	
<b>Supervisão Fiscalização</b>	<i>Veículo, Tipo utilitário, com caçamba, motorização mínima 1,4 CV, com capacidade de no mínimo 02 (dois) passageiros.</i>	01	05	

5.3. Os veículos e os equipamentos ficarão vinculados à execução do contrato e disponibilizados para uso caso a proponente venha a se sagrar a adjudicatária da contratação.

**5.3.1. A idade dos veículos e equipamentos dos caminhões compactadores adotou como critério os princípios da razoabilidade e proporcionalidade, considerando a vida útil dos compactadores de modo a evitar o derramamento de chorume de lixo por ocasião da coleta no limite territorial do Município de Barra do Piraí e, posteriormente, em transporte intermunicipal até o destino final (CTDR VASSOURAS-RJ).**

5.4. Na hipótese da impossibilidade de serem apresentados os veículos e equipamentos exigidos, poderá a CONTRATADA, em substituição, disponibilizar veículos e equipamentos com capacidade volumétrica igual ou superior à exigida, nunca com idade inferior à estipulada, desde que atenda às necessidades para os serviços afins, e que sejam previamente aprovados pelo CONTRATANTE.

5.5. Ao longo da execução do contrato, veículos e equipamentos deverão ser mantidos com todos os seus componentes em perfeitas condições de uso, não obstante o desgaste normal por uso, inclusive a unidade de reserva.

5.6. A CONTRATADA deverá exercer plano de manutenção dos veículos e equipamentos utilizados nos serviços contratados baseado em inspeções diárias, programa e manutenção preventiva e corretiva, programa de serviços internos e externos, programa de limpeza e aparência (lavagem, desinfecção e pintura periódica), programa de controle dos itens de segurança (iluminação, pneus etc.).



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5.7. A CONTRATANTE efetuará avaliações periódicas na frota da CONTRATADA buscando verificar as condições de funcionamento.

5.8. Todos os veículos e equipamentos utilizados nos serviços de coleta e transporte deverão respeitar os limites estabelecidos em lei para fontes sonoras e emissão de gases e demais normas reguladoras do tráfego de veículos.

5.9. As alterações de veículos e equipamentos no cadastro do sistema de pesagem somente serão autorizadas pela CONTRATANTE, desde que atendidas normas contratuais.

5.10. Os padrões de pintura, adesivos e identificação dos veículos e equipamentos com indicação de telefone para denúncia ou sugestões para melhoria dos serviços, visando, entre outros fatores, permitir a participação popular na fiscalização contratual, deverão seguir normas definidas pela CONTRATANTE, sendo os custos de responsabilidade da CONTRATADA.

5.11. A CONTRATADA deverá providenciar o cadastramento prévio dos veículos para o início da execução dos serviços, inclusive para a promoção do devido registro perante o Aterro Sanitário de destino final.

5.12. Todos os veículos utilizados na realização dos serviços, inclusive os da fiscalização da CONTRATADA, deverão ser dotados de sistema de comunicação via rádio ou celular.

5.13. Os veículos coletores compactadores deverão trafegar até a unidade de destino final com a tampa das caixas coletores de chorume vedadas e, ao chegarem, devem ser devidamente esvaziadas e limpas, para que não haja derramamento nas vias públicas.

5.14. Os veículos de coletores de resíduos de serviços de saúde deverão trafegar até a unidade de destino final dispostos de recipientes adequados (Bombonas de 200 litros), ao chegarem, devem ser devidamente esvaziadas e limpas, para que não haja derramamento nas vias públicas.

5.15. É terminantemente proibido o transporte de pessoal em veículos abertos, devendo a CONTRATADA providenciar e arcar com transporte compatível com a legislação de trânsito.

5.16. Todos os veículos e equipamentos devem estar sujeitos a um plano de manutenção, limpeza e higienização a fim de assegurar ótimas condições de aspecto e estado geral durante toda a duração da execução contratual.

5.17. A CONTRATADA estará sujeita às regras de operação, tráfego e eventuais atrasos ocorridos no Aterro Sanitário ou no trajeto para o mesmo, tais como: condições climáticas adversas ou retenções na pista, devendo manter o planejamento da coleta conforme as condições habituais.

5.18. A CONTRATADA deverá seguir as determinações de segurança e normativas descritas na NBR 13.221/2002 e ainda considerar que o transporte dos resíduos se faça através de veículos/equipamentos equipados e com sinalização, observando a legislação de trânsito.

## **6. PESSOAL**

6.1. Além do dimensionamento de pessoal operacional proposto para cada serviço a CONTRATADA deverá manter em seu quadro quantidade mínima de funcionários reservas, para o pleno atendimento aos casos de absenteísmo, afastamentos e cobertura de folgas.



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6.2. A cobertura das faltas e folgas de funcionários nos serviços sem previsão de reserva técnica mínima deverá ser realizada pela reserva dimensionada para os demais serviços.

6.3. É absolutamente vetada ao pessoal da CONTRATADA, a execução de outras tarefas que não sejam objeto desse projeto básico, salvo quando devidamente autorizado pelo CONTRATANTE.

6.4. É proibido aos empregados da CONTRATADA fazer catação ou triagem de resíduos durante a execução dos serviços.

6.5. É proibida a solicitação de gratificação e donativos de qualquer espécie por parte dos funcionários da CONTRATADA durante a execução dos serviços.

6.6. A CONTRATADA deverá fornecer alimentação, lanches e água potável para consumo dos empregados durante suas atividades.

6.7. Todos os funcionários deverão apresentar-se devidamente uniformizados e aseados, com vestimenta e calçados adequados, bonés, capas protetoras e demais equipamentos de segurança quando a situação os exigir (conforme Normas do Ministério do Trabalho), além de identificados através de crachás.

6.8. A disponibilização e reposição de EPI's e uniformes deverão obedecer a seguinte frequência mínima:

Tabela de fornecimento de fardamento e EPI's			
Função	Fiscal de Coleta	Motoristas	Coletores
Bonés	--	--	04 unid / func. x ano
Camisas	04 unid / func x ano	04 unid / func. x ano	08 unid / func. x ano
Calças	03 unid / func x ano	03 unid / func. x ano	04 unid / func. x ano
Luvas	--	--	24 unid / func. x ano
Protetores Solar (100 ml)	--	--	06 unid / func. x ano
Calçado de couro	03 pares/ func x ano	03 pares/ func. x ano	03 pares/ func. x ano
Capas de chuva	--	--	04 unid / func. x ano

6.9. Caberá à CONTRATADA apresentar nos locais e no horário de trabalho os funcionários devidamente uniformizados, providenciando veículos, equipamentos e ferramental suficientes para a plena realização dos serviços.

6.10. Em face da necessidade de recursos humanos qualificados para o exercício dos serviços de gerenciamento e operacional nas áreas do trabalho, é de responsabilidade da CONTRATADA garantir a realização de treinamentos que abranjam os seguintes quesitos:

- Treinamentos operacionais quanto à realização dos serviços;
- Serviços de gerenciamento do sistema de coleta e transporte de RSU;
- Cidadania e meio ambiente;
- Qualidade no atendimento aos usuários;
- Importância dos EPI's;
- Alfabetização de adultos;





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- Outros.

6.11. É de competência da CONTRATADA, sem prejuízo dos coletores e motoristas (lotação de pessoal para os caminhões compactadores), a admissão de engenheiro sanitarista (supervisor e responsável técnico), secretária, estagiários e fiscal de coleta, correndo por sua conta todos os custos da relação trabalhista.

## **7. EDIFICAÇÕES E INSTALAÇÕES**

7.1. A CONTRATADA, em até 60 dias, a contar a emissão da Ordem de Serviço, deverá dispor de imóvel dotado de garagem para veículos, galpão de manutenção, vestiário de funcionários, almoxarifado de peças e demais salas de administração, de forma a poder garantir a regularidade de todas as atividades inerentes ao correto gerenciamento dos serviços (atividades administrativas, operacionais e de manutenção de frota), devendo o mesmo ser localizado no Município de Barra do Piraí ou estar a um raio de 50 km a contar da sua sede do executivo municipal dada a eventual necessidade de acionamento de veículos e/ou pessoal reserva para atendimento as rotas de coleta.

7.2. Não será permitida a permanência de veículos e equipamentos em vias públicas, quando não estiverem em serviço.

7.3. A CONTRATADA deverá manter suas edificações e instalações, correndo por sua conta as despesas necessárias para tanto.

7.4. A fiscalização da CONTRATANTE deverá ter livre acesso as instalações da CONTRATADA para a realização de inspeções de veículos, equipamentos e instalações.

## **8. PESAGEM E DESTINO FINAL**

8.1. A CONTRATADA deverá transportar os resíduos sólidos urbanos e rurais, bem como os resíduos de serviços de saúde, até o local de destinação final determinado.

8.2. Todos os veículos carregados devem ser obrigatoriamente pesados em balanças determinadas pelo Aterro Sanitário conveniado.

8.3. A CONTRATADA deverá submeter seus veículos de coleta ao controle de tara, sempre que exigido pela CONTRATANTE.

8.4. A CONTRATADA não irá arcar com os custos do (CTDR VASSOURAS-RJ), recebimento dos resíduos, cabendo a CONTRATANTE esse encargo, conforme prevê o arranjo previsto no Consorcio Intermunicipal de Gestão de Resíduos Sólidos do Vale do Café - CONVALE.

## **9. DA DIVULGAÇÃO DOS SERVIÇOS AOS USUÁRIOS**

9.1. É de responsabilidade da CONTRATADA a comunicação aos usuários sobre os serviços de coleta em cada área, informando as frequências e horários da coleta, além de versar sobre a correta forma de acondicionamento e disposição dos resíduos.



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9.2. A frequência de comunicação deverá ser realizada sempre que determinada pelo CONTRATANTE, sendo a primeira divulgação realizada durante os primeiros 10 (dez) dias do início dos serviços.

9.3. Independente da frota estipulada, sempre que houver qualquer alteração nos horários de coleta e mediante solicitação da CONTRATANTE, a CONTRATADA deverá previamente comunicar aos usuários sobre tais alterações.

9.4. Qualquer forma de divulgação só poderá ser realizada pela CONTRATADA após aprovação por parte da CONTRATANTE.

## **10. DA MEDIÇÃO DOS SERVIÇOS**

10.1. O pagamento será efetuado sobre o quantitativo de resíduos sólidos urbanos (RSU) efetivamente coletados, avaliados por meio de balança no local do tratamento e destinação final (CTDR VASSOURAS-RJ), devendo constar os TICKETS DE PESAGEM nas medições e nas notas fiscais mensalmente apresentadas.

**RICARDO ELLER VIANA**  
ENG. CIVIL CREA: 1996101066

**RODRIGO BAPTISTA DO NASCIMENTO**  
Secretário Municipal de Serviços Públicos

**JUBERTO FOLENA DE OLIVEIRA JÚNIOR**  
Secretário Municipal de Saúde

## ANEXO I



<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAÍ</b>
<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
<b>ROTAS E ETINERÁRIOS RSU</b>
MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAÍ
ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066

ETINERÁRIO	TURNO	DIAS DE COLETA	HORÁRIO INICIO	KM/ROTA + ATERRO	KM / SEMANA	TRECHO ROTAS (m)	TRECHO ATERRO (m)	TOTAL ROTAS + ATERRO (m)
<b>1</b> São José do Turvo / Dorândia / Vargem Alegre / Bomba de Areia / Varal / Belvedere / Oficinas Velhas	Diurno	Terças Quintas Sábados	06:00	119,20	357,61	74075,7	45128	119203,7
<b>2</b> Califórnia - Parte Alta / Santa Terezinha / Cerâmica / Mercado Fam/ Fátima / São Luiz da Barra / Reta Principal / Morada do Vale / Boa Vista da Barra / Rua 10 / Balança / PRF / Pedágio / Aldeia das Águas / Landin / Vigor / Matadouro parte / Oficinas Velhas	Diurno	Segundas Quartas Sextas-Feiras	06:00	101,26	303,77	56128,6	45128	101256,6
<b>3</b> Califórnia Central / Rua 1 a 25 / Ciep / Reta / Rica / Fábrica na rodovia 393 / Landin / Aldeia das Águas parte	Diurno	Terças Quintas Sábados	06:00	88,84	266,51	43707,2	45128	88835,2
<b>4</b> Reta do Belvedere / Ipiabas / Fazenda da Taquara / Fazenda Prosperidade / Postos Belvedere / Faculdade UGB	Diurno	Segundas Quartas Sextas-Feiras	06:00	110,96	332,87	65827,1	45128	110955,1
<b>5</b> Vargem Grande / Caieira Velha / Carvão / Igreja Sto Cristo / Medianeira / Rua Duque de Caixias / R. Cristiano Otoni / Assis Ribeiro / Fórum Antigo / Morro do Gama / Asilo / Boa Sorte / Depósito de Côco (Rua dos Pracinhas.	Diurno	Terças Quintas Sábados	06:00	77,19	231,58	32065,4	45128	77193,4
<b>6</b> Centro / Caieira São Pedro / Rua dos Pracinhas / Centro (Santa Casa) / Rua Franklin de Moraes / Muqueca / Carlos de Queiroz / Bairro São João / Chalezinho / Santa Barbara / Vargem Grande / Carvão / / Rua Cristiano Otoni / Cantão / Estrada do Antigo Vazador	Diurno	Segundas Quartas Sextas-Feiras	06:00	89,60	268,80	44471,0	45128	89599

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<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
<b>ROTAS E ETINERÁRIOS RSU</b>
MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066

ETINERÁRIO	TURNO	DIAS DE COLETA	HORÁRIO INICIO	KM/ROTA + ATERRO	KM / SEMANA	TRECHO ROTAS (m)	TRECHO ATERRO (m)	TOTAL ROTAS + ATERRO (m)	
7	Metalurgica Parte / Boca do Mato / Guararema / Parque Santana / Próximo a Torre / Barragem Santana / Italiano / Areal / Rua da Mina / Boa Sorte	Diurno	Terças Quintas Sábados	06:00	92,36	277,09	47236,2	45128	92364,2
8	Química / Parque São Joaquim / Vila Helena-Parte Baixa / São Luis / Vale do Ipiranga / Centro (Av. Beira Rio)	Diurno	Segundas Quartas Sextas-Feiras	11:00	69,94	209,83	22018,2	47924	69942,2
9	Parque Santana / Roseira / Hotel Arvoredo /Carbocálcio / Grota do Neném / Maracanã (Via Av. Prefeito Artur da Costa) / Caixa d'água	Diurno	Terças Quintas Sábados	11:00	77,62	232,85	32487,5	45128	77615,5
10	Caixa D'água / Ponte Preta / Lago Azul (Parte) / Rodovia 393-via PRF / Rua Cândido Blazutti / Coimbra - Loteamento Firmino / Batalhão Polícia Militar BR939 / Fazenda Ribeirão	Diurno	Segundas Quartas Sextas-Feiras	06:00	84,24	252,72	39110,9	45128	84238,9
11	Belvede / Igreja Santana / Matadouro (Novo Fórum) / Beco do Peão / Rua 24 de Agosto / Santo Antônio /Oficinas Velhas (Parte) / Coimbra / Minuano	Diurno	Segundas Quartas Sextas-Feiras	11:00	68,07	204,21	22940,5	45128	68068,5
12	São José / Mesquita / Santa Bárbara / Lago Azul / Grota do Urubu / Santana da Barra (Parte) / Metalúrgica / Oficinas Velhas (Principal)	Diurno	Terças Quintas Sábados	11:00	74,42	223,25	29290,2	45128	74418,2

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<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
<b>ROTAS E ETINERÁRIOS RSU</b>
MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066


ETINERÁRIO	TURNO	DIAS DE COLETA	HORÁRIO INICIO	KM/ROTA + ATERRO	KM / SEMANA	TRECHO ROTAS (m)	TRECHO ATERRO (m)	TOTAL ROTAS + ATERRO (m)
13 Centro (Mercado Municipal/Supermercado Casa do Arroz) / Rua Assis Ribeiro / Rua da Estação / Vila MRS) / Muqueca / Centro - (Rua Moreira dos Santos) / Caieira (Cemitério) / Centro (Rua Major Ferraz/ Santa Casa (Parte)) / Vila Helena / Vila Suiça / Centro (Rua Amaral Peixoto)	Diurno	Segundas Terças Quartas Quintas Sextas-Feiras Sábados	14:00	74,96	449,75	29830,2	45128	74958,2
14 (Apoio) Centro (Mercado Municipal / Rua Assis Ribeiro / Antigo Fórum / Restaurantes, Lanchonetes, Supermercados, Depósitos e Rodoviária) / Bairro Santana	Diurno	Segundas Terças Quartas Quintas Sextas-Feiras Sábados	06:00	71,54	429,27	26416,5	45128	71544,5
<b>TOTAL</b>				<b>1.200,19</b>	<b>4.040,09</b>	<b>565.605,20</b>	<b>634.588,00</b>	<b>1.200.193,20</b>

**Observações de Rotas:**

1. HORÁRIO DE FUNCIONAMENTO DO ATERRO SANITÁRIO 7:00 ÀS 17:00
2. EM CASOS ESPECÍFICOS AS ROTAS SÃO PLANEJADAS CONFORME VIAS DE DIFÍCIL ACESSO (LARGURAS DE VIAS / DECLIVIDADES ACENTUADAS / AUSÊNCIA DE RECUOS/HORÁRIOS DE CARGA E DESCARGA E EMBARQUE E DESEMBARQUE) ROTA 7
3. TRECHOS DE VIAS DUPLICADOS SÃO REFERÊNTES A CASOS ESPECIFICOS: 1-RUAS A AVENIDAS DE MÃO DUPLA E ALTA MOVIMENTAÇÃO QUE IMPOSSIBILITAM A COLETA DE AMBOS OS LADOS, SENDO NECESSÁRIO COLETA NO RETORNO DA VIA / 2-
4. FOI CONSIDERADO A DISTÂNCIA DO LIMITE MAIS PRÓXIMO DO MINUCÍPIO AO ATERRO SANITÁRIO CONVENIADO (VIA BR-393)
5. DEVIDO A PARTICULARIDADE DE COLETA DA ROTA 8, A MESMA POSSUI UM TRAJETO DIFERENCIADO ATÉ O ATERRO CONTROLADO (CONVALE)

<b>KM/ANO&gt;&gt;&gt;</b>	<b>210.084,56</b>
<b>KM/MÊS&gt;&gt;&gt;</b>	<b>17.507,05</b>

ANEXO I

	PREFEITURA MUNICIPAL DE BARRA DO PIRAÍ
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAÍ
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

ROTA RSS	ETINERÁRIO UNIDADES DE SAÚDE	TURNO	DIAS DE COLETA	HORÁRIO INÍCIO	KM/ROTA	Memo. Calc./mts
15	<b>UBS Oficina Velhas</b> -Rua Antonio da Silva Brinco, 810 / <b>UBS Cantão</b> - Estrada Leny de Souza, 2100/ <b>Pan-Secretaria de Saúde</b> -Rua Paulo de Frontin (Centro) / <b>Clinica da Mulher</b> -R. Dr. Morais Barbosa, 120 (Centro) / <b>UBS Albert Saibim</b> - Sant'Anna-Rua Angélica, 238	Diurno	Segundas-Feiras	09:00	11,53	11.525,00
16	<b>UBS Lago Azul</b> -Rua Nossa Senhora do Carmo, 101 / <b>UBS Belvedere</b> -Rua Luiz Camerano, 152 L1 / <b>UBS Santo Antônio</b> -Rua Antônio de Almeida, 114 / <b>UBS Boa Sorte</b> -Rua José Militão, s/nº / <b>UBS Areal</b> -Rua Teresópolis, 249	Diurno	Terças-Feiras	09:00	19,25	19.250,50
17	<b>CAPS Centro</b> -Rua Professor José Costa, 133 / <b>UBS Albert Saibim</b> -Sant'Anna-Rua Angélica, 238 / <b>Clinica da Mulher</b> -R. Dr. Morais Barbosa, 120 (Centro) / <b>UBS São João</b> -Rua Francisco Di Biase, 110 / <b>UBS Ponte Vermelha</b> -Rua Carmen R. Santana, 21 / <b>UBS Santana de Barra-Avenida</b> -Ari Parreiras, 6195 / <b>UBS Parque Santana</b> -Estrada Municipal, 856 / <b>UBS Vargem Grande</b> -Avenida Getúlio Vargas, 668 / <b>UBS Boca do Mato</b> -Rua José Carotta, 283 / <b>Pan-Secretaria de Saúde</b> - Rua Paulo de Frontin (Centro)	Diurno	Quartas-Feiras	09:00	16,18	16.182,00
18	<b>UBS Oficinas Velhas</b> -Rua Antônio da Silva Brinco, 810 / <b>UBS Lago Azul</b> -Rua Nossa Srª do Carmo, 101 / <b>UBS Ipiabas</b> -Rua Dr. Luiz Novaes, 143 / <b>UBS Parque São Joaquim</b> -Rua Vicente J. Camilo, s/nº	Diurno	Quinta-Feiras	09:00	25,35	25.346,00
19	<b>UBS Dorandia</b> -Rua Comendador Nóbrega, 185 / <b>Educandário OsWaldo Aranha</b> - Dorândia / <b>UBS Turvo</b> -Rua Ulisses Dias Valente, 1810 / <b>UBS Vargem Alegre</b> -Rua Maurício de Abreu, 270 / <b>UBS Califórnia2</b> - Rua 27 / <b>UBS Califórnia1</b> -Rua Presidente Costa e Silva, 846 / <b>UBS Boa Sorte</b> -Rua José Militão, s/nº / <b>UBS Areal</b> -Rua Teresópolis, 249 / <b>UBS Morro do Gama</b> -Rua Manoel Juvenio / <b>Pan-Secretaria de Saúde</b> -Rua Paulo de Frontin (Centro) / <b>Clinica da Mulher</b> -R. Dr. Morais Barbosa, 120 (Centro) / <b>UBS-Lab. Albert Saibim</b> Sant'Anna-Rua Angélica, 238 / <b>UBS Santo Antônio</b> -Rua Antônio de Almeida, 114 / <b>UBS Coimbra</b> -Rua A, 3 - Arthur Cataldi	Diurno	Sextas-Feiras	06:00	72,39	72.393,00
<b>TOTAL RSS</b>					<b>144,70</b>	<b>144.696,50</b>
<b>ROTAS+ATERRO (KM/SEMANA) &gt;</b>						<b>189,8245</b>

OBS:

- HORÁRIO DE FUNCIONAMENTO DO ATERRO SANITÁRIO 7:00 ÀS 17:00
- EM CASOS ESPECÍFICOS AS ROTAS SÃO PLANEJADAS CONFORME VIAS DE DIFÍCIL ACESSO (LARGURAS DE VIAS / DECLIVIDADES ACENTUADAS / AUSÊNCIA DE RECUOS/HORÁRIOS DE CARGA E DESCARGA E EMBARQUE E DESEMBARQUE)

<b>KM/ANO &gt;&gt;&gt;</b>	<b>9.870,87</b>
<b>KM/MÊS &gt;&gt;&gt;</b>	<b>822,57</b>

SITUAÇÃO:

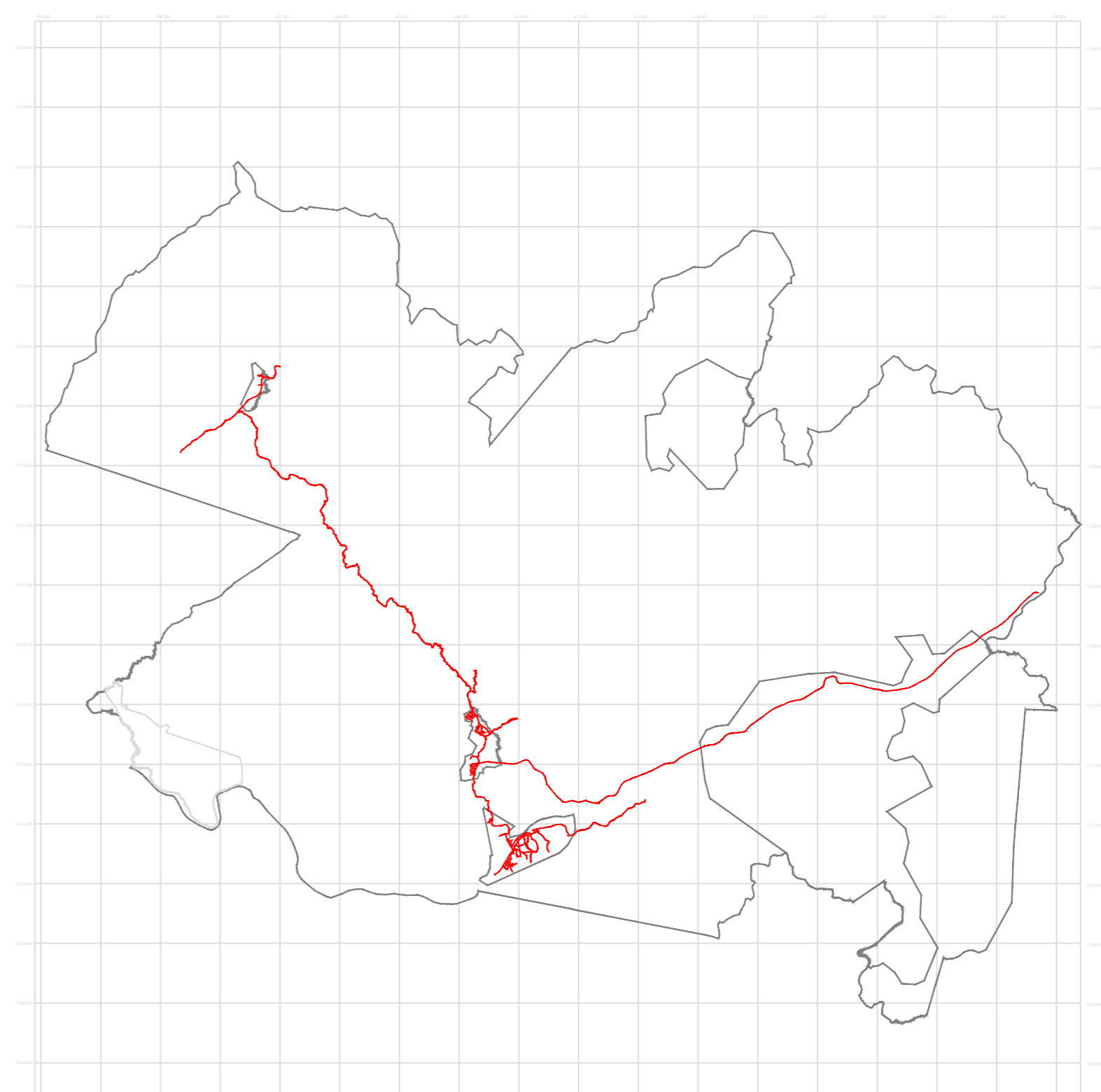
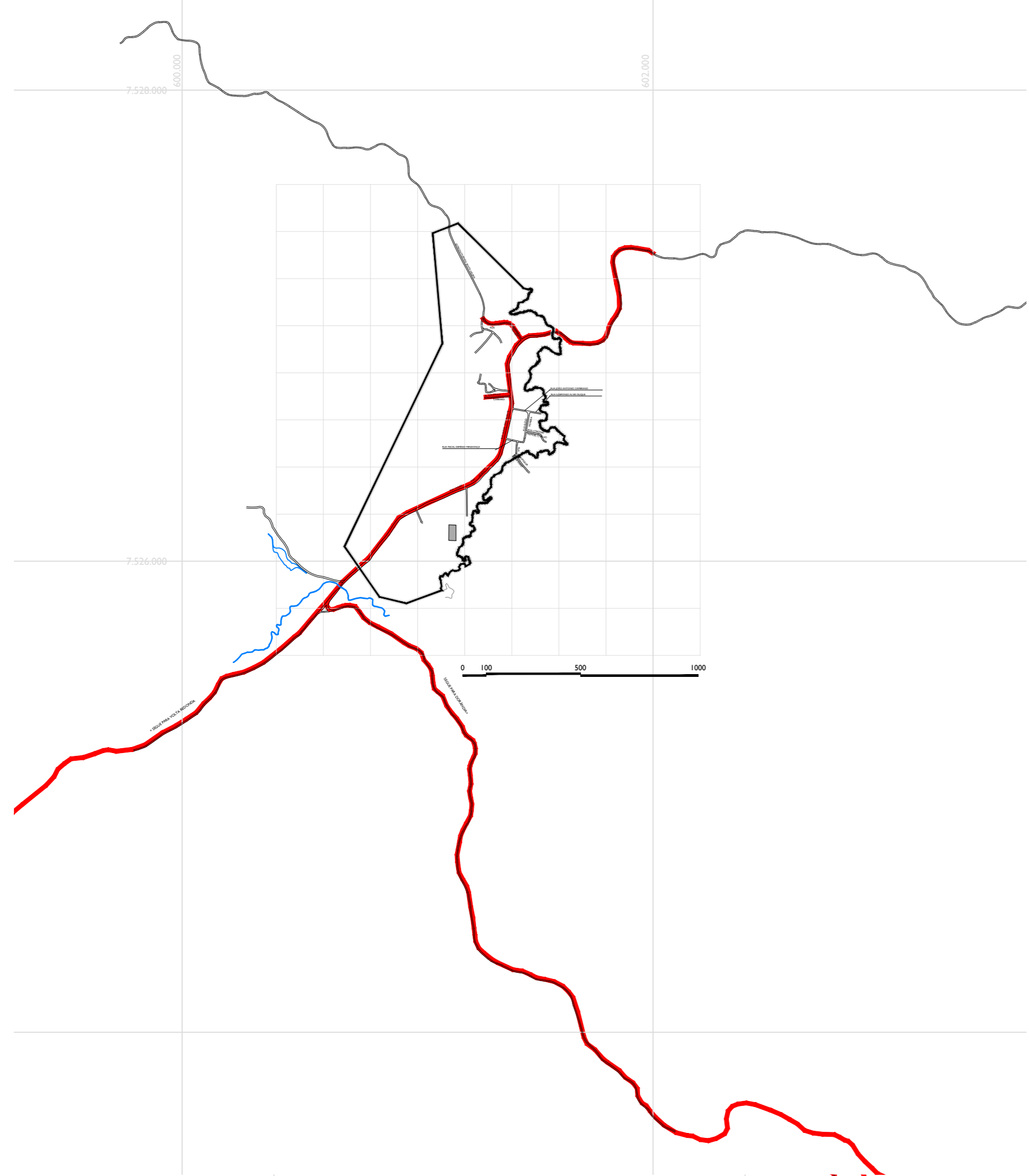


MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS, DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VÁLIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.

Rota: 01  
Tipo de Coleta: RSU  
Deslocamento Total de Rota (metros): 74.075,7

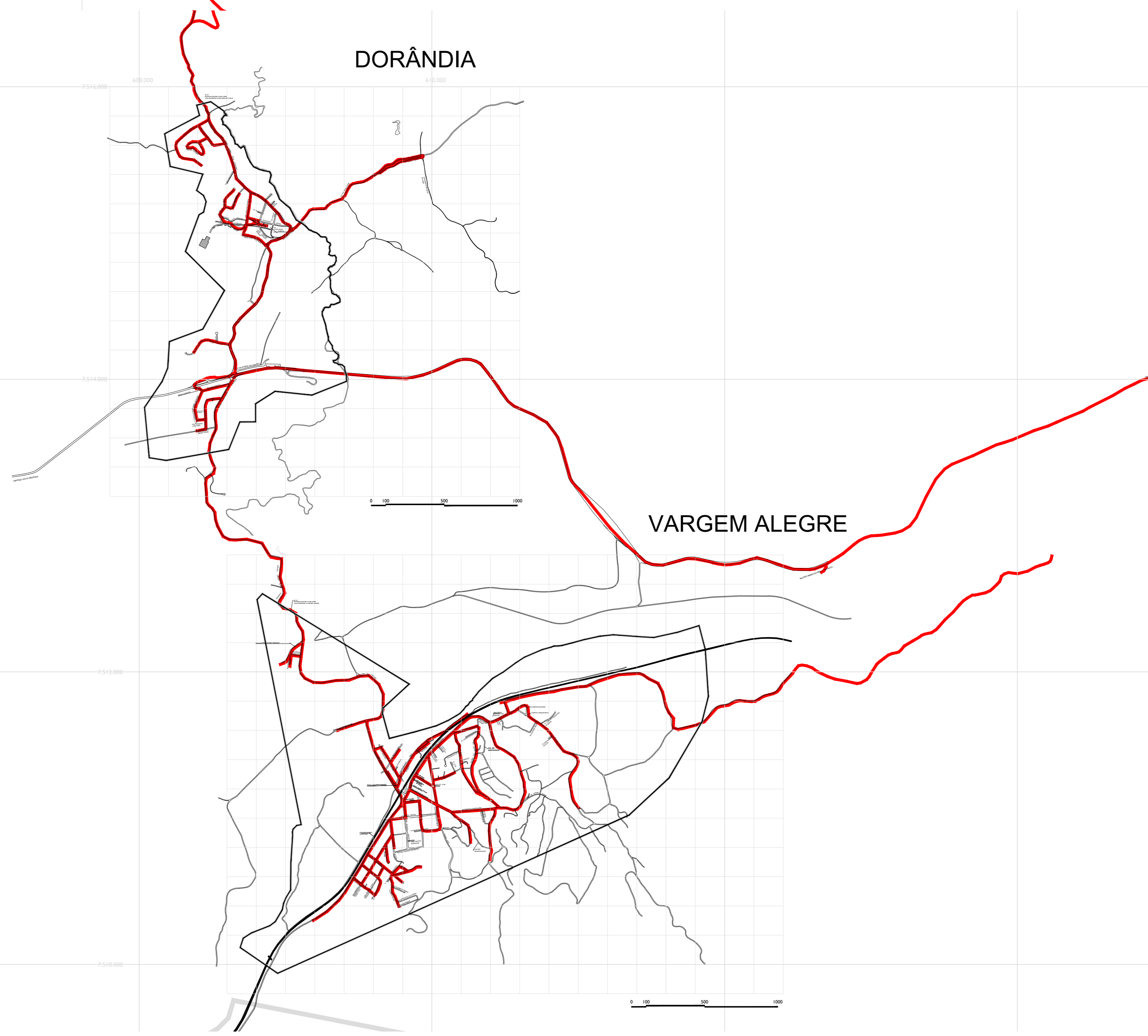
ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066

### SÃO JOSÉ DO TURVO



INFRAESTRUTURA E SISTEMA VIÁRIO  
BARRA DO PIRAI  
ROTA 1/2009

### DORÂNDIA



### VARGEM ALEGRE

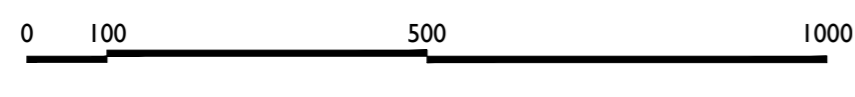
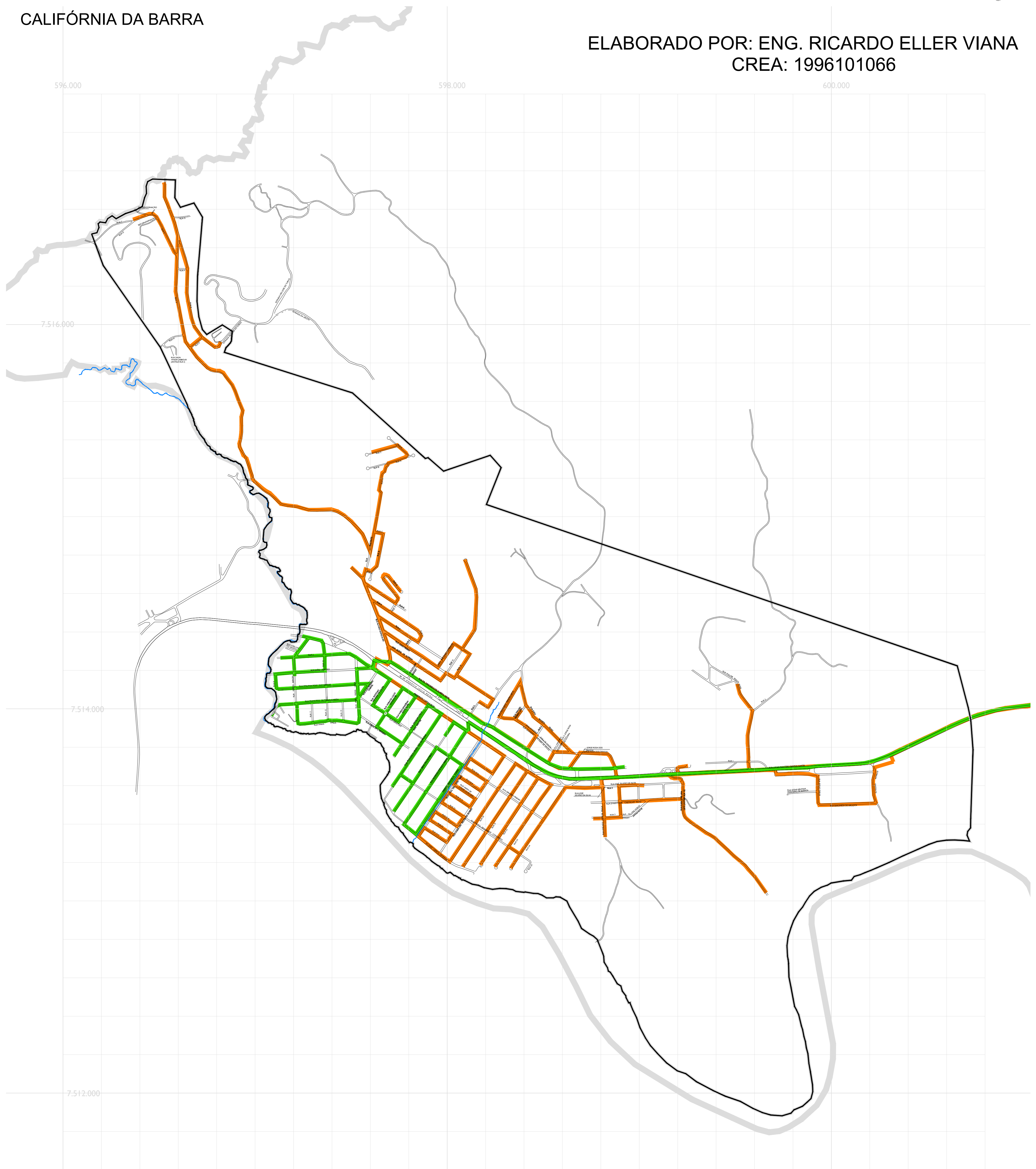
Rota: 02-03  
Tipo de Coleta: RSU  
Deslocamento Total de Rota (metros): ROTA 02 - 56128,6  
ROTA 03 - 43707,2



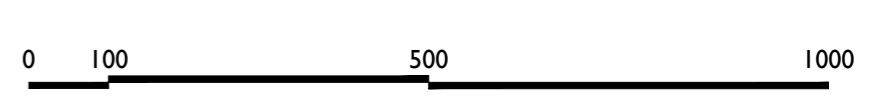
MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS, DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VÁLIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.

### CALIFÓRNIA DA BARRA

ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066



- LEGENDA:
- ROTA 02
  - ROTA 03



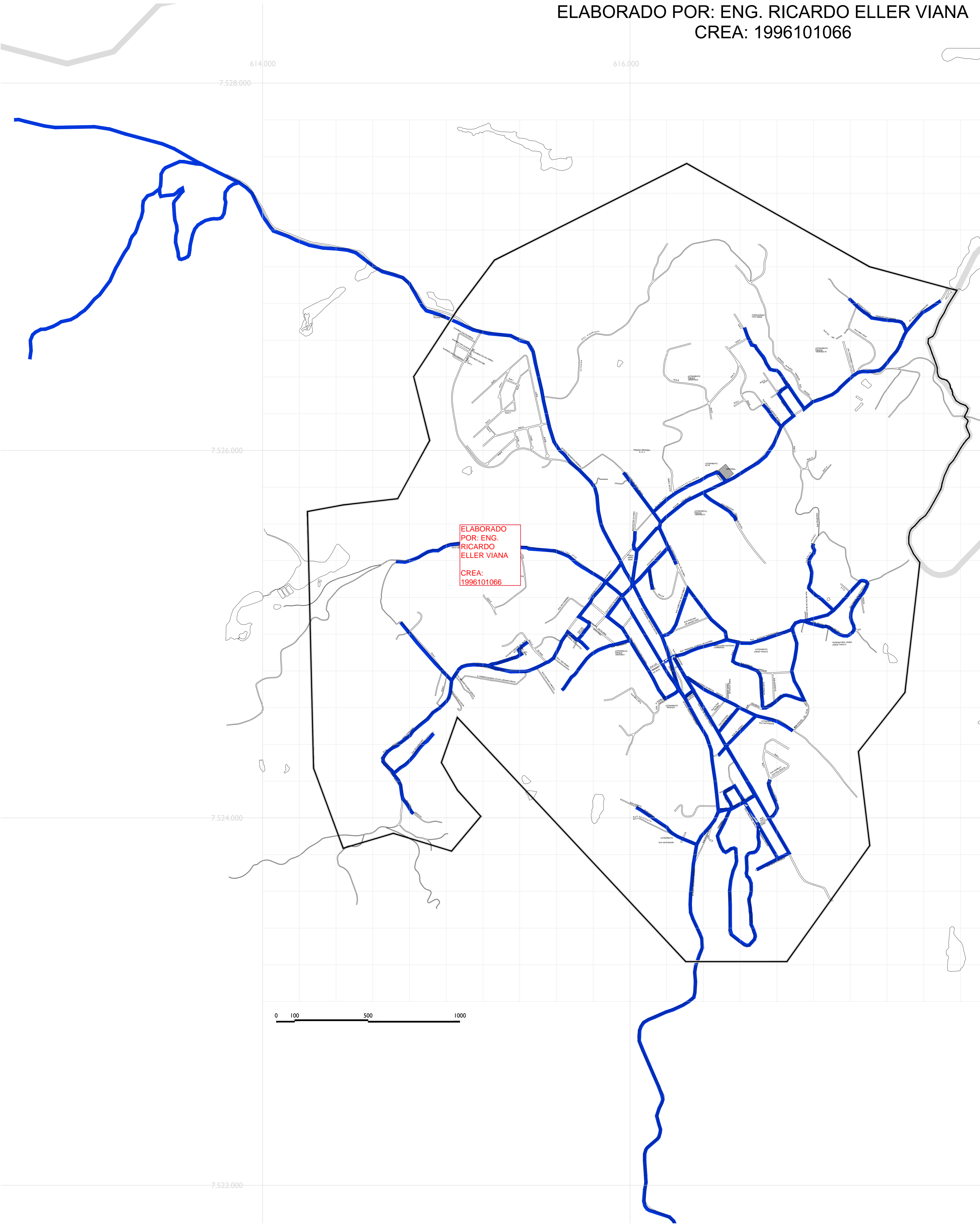




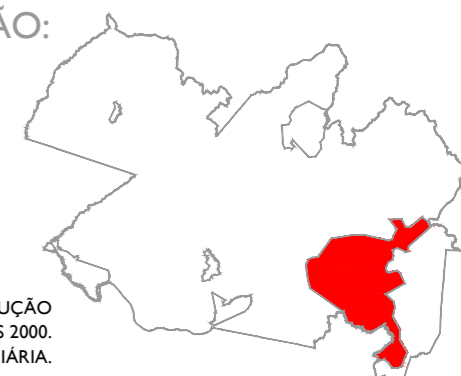
Rota: 04  
Tipo de Coleta: RSU  
Deslocamento Total de Rota (metros): 65827,1

MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS, DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VÁLIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.

ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066

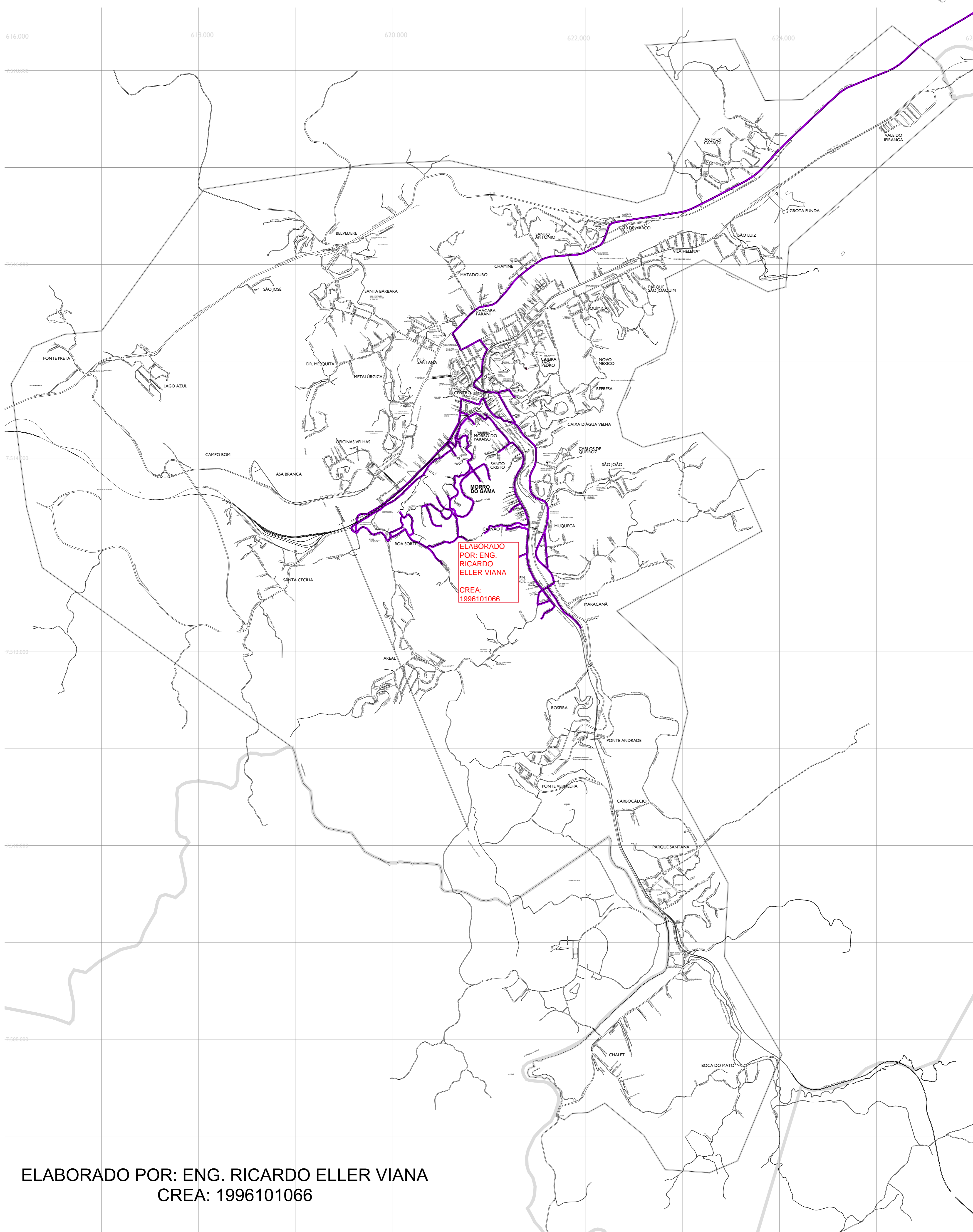


SITUAÇÃO:



Rota: 05  
Tipo de Coleta: RSU  
Deslocamento Total de Rota (metros): 32065,4

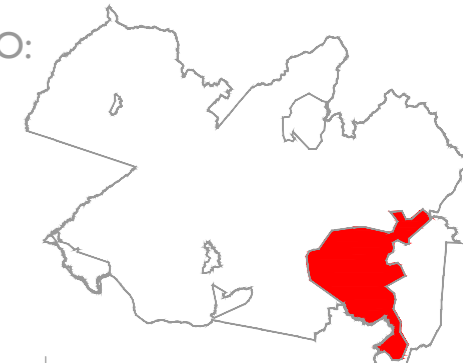
MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VÁLIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.



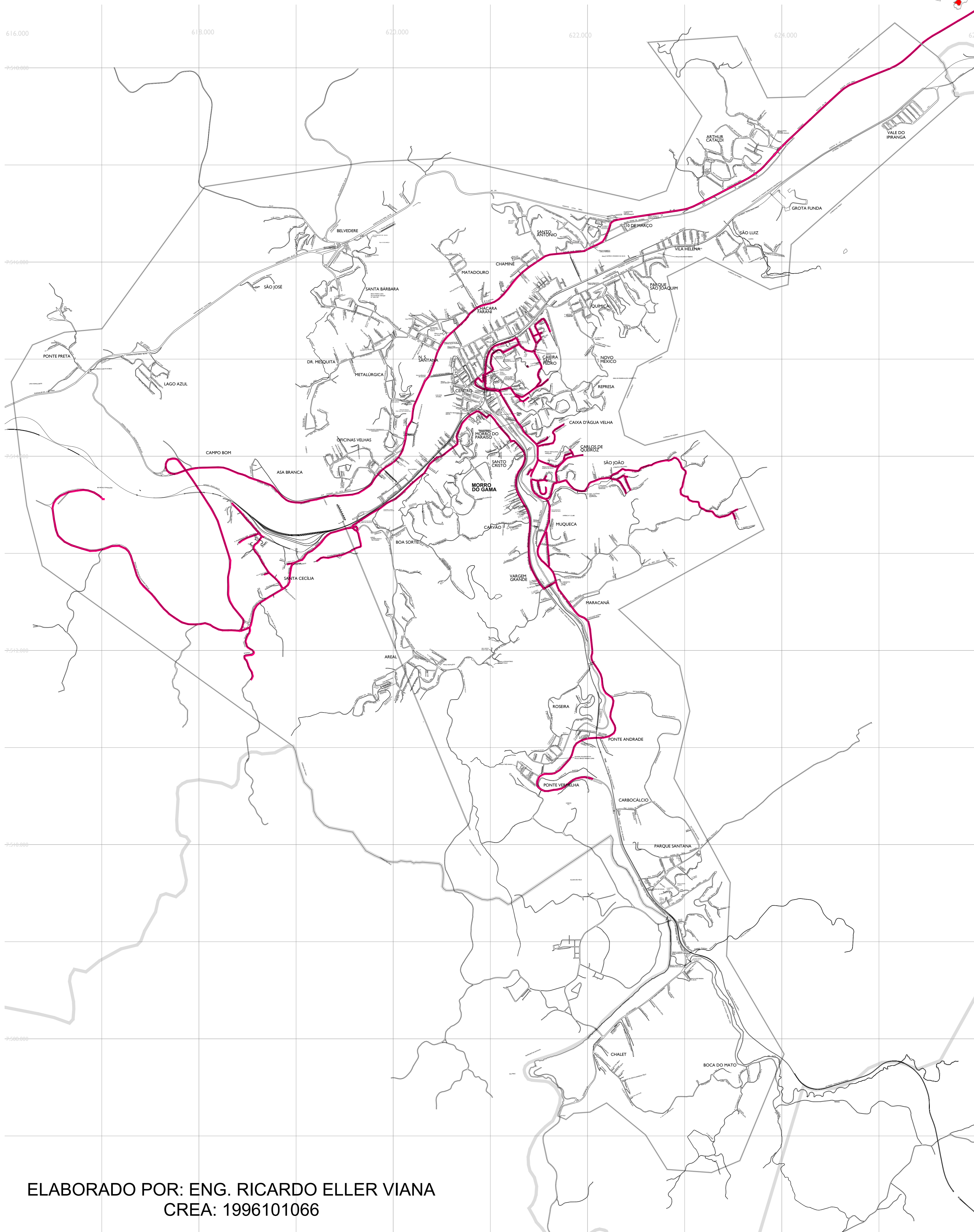
ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066

Rota: 06  
Tipo de Coleta: RSU  
Deslocamento Total de Rota (metros): 44471,0

SITUAÇÃO:



MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VÁLIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.



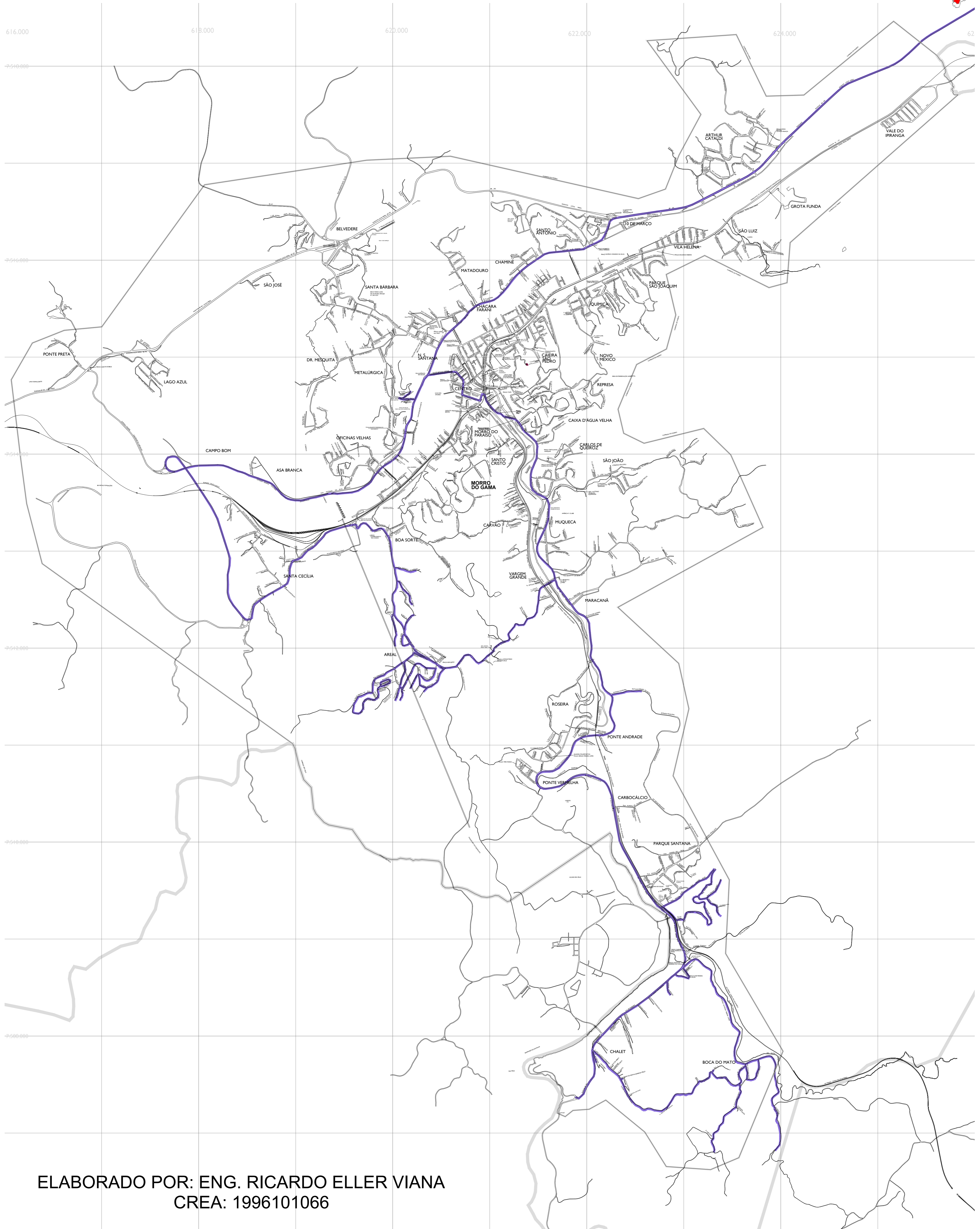
ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066

**Rota: 07**  
**Tipo de Coleta: RSU**  
**Deslocamento Total de Rota (metros): 47236,2**

SITUAÇÃO:



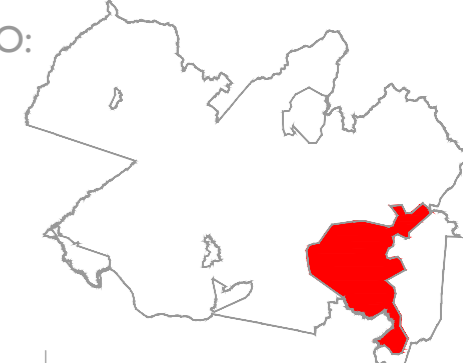
MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VÁLIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.



**ELABORADO POR: ENG. RICARDO ELLER VIANA**  
**CREA: 1996101066**

**Rota: 08**  
**Tipo de Coleta: RSU**  
**Deslocamento Total de Rota (metros): 22018,2**

SITUAÇÃO:



ESTA ROTA APRESENTA PARTICULARIDADE EM RELAÇÃO AO DESLOCAMENTO EXTERNO AO DISTRITO, CONSIDERANDO ENTÃO A MENOR DISTÂNCIA DE ACESSO A VIA DE SENTIDO AO ATERRO SANITÁRIO.

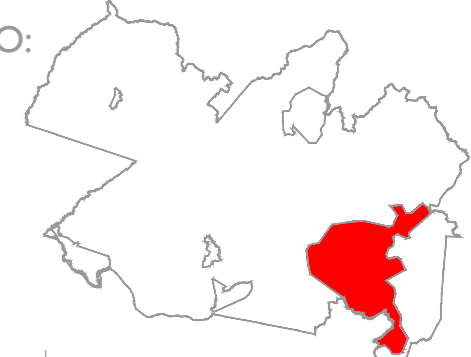
MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO E ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000. DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VÁLIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.



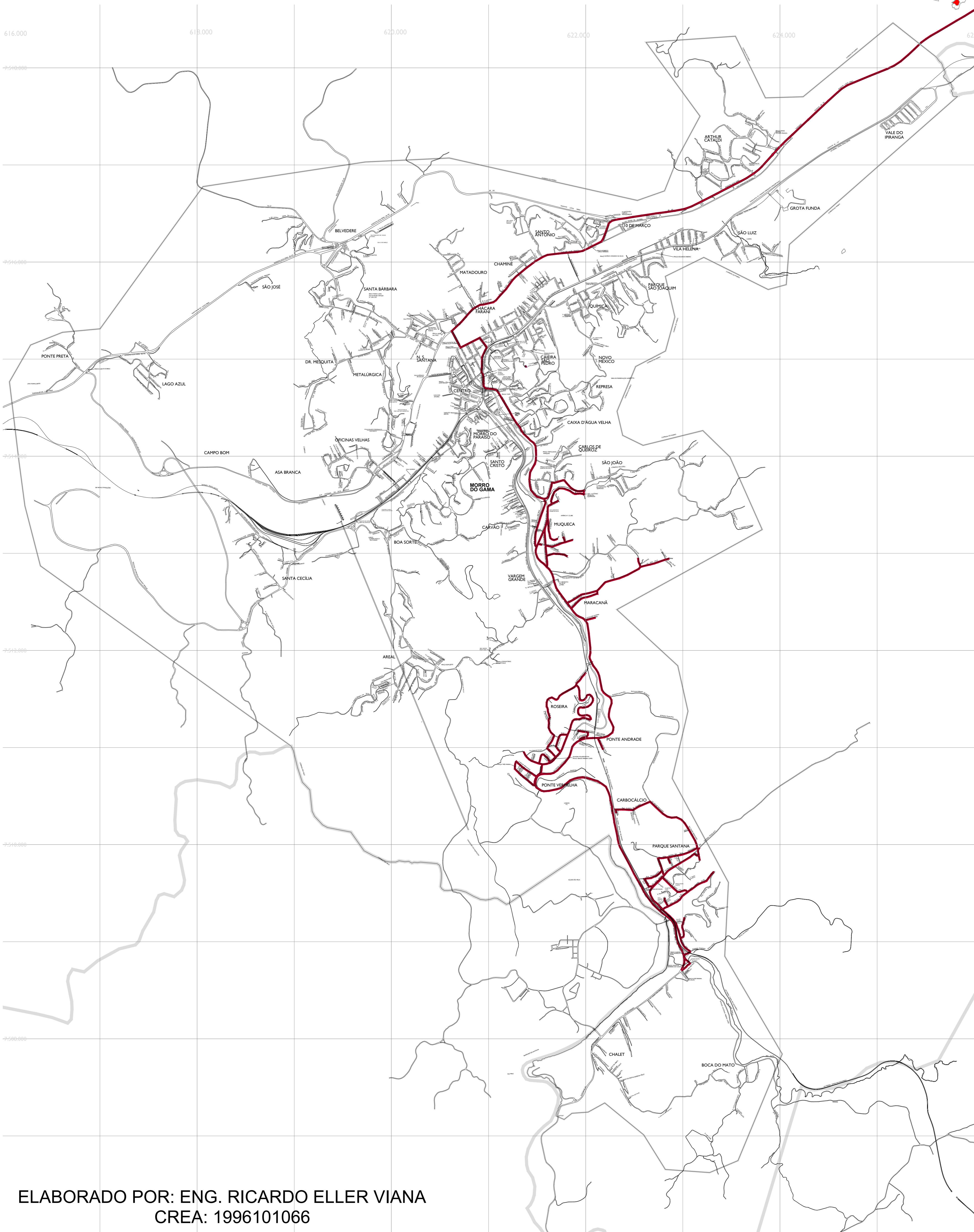
**ELABORADO POR: ENG. RICARDO ELLER VIANA**  
**CREA: 1996101066**

Rota: 09  
Tipo de Coleta: RSU  
Deslocamento Total de Rota (metros): 32487,5

SITUAÇÃO:



MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VÁLIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.



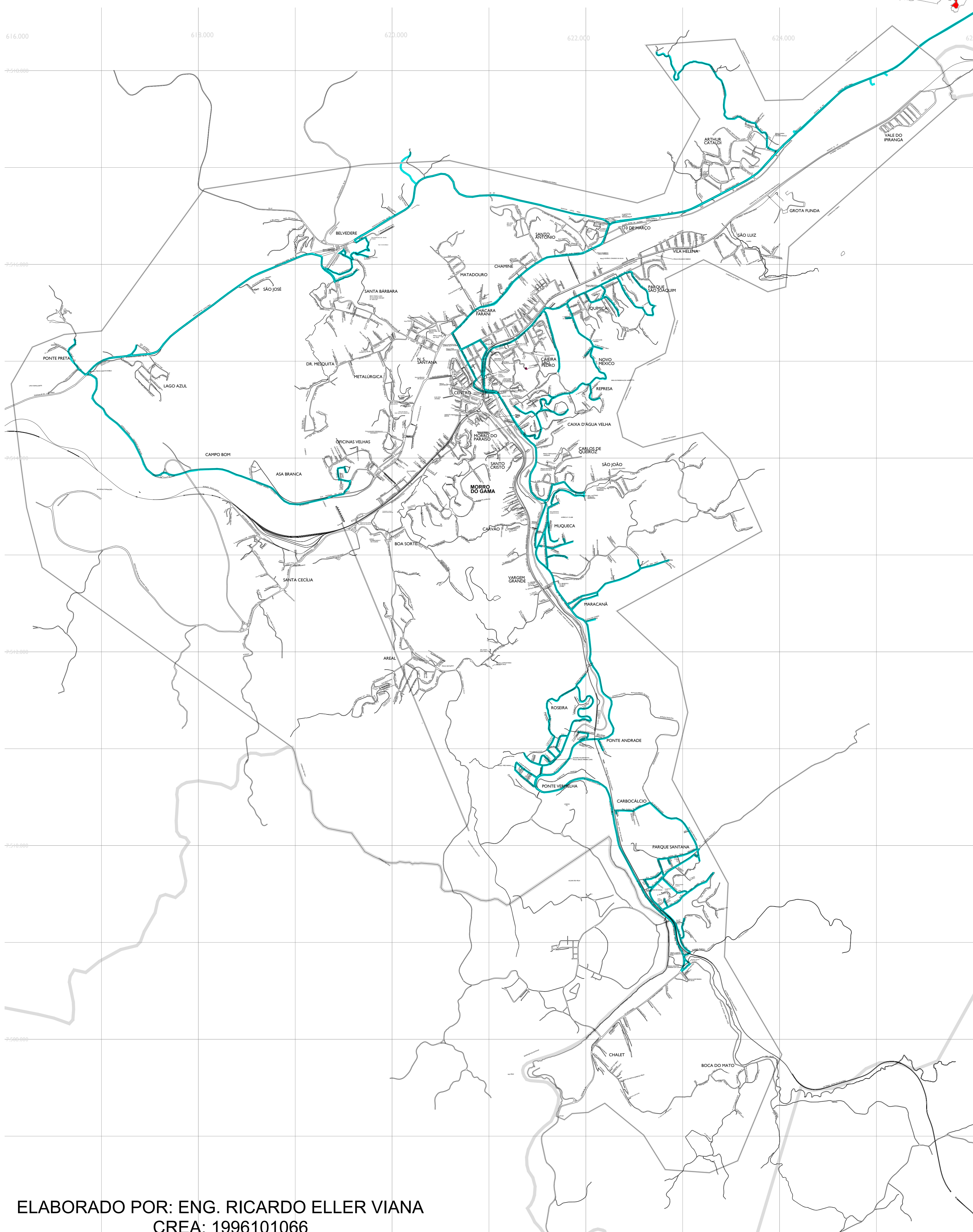
ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066

SITUAÇÃO:



Rota: 10  
Tipo de Coleta: RSU  
Deslocamento Total de Rota (metros): 39110,9

MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VÁLIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.



ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066

SITUAÇÃO:



MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VÁLIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.

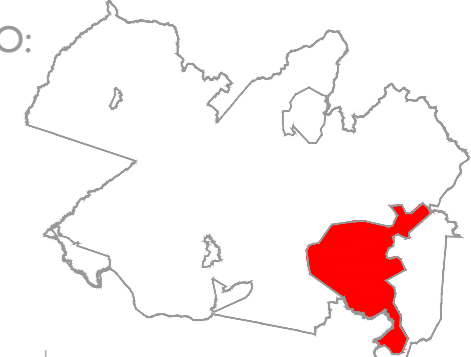
Rota: 11  
Tipo de Coleta: RSU  
Deslocamento Total de Rota (metros): 22940,5



ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066

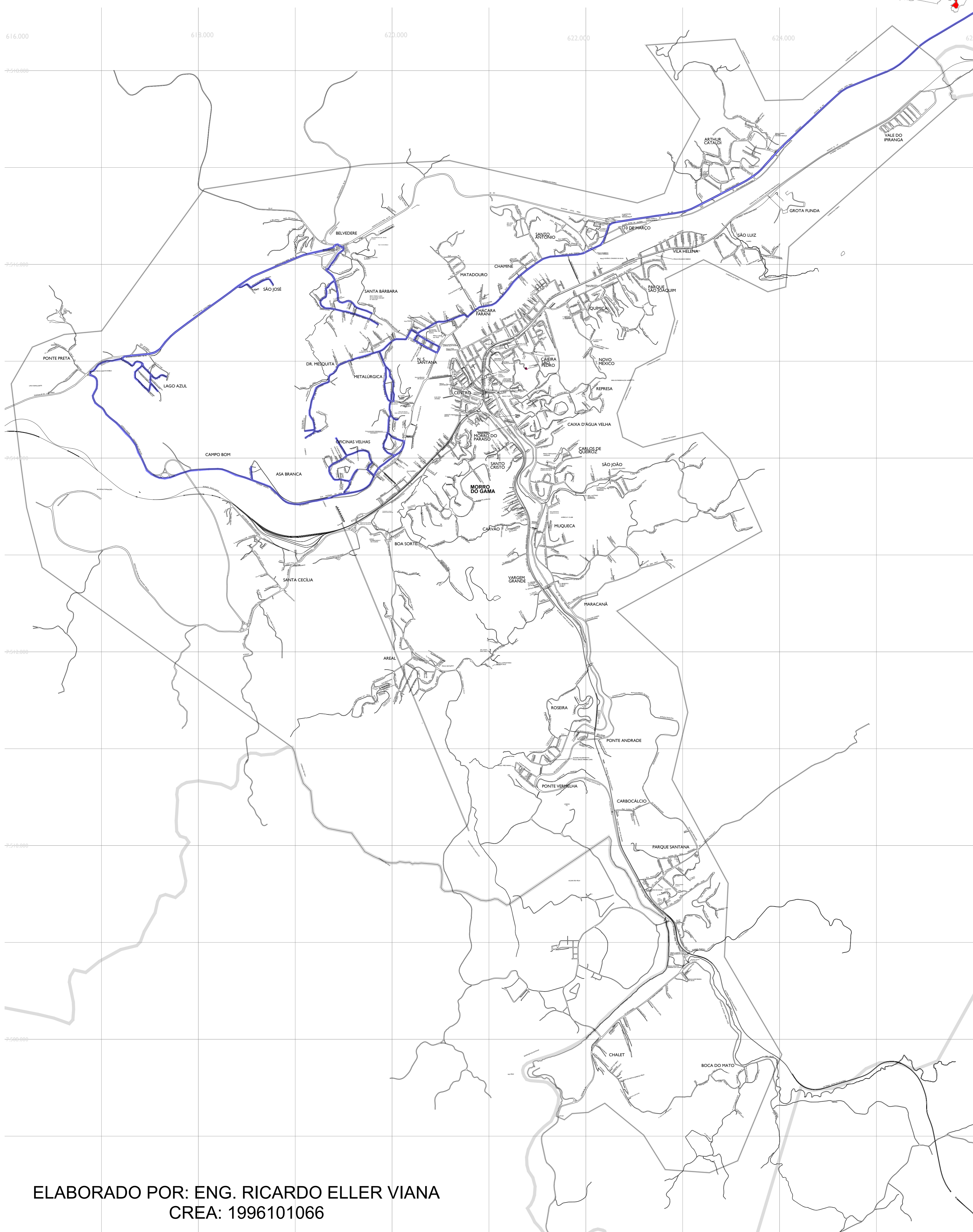


SITUAÇÃO:



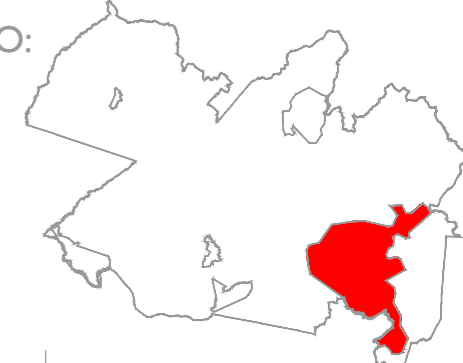
MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VÁLIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.

Rota: 12  
Tipo de Coleta: RSU  
Deslocamento Total de Rota (metros): 29290,2



ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066

SITUAÇÃO:



Rota: 13  
Tipo de Coleta: RSU  
Deslocamento Total de Rota (metros): 29830,2

MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VÁLIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.



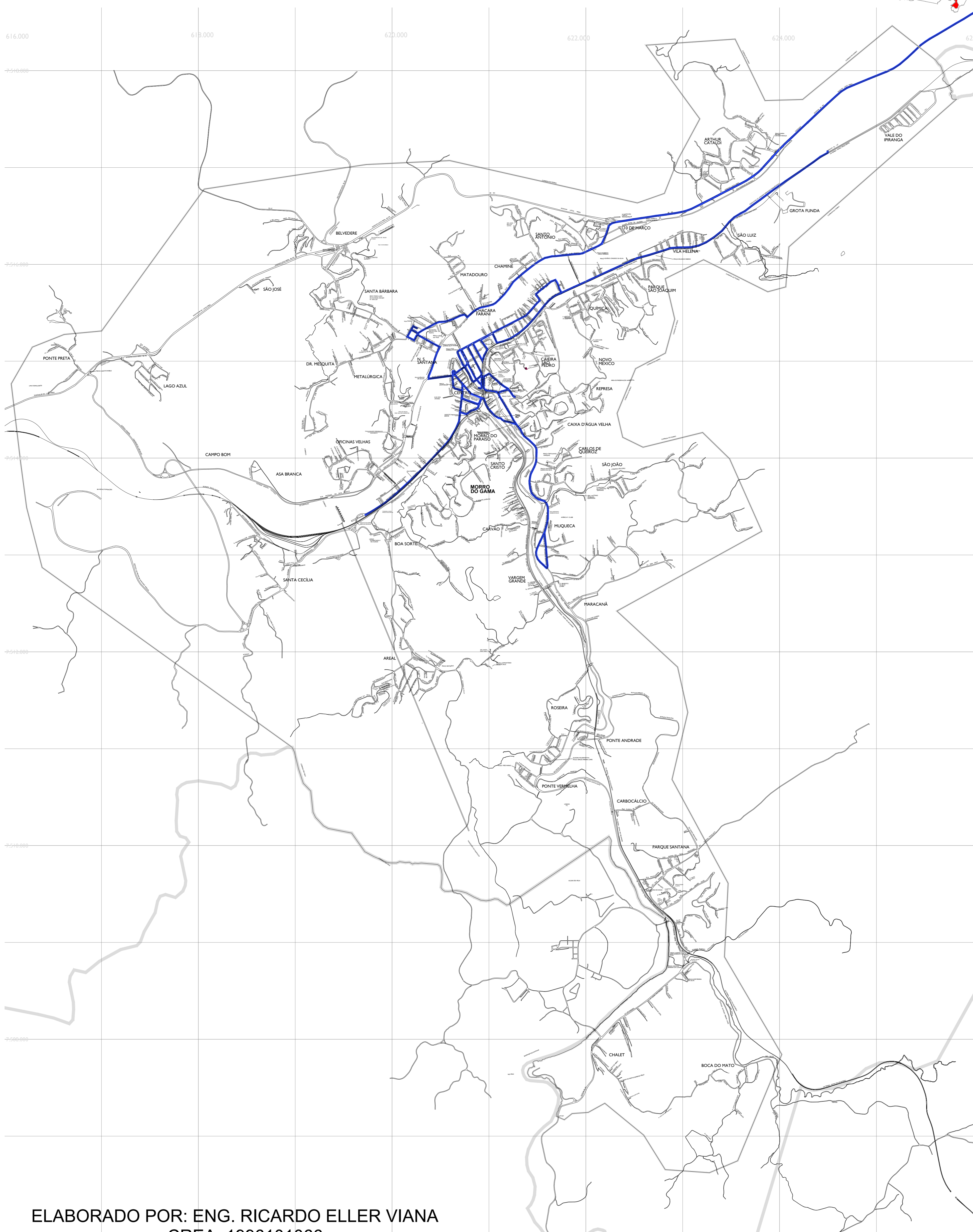
ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066

Rota: 14  
Tipo de Coleta: RSU  
Deslocamento Total de Rota (metros): 26416,5

SITUAÇÃO:



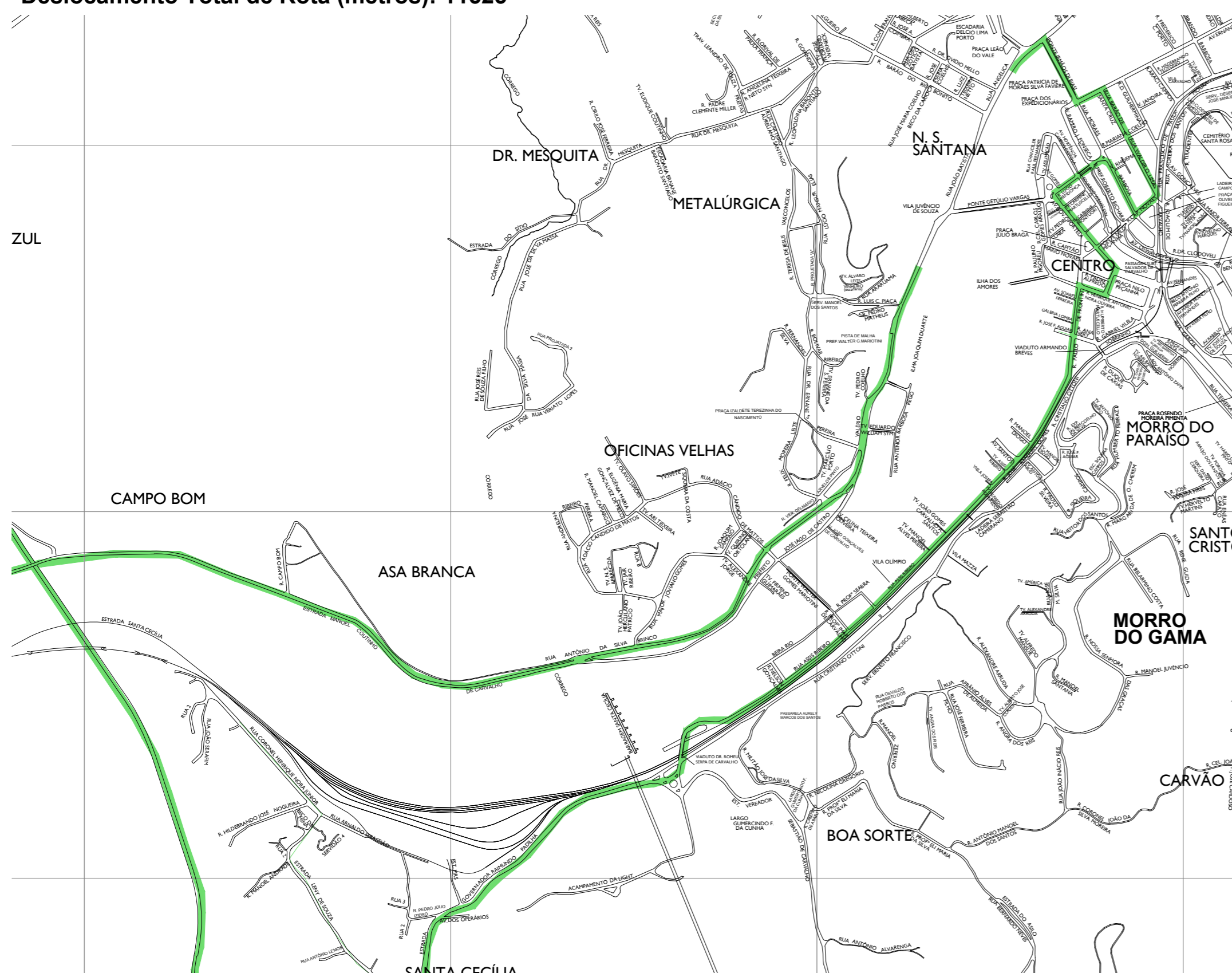
MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VÁLIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.



ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066

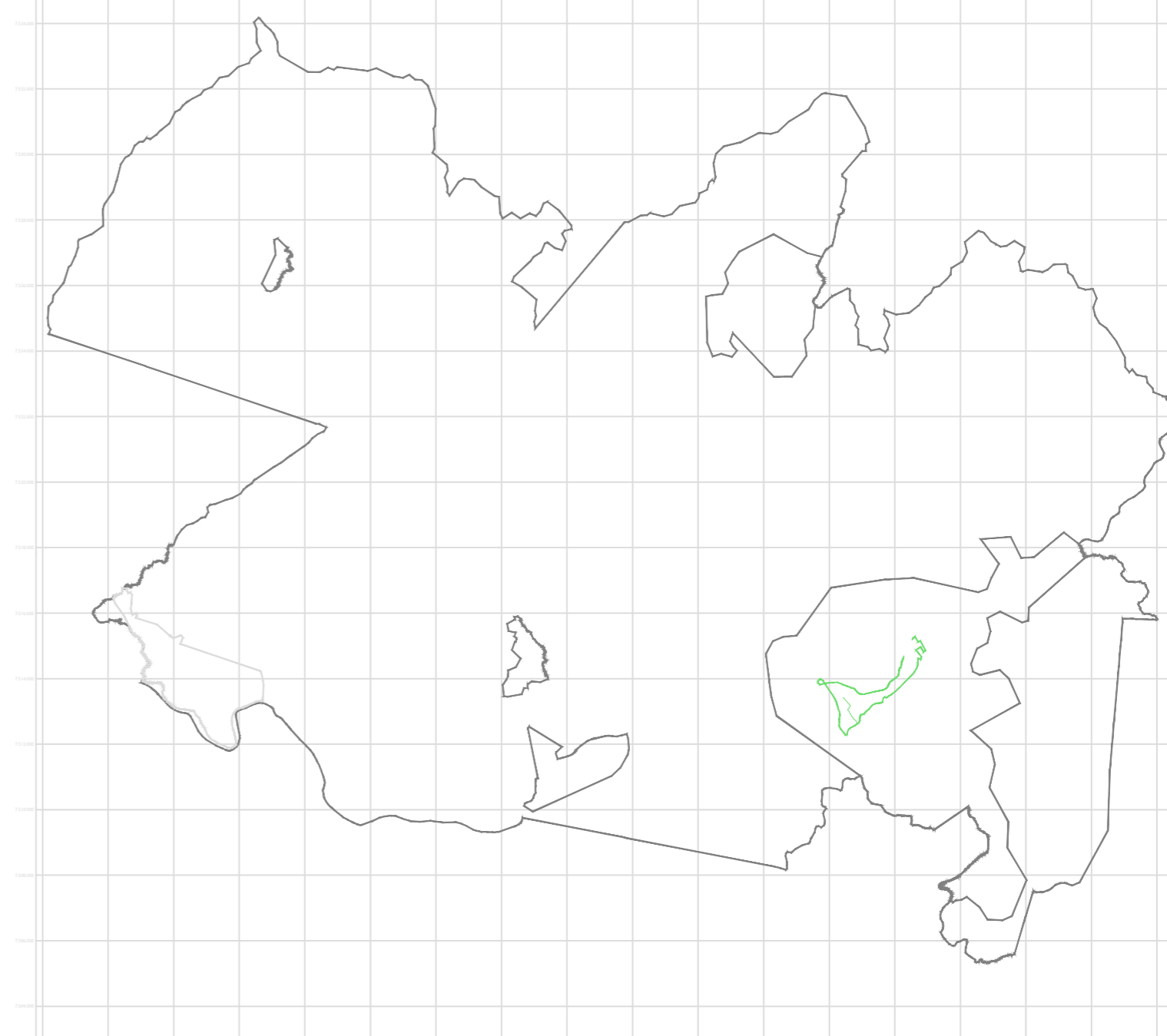
Rota: 15  
Tipo de Coleta: RSS  
Deslocamento Total de Rota (metros): 11525

MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VALIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.



INFRAESTRUTURA E SISTEMA VIÁRIO  
1º DISTRITO - BARRA DO PIRAI  
ESCALA 1:1000

ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066



INFRAESTRUTURA E SISTEMA VIÁRIO  
BARRA DO PIRAI  
ESCALA 1:1000



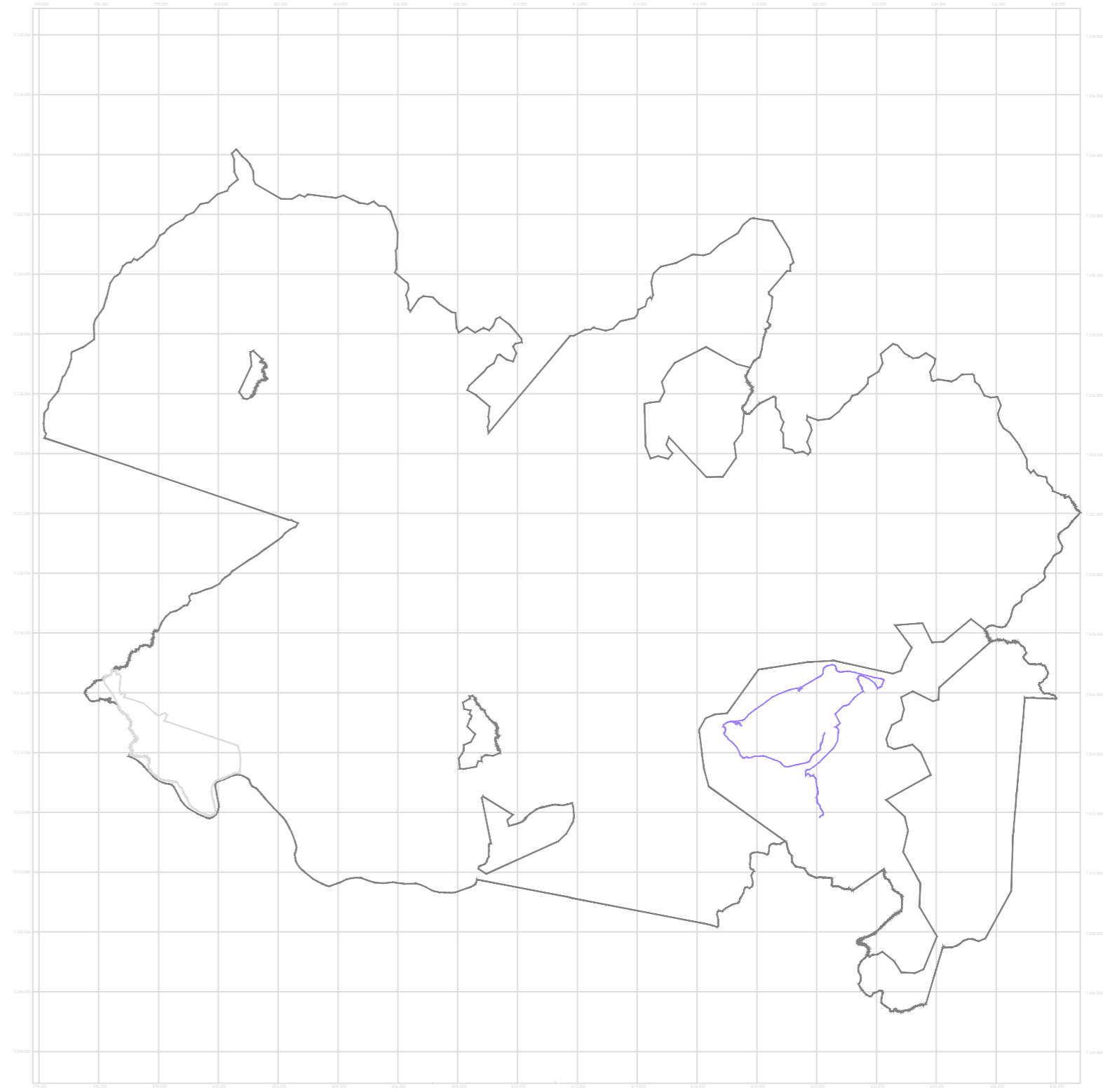
INFRAESTRUTURA E SISTEMA VIÁRIO  
1º DISTRITO - BARRA DO PIRAI  
ESCALA 1:1000

Rota: 16  
Tipo de Coleta: RSS  
Deslocamento Total de Rota (metros): 19250,5

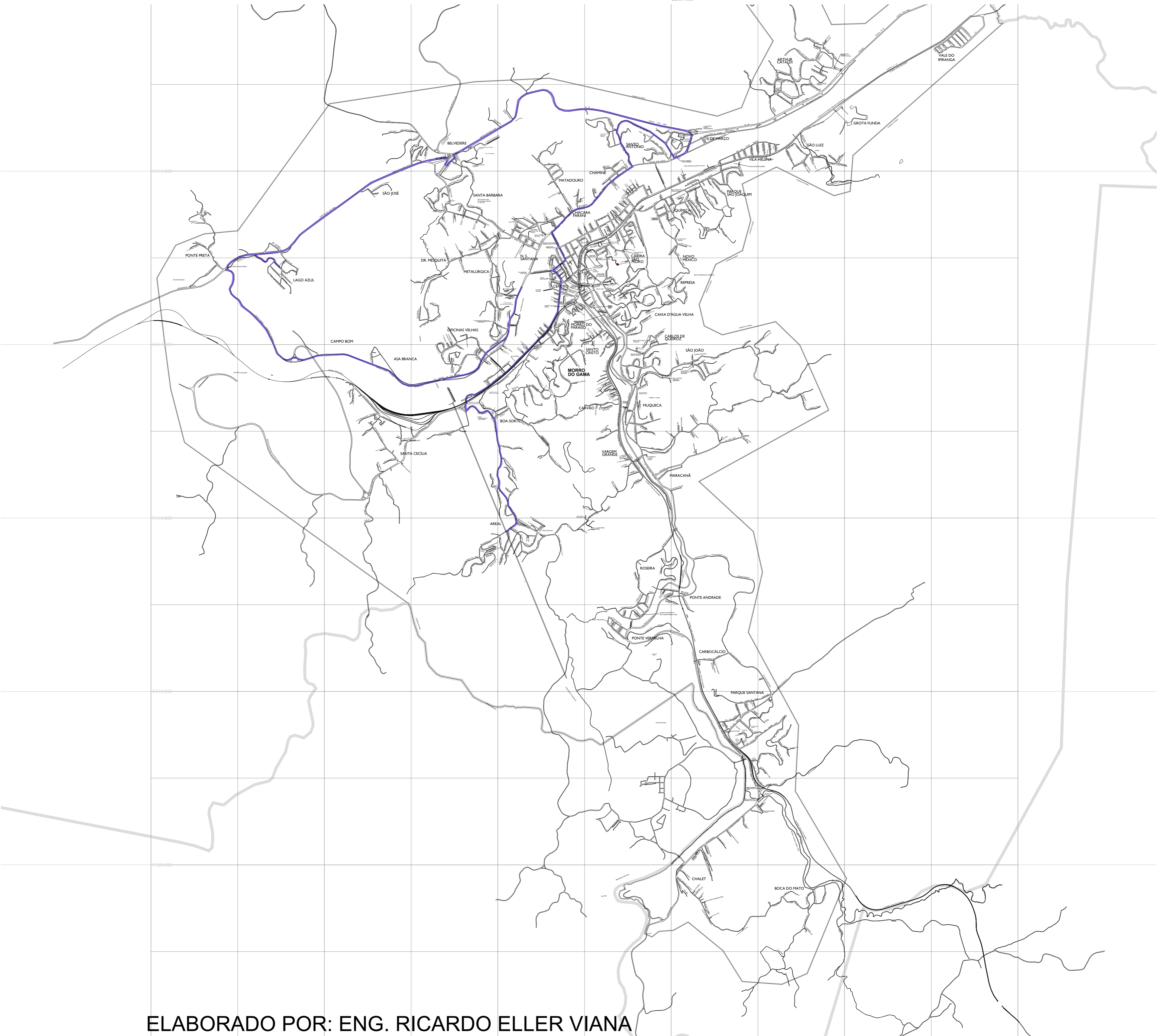
MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VALIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.



INFRAESTRUTURA E SISTEMA VIÁRIO  
1º DISTRITO - BARRA DO PIRAI  
SCALE 1:500



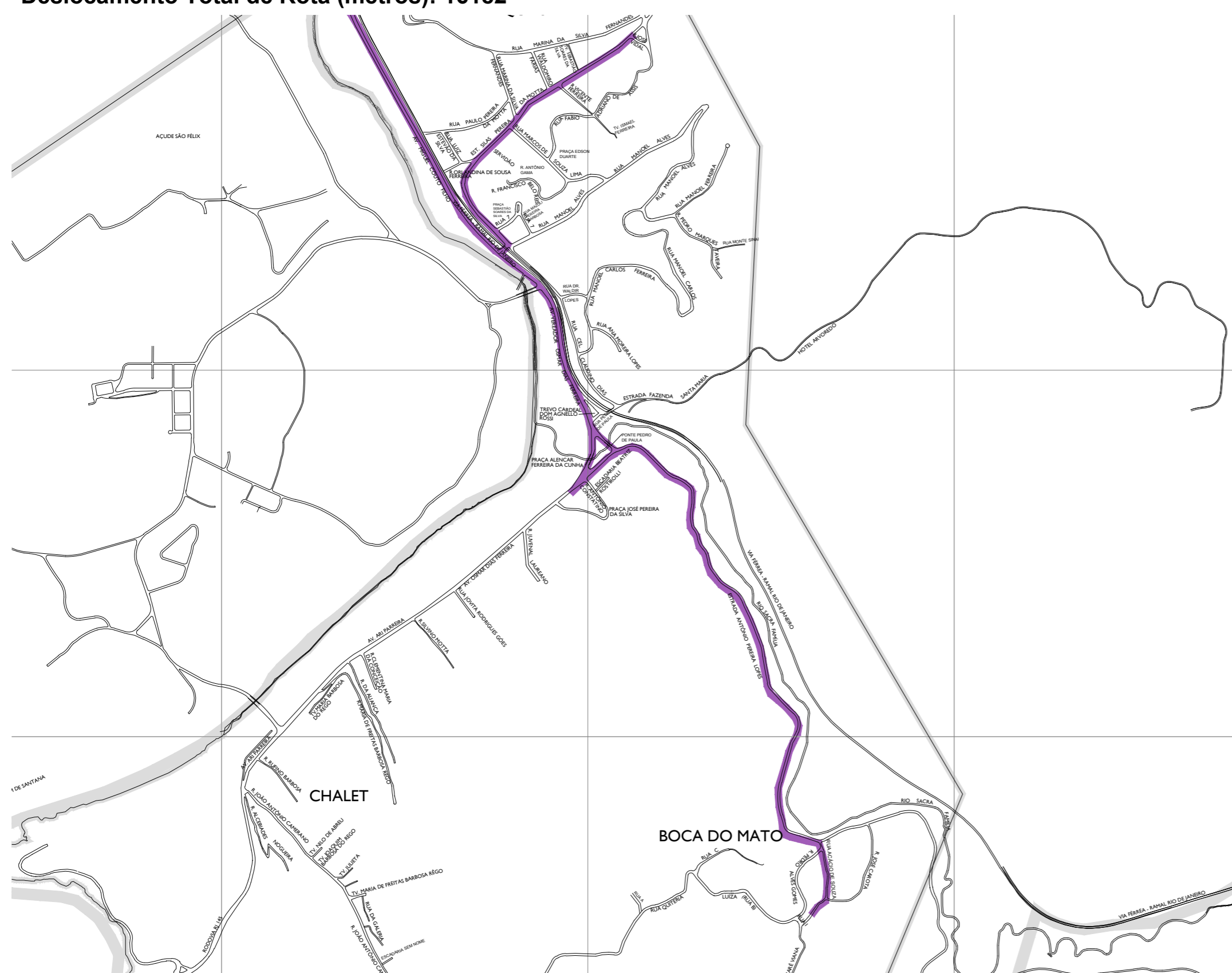
INFRAESTRUTURA E SISTEMA VIÁRIO  
BARRA DO PIRAI  
SCALE 1:500



ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066

**Rota: 17**  
**Tipo de Coleta: RSS**  
**Deslocamento Total de Rota (metros): 16182**

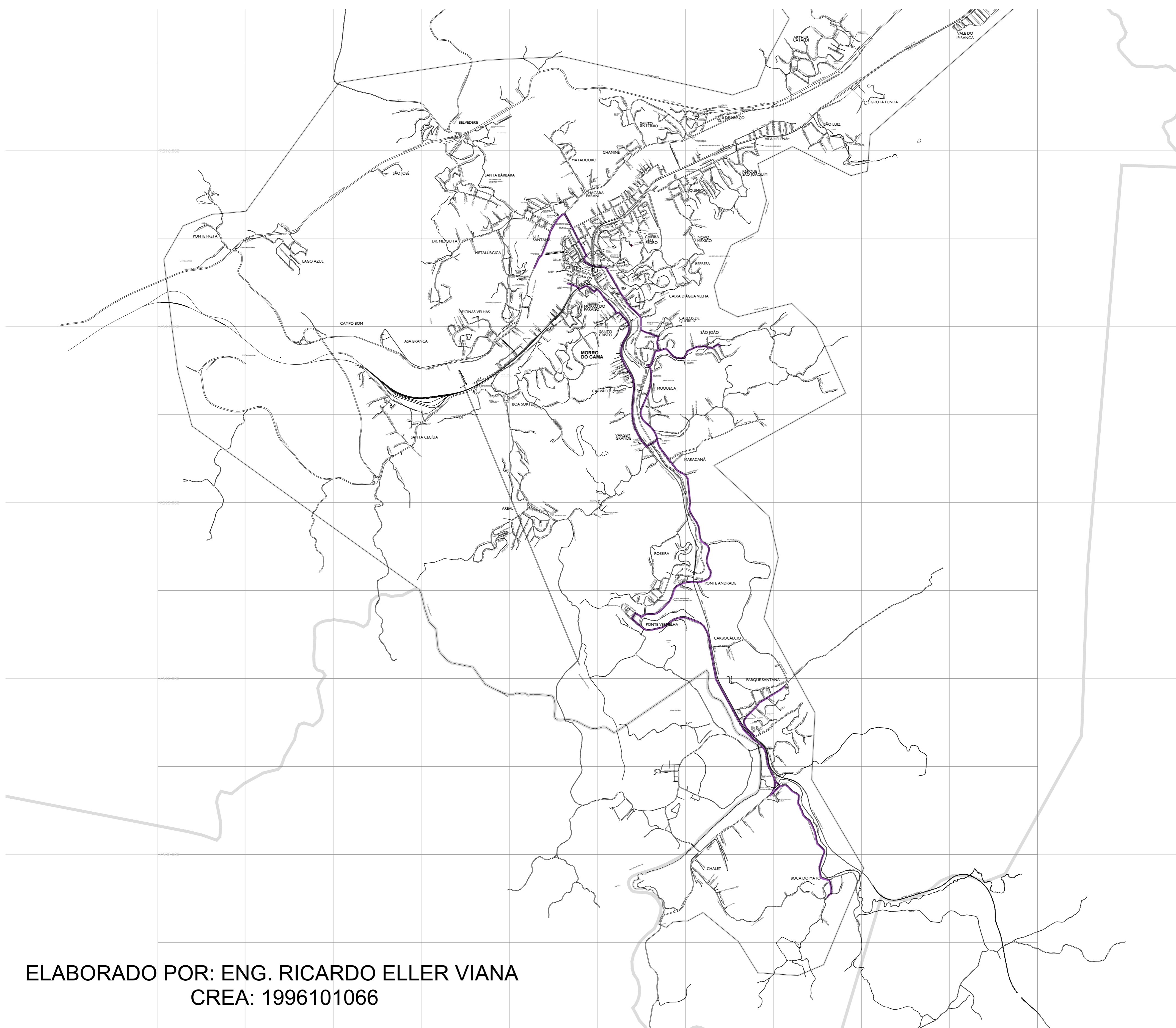
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ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VALIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.



INFRAESTRUTURA E SISTEMA VIÁRIO  
1º DISTRITO - BARRA DO PIRAI  
SCALE 1:1000



INFRAESTRUTURA E SISTEMA VIÁRIO  
BARRA DO PIRAI  
SCALE 1:1000



**ELABORADO POR: ENG. RICARDO ELLER VIANA**  
**CREA: 1996101066**

**Rota: 18**  
**Tipo de Coleta: RSS**  
**Deslocamento Total de Rota (metros): 25346**

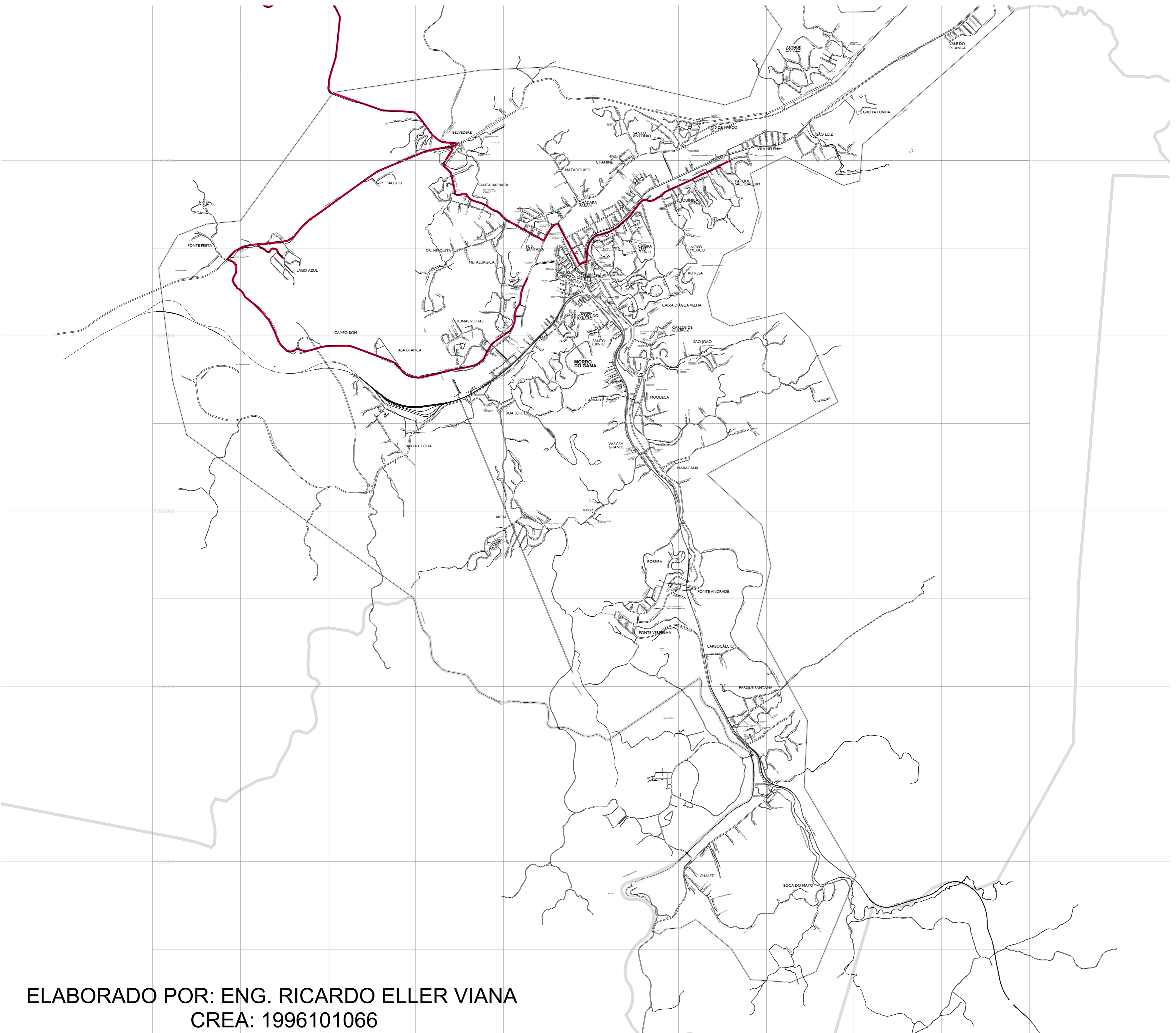
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ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VALIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.



INFRAESTRUTURA E SISTEMA VIÁRIO  
IPIABAS - BARRA DO PIRAI  
ESCALA 1:500



INFRAESTRUTURA E SISTEMA VIÁRIO  
BARRA DO PIRAI  
ESCALA 1:500



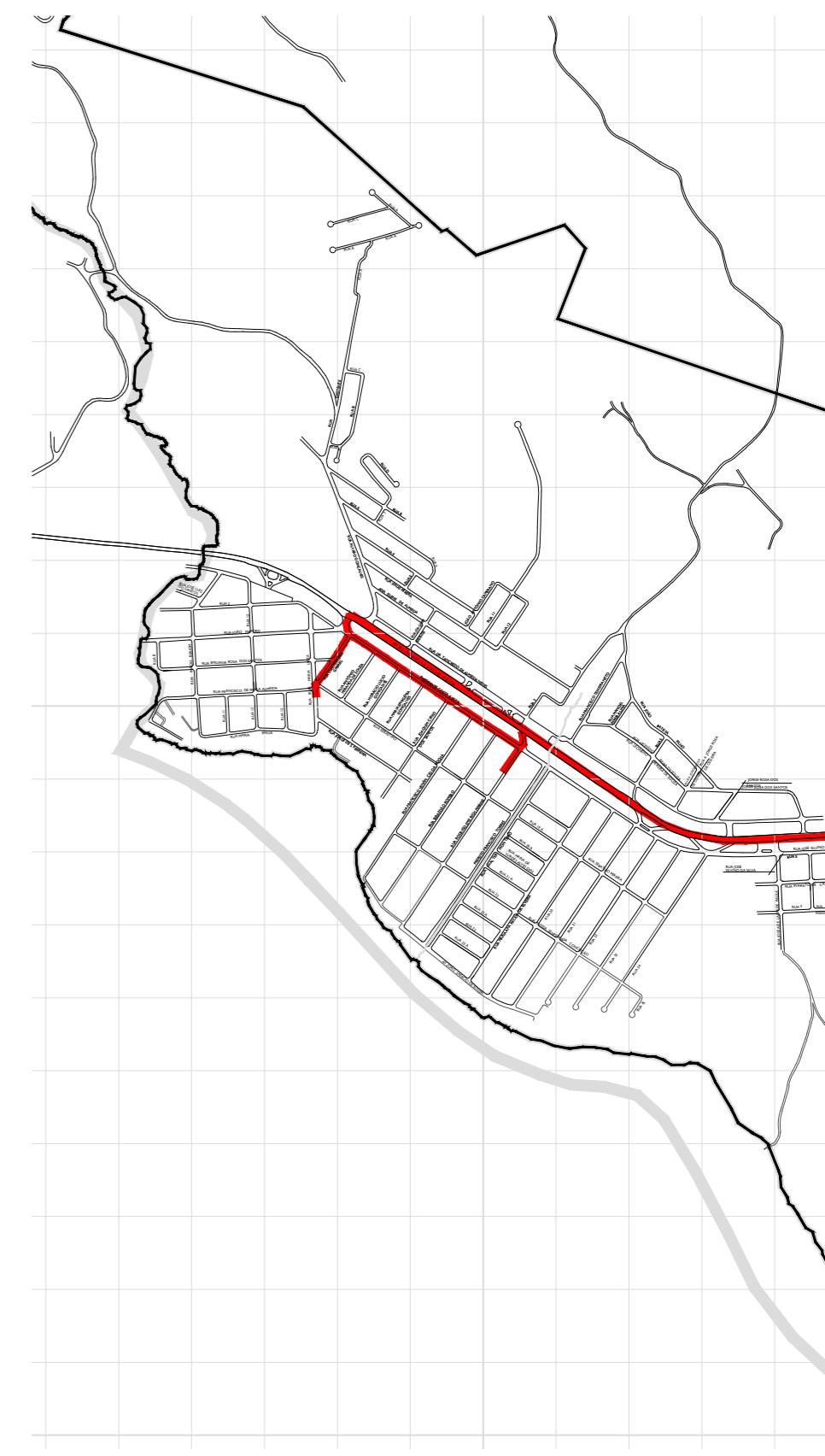
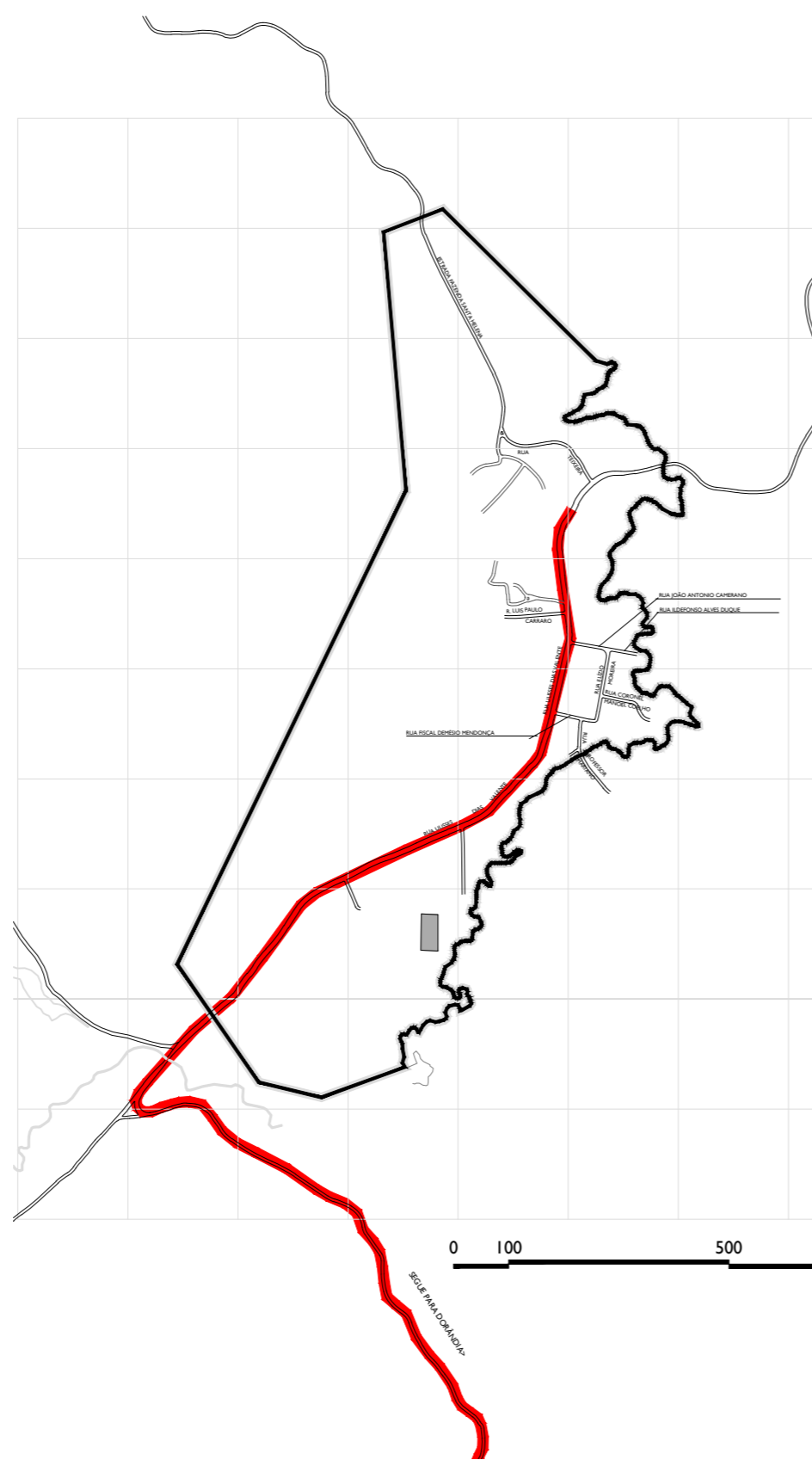
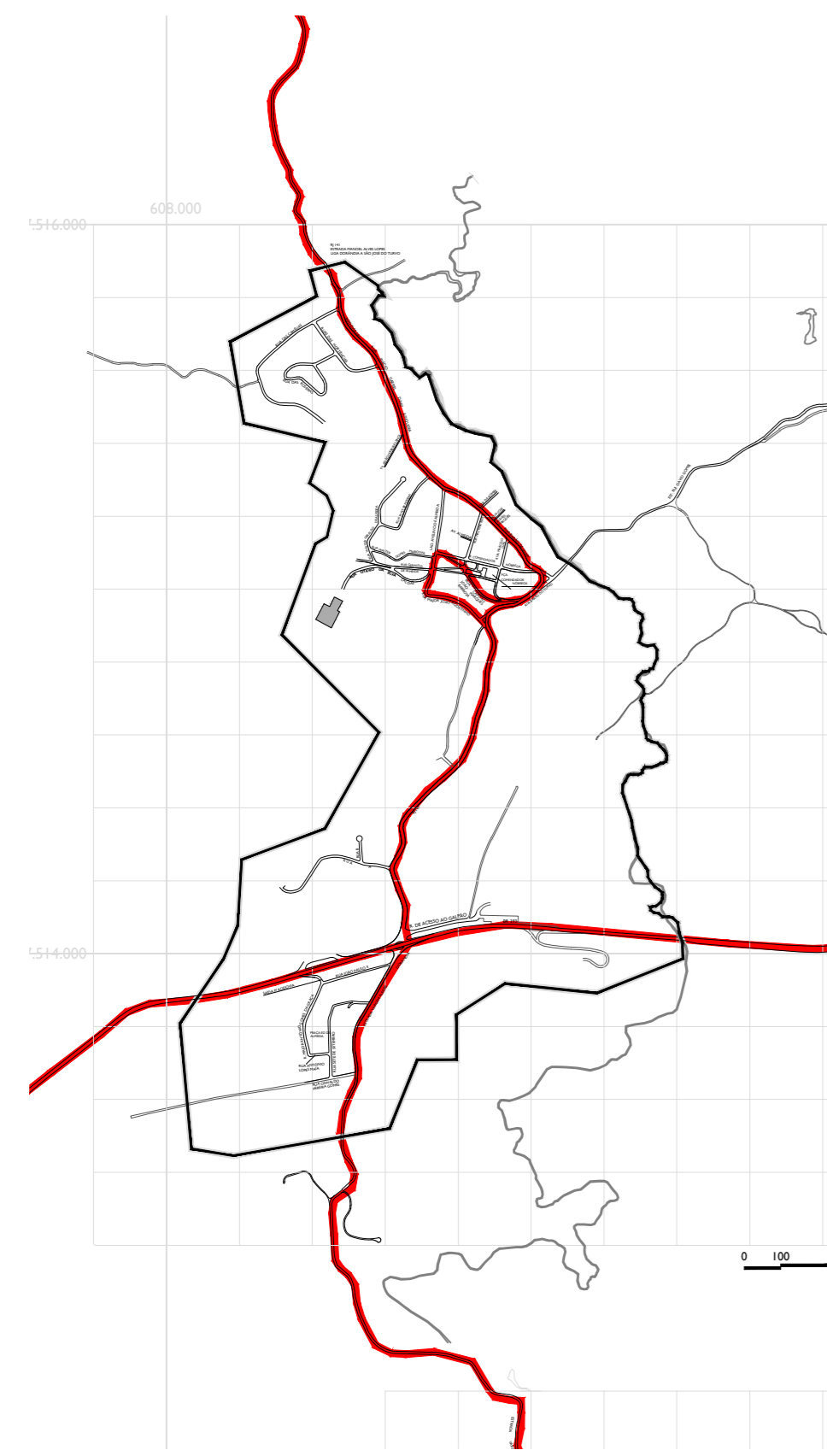
ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066

INFRAESTRUTURA E SISTEMA VIÁRIO  
1º DISTRITO - BARRA DO PIRAI  
ESCALA 1:500

0 500 1000

Rota: 19  
Tipo de Coleta: RSS  
Deslocamento Total de Rota (metros): 72393

MAPA DESENVOLVIDO A PARTIR DE IMAGEM DE SATÉLITE ADQUIRIDA DE ALTA RESOLUÇÃO  
ESTRUTURAÇÃO COM PONTOS DE CONTROLE POR GPS. DATUM HORIZONTAL SIRGAS 2000.  
DOCUMENTO PARA GESTÃO TERRITORIAL - NÃO VALIDO P/ DOCUMENTAÇÃO FUNDIÁRIA.

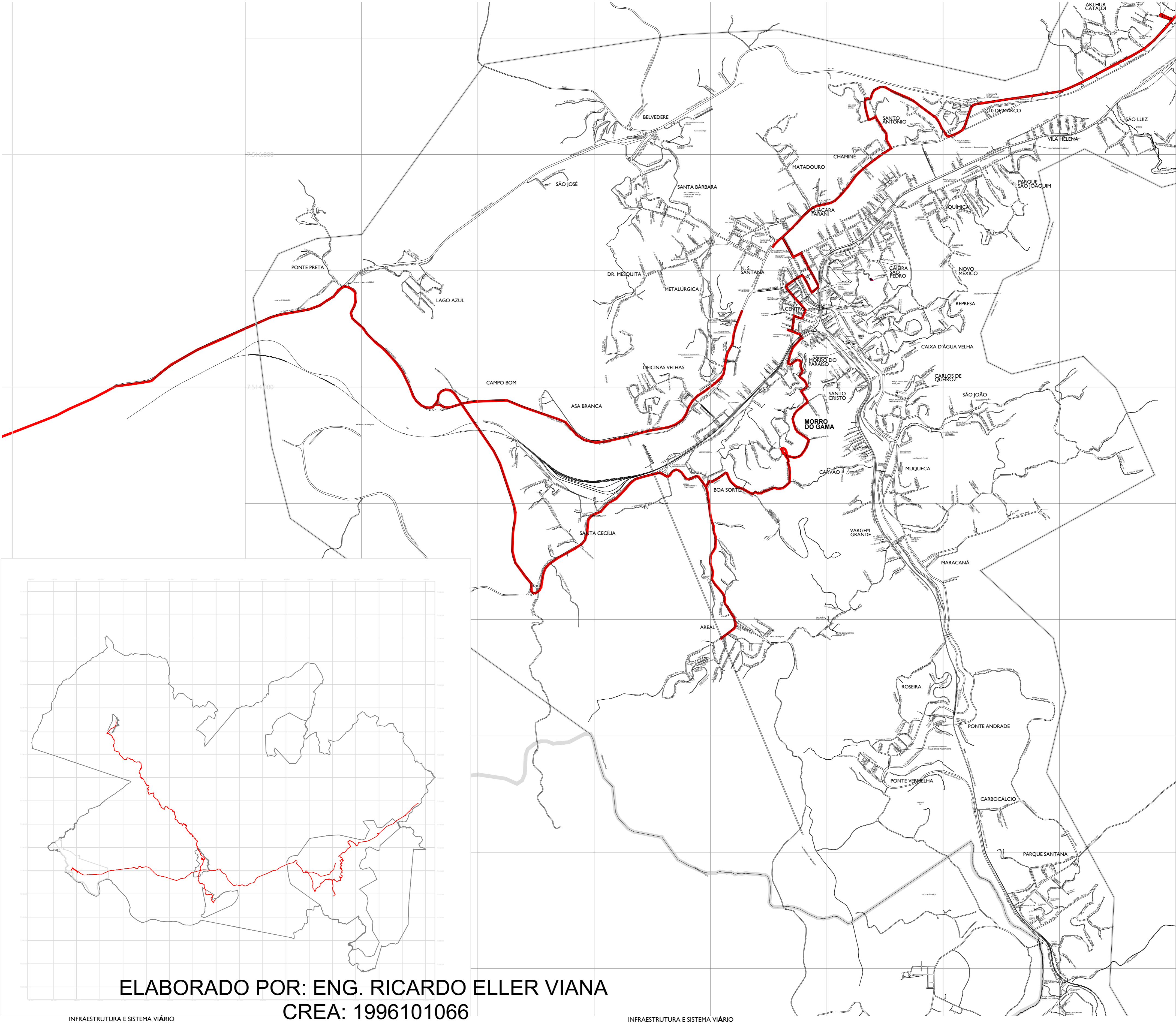


INFRAESTRUTURA E SISTEMA VIÁRIO  
DISTRITO DE DORÂNDIA - BARRA DO PIRAI  
ESCALA 1:2000

INFRAESTRUTURA E SISTEMA VIÁRIO  
DISTRITO DO TURVO - BARRA DO PIRAI  
ESCALA 1:2000

INFRAESTRUTURA E SISTEMA VIÁRIO  
DISTRITO DE VARGEM ALEGRE - BARRA DO PIRAI  
ESCALA 1:2000

INFRAESTRUTURA E SISTEMA VIÁRIO  
DISTRITO DA CALIFÓRNIA - BARRA DO PIRAI  
ESCALA 1:2000



ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066

INFRAESTRUTURA E SISTEMA VIÁRIO  
BARRA DO PIRAI  
ESCALA 1:2000

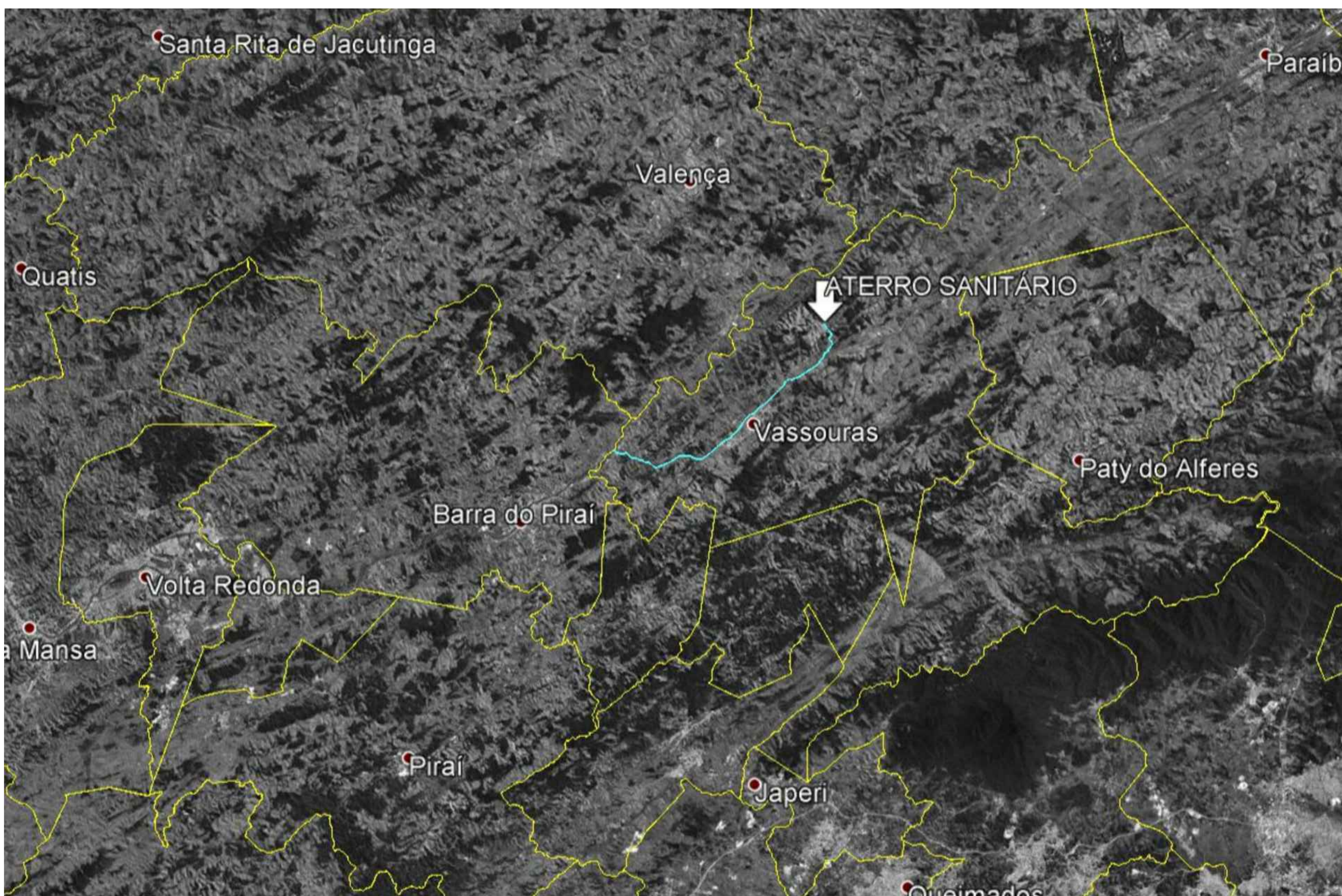
INFRAESTRUTURA E SISTEMA VIÁRIO  
DISTRITO DE BARRA DO PIRAI  
ESCALA 1:2000





Deslocamento Total de Rota (metros): 22564

INFRAESTRUTURA E SISTEMA VIÁRIO  
BARRA DO PIRAI X ATERRO SANITÁRIO  
ESCALA 1:2000



ELABORADO POR: ENG. RICARDO ELLER VIANA  
CREA: 1996101066

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU


MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA


CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Início Rota 1	7524431,978	598665,892	-22,38329875	-44,04156313
ROTA 1 - Turvo (0) 2,489m	7524433,37	598664,741	-22,38328625	-44,04157439
ROTA 1 - Turvo (0) 2,489m	7524505,573	598708,654	-22,38263152	-44,04115233
ROTA 1 - Turvo (0) 2,489m	7524539,763	598761,776	-22,38231963	-44,04063848
ROTA 1 - Turvo (0) 2,489m	7524627,691	598854,184	-22,38152006	-44,03974639
ROTA 1 - Turvo (0) 2,489m	7524663,226	598901,922	-22,38119632	-44,03928493
ROTA 1 - Turvo (0) 2,489m	7524693,866	598962	-22,38091609	-44,0387033
ROTA 1 - Turvo (0) 2,489m	7524711,357	598991,998	-22,38075636	-44,03841303
ROTA 1 - Turvo (0) 2,489m	7524784,388	599035,592	-22,38009416	-44,03799414
ROTA 1 - Turvo (0) 2,489m	7524812,531	599065,8	-22,37983821	-44,0377025
ROTA 1 - Turvo (0) 2,489m	7524848,094	599126,636	-22,37951346	-44,03711383
ROTA 1 - Turvo (0) 2,489m	7524860,69	599153,961	-22,37939811	-44,03684921
ROTA 1 - Turvo (0) 2,489m	7524871,991	599191,647	-22,37929384	-44,03648388
ROTA 1 - Turvo (0) 2,489m	7524890,934	599230,67	-22,37912048	-44,03610604
ROTA 1 - Turvo (0) 2,489m	7524967,113	599321,844	-22,37842708	-44,03522525
ROTA 1 - Turvo (0) 2,489m	7525047,731	599421,678	-22,37769309	-44,03426063
ROTA 1 - Turvo (0) 2,489m	7525085,803	599457,122	-22,37734713	-44,03391875
ROTA 1 - Turvo (0) 2,489m	7525116,619	599472,544	-22,37706789	-44,0337709
ROTA 1 - Turvo (0) 2,489m	7525140,416	599499,876	-22,37685134	-44,03350691
ROTA 1 - Turvo (0) 2,489m	7525161,146	599528,762	-22,37666241	-44,03322766
ROTA 1 - Turvo (0) 2,489m	7525166,383	599580,856	-22,37661209	-44,03272202
ROTA 1 - Turvo (0) 2,489m	7525182,758	599629,185	-22,37646137	-44,03225365
ROTA 1 - Turvo (0) 2,489m	7525196,382	599665,195	-22,37633621	-44,03190475
ROTA 1 - Turvo (0) 2,489m	7525199,445	599686,419	-22,37630731	-44,03169881
ROTA 1 - Turvo (0) 2,489m	7525193,244	599721,356	-22,37636129	-44,03135911
ROTA 1 - Turvo (0) 2,489m	7525200,985	599789,408	-22,37628741	-44,03069864
ROTA 1 - Turvo (0) 2,489m	7525220,847	599843,445	-22,37610485	-44,03017505
ROTA 1 - Turvo (0) 2,489m	7525270,924	599914,884	-22,37564836	-44,02948435
ROTA 1 - Turvo (0) 2,489m	7525301,433	599973,372	-22,37536937	-44,02891821
ROTA 1 - Turvo (0) 2,489m	7525329,684	600017,84	-22,37511159	-44,02848809
ROTA 1 - Turvo (0) 2,489m	7525358,062	600060,318	-22,37485278	-44,02807731
ROTA 1 - Turvo (0) 2,489m	7525394,926	600090,698	-22,37451802	-44,02778456
ROTA 1 - Turvo (0) 2,489m	7525419,512	600116,576	-22,37429442	-44,02753477
ROTA 1 - Turvo (0) 2,489m	7525444,025	600137,302	-22,37407179	-44,02733501
ROTA 1 - Turvo (0) 2,489m	7525475,833	600152,755	-22,37378358	-44,02718692
ROTA 1 - Turvo (0) 2,489m	7525501,484	600167,717	-22,373551	-44,02704322
ROTA 1 - Turvo (0) 2,489m	7525511,822	600188,877	-22,37345638	-44,02683835
ROTA 1 - Turvo (0) 2,489m	7525519,281	600217,597	-22,37338733	-44,02655989
ROTA 1 - Turvo (0) 2,489m	7525529,061	600262,092	-22,37329639	-44,02612837
ROTA 1 - Turvo (0) 2,489m	7525548,243	600303,716	-22,37312068	-44,02572531
ROTA 1 - Turvo (0) 2,489m	7525569,984	600344,79	-22,3729219	-44,02532776
ROTA 1 - Turvo (0) 2,489m	7525629,296	600420,331	-22,37238172	-44,02459783
ROTA 1 - Turvo (0) 2,489m	7525677,656	600474,726	-22,37194171	-44,02407258
ROTA 1 - Turvo (0) 2,489m	7525695,388	600498,021	-22,37178017	-44,02384746
ROTA 1 - Turvo (0) 2,489m	7525796,364	600583,149	-22,37086308	-44,02302705


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (0) 2,489m	7525835,223	600618,346	-22,37051002	-44,02268767
ROTA 1 - Turvo (0) 2,434m	7525835,031	600618,318	-22,37051175	-44,02268793
ROTA 1 - Turvo (0) 2,434m	7525913,096	600681,786	-22,36980288	-44,02207646
ROTA 1 - Turvo (0) 2,434m	7525997,272	600772,396	-22,36903721	-44,02120177
ROTA 1 - Turvo (0) 2,434m	7526012,828	600790,455	-22,36889564	-44,02102736
ROTA 1 - Turvo (0) 2,434m	7526114,532	600871,359	-22,36797221	-44,02024807
ROTA 1 - Turvo (0) 2,434m	7526151,055	600896,698	-22,36764081	-44,02000429
ROTA 1 - Turvo (0) 2,434m	7526184,876	600919,502	-22,36733397	-44,01978496
ROTA 1 - Turvo (0) 2,434m	7526205,889	600955,329	-22,36714205	-44,01943834
ROTA 1 - Turvo (0) 2,434m	7526296,935	601152,975	-22,36630801	-44,01752463
ROTA 1 - Turvo (0) 2,434m	7526333,382	601233,951	-22,36597402	-44,01674053
ROTA 1 - Turvo (0) 2,434m	7526431,171	601334,548	-22,36508478	-44,01576977
ROTA 1 - Turvo (0) 2,434m	7526456,133	601350,855	-22,36485833	-44,01561299
ROTA 1 - Turvo (0) 2,434m	7526582,83	601380,859	-22,36371212	-44,01532966
ROTA 1 - Turvo (0) 2,434m	7526670,577	601400,17	-22,36291838	-44,01514769
ROTA 1 - Turvo (0) 2,434m	7526794,377	601384,479	-22,36180104	-44,01530793
ROTA 1 - Turvo (0) 2,434m	7526836,873	601380,304	-22,36141743	-44,01535118
ROTA 1 - Turvo (0) 2,434m	7526868,108	601389,809	-22,36113473	-44,01526086
ROTA 1 - Turvo (0) 2,434m	7526916,511	601418,587	-22,36069582	-44,01498446
ROTA 1 - Turvo (0) 2,434m	7526945,486	601449,125	-22,36043229	-44,01468973
ROTA 1 - Turvo (0) 2,434m	7526957,699	601474,177	-22,36032049	-44,01444722
ROTA 1 - Turvo (0) 2,434m	7526959,98	601507,837	-22,36029789	-44,01412049
ROTA 1 - Turvo (0) 2,434m	7526963,012	601538,849	-22,36026867	-44,01381952
ROTA 1 - Turvo (0) 2,434m	7526972,224	601569,159	-22,36018367	-44,01352575
ROTA 1 - Turvo (0) 2,434m	7526976,77	601589,234	-22,36014142	-44,01333109
ROTA 1 - Turvo (0) 2,434m	7526964,599	601605,937	-22,36025037	-44,01316811
ROTA 1 - Turvo (0) 2,434m	7526937,408	601639,211	-22,36049401	-44,01284325
ROTA 1 - Turvo (0) 2,434m	7526930,313	601648,821	-22,36055753	-44,01274947
ROTA 1 - Turvo (0) 2,434m	7526926,615	601661,568	-22,36059018	-44,01262544
ROTA 1 - Turvo (0) 2,434m	7526925,224	601700,791	-22,36060042	-44,01224445
ROTA 1 - Turvo (0) 2,434m	7526923,997	601732,454	-22,36060962	-44,01193689
ROTA 1 - Turvo (0) 2,434m	7526928,829	601764,816	-22,36056406	-44,01162292
ROTA 1 - Turvo (0) 2,434m	7526939,305	601786,688	-22,36046813	-44,01141118
ROTA 1 - Turvo (0) 2,434m	7526953,826	601798,993	-22,36033624	-44,01129261
ROTA 1 - Turvo (0) 2,434m	7526970,266	601805,942	-22,36018733	-44,01122617
ROTA 1 - Turvo (0) 2,434m	7526989,496	601810,499	-22,36001336	-44,01118314
ROTA 1 - Turvo (0) 2,434m	7527006,223	601817,058	-22,35986188	-44,01112052
ROTA 1 - Turvo (0) 2,434m	7527025,581	601828,218	-22,359868636	-44,01101337
ROTA 1 - Turvo (0) 2,434m	7527044,661	601842,627	-22,35951315	-44,01087466
ROTA 1 - Turvo (0) 2,434m	7527074,446	601857,283	-22,35924325	-44,01073424
ROTA 1 - Turvo (0) 2,434m	7527129,551	601856,008	-22,35874557	-44,01075013
ROTA 1 - Turvo (0) 2,434m	7527178,376	601845,068	-22,35830519	-44,01085949
ROTA 1 - Turvo (0) 2,434m	7527269,749	601828,117	-22,35748084	-44,01102992
ROTA 1 - Turvo (0) 2,434m	7527293,302	601831,028	-22,35726791	-44,01100316
ROTA 1 - Turvo (0) 2,434m	7527310,151	601843,572	-22,35711498	-44,01088242


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (0) 2,434m	7527322,912	601858,671	-22,35699881	-44,0107366
ROTA 1 - Turvo (0) 2,434m	7527330,9	601880,76	-22,35692535	-44,01052261
ROTA 1 - Turvo (0) 2,434m	7527332,737	601905,885	-22,35690726	-44,01027874
ROTA 1 - Turvo (0) 2,434m	7527328,742	601932,087	-22,3569418	-44,01002404
ROTA 1 - Turvo (0) 2,434m	7527321,094	601979,869	-22,35700804	-44,00955954
ROTA 1 - Turvo (0) 2,434m	7527303,338	602005,854	-22,35716688	-44,00930607
ROTA 1 - Turvo (1) 217m	7527036,327	601274,482	-22,35962204	-44,0163915
ROTA 1 - Turvo (1) 217m	7527025,745	601280,284	-22,35971729	-44,01633449
ROTA 1 - Turvo (1) 217m	7527016,504	601291,719	-22,35980009	-44,01622285
ROTA 1 - Turvo (1) 217m	7527010,241	601303,352	-22,35985598	-44,01610949
ROTA 1 - Turvo (1) 217m	7527006,999	601318,811	-22,35988435	-44,01595915
ROTA 1 - Turvo (1) 217m	7527009,87	601331,633	-22,35985766	-44,01583482
ROTA 1 - Turvo (1) 217m	7527011,509	601347,013	-22,35984194	-44,01568556
ROTA 1 - Turvo (1) 217m	7527014,13	601366,731	-22,35981711	-44,01549424
ROTA 1 - Turvo (1) 217m	7527013,446	601378,787	-22,35982257	-44,01537712
ROTA 1 - Turvo (1) 217m	7527009,391	601390,794	-22,35985849	-44,01526026
ROTA 1 - Turvo (1) 217m	7526999,485	601403,745	-22,3599472	-44,01513386
ROTA 1 - Turvo (1) 217m	7526980,794	601414,848	-22,36011538	-44,01502485
ROTA 1 - Turvo (1) 217m	7526966,776	601424,637	-22,36024143	-44,0149289
ROTA 1 - Turvo (1) 217m	7526952,919	601433,078	-22,3603661	-44,01484604
ROTA 1 - Turvo (1) 217m	7526938,716	601441,767	-22,36049388	-44,01476077
ROTA 1 - Turvo (2) 115m	7526707,236	601395,538	-22,36258753	-44,015195
ROTA 1 - Turvo (2) 115m	7526704,184	601363,603	-22,36261698	-44,01550494
ROTA 1 - Turvo (2) 115m	7526700,291	601323,572	-22,36265451	-44,01589346
ROTA 1 - Turvo (2) 115m	7526696,366	601281,501	-22,36269244	-44,01630178
ROTA 1 - Turvo (3) 16,499m	7525835,41	600618,383	-22,37050832	-44,02268732
ROTA 1 - Turvo (3) 16,499m	7525815,102	600613,901	-22,37069203	-44,02272957
ROTA 1 - Turvo (3) 16,499m	7525803,383	600617,858	-22,37079765	-44,0226904
ROTA 1 - Turvo (3) 16,499m	7525795,032	600626,863	-22,37087256	-44,02260242
ROTA 1 - Turvo (3) 16,499m	7525795,371	600643,1	-22,37086854	-44,02244475
ROTA 1 - Turvo (3) 16,499m	7525803,31	600661,211	-22,37079577	-44,02226935
ROTA 1 - Turvo (3) 16,499m	7525809,189	600680,778	-22,37074151	-44,02207968
ROTA 1 - Turvo (3) 16,499m	7525812,322	600693,41	-22,37071247	-44,0219572
ROTA 1 - Turvo (3) 16,499m	7525813,378	600712,027	-22,37070184	-44,02177646
ROTA 1 - Turvo (3) 16,499m	7525808,003	600735,536	-22,37074902	-44,0215478
ROTA 1 - Turvo (3) 16,499m	7525784,369	600754,119	-22,3709614	-44,02136583
ROTA 1 - Turvo (3) 16,499m	7525760,591	600770,964	-22,3711752	-44,02120074
ROTA 1 - Turvo (3) 16,499m	7525738,391	600798,213	-22,37137413	-44,02093468
ROTA 1 - Turvo (3) 16,499m	7525721,002	600833,153	-22,37152914	-44,02059425
ROTA 1 - Turvo (3) 16,499m	7525692,061	600888,659	-22,3717873	-44,02005334
ROTA 1 - Turvo (3) 16,499m	7525653,852	600942,807	-22,37212925	-44,01952504
ROTA 1 - Turvo (3) 16,499m	7525640,946	600965,374	-22,3722445	-44,01930505
ROTA 1 - Turvo (3) 16,499m	7525628,886	600995,075	-22,37235169	-44,01901582
ROTA 1 - Turvo (3) 16,499m	7525611,806	601016,255	-22,37250472	-44,01880904
ROTA 1 - Turvo (3) 16,499m	7525580,688	601027,191	-22,37278516	-44,01870086

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (3) 16,499m	7525559,554	601045,934	-22,37297495	-44,01851748
ROTA 1 - Turvo (3) 16,499m	7525541,462	601057,482	-22,3731377	-44,01840418
ROTA 1 - Turvo (3) 16,499m	7525513,9	601062,574	-22,37338636	-44,01835299
ROTA 1 - Turvo (3) 16,499m	7525484,718	601065,744	-22,37364977	-44,01832034
ROTA 1 - Turvo (3) 16,499m	7525458,794	601070,573	-22,37388365	-44,0182718
ROTA 1 - Turvo (3) 16,499m	7525444,819	601086,69	-22,37400894	-44,01811439
ROTA 1 - Turvo (3) 16,499m	7525428,702	601105,98	-22,37415338	-44,01792602
ROTA 1 - Turvo (3) 16,499m	7525385,371	601124,03	-22,37454372	-44,01774797
ROTA 1 - Turvo (3) 16,499m	7525353,578	601147,383	-22,37482952	-44,01751914
ROTA 1 - Turvo (3) 16,499m	7525332,194	601166,817	-22,37502153	-44,01732903
ROTA 1 - Turvo (3) 16,499m	7525297,721	601189,992	-22,37533156	-44,01710177
ROTA 1 - Turvo (3) 16,499m	7525274,805	601197,924	-22,37553808	-44,01702328
ROTA 1 - Turvo (3) 16,499m	7525260,702	601206,633	-22,37566496	-44,0169378
ROTA 1 - Turvo (3) 16,499m	7525249,95	601220,914	-22,37576123	-44,01679841
ROTA 1 - Turvo (3) 16,499m	7525239,218	601235,66	-22,3758573	-44,01665452
ROTA 1 - Turvo (3) 16,499m	7525226,555	601241,03	-22,37597137	-44,01660156
ROTA 1 - Turvo (3) 16,499m	7525204,648	601245,449	-22,37616899	-44,01655725
ROTA 1 - Turvo (3) 16,499m	7525184,01	601244,833	-22,37635545	-44,01656192
ROTA 1 - Turvo (3) 16,499m	7525169,736	601237,873	-22,37648479	-44,01662861
ROTA 1 - Turvo (3) 16,499m	7525145,516	601227,317	-22,37670419	-44,0167296
ROTA 1 - Turvo (3) 16,499m	7525130,007	601222,441	-22,37684457	-44,01677597
ROTA 1 - Turvo (3) 16,499m	7525117,247	601220,553	-22,37695994	-44,0167935
ROTA 1 - Turvo (3) 16,499m	7525090,896	601224,167	-22,37719775	-44,01675672
ROTA 1 - Turvo (3) 16,499m	7525055,623	601227,109	-22,37751619	-44,01672592
ROTA 1 - Turvo (3) 16,499m	7525024,083	601220,428	-22,37780148	-44,0167888
ROTA 1 - Turvo (3) 16,499m	7524994,731	601225,496	-22,37806631	-44,01673772
ROTA 1 - Turvo (3) 16,499m	7524969,073	601230,427	-22,37829778	-44,0166882
ROTA 1 - Turvo (3) 16,499m	7524942,268	601228,586	-22,37854002	-44,01670437
ROTA 1 - Turvo (3) 16,499m	7524919,917	601225,076	-22,37874212	-44,01673705
ROTA 1 - Turvo (3) 16,499m	7524885,154	601206,578	-22,37905722	-44,01691451
ROTA 1 - Turvo (3) 16,499m	7524856,99	601191,63	-22,3793125	-44,0170579
ROTA 1 - Turvo (3) 16,499m	7524833,324	601182,452	-22,37952681	-44,01714554
ROTA 1 - Turvo (3) 16,499m	7524806,978	601178,306	-22,37976503	-44,01718414
ROTA 1 - Turvo (3) 16,499m	7524753,709	601167,972	-22,38024681	-44,01728113
ROTA 1 - Turvo (3) 16,499m	7524722,133	601170,037	-22,38053191	-44,01725907
ROTA 1 - Turvo (3) 16,499m	7524678,25	601176,22	-22,38092793	-44,01719623
ROTA 1 - Turvo (3) 16,499m	7524649,106	601192,332	-22,38119024	-44,01703789
ROTA 1 - Turvo (3) 16,499m	7524620,672	601208,723	-22,3814461	-44,01687689
ROTA 1 - Turvo (3) 16,499m	7524593,69	601216,734	-22,38168936	-44,01679737
ROTA 1 - Turvo (3) 16,499m	7524532,676	601225,345	-22,38223998	-44,01670986
ROTA 1 - Turvo (3) 16,499m	7524486,941	601234,464	-22,38265255	-44,01661838
ROTA 1 - Turvo (3) 16,499m	7524443,095	601239,374	-22,38304832	-44,01656791
ROTA 1 - Turvo (3) 16,499m	7524413,382	601243,186	-22,38331648	-44,01652899
ROTA 1 - Turvo (3) 16,499m	7524385,675	601247,101	-22,38356652	-44,01648921
ROTA 1 - Turvo (3) 16,499m	7524356,823	601260,385	-22,38382635	-44,01635835

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (3) 16,499m	7524336,5	601282,106	-22,38400864	-44,01614609
ROTA 1 - Turvo (3) 16,499m	7524308,778	601316,09	-22,38425704	-44,01581425
ROTA 1 - Turvo (3) 16,499m	7524294,417	601342,048	-22,38438523	-44,01556121
ROTA 1 - Turvo (3) 16,499m	7524265,853	601404,791	-22,38463953	-44,01494997
ROTA 1 - Turvo (3) 16,499m	7524260,055	601445,332	-22,3846895	-44,01455583
ROTA 1 - Turvo (3) 16,499m	7524244,445	601480,155	-22,38482845	-44,0142166
ROTA 1 - Turvo (3) 16,499m	7524231,246	601505,736	-22,38494615	-44,01396729
ROTA 1 - Turvo (3) 16,499m	7524224,756	601541,162	-22,38500268	-44,01362279
ROTA 1 - Turvo (3) 16,499m	7524215,223	601579,851	-22,3850865	-44,0132464
ROTA 1 - Turvo (3) 16,499m	7524195,517	601617,203	-22,38526228	-44,01288234
ROTA 1 - Turvo (3) 16,499m	7524172,494	601640,93	-22,38546884	-44,01265041
ROTA 1 - Turvo (3) 16,499m	7524147,981	601659,783	-22,38568914	-44,01246573
ROTA 1 - Turvo (3) 16,499m	7524087,389	601679,967	-22,38623526	-44,01226582
ROTA 1 - Turvo (3) 16,499m	7523977,775	601707,035	-22,38722378	-44,01199591
ROTA 1 - Turvo (3) 16,499m	7523950,784	601719,876	-22,38746682	-44,01186946
ROTA 1 - Turvo (3) 16,499m	7523926,46	601753,101	-22,38768456	-44,01154519
ROTA 1 - Turvo (3) 16,499m	7523887,353	601787,215	-22,38803578	-44,01121135
ROTA 1 - Turvo (3) 16,499m	7523872,25	601806,456	-22,38817106	-44,01102349
ROTA 1 - Turvo (3) 16,499m	7523837,57	601856,749	-22,38848133	-44,01053276
ROTA 1 - Turvo (3) 16,499m	7523807,643	601882,572	-22,38875012	-44,01028003
ROTA 1 - Turvo (3) 16,499m	7523785,655	601914,893	-22,38894681	-44,00996468
ROTA 1 - Turvo (3) 16,499m	7523761,296	601933,17	-22,38916575	-44,0097856
ROTA 1 - Turvo (3) 16,499m	7523730,103	601934,843	-22,38944741	-44,00976736
ROTA 1 - Turvo (3) 16,499m	7523699,561	601952,81	-22,38972222	-44,00959089
ROTA 1 - Turvo (3) 16,499m	7523688,453	601970,711	-22,38982149	-44,0094163
ROTA 1 - Turvo (3) 16,499m	7523665,752	601987,276	-22,39002556	-44,00925394
ROTA 1 - Turvo (3) 16,499m	7523639,316	602009,496	-22,39026303	-44,00903642
ROTA 1 - Turvo (3) 16,499m	7523604,994	602047,589	-22,39057078	-44,00866421
ROTA 1 - Turvo (3) 16,499m	7523573,629	602097,668	-22,39085112	-44,00817577
ROTA 1 - Turvo (3) 16,499m	7523561,601	602144,758	-22,39095696	-44,0077176
ROTA 1 - Turvo (3) 16,499m	7523558,949	602168,678	-22,39097949	-44,00748508
ROTA 1 - Turvo (3) 16,499m	7523544,312	602200,108	-22,39110983	-44,00717885
ROTA 1 - Turvo (3) 16,499m	7523539,6	602235,4	-22,39115029	-44,00683575
ROTA 1 - Turvo (3) 16,499m	7523548,811	602268,655	-22,39106509	-44,00651333
ROTA 1 - Turvo (3) 16,499m	7523569,188	602304,102	-22,39087892	-44,00617032
ROTA 1 - Turvo (3) 16,499m	7523592,552	602316,014	-22,39066717	-44,00605612
ROTA 1 - Turvo (3) 16,499m	7523632,119	602311,122	-22,39031006	-44,00610617
ROTA 1 - Turvo (3) 16,499m	7523665,8	602318,776	-22,39000537	-44,00603399
ROTA 1 - Turvo (3) 16,499m	7523685,62	602336,032	-22,38982531	-44,00586765
ROTA 1 - Turvo (3) 16,499m	7523695,016	602358,989	-22,38973907	-44,00564527
ROTA 1 - Turvo (3) 16,499m	7523699,593	602395,414	-22,38969556	-44,00529176
ROTA 1 - Turvo (3) 16,499m	7523692,667	602434,035	-22,3897558	-44,00491618
ROTA 1 - Turvo (3) 16,499m	7523668,957	602498,888	-22,38996609	-44,00428471
ROTA 1 - Turvo (3) 16,499m	7523650,615	602543,145	-22,39012913	-44,00385365
ROTA 1 - Turvo (3) 16,499m	7523629,872	602579,569	-22,39031431	-44,00349852

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU


MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (3) 16,499m	7523610,934	602612,917	-22,39048338	-44,00317339
ROTA 1 - Turvo (3) 16,499m	7523583,11	602643,741	-22,39073286	-44,00287219
ROTA 1 - Turvo (3) 16,499m	7523571,906	602680,053	-22,39083189	-44,00251876
ROTA 1 - Turvo (3) 16,499m	7523566,879	602721,128	-22,39087483	-44,00211946
ROTA 1 - Turvo (3) 16,499m	7523565,254	602769,408	-22,39088662	-44,00165039
ROTA 1 - Turvo (3) 16,499m	7523554,219	602792,732	-22,3909849	-44,00142313
ROTA 1 - Turvo (3) 16,499m	7523541,865	602813,549	-22,39109524	-44,00122013
ROTA 1 - Turvo (3) 16,499m	7523537,642	602828,464	-22,39113249	-44,00107498
ROTA 1 - Turvo (3) 16,499m	7523520,656	602847,22	-22,3912848	-44,00089171
ROTA 1 - Turvo (3) 16,499m	7523483,051	602870,296	-22,39162309	-44,00066513
ROTA 1 - Turvo (3) 16,499m	7523451,376	602899,566	-22,39190744	-44,00037878
ROTA 1 - Turvo (3) 16,499m	7523422,86	602929,614	-22,39216322	-44,00008507
ROTA 1 - Turvo (3) 16,499m	7523398,623	602954,106	-22,39238067	-43,9998456
ROTA 1 - Turvo (3) 16,499m	7523381,261	602991,904	-22,39253523	-43,99947732
ROTA 1 - Turvo (3) 16,499m	7523364,198	603031,677	-22,39268696	-43,9990899
ROTA 1 - Turvo (3) 16,499m	7523358,219	603066,138	-22,3927389	-43,99875477
ROTA 1 - Turvo (3) 16,499m	7523348,325	603101,219	-22,39282616	-43,99841337
ROTA 1 - Turvo (3) 16,499m	7523338,575	603137,021	-22,39291207	-43,99806498
ROTA 1 - Turvo (3) 16,499m	7523330,897	603170,33	-22,39297942	-43,99774094
ROTA 1 - Turvo (3) 16,499m	7523336,885	603200,778	-22,3929235	-43,99744557
ROTA 1 - Turvo (3) 16,499m	7523347,834	603224,891	-22,39282314	-43,99721205
ROTA 1 - Turvo (3) 16,499m	7523354,204	603255,315	-22,39276377	-43,99691695
ROTA 1 - Turvo (3) 16,499m	7523363,427	603378,121	-22,39267306	-43,99572468
ROTA 1 - Turvo (3) 16,499m	7523359,351	603393,262	-22,39270897	-43,99557734
ROTA 1 - Turvo (3) 16,499m	7523346,838	603410,255	-22,39282097	-43,99541147
ROTA 1 - Turvo (3) 16,499m	7523334,01	603419,731	-22,39293627	-43,99531859
ROTA 1 - Turvo (3) 16,499m	7523320,916	603439,213	-22,39305337	-43,99512851
ROTA 1 - Turvo (3) 16,499m	7523305,198	603454,797	-22,3931944	-43,99497611
ROTA 1 - Turvo (3) 16,499m	7523288,103	603469,837	-22,39334791	-43,99482891
ROTA 1 - Turvo (3) 16,499m	7523262,873	603487,143	-22,39357476	-43,99465917
ROTA 1 - Turvo (3) 16,499m	7523215,533	603533,917	-22,39399954	-43,99420176
ROTA 1 - Turvo (3) 16,499m	7523183,785	603544,399	-22,39428569	-43,99409788
ROTA 1 - Turvo (3) 16,499m	7523151,09	603548,28	-22,39458077	-43,99405805
ROTA 1 - Turvo (3) 16,499m	7523082,41	603544,953	-22,39520134	-43,9940859
ROTA 1 - Turvo (3) 16,499m	7523020,801	603552,718	-22,39575737	-43,99400648
ROTA 1 - Turvo (3) 16,499m	7522972,559	603561,089	-22,39619262	-43,99392203
ROTA 1 - Turvo (3) 16,499m	7522941,781	603571,884	-22,39646998	-43,99381517
ROTA 1 - Turvo (3) 16,499m	7522919,491	603584,319	-22,39667056	-43,99369293
ROTA 1 - Turvo (3) 16,499m	7522904,19	603589,999	-22,39680844	-43,99363676
ROTA 1 - Turvo (3) 16,499m	7522883,344	603592,802	-22,39699656	-43,99360818
ROTA 1 - Turvo (3) 16,499m	7522856,552	603593,65	-22,39723852	-43,9935982
ROTA 1 - Turvo (3) 16,499m	7522832,744	603587,074	-22,39745396	-43,99366053
ROTA 1 - Turvo (3) 16,499m	7522817,359	603574,096	-22,39759372	-43,99378559
ROTA 1 - Turvo (3) 16,499m	7522810,225	603553,805	-22,39765938	-43,99398223
ROTA 1 - Turvo (3) 16,499m	7522808,276	603530,183	-22,39767841	-43,99421157

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (3) 16,499m	7522806,306	603514,107	-22,39769718	-43,99436759
ROTA 1 - Turvo (3) 16,499m	7522797,376	603504,405	-22,39777843	-43,99446126
ROTA 1 - Turvo (3) 16,499m	7522780,645	603496,592	-22,39793003	-43,99453606
ROTA 1 - Turvo (3) 16,499m	7522751,3	603498,285	-22,39819499	-43,99451772
ROTA 1 - Turvo (3) 16,499m	7522731,118	603501,167	-22,39837711	-43,99448841
ROTA 1 - Turvo (3) 16,499m	7522708,276	603497,332	-22,39858367	-43,99452417
ROTA 1 - Turvo (3) 16,499m	7522696,926	603495,427	-22,39868631	-43,99454195
ROTA 1 - Turvo (3) 16,499m	7522682,559	603482,218	-22,39881688	-43,99466932
ROTA 1 - Turvo (3) 16,499m	7522665,524	603463,5	-22,39897188	-43,99485004
ROTA 1 - Turvo (3) 16,499m	7522650,705	603456,074	-22,39910618	-43,99492121
ROTA 1 - Turvo (3) 16,499m	7522612,294	603444,116	-22,39945386	-43,99503487
ROTA 1 - Turvo (3) 16,499m	7522571,667	603407,629	-22,39982304	-43,99538667
ROTA 1 - Turvo (3) 16,499m	7522520,595	603377,868	-22,40028615	-43,99567245
ROTA 1 - Turvo (3) 16,499m	7522493,874	603370,104	-22,40052799	-43,99574614
ROTA 1 - Turvo (3) 16,499m	7522466,288	603370,195	-22,40077716	-43,99574346
ROTA 1 - Turvo (3) 16,499m	7522439,946	603383,852	-22,40101427	-43,99560909
ROTA 1 - Turvo (3) 16,499m	7522424,835	603398,667	-22,40114988	-43,99546419
ROTA 1 - Turvo (3) 16,499m	7522394,425	603416,48	-22,40142349	-43,99528918
ROTA 1 - Turvo (3) 16,499m	7522371,486	603420,215	-22,40163046	-43,99525142
ROTA 1 - Turvo (3) 16,499m	7522344,924	603424,423	-22,40187013	-43,99520881
ROTA 1 - Turvo (3) 16,499m	7522323,182	603443,384	-22,40206538	-43,99502321
ROTA 1 - Turvo (3) 16,499m	7522317,443	603457,629	-22,40211635	-43,99488446
ROTA 1 - Turvo (3) 16,499m	7522305,532	603467,023	-22,40222338	-43,99479244
ROTA 1 - Turvo (3) 16,499m	7522286,641	603471,542	-22,40239375	-43,9947473
ROTA 1 - Turvo (3) 16,499m	7522235,327	603479,615	-22,40285676	-43,99466555
ROTA 1 - Turvo (3) 16,499m	7522206,215	603481,08	-22,40311964	-43,99464943
ROTA 1 - Turvo (3) 16,499m	7522176,927	603474,747	-22,40338457	-43,99470905
ROTA 1 - Turvo (3) 16,499m	7522142,497	603469,752	-22,40369587	-43,99475533
ROTA 1 - Turvo (3) 16,499m	7522114,714	603471,086	-22,40394674	-43,99474057
ROTA 1 - Turvo (3) 16,499m	7522073,548	603469,766	-22,40431866	-43,99475072
ROTA 1 - Turvo (3) 16,499m	7522059,812	603473,576	-22,4044425	-43,99471281
ROTA 1 - Turvo (3) 16,499m	7522038,993	603502,804	-22,40462879	-43,99442753
ROTA 1 - Turvo (3) 16,499m	7522028,841	603541,302	-22,40471816	-43,99405289
ROTA 1 - Turvo (3) 16,499m	7522011,337	603562,99	-22,40487496	-43,99384108
ROTA 1 - Turvo (3) 16,499m	7521994,265	603581,416	-22,40502806	-43,99366096
ROTA 1 - Turvo (3) 16,499m	7521978,834	603596,973	-22,4051665	-43,99350884
ROTA 1 - Turvo (3) 16,499m	7521963,301	603606,863	-22,40530621	-43,99341176
ROTA 1 - Turvo (3) 16,499m	7521936,079	603600,817	-22,40555246	-43,99346872
ROTA 1 - Turvo (3) 16,499m	7521924,488	603601,512	-22,40565712	-43,99346121
ROTA 1 - Turvo (3) 16,499m	7521908,585	603612,052	-22,40580012	-43,99335778
ROTA 1 - Turvo (3) 16,499m	7521907,572	603625,462	-22,40580846	-43,99322745
ROTA 1 - Turvo (3) 16,499m	7521911,846	603642,683	-22,40576881	-43,99306044
ROTA 1 - Turvo (3) 16,499m	7521917,021	603658,179	-22,40572114	-43,99291024
ROTA 1 - Turvo (3) 16,499m	7521918,707	603671,806	-22,40570507	-43,99277798
ROTA 1 - Turvo (3) 16,499m	7521915,957	603687,933	-22,40572894	-43,99262114



## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU


MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA


CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (3) 16,499m	7521909,742	603703,062	-22,40578416	-43,99247376
ROTA 1 - Turvo (3) 16,499m	7521887,898	603732,484	-22,40597969	-43,99218652
ROTA 1 - Turvo (3) 16,499m	7521822,295	603777,955	-22,40656951	-43,99174052
ROTA 1 - Turvo (3) 16,499m	7521787,383	603794,725	-22,40688385	-43,99157534
ROTA 1 - Turvo (3) 16,499m	7521756,659	603796,311	-22,40716127	-43,99155793
ROTA 1 - Turvo (3) 16,499m	7521720,416	603804,173	-22,40748817	-43,99147919
ROTA 1 - Turvo (3) 16,499m	7521707,608	603823,049	-22,40760272	-43,99129498
ROTA 1 - Turvo (3) 16,499m	7521686,834	603846,909	-22,40778891	-43,99106184
ROTA 1 - Turvo (3) 16,499m	7521671,868	603861,853	-22,40792319	-43,99091569
ROTA 1 - Turvo (3) 16,499m	7521660,472	603873,183	-22,40802544	-43,99080488
ROTA 1 - Turvo (3) 16,499m	7521614,19	603879,674	-22,40844309	-43,99073881
ROTA 1 - Turvo (3) 16,499m	7521591,041	603889,405	-22,4086516	-43,99064277
ROTA 1 - Turvo (3) 16,499m	7521568,203	603901,711	-22,40885715	-43,99052173
ROTA 1 - Turvo (3) 16,499m	7521539,374	603912,712	-22,40911688	-43,99041298
ROTA 1 - Turvo (3) 16,499m	7521503,655	603938,998	-22,40943793	-43,99015529
ROTA 1 - Turvo (3) 16,499m	7521468,255	603951,912	-22,4097569	-43,99002753
ROTA 1 - Turvo (3) 16,499m	7521441,999	603966,686	-22,40999317	-43,98988229
ROTA 1 - Turvo (3) 16,499m	7521416,133	603995,455	-22,41022505	-43,98960112
ROTA 1 - Turvo (3) 16,499m	7521397,338	604012,504	-22,41039379	-43,98943427
ROTA 1 - Turvo (3) 16,499m	7521383,092	604019,518	-22,41052205	-43,9893652
ROTA 1 - Turvo (3) 16,499m	7521351,385	604032,394	-22,41080766	-43,98923803
ROTA 1 - Turvo (3) 16,499m	7521339,098	604048,153	-22,4109177	-43,98908414
ROTA 1 - Turvo (3) 16,499m	7521336,369	604065,876	-22,41094127	-43,98891179
ROTA 1 - Turvo (3) 16,499m	7521334,529	604082,753	-22,41095686	-43,98874772
ROTA 1 - Turvo (3) 16,499m	7521322,417	604099,498	-22,41106525	-43,98858425
ROTA 1 - Turvo (3) 16,499m	7521320,614	604110,877	-22,41108084	-43,98847359
ROTA 1 - Turvo (3) 16,499m	7521326,335	604143,405	-22,41102719	-43,98815796
ROTA 1 - Turvo (3) 16,499m	7521327,907	604161,969	-22,41101186	-43,98797772
ROTA 1 - Turvo (3) 16,499m	7521320,125	604175,67	-22,41108132	-43,98784411
ROTA 1 - Turvo (3) 16,499m	7521308,082	604198,024	-22,41118873	-43,98762616
ROTA 1 - Turvo (3) 16,499m	7521282,768	604212,611	-22,4114165	-43,9874828
ROTA 1 - Turvo (3) 16,499m	7521231,691	604225,732	-22,41187707	-43,98735199
ROTA 1 - Turvo (3) 16,499m	7521196,711	604211,887	-22,41219388	-43,98748419
ROTA 1 - Turvo (3) 16,499m	7521172,942	604191,353	-22,41240982	-43,98768212
ROTA 1 - Turvo (3) 16,499m	7521135,831	604149,744	-22,41274757	-43,98808392
ROTA 1 - Turvo (3) 16,499m	7521114,22	604136,824	-22,41294356	-43,98820802
ROTA 1 - Turvo (3) 16,499m	7521092,739	604127,766	-22,41313813	-43,98829461
ROTA 1 - Turvo (3) 16,499m	7521079,622	604126,427	-22,4132567	-43,98830676
ROTA 1 - Turvo (3) 16,499m	7521070,391	604121,501	-22,41334038	-43,98835401
ROTA 1 - Turvo (3) 16,499m	7521059,627	604106,395	-22,41343853	-43,98850006
ROTA 1 - Turvo (3) 16,499m	7521040,369	604101,304	-22,41361279	-43,98854826
ROTA 1 - Turvo (3) 16,499m	7521026,415	604111,974	-22,41373818	-43,98844369
ROTA 1 - Turvo (3) 16,499m	7521003,68	604119,551	-22,41394308	-43,98836859
ROTA 1 - Turvo (3) 16,499m	7520983,049	604128,006	-22,41412892	-43,9882851
ROTA 1 - Turvo (3) 16,499m	7520976,76	604135,898	-22,41418524	-43,98820802

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (3) 16,499m	7520978,283	604155,594	-22,41417029	-43,98801678
ROTA 1 - Turvo (3) 16,499m	7520983,39	604169,112	-22,41412334	-43,98788578
ROTA 1 - Turvo (3) 16,499m	7520977,996	604174,88	-22,41417171	-43,9878294
ROTA 1 - Turvo (3) 16,499m	7520957,966	604174,012	-22,41435268	-43,98783652
ROTA 1 - Turvo (3) 16,499m	7520921,385	604165,675	-22,41468362	-43,98791512
ROTA 1 - Turvo (3) 16,499m	7520896,851	604150,922	-22,41490612	-43,98805684
ROTA 1 - Turvo (3) 16,499m	7520881,712	604139,705	-22,41504356	-43,98816482
ROTA 1 - Turvo (3) 16,499m	7520860,091	604132,802	-22,41523927	-43,98823047
ROTA 1 - Turvo (3) 16,499m	7520835,694	604130,194	-22,4154598	-43,98825421
ROTA 1 - Turvo (3) 16,499m	7520806,072	604132,104	-22,41572725	-43,98823371
ROTA 1 - Turvo (3) 16,499m	7520773,118	604139,323	-22,41602447	-43,98816142
ROTA 1 - Turvo (3) 16,499m	7520745,802	604150,925	-22,4162705	-43,98804692
ROTA 1 - Turvo (3) 16,499m	7520722,672	604186,589	-22,41647726	-43,98769893
ROTA 1 - Turvo (3) 16,499m	7520714,621	604201,902	-22,41654905	-43,98754964
ROTA 1 - Turvo (3) 16,499m	7520698,064	604204,379	-22,41669845	-43,98752449
ROTA 1 - Turvo (3) 16,499m	7520678,977	604202,32	-22,41687099	-43,98754325
ROTA 1 - Turvo (3) 16,499m	7520653,531	604197,276	-22,41710114	-43,98759058
ROTA 1 - Turvo (3) 16,499m	7520627,198	604194,899	-22,41733915	-43,98761195
ROTA 1 - Turvo (3) 16,499m	7520609,071	604198,424	-22,41750266	-43,98757651
ROTA 1 - Turvo (3) 16,499m	7520587,35	604219,17	-22,4176976	-43,98737354
ROTA 1 - Turvo (3) 16,499m	7520577,384	604236,652	-22,41778655	-43,98720305
ROTA 1 - Turvo (3) 16,499m	7520579,053	604260,794	-22,41777001	-43,98696861
ROTA 1 - Turvo (3) 16,499m	7520589,689	604288,438	-22,41767225	-43,98670075
ROTA 1 - Turvo (3) 16,499m	7520603,025	604307,495	-22,41755063	-43,98651648
ROTA 1 - Turvo (3) 16,499m	7520612,659	604337,029	-22,41746181	-43,98623019
ROTA 1 - Turvo (3) 16,499m	7520617,034	604354,722	-22,41742122	-43,98605858
ROTA 1 - Turvo (3) 16,499m	7520624,97	604386,221	-22,41734761	-43,98575308
ROTA 1 - Turvo (3) 16,499m	7520633,849	604413,096	-22,41726577	-43,98549258
ROTA 1 - Turvo (3) 16,499m	7520639,122	604446,109	-22,41721612	-43,98517219
ROTA 1 - Turvo (3) 16,499m	7520637,332	604479,252	-22,41723027	-43,98485009
ROTA 1 - Turvo (3) 16,499m	7520640,937	604499,509	-22,41719647	-43,98465353
ROTA 1 - Turvo (3) 16,499m	7520645,443	604513,041	-22,41715494	-43,98452236
ROTA 1 - Turvo (3) 16,499m	7520678,393	604551,743	-22,41685495	-43,98414853
ROTA 1 - Turvo (3) 16,499m	7520694,986	604574,428	-22,41670369	-43,98392923
ROTA 1 - Turvo (3) 16,499m	7520700,515	604585,286	-22,41665308	-43,98382411
ROTA 1 - Turvo (3) 16,499m	7520691,366	604591,397	-22,41673535	-43,98376415
ROTA 1 - Turvo (3) 16,499m	7520673,699	604596,538	-22,41689461	-43,98371303
ROTA 1 - Turvo (3) 16,499m	7520649,897	604605,379	-22,41710907	-43,98362558
ROTA 1 - Turvo (3) 16,499m	7520626,995	604615,201	-22,41731534	-43,98352866
ROTA 1 - Turvo (3) 16,499m	7520606,377	604629,314	-22,41750071	-43,98339019
ROTA 1 - Turvo (3) 16,499m	7520589,734	604640,424	-22,41765036	-43,98328116
ROTA 1 - Turvo (3) 16,499m	7520557,966	604648,05	-22,41793685	-43,98320498
ROTA 1 - Turvo (3) 16,499m	7520526,816	604642,609	-22,41821855	-43,98325579
ROTA 1 - Turvo (3) 16,499m	7520503,249	604640,091	-22,41843157	-43,98327871
ROTA 1 - Turvo (3) 16,499m	7520480,754	604633,854	-22,41863515	-43,98333782

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (3) 16,499m	7520428,483	604635,541	-22,41910719	-43,983318
ROTA 1 - Turvo (3) 16,499m	7520392,094	604635,382	-22,41943589	-43,98331714
ROTA 1 - Turvo (3) 16,499m	7520367,099	604634,74	-22,4196617	-43,98332174
ROTA 1 - Turvo (3) 16,499m	7520347,706	604643,68	-22,41983633	-43,98323361
ROTA 1 - Turvo (3) 16,499m	7520342,319	604658,11	-22,4198841	-43,98309306
ROTA 1 - Turvo (3) 16,499m	7520334,948	604673,285	-22,41994975	-43,98294515
ROTA 1 - Turvo (3) 16,499m	7520307,253	604691,385	-22,4201988	-43,98276748
ROTA 1 - Turvo (3) 16,499m	7520283,687	604709,783	-22,42041054	-43,98258719
ROTA 1 - Turvo (3) 16,499m	7520265,034	604728,974	-22,42057785	-43,98239951
ROTA 1 - Turvo (3) 16,499m	7520253,276	604743,251	-22,42068319	-43,98226003
ROTA 1 - Turvo (3) 16,499m	7520224,935	604788,141	-22,42093644	-43,98182205
ROTA 1 - Turvo (3) 16,499m	7520179,597	604829,033	-22,42134345	-43,98142178
ROTA 1 - Turvo (3) 16,499m	7520173,987	604845,167	-22,42139314	-43,98126466
ROTA 1 - Turvo (3) 16,499m	7520155,514	604880,515	-22,42155783	-43,98092002
ROTA 1 - Turvo (3) 16,499m	7520129,323	604915,227	-22,42179229	-43,98058106
ROTA 1 - Turvo (3) 16,499m	7520087,615	604954,451	-22,42216661	-43,98019722
ROTA 1 - Turvo (3) 16,499m	7520056,72	604972,909	-22,42244454	-43,98001586
ROTA 1 - Turvo (3) 16,499m	7520024,979	604995,72	-22,42272985	-43,97979214
ROTA 1 - Turvo (3) 16,499m	7520002,324	605013,292	-22,42293341	-43,97961993
ROTA 1 - Turvo (3) 16,499m	7519984,876	605041,506	-22,42308927	-43,97934466
ROTA 1 - Turvo (3) 16,499m	7519963,388	605067,103	-22,4232818	-43,97909456
ROTA 1 - Turvo (3) 16,499m	7519940,417	605071,123	-22,42348904	-43,97905398
ROTA 1 - Turvo (3) 16,499m	7519877,636	605081,817	-22,42405546	-43,97894594
ROTA 1 - Turvo (3) 16,499m	7519855,118	605093,477	-22,42425814	-43,97883116
ROTA 1 - Turvo (3) 16,499m	7519833,28	605117,075	-22,42445395	-43,97860046
ROTA 1 - Turvo (3) 16,499m	7519810,435	605135,971	-22,42465913	-43,97841536
ROTA 1 - Turvo (3) 16,499m	7519780,73	605144,73	-22,42492691	-43,97832829
ROTA 1 - Turvo (3) 16,499m	7519757,512	605138,859	-22,425137	-43,9783838
ROTA 1 - Turvo (3) 16,499m	7519723,941	605129,094	-22,42544083	-43,97847646
ROTA 1 - Turvo (3) 16,499m	7519708,509	605119,716	-22,4255808	-43,97856656
ROTA 1 - Turvo (3) 16,499m	7519685,504	605124,56	-22,4257883	-43,97851797
ROTA 1 - Turvo (3) 16,499m	7519670,134	605138,157	-22,4259263	-43,97838485
ROTA 1 - Turvo (3) 16,499m	7519656,603	605155,595	-22,42604744	-43,97821454
ROTA 1 - Turvo (3) 16,499m	7519649,532	605186,188	-22,42610943	-43,97791683
ROTA 1 - Turvo (3) 16,499m	7519652,194	605204,272	-22,42608428	-43,97774131
ROTA 1 - Turvo (3) 16,499m	7519645,072	605219,139	-22,42614769	-43,9775964
ROTA 1 - Turvo (3) 16,499m	7519627,774	605234,698	-22,42630299	-43,97744408
ROTA 1 - Turvo (3) 16,499m	7519607,752	605238,487	-22,42648361	-43,97740594
ROTA 1 - Turvo (3) 16,499m	7519567,393	605249,018	-22,42684751	-43,97730096
ROTA 1 - Turvo (3) 16,499m	7519537,139	605250,407	-22,42712069	-43,97728547
ROTA 1 - Turvo (3) 16,499m	7519498,466	605256,581	-22,42746963	-43,97722292
ROTA 1 - Turvo (3) 16,499m	7519480,863	605264,279	-22,42762816	-43,97714696
ROTA 1 - Turvo (3) 16,499m	7519466,17	605280,317	-22,42775989	-43,97699016
ROTA 1 - Turvo (3) 16,499m	7519454,465	605293,25	-22,42786482	-43,97686374
ROTA 1 - Turvo (3) 16,499m	7519415,273	605332,76	-22,42821639	-43,97647727

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU


MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA


CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (3) 16,499m	7519390,897	605363,034	-22,42843471	-43,97618151
ROTA 1 - Turvo (3) 16,499m	7519359,021	605408,345	-22,42871984	-43,97573917
ROTA 1 - Turvo (3) 16,499m	7519330,416	605438,381	-22,42897637	-43,97544545
ROTA 1 - Turvo (3) 16,499m	7519311,242	605467,175	-22,42914779	-43,97516442
ROTA 1 - Turvo (3) 16,499m	7519285,883	605501,963	-22,4293747	-43,97482474
ROTA 1 - Turvo (3) 16,499m	7519279,258	605531,304	-22,42943274	-43,97453922
ROTA 1 - Turvo (3) 16,499m	7519288,389	605549,488	-22,42934914	-43,97436315
ROTA 1 - Turvo (3) 16,499m	7519312,353	605558,794	-22,4291321	-43,97427433
ROTA 1 - Turvo (3) 16,499m	7519348,196	605573,911	-22,42880741	-43,97412983
ROTA 1 - Turvo (3) 16,499m	7519366,309	605578,823	-22,4286435	-43,97408331
ROTA 1 - Turvo (3) 16,499m	7519394,741	605582,25	-22,42838648	-43,9740519
ROTA 1 - Turvo (3) 16,499m	7519422,318	605587,751	-22,42813704	-43,97400029
ROTA 1 - Turvo (3) 16,499m	7519447,628	605602,936	-22,42790749	-43,97385443
ROTA 1 - Turvo (3) 16,499m	7519472,261	605625,028	-22,42768362	-43,97364143
ROTA 1 - Turvo (3) 16,499m	7519510,347	605651,757	-22,42733795	-43,97338426
ROTA 1 - Turvo (3) 16,499m	7519537,521	605679,515	-22,42709079	-43,97311638
ROTA 1 - Turvo (3) 16,499m	7519550,373	605704,111	-22,42697318	-43,97287826
ROTA 1 - Turvo (3) 16,499m	7519553,377	605733,516	-22,42694424	-43,97259276
ROTA 1 - Turvo (3) 16,499m	7519541,084	605765,119	-22,42705332	-43,97228491
ROTA 1 - Turvo (3) 16,499m	7519518,17	605778,38	-22,42725947	-43,97215454
ROTA 1 - Turvo (3) 16,499m	7519469,87	605791,425	-22,42769494	-43,97202458
ROTA 1 - Turvo (3) 16,499m	7519433,294	605816,468	-22,42802377	-43,97177884
ROTA 1 - Turvo (3) 16,499m	7519415,806	605851,02	-22,42817959	-43,97144197
ROTA 1 - Turvo (3) 16,499m	7519401,098	605877,861	-22,42831078	-43,97118021
ROTA 1 - Turvo (3) 16,499m	7519382,784	605898,781	-22,42847491	-43,97097573
ROTA 1 - Turvo (3) 16,499m	7519356,781	605913,124	-22,4287089	-43,97083465
ROTA 1 - Turvo (3) 16,499m	7519341,918	605932,758	-22,42884194	-43,9706429
ROTA 1 - Turvo (3) 16,499m	7519324,755	605948,465	-22,42899599	-43,97048915
ROTA 1 - Turvo (3) 16,499m	7519309,303	605967,634	-22,42913437	-43,97030187
ROTA 1 - Turvo (3) 16,499m	7519296,825	606014,464	-22,42924418	-43,96984605
ROTA 1 - Turvo (3) 16,499m	7519284,82	606051,66	-22,42935032	-43,96948386
ROTA 1 - Turvo (3) 16,499m	7519278,583	606092,848	-22,4294041	-43,96908326
ROTA 1 - Turvo (3) 16,499m	7519277,314	606129,804	-22,42941327	-43,96872411
ROTA 1 - Turvo (3) 16,499m	7519275,603	606168,483	-22,42942632	-43,9683482
ROTA 1 - Turvo (3) 16,499m	7519268,763	606185,103	-22,42948708	-43,96818626
ROTA 1 - Turvo (3) 16,499m	7519248,199	606200,377	-22,42967187	-43,96803649
ROTA 1 - Turvo (3) 16,499m	7519215,126	606218,002	-22,42996952	-43,96786304
ROTA 1 - Turvo (3) 16,499m	7519198,546	606233,079	-22,43011834	-43,96771544
ROTA 1 - Turvo (3) 16,499m	7519195,375	606261,667	-22,43014521	-43,96743747
ROTA 1 - Turvo (3) 16,499m	7519191,367	606278,603	-22,43018035	-43,96727265
ROTA 1 - Turvo (3) 16,499m	7519173,616	606279,599	-22,43034063	-43,96726179
ROTA 1 - Turvo (3) 16,499m	7519151,355	606275,488	-22,43054196	-43,96730024
ROTA 1 - Turvo (3) 16,499m	7519124,956	606270,445	-22,43078073	-43,96734748
ROTA 1 - Turvo (3) 16,499m	7519108,839	606271,024	-22,43092627	-43,96734078
ROTA 1 - Turvo (3) 16,499m	7519098,904	606284,914	-22,43101515	-43,96720516


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (3) 16,499m	7519089,489	606305,932	-22,43109888	-43,96700032
ROTA 1 - Turvo (3) 16,499m	7519067,153	606367,622	-22,4312968	-43,96639944
ROTA 1 - Turvo (3) 16,499m	7519065,069	606389,795	-22,43131425	-43,96618387
ROTA 1 - Turvo (3) 16,499m	7519054,661	606395,728	-22,43140789	-43,96612553
ROTA 1 - Turvo (3) 16,499m	7519041,583	606398,364	-22,43152585	-43,96609904
ROTA 1 - Turvo (3) 16,499m	7519027,763	606397,094	-22,43165076	-43,96611045
ROTA 1 - Turvo (3) 16,499m	7519015,632	606395,894	-22,43176042	-43,9661213
ROTA 1 - Turvo (3) 16,499m	7519005,28	606400,881	-22,43185361	-43,96607216
ROTA 1 - Turvo (3) 16,499m	7518995,136	606412,624	-22,4319445	-43,96595738
ROTA 1 - Turvo (3) 16,499m	7518974,38	606422,007	-22,4321314	-43,96586482
ROTA 1 - Turvo (3) 16,499m	7518946,165	606426,888	-22,43238595	-43,96581552
ROTA 1 - Turvo (3) 16,499m	7518910,858	606440,845	-22,43270399	-43,96567754
ROTA 1 - Turvo (3) 16,499m	7518856,866	606453,174	-22,43319092	-43,96555413
ROTA 1 - Turvo (3) 16,499m	7518840,055	606445,058	-22,43334327	-43,96563187
ROTA 1 - Turvo (3) 16,499m	7518812,155	606443,246	-22,43359539	-43,9656476
ROTA 1 - Turvo (3) 16,499m	7518797,135	606442,356	-22,43373112	-43,96565525
ROTA 1 - Turvo (3) 16,499m	7518776,233	606454,998	-22,43391913	-43,96553101
ROTA 1 - Turvo (3) 16,499m	7518749,34	606467,058	-22,4341613	-43,96541204
ROTA 1 - Turvo (3) 16,499m	7518731,93	606473,808	-22,43431813	-43,96534529
ROTA 1 - Turvo (3) 16,499m	7518706,321	606486,076	-22,43454868	-43,96522437
ROTA 1 - Turvo (3) 16,499m	7518693,94	606497,385	-22,43465981	-43,96511366
ROTA 1 - Turvo (3) 16,499m	7518676,532	606513,379	-22,43481605	-43,96495709
ROTA 1 - Turvo (3) 16,499m	7518653,058	606521,372	-22,43502759	-43,96487786
ROTA 1 - Turvo (3) 16,499m	7518631,562	606516,544	-22,43522206	-43,96492333
ROTA 1 - Turvo (3) 16,499m	7518613,812	606510,206	-22,43538278	-43,96498373
ROTA 1 - Turvo (3) 16,499m	7518578,36	606504,75	-22,43570334	-43,96503436
ROTA 1 - Turvo (3) 16,499m	7518556,97	606497,499	-22,435897	-43,96510338
ROTA 1 - Turvo (3) 16,499m	7518536,08	606489,006	-22,43608622	-43,9651845
ROTA 1 - Turvo (3) 16,499m	7518470,517	606452,667	-22,43668069	-43,96553319
ROTA 1 - Turvo (3) 16,499m	7518443,053	606454,399	-22,43692865	-43,96551453
ROTA 1 - Turvo (3) 16,499m	7518419,297	606472,729	-22,43714209	-43,96533483
ROTA 1 - Turvo (3) 16,499m	7518409,076	606496,479	-22,43723293	-43,96510338
ROTA 1 - Turvo (3) 16,499m	7518399,623	606527,292	-22,4373164	-43,96480336
ROTA 1 - Turvo (3) 16,499m	7518387,095	606558,464	-22,43742761	-43,96449964
ROTA 1 - Turvo (3) 16,499m	7518368,771	606588,739	-22,43759125	-43,96420424
ROTA 1 - Turvo (3) 16,499m	7518345,722	606626,126	-22,4377971	-43,96383942
ROTA 1 - Turvo (3) 16,499m	7518334,16	606646,724	-22,43790025	-43,96363851
ROTA 1 - Turvo (3) 16,499m	7518310,018	606658,164	-22,43811761	-43,96352573
ROTA 1 - Turvo (3) 16,499m	7518286,01	606668,949	-22,43833379	-43,96341933
ROTA 1 - Turvo (3) 16,499m	7518253,99	606685,663	-22,43862197	-43,96325478
ROTA 1 - Turvo (3) 16,499m	7518213,8	606716,691	-22,43898305	-43,9629506
ROTA 1 - Turvo (3) 16,499m	7518190,799	606735,447	-22,43918964	-43,96276681
ROTA 1 - Turvo (3) 16,499m	7518172,785	606752,342	-22,4393513	-43,96260143
ROTA 1 - Turvo (3) 16,499m	7518147,49	606766,729	-22,43957888	-43,96245995
ROTA 1 - Turvo (3) 16,499m	7518131,057	606782,258	-22,43972634	-43,96230795


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (3) 16,499m	7518095,698	606804,335	-22,44004434	-43,96209107
ROTA 1 - Turvo (3) 16,499m	7518071,879	606841,387	-22,44025718	-43,96172945
ROTA 1 - Turvo (3) 16,499m	7518057,842	606861,185	-22,44038274	-43,96153613
ROTA 1 - Turvo (3) 16,499m	7518057,866	606862,767	-22,44038242	-43,96152076
ROTA 1 - Turvo (3) 16,499m	7518045,962	606884,556	-22,44048858	-43,96130824
ROTA 1 - Turvo (3) 16,499m	7518038,085	606909,459	-22,44055817	-43,96106574
ROTA 1 - Turvo (3) 16,499m	7518037,377	606928,236	-22,4405634	-43,96088324
ROTA 1 - Turvo (3) 16,499m	7518027,606	606943,208	-22,44065071	-43,96073711
ROTA 1 - Turvo (3) 16,499m	7518021,195	606958,257	-22,44070768	-43,96059045
ROTA 1 - Turvo (3) 16,499m	7518015,691	606977,145	-22,44075622	-43,96040655
ROTA 1 - Turvo (3) 16,499m	7518016,26	606999,095	-22,44074971	-43,9601933
ROTA 1 - Turvo (3) 16,499m	7518022,077	607016,986	-22,44069604	-43,96001985
ROTA 1 - Turvo (3) 16,499m	7518018,731	607040,629	-22,44072478	-43,9597899
ROTA 1 - Turvo (3) 16,499m	7518007,42	607052,035	-22,44082623	-43,9596783
ROTA 1 - Turvo (3) 16,499m	7517984,681	607064,102	-22,44103088	-43,95955953
ROTA 1 - Turvo (3) 16,499m	7517960,668	607072,627	-22,44124724	-43,95947508
ROTA 1 - Turvo (3) 16,499m	7517927,699	607081,594	-22,44154447	-43,95938572
ROTA 1 - Turvo (3) 16,499m	7517918,102	607093,472	-22,44163041	-43,95926966
ROTA 1 - Turvo (3) 16,499m	7517913,595	607106,454	-22,44167031	-43,95914321
ROTA 1 - Turvo (3) 16,499m	7517924,635	607122,394	-22,44156959	-43,95898907
ROTA 1 - Turvo (3) 16,499m	7517945,667	607142,059	-22,44137839	-43,95879941
ROTA 1 - Turvo (3) 16,499m	7517982,316	607157,601	-22,44104637	-43,95865086
ROTA 1 - Turvo (3) 16,499m	7518019,329	607164,923	-22,44071159	-43,95858221
ROTA 1 - Turvo (3) 16,499m	7518034,781	607187,503	-22,44057061	-43,95836385
ROTA 1 - Turvo (3) 16,499m	7518039,547	607209,016	-22,44052621	-43,95815514
ROTA 1 - Turvo (3) 16,499m	7518037,856	607225,856	-22,44054043	-43,9579914
ROTA 1 - Turvo (3) 16,499m	7518021,417	607238,229	-22,44068814	-43,95787007
ROTA 1 - Turvo (3) 16,499m	7518009,343	607251,952	-22,44079634	-43,95773591
ROTA 1 - Turvo (3) 16,499m	7518004,092	607268,667	-22,44084272	-43,95757314
ROTA 1 - Turvo (3) 16,499m	7517996,555	607278,021	-22,44091021	-43,95748174
ROTA 1 - Turvo (3) 16,499m	7517978,497	607284,113	-22,44107293	-43,95742133
ROTA 1 - Turvo (3) 16,499m	7517969,983	607295,906	-22,44114911	-43,95730617
ROTA 1 - Turvo (3) 16,499m	7517978,088	607325,357	-22,44107405	-43,95702054
ROTA 1 - Turvo (3) 16,499m	7517987,428	607349,538	-22,44098816	-43,95678622
ROTA 1 - Turvo (3) 16,499m	7517985,048	607365,347	-22,44100866	-43,95663245
ROTA 1 - Turvo (3) 16,499m	7517968,313	607371,16	-22,44115946	-43,95657483
ROTA 1 - Turvo (3) 16,499m	7517943,251	607369,242	-22,44138596	-43,95659178
ROTA 1 - Turvo (3) 16,499m	7517904,794	607371,626	-22,44173317	-43,95656601
ROTA 1 - Turvo (3) 16,499m	7517891,715	607376,257	-22,44185102	-43,95652013
ROTA 1 - Turvo (3) 16,499m	7517879,791	607405,473	-22,44195689	-43,95623544
ROTA 1 - Turvo (3) 16,499m	7517877,849	607423,334	-22,44197331	-43,95606176
ROTA 1 - Turvo (3) 16,499m	7517868,908	607437,86	-22,44205315	-43,95592001
ROTA 1 - Turvo (3) 16,499m	7517860,774	607446,06	-22,44212611	-43,95583979
ROTA 1 - Turvo (3) 16,499m	7517849,705	607447,647	-22,44222599	-43,95582361
ROTA 1 - Turvo (3) 16,499m	7517835,814	607445,872	-22,44235158	-43,95583992

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (3) 16,499m	7517818,642	607441,026	-22,44250699	-43,95588585
ROTA 1 - Turvo (3) 16,499m	7517802,117	607434,681	-22,44265665	-43,95594639
ROTA 1 - Turvo (3) 16,499m	7517789,665	607428,384	-22,44276952	-43,95600673
ROTA 1 - Turvo (3) 16,499m	7517775,177	607425,337	-22,44290057	-43,95603535
ROTA 1 - Turvo (3) 16,499m	7517765,048	607424,911	-22,44299209	-43,95603881
ROTA 1 - Turvo (3) 16,499m	7517749,676	607411,766	-22,44313176	-43,9561655
ROTA 1 - Turvo (3) 16,499m	7517728,321	607399,755	-22,44332541	-43,95628077
ROTA 1 - Turvo (3) 16,499m	7517713,625	607392,719	-22,4434586	-43,95634815
ROTA 1 - Turvo (3) 16,499m	7517696,779	607395,072	-22,44361061	-43,95632414
ROTA 1 - Turvo (3) 16,499m	7517677,926	607402,214	-22,44378045	-43,95625346
ROTA 1 - Turvo (3) 16,499m	7517657,039	607423,605	-22,44396777	-43,9560442
ROTA 1 - Turvo (3) 16,499m	7517646,833	607427,777	-22,4440597	-43,95600297
ROTA 1 - Turvo (3) 16,499m	7517629,456	607431,898	-22,44421639	-43,95596175
ROTA 1 - Turvo (3) 16,499m	7517611,084	607428,253	-22,44438257	-43,95599593
ROTA 1 - Turvo (3) 16,499m	7517596,76	607436,588	-22,44451143	-43,95591397
ROTA 1 - Turvo (3) 16,499m	7517587,065	607447,308	-22,44459833	-43,95580915
ROTA 1 - Turvo (3) 16,499m	7517571,536	607467,638	-22,44473731	-43,95561056
ROTA 1 - Turvo (3) 16,499m	7517555,162	607487,925	-22,44488394	-43,95541232
ROTA 1 - Turvo (3) 16,499m	7517533,537	607503,733	-22,44507828	-43,95525725
ROTA 1 - Turvo (3) 16,499m	7517514,947	607510,247	-22,44524578	-43,95519269
ROTA 1 - Turvo (3) 16,499m	7517497,599	607507,779	-22,44540264	-43,95521551
ROTA 1 - Turvo (3) 16,499m	7517486,218	607506,508	-22,44550551	-43,95522708
ROTA 1 - Turvo (3) 16,499m	7517472,468	607504,627	-22,44562983	-43,95524443
ROTA 1 - Turvo (3) 16,499m	7517458,459	607509,893	-22,44575603	-43,95519231
ROTA 1 - Turvo (3) 16,499m	7517440,048	607525,443	-22,44592135	-43,95503997
ROTA 1 - Turvo (3) 16,499m	7517429,786	607542,955	-22,44601295	-43,95486911
ROTA 1 - Turvo (3) 16,499m	7517415,504	607564,004	-22,44614063	-43,95466361
ROTA 1 - Turvo (3) 16,499m	7517400,861	607581,011	-22,44627182	-43,95449736
ROTA 1 - Turvo (3) 16,499m	7517384,464	607588,37	-22,44641947	-43,95442474
ROTA 1 - Turvo (3) 16,499m	7517364,574	607593,716	-22,44659878	-43,95437144
ROTA 1 - Turvo (3) 16,499m	7517353,742	607601,538	-22,44669613	-43,95429471
ROTA 1 - Turvo (3) 16,499m	7517341,596	607615,412	-22,44680497	-43,95415907
ROTA 1 - Turvo (3) 16,499m	7517333,494	607631,787	-22,44687712	-43,95399941
ROTA 1 - Turvo (3) 16,499m	7517313,55	607656,425	-22,44705571	-43,95375864
ROTA 1 - Turvo (3) 16,499m	7517296,114	607681,271	-22,44721164	-43,95351603
ROTA 1 - Turvo (3) 16,499m	7517270,881	607691,544	-22,44743891	-43,9534145
ROTA 1 - Turvo (3) 16,499m	7517256,943	607707,135	-22,44756383	-43,95326206
ROTA 1 - Turvo (3) 16,499m	7517242,478	607726,132	-22,44769328	-43,95307647
ROTA 1 - Turvo (3) 16,499m	7517230,863	607732,794	-22,44779778	-43,95301095
ROTA 1 - Turvo (3) 16,499m	7517218,911	607735,059	-22,44790559	-43,95298813
ROTA 1 - Turvo (3) 16,499m	7517201,342	607743,206	-22,44806377	-43,95290778
ROTA 1 - Turvo (3) 16,499m	7517194,315	607759,115	-22,44812624	-43,95275271
ROTA 1 - Turvo (3) 16,499m	7517189,086	607771,445	-22,44817269	-43,95263254
ROTA 1 - Turvo (3) 16,499m	7517176,544	607780,968	-22,44828538	-43,95253916
ROTA 1 - Turvo (3) 16,499m	7517163,836	607792,403	-22,44839944	-43,95242718

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (3) 16,499m	7517152,36	607802,616	-22,44850245	-43,95232716
ROTA 1 - Turvo (3) 16,499m	7517146,975	607813,305	-22,44855042	-43,95222293
ROTA 1 - Turvo (3) 16,499m	7517148,954	607828,408	-22,44853159	-43,9520763
ROTA 1 - Turvo (3) 16,499m	7517156,178	607850,414	-22,44846495	-43,95186296
ROTA 1 - Turvo (3) 16,499m	7517153,93	607869,561	-22,44848404	-43,95167675
ROTA 1 - Turvo (3) 16,499m	7517142,398	607886,865	-22,44858712	-43,95150782
ROTA 1 - Turvo (3) 16,499m	7517124,521	607901,251	-22,44874769	-43,95136681
ROTA 1 - Turvo (3) 16,499m	7517102,617	607915,239	-22,44894465	-43,9512294
ROTA 1 - Turvo (3) 16,499m	7517084,691	607926,444	-22,44910587	-43,9511193
ROTA 1 - Turvo (3) 16,499m	7517076,514	607936,044	-22,44917912	-43,95102546
ROTA 1 - Turvo (3) 16,499m	7517063,458	607945,616	-22,44929644	-43,95093156
ROTA 1 - Turvo (3) 16,499m	7517049,549	607950,627	-22,44942176	-43,95088192
ROTA 1 - Turvo (3) 16,499m	7517022,74	607960,319	-22,4496633	-43,95078592
ROTA 1 - Turvo (3) 16,499m	7517007,677	607974,82	-22,44979844	-43,95064398
ROTA 1 - Turvo (3) 16,499m	7516998,913	607980,531	-22,44987724	-43,95058789
ROTA 1 - Turvo (3) 16,499m	7516991,323	607981,739	-22,44994572	-43,95057564
ROTA 1 - Turvo (3) 16,499m	7516981,182	607977,78	-22,45003757	-43,95061342
ROTA 1 - Turvo (3) 16,499m	7516964,807	607969,315	-22,45018601	-43,95069457
ROTA 1 - Turvo (3) 16,499m	7516952,303	607964,121	-22,45029928	-43,95074419
ROTA 1 - Turvo (3) 16,499m	7516940,438	607964,648	-22,45040642	-43,95073826
ROTA 1 - Turvo (3) 16,499m	7516932,201	607977,837	-22,45047999	-43,95060953
ROTA 1 - Turvo (3) 16,499m	7516927,608	608000,601	-22,45052004	-43,95038802
ROTA 1 - Turvo (3) 16,499m	7516923,592	608025,43	-22,45055474	-43,95014647
ROTA 1 - Turvo (3) 16,499m	7516912,168	608040,527	-22,45065698	-43,949999
ROTA 1 - Turvo (3) 16,499m	7516890,7	608062,999	-22,45084947	-43,94977917
ROTA 1 - Turvo (3) 16,499m	7516856,526	608092,533	-22,45115628	-43,94948985
ROTA 1 - Turvo (3) 16,499m	7516815,634	608124,608	-22,45152361	-43,94917538
ROTA 1 - Turvo (3) 16,499m	7516791,72	608140,17	-22,45173862	-43,94902253
ROTA 1 - Turvo (3) 16,499m	7516765,617	608172,143	-22,45197238	-43,94871006
ROTA 1 - Turvo (3) 16,499m	7516754,653	608190,791	-22,45207023	-43,9485281
ROTA 1 - Turvo (3) 16,499m	7516736,508	608217,373	-22,45223244	-43,94826856
ROTA 1 - Turvo (3) 16,499m	7516715,832	608232,435	-22,45241825	-43,94812079
ROTA 1 - Turvo (3) 16,499m	7516690,226	608241,972	-22,45264893	-43,94802636
ROTA 1 - Turvo (3) 16,499m	7516669,137	608246,989	-22,4528391	-43,94797617
ROTA 1 - Turvo (3) 16,499m	7516652,665	608248,023	-22,45298781	-43,94796501
ROTA 1 - Turvo (3) 16,499m	7516639,844	608251,844	-22,45310338	-43,947927
ROTA 1 - Turvo (3) 16,499m	7516631,9	608264,217	-22,45317435	-43,94780623
ROTA 1 - Turvo (3) 16,499m	7516625,791	608283,079	-22,45322834	-43,94762252
ROTA 1 - Turvo (3) 16,499m	7516626,277	608299,999	-22,45322287	-43,94745813
ROTA 1 - Turvo (3) 16,499m	7516620,251	608316,878	-22,45327623	-43,9472937
ROTA 1 - Turvo (3) 16,499m	7516606,352	608335,854	-22,45340057	-43,94710835
ROTA 1 - Turvo (3) 16,499m	7516589,432	608353,292	-22,4535523	-43,94693774
ROTA 1 - Turvo (3) 16,499m	7516564,189	608370,615	-22,45377921	-43,94676768
ROTA 1 - Turvo (3) 16,499m	7516536,263	608381,719	-22,45403075	-43,94665787
ROTA 1 - Turvo (3) 16,499m	7516518,23	608379,264	-22,45419378	-43,9466805



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Turvo (3) 16,499m	7516494,567	608372,74	-22,45440793	-43,94674228
ROTA 1 - Turvo (3) 16,499m	7516476,134	608369,017	-22,45457467	-43,9467772
ROTA 1 - Turvo (3) 16,499m	7516453,973	608362,24	-22,45477527	-43,94684155
ROTA 1 - Turvo (3) 16,499m	7516433,783	608353,623	-22,45495818	-43,9469239
ROTA 1 - Turvo (3) 16,499m	7516389,675	608311,235	-22,45535928	-43,94733281
ROTA 1 - Turvo (3) 16,499m	7516363,169	608293,362	-22,45559983	-43,94750468
ROTA 1 - Turvo (3) 16,499m	7516337,784	608286,209	-22,45582957	-43,94757246
ROTA 1 - Turvo (3) 16,499m	7516313,572	608287,553	-22,45604818	-43,94755775
ROTA 1 - Turvo (3) 16,499m	7516271,886	608293,248	-22,45642434	-43,94749957
ROTA 1 - Turvo (3) 16,499m	7516220,898	608302,204	-22,45688434	-43,94740905
ROTA 1 - Turvo (3) 16,499m	7516171,812	608324,192	-22,45732631	-43,94719203
ROTA 1 - Turvo (3) 16,499m	7516147,734	608336,951	-22,45754298	-43,9470664
ROTA 1 - Turvo (3) 16,499m	7516131,086	608336,978	-22,45769336	-43,947065
ROTA 1 - Turvo (3) 16,499m	7516108,793	608349,349	-22,45789393	-43,94694326
ROTA 1 - Turvo (3) 16,499m	7516088,978	608363,249	-22,45807203	-43,94680684
ROTA 1 - Turvo (3) 16,499m	7516077,008	608367,29	-22,4581799	-43,94676675
ROTA 1 - Turvo (3) 16,499m	7516060,909	608361,469	-22,45832568	-43,94682221
ROTA 1 - Turvo (3) 16,499m	7516037,499	608356,481	-22,45853745	-43,94686909
ROTA 1 - Turvo (3) 16,499m	7516021,778	608362,896	-22,45867904	-43,94680568
ROTA 1 - Turvo (3) 16,499m	7516006,967	608371,692	-22,45881226	-43,94671919
ROTA 1 - Turvo (3) 16,499m	7515992,952	608373,998	-22,4589387	-43,94669583
ROTA 1 - Turvo (3) 16,499m	7515974,303	608375,443	-22,45910707	-43,94668051
ROTA 1 - Turvo (3) 16,499m	7515947,906	608384,499	-22,45934492	-43,9465907
ROTA 1 - Turvo (3) 16,499m	7515922,598	608397,657	-22,45957268	-43,9464611
ROTA 1 - Turvo (3) 16,499m	7515898,956	608415,411	-22,4597851	-43,94628695
ROTA 1 - Turvo (3) 16,499m	7515888,717	608427,228	-22,45987683	-43,94617142
ROTA 1 - Turvo (3) 16,499m	7515879,16	608440,442	-22,45996232	-43,94604235
ROTA 1 - Turvo (3) 16,499m	7515861,464	608456,999	-22,46012111	-43,94588024
ROTA 1 - Turvo (3) 16,499m	7515839,114	608461,305	-22,46032271	-43,94583687
ROTA 1 - Turvo (3) 16,499m	7515819,594	608471,085	-22,46049841	-43,94574049
ROTA 1 - Turvo (3) 16,499m	7515816,232	608475,124	-22,46052852	-43,94570102
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516437,613	608353,908	-22,45492357	-43,9469214
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516445,022	608373,472	-22,45485541	-43,94673179
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516449,128	608392,1	-22,45481714	-43,94655105
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516450,514	608412,779	-22,45480331	-43,94635019
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516446,654	608437,052	-22,45483663	-43,94611405
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516435,783	608458,664	-22,45493345	-43,9459033
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516423,12	608480,319	-22,45504645	-43,94569199
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516413,12	608497,036	-22,45513572	-43,94552886
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516405,962	608511,568	-22,45519945	-43,94538715
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516402,129	608522,844	-22,45523335	-43,94527732
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516407,057	608533,481	-22,45518817	-43,94517429
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516419,894	608538,392	-22,45507191	-43,94512744
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516434,716	608534,111	-22,4549383	-43,94517005
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516455,614	608525,847	-22,45475006	-43,94525179

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516490,926	608511,287	-22,45443203	-43,94539569
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516529,462	608501,892	-22,45408454	-43,94548961
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516566,686	608498,879	-22,45374851	-43,94552144
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516627,839	608507,471	-22,4531956	-43,94544213
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516650,534	608524,339	-22,45298953	-43,94527976
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516672,965	608552,701	-22,45278513	-43,94500568
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516689,705	608562,744	-22,45263328	-43,94490924
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516717,702	608564,526	-22,45238028	-43,94489383
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516743,567	608554,23	-22,45214731	-43,94499565
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516764,107	608537,596	-22,45196284	-43,94515869
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516777,282	608524,748	-22,45184466	-43,94528445
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516793,38	608527,161	-22,4516991	-43,9452621
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516804,365	608532,859	-22,45159951	-43,94520748
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516839,219	608523,559	-22,45128529	-43,94530023
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516850,025	608513,167	-22,45118834	-43,94540196
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516866,618	608503,161	-22,4510391	-43,94550032
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516880,985	608506,808	-22,4509091	-43,94546586
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516894,942	608517,469	-22,45078235	-43,94536322
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516908,1	608535,441	-22,45066236	-43,94518948
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516920,031	608551,833	-22,45055355	-43,945031
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516932,115	608560,323	-22,45044386	-43,94494933
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516963,051	608553,645	-22,45016486	-43,94501634
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516981,413	608545,5	-22,44999952	-43,94509674
ROTA 1 - DorÃ¢ndia (7) 1,079m	7516999,994	608553,975	-22,44983115	-43,94501565
ROTA 1 - DorÃ¢ndia (7) 1,079m	7517032,087	608568,378	-22,44954035	-43,94487789
ROTA 1 - DorÃ¢ndia (7) 1,079m	7517059,351	608563,777	-22,44929438	-43,94492446
ROTA 1 - DorÃ¢ndia (7) 1,079m	7517078,204	608551,7	-22,44912486	-43,94504311
ROTA 1 - DorÃ¢ndia (7) 1,079m	7517103,386	608535,635	-22,44889842	-43,94520093
ROTA 1 - DorÃ¢ndia (7) 1,079m	7517126,892	608522,641	-22,44868693	-43,94532881
ROTA 1 - DorÃ¢ndia (7) 1,079m	7517127,724	608540,994	-22,44867824	-43,94515053
ROTA 1 - DorÃ¢ndia (7) 1,079m	7517133,646	608566,119	-22,44862316	-43,94490678
ROTA 1 - DorÃ¢ndia (7) 1,079m	7517127,951	608589,454	-22,44867312	-43,94467965
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514030,484	608666,757	-22,47664611	-43,94371644
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514048,925	608654,41	-22,47648033	-43,94383771
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514074,96	608657,539	-22,47624497	-43,94380908
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514075,697	608657,526	-22,47623831	-43,94380925
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514099,566	608660,065	-22,47602256	-43,94378621
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514128,311	608657,474	-22,47576308	-43,94381336
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514156,991	608645,631	-22,47550478	-43,94393044
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514178,704	608636,008	-22,47530928	-43,94402544
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514204,284	608626,061	-22,47507886	-43,94412387
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514233,05	608620,497	-22,47481938	-43,94417991
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514253,303	608625,36	-22,47463613	-43,94413404
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514280,506	608643,957	-22,47438924	-43,94395517
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514313,142	608652,779	-22,47409389	-43,94387166

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU


MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA


CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514353,807	608647,052	-22,47372695	-43,9439301
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514369,452	608653,208	-22,47358524	-43,94387134
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514415,635	608690,724	-22,47316571	-43,9435099
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514469,911	608745,695	-22,47267196	-43,94297935
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514515,974	608796,009	-22,47225269	-43,94249352
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514571,285	608834,319	-22,47175065	-43,94212499
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514593,431	608840,918	-22,4715502	-43,94206238
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514635,675	608848,457	-22,47116815	-43,941992
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514653,84	608854,296	-22,47100371	-43,9419365
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514700,46	608872,081	-22,47058148	-43,94176685
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514774,081	608881,219	-22,46991591	-43,94168309
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514842,255	608898,238	-22,46929904	-43,94152237
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514855,874	608900,715	-22,46917587	-43,94149923
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514869,523	608897,523	-22,46905279	-43,94153119
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514907,69	608876,218	-22,4687094	-43,94174086
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514927,736	608884,049	-22,46852784	-43,94166614
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514943,389	608902,624	-22,46838527	-43,94148668
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514944,265	608903,519	-22,4683773	-43,94147805
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514951,052	608935,543	-22,46831395	-43,94116728
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514971,001	608981,961	-22,4681308	-43,94071754
ROTA 1 - DorÃ¢ndia (4) 2,203m	7514993,874	609009,829	-22,46792242	-43,94044828
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515012,219	609027,128	-22,46775562	-43,94028142
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515027,999	609031,951	-22,46761278	-43,94023563
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515036,614	609033,462	-22,46753487	-43,94022154
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515047,91	609031,34	-22,46743297	-43,94024293
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515056,201	609021,677	-22,4673587	-43,94033741
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515067,582	608995,986	-22,46725754	-43,94058787
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515079,369	608981,317	-22,46715201	-43,94073124
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515101,32	608967,5	-22,46695462	-43,94086703
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515128,132	608954,353	-22,46671328	-43,94099664
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515137,98	608944,162	-22,46662498	-43,94109635
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515213,283	608871,481	-22,46594944	-43,94180786
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515239,598	608839,72	-22,46571378	-43,94211833
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515256,161	608812,253	-22,46556592	-43,9423864
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515278,189	608763,473	-22,46537006	-43,94286197
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515307,757	608727,304	-22,46510528	-43,94321551
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515334,132	608702,359	-22,46486864	-43,94345974
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515370,84	608663,288	-22,46453956	-43,94384195
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515421,707	608653,559	-22,46408073	-43,94393998
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515484,451	608635,393	-22,46351515	-43,94412082
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515539,135	608616,331	-22,46302243	-43,9443098
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515610,773	608588,147	-22,46237715	-43,9445886
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515647,068	608567,4	-22,46205062	-43,94479271
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515691,063	608522,289	-22,46165611	-43,94523411
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515752,619	608484,593	-22,4611025	-43,94560465

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515782,737	608474,731	-22,46083109	-43,94570254
ROTA 1 - DorÃ¢ndia (4) 2,203m	7515816,412	608475,343	-22,46052687	-43,9456989
ROTA 1 - DorÃ¢ndia (5) 758m	7515012,278	609027,771	-22,46775505	-43,94027517
ROTA 1 - DorÃ¢ndia (5) 758m	7515021,85	609047,454	-22,46766733	-43,94008454
ROTA 1 - DorÃ¢ndia (5) 758m	7515041,718	609073,277	-22,46748622	-43,93983495
ROTA 1 - DorÃ¢ndia (5) 758m	7515069,946	609099,988	-22,46722954	-43,9395773
ROTA 1 - DorÃ¢ndia (5) 758m	7515082,129	609108,339	-22,46711897	-43,93949698
ROTA 1 - DorÃ¢ndia (5) 758m	7515104,574	609127,178	-22,46691503	-43,93931543
ROTA 1 - DorÃ¢ndia (5) 758m	7515121,976	609141,968	-22,4667569	-43,93917289
ROTA 1 - DorÃ¢ndia (5) 758m	7515155,879	609164,454	-22,46644923	-43,9389567
ROTA 1 - DorÃ¢ndia (5) 758m	7515164,903	609189,966	-22,46636609	-43,93870938
ROTA 1 - DorÃ¢ndia (5) 758m	7515164,548	609205,528	-22,46636831	-43,93855812
ROTA 1 - DorÃ¢ndia (5) 758m	7515166,747	609242,678	-22,46634607	-43,93819723
ROTA 1 - DorÃ¢ndia (5) 758m	7515167,324	609261,717	-22,46633964	-43,93801225
ROTA 1 - DorÃ¢ndia (5) 758m	7515168,583	609273,246	-22,46632752	-43,93790029
ROTA 1 - DorÃ¢ndia (5) 758m	7515185,425	609286,298	-22,46617457	-43,9377746
ROTA 1 - DorÃ¢ndia (5) 758m	7515202,048	609306,79	-22,46602311	-43,9375766
ROTA 1 - DorÃ¢ndia (5) 758m	7515210,87	609324,137	-22,46594231	-43,93740862
ROTA 1 - DorÃ¢ndia (5) 758m	7515223,902	609359,672	-22,46582233	-43,93706418
ROTA 1 - DorÃ¢ndia (5) 758m	7515232,834	609385,256	-22,46574001	-43,93681615
ROTA 1 - DorÃ¢ndia (5) 758m	7515257,726	609407,162	-22,46551377	-43,93660498
ROTA 1 - DorÃ¢ndia (5) 758m	7515296,793	609424,421	-22,46515979	-43,93643995
ROTA 1 - DorÃ¢ndia (5) 758m	7515324,068	609442,256	-22,46491229	-43,9362685
ROTA 1 - DorÃ¢ndia (5) 758m	7515337,492	609459,833	-22,46478991	-43,93609861
ROTA 1 - DorÃ¢ndia (5) 758m	7515344,368	609489,694	-22,46472589	-43,93580889
ROTA 1 - DorÃ¢ndia (5) 758m	7515348,496	609514,217	-22,46468703	-43,93557085
ROTA 1 - DorÃ¢ndia (5) 758m	7515351,887	609533,744	-22,46465515	-43,93538132
ROTA 1 - DorÃ¢ndia (5) 758m	7515363,604	609558,446	-22,46454773	-43,93514207
ROTA 1 - DorÃ¢ndia (5) 758m	7515379,583	609584,986	-22,4644017	-43,93488524
ROTA 1 - DorÃ¢ndia (5) 758m	7515396,114	609606,098	-22,46425102	-43,93468122
ROTA 1 - DorÃ¢ndia (5) 758m	7515408,003	609626,58	-22,46414232	-43,93448299
ROTA 1 - DorÃ¢ndia (5) 694m	7515407,998	609626,345	-22,46414239	-43,93448527
ROTA 1 - DorÃ¢ndia (5) 694m	7515409,319	609635,973	-22,46412984	-43,9343918
ROTA 1 - DorÃ¢ndia (5) 694m	7515412,301	609647,841	-22,46410214	-43,93427667
ROTA 1 - DorÃ¢ndia (5) 694m	7515423,382	609661,917	-22,46400114	-43,93414063
ROTA 1 - DorÃ¢ndia (5) 694m	7515435,184	609679,736	-22,4638934	-43,93396829
ROTA 1 - DorÃ¢ndia (5) 694m	7515445,146	609690,992	-22,46380269	-43,93385958
ROTA 1 - DorÃ¢ndia (5) 694m	7515451,77	609706,328	-22,46374188	-43,93371101
ROTA 1 - DorÃ¢ndia (5) 694m	7515456,754	609719,662	-22,46369601	-43,93358176
ROTA 1 - DorÃ¢ndia (5) 694m	7515459,959	609733,332	-22,46366618	-43,93344914
ROTA 1 - DorÃ¢ndia (5) 694m	7515465,95	609745,664	-22,46361127	-43,93332971
ROTA 1 - DorÃ¢ndia (5) 694m	7515474,584	609761,149	-22,46353229	-43,93317983
ROTA 1 - DorÃ¢ndia (5) 694m	7515485,981	609780,498	-22,4634281	-43,93299257
ROTA 1 - DorÃ¢ndia (5) 694m	7515490,392	609800,241	-22,46338699	-43,93280101
ROTA 1 - DorÃ¢ndia (5) 694m	7515500,297	609848,02	-22,46329445	-43,93233737

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Dorãçndia (5) 694m	7515508,146	609871,794	-22,46322203	-43,93210688
ROTA 1 - Dorãçndia (5) 694m	7515509,294	609889,235	-22,46321054	-43,93193746
ROTA 1 - Dorãçndia (5) 694m	7515514,861	609912,333	-22,46315877	-43,93171338
ROTA 1 - Dorãçndia (5) 694m	7515516,644	609934,489	-22,46314123	-43,93149819
ROTA 1 - Dorãçndia (5) 694m	7515523,089	609939,73	-22,46308268	-43,9314477
ROTA 1 - Dorãçndia (5) 694m	7515529,028	609937,037	-22,46302921	-43,93147428
ROTA 1 - Dorãçndia (5) 694m	7515529,09	609927,19	-22,46302929	-43,93156998
ROTA 1 - Dorãçndia (5) 694m	7515522,689	609899,552	-22,46308888	-43,93183813
ROTA 1 - Dorãçndia (5) 694m	7515518,284	609878,434	-22,46313002	-43,93204305
ROTA 1 - Dorãçndia (5) 694m	7515515,157	609865,432	-22,46315911	-43,93216919
ROTA 1 - Dorãçndia (5) 694m	7515510,867	609850,018	-22,46319885	-43,93231869
ROTA 1 - Dorãçndia (5) 694m	7515509,813	609838,402	-22,46320912	-43,9324315
ROTA 1 - Dorãçndia (5) 694m	7515505,684	609823,732	-22,46324735	-43,93257378
ROTA 1 - Dorãçndia (5) 694m	7515504,71	609808,403	-22,46325714	-43,93272269
ROTA 1 - Dorãçndia (5) 694m	7515504,02	609782,14	-22,46326506	-43,93297787
ROTA 1 - Dorãçndia (5) 694m	7515502,278	609767,816	-22,46328172	-43,93311694
ROTA 1 - Dorãçndia (5) 694m	7515493,643	609756,992	-22,46336041	-43,93322154
ROTA 1 - Dorãçndia (5) 694m	7515485,659	609748,712	-22,46343305	-43,93330146
ROTA 1 - Dorãçndia (5) 694m	7515473,496	609734,291	-22,46354384	-43,93344076
ROTA 1 - Dorãçndia (5) 694m	7515469,42	609723,432	-22,46358135	-43,933546
ROTA 1 - Dorãçndia (5) 694m	7515467,364	609706,047	-22,46360104	-43,93371482
ROTA 1 - Dorãçndia (5) 694m	7515465,105	609694,25	-22,4636222	-43,9338293
ROTA 1 - Dorãçndia (5) 694m	7515459,556	609682,874	-22,46367306	-43,93393948
ROTA 1 - Dorãçndia (5) 694m	7515444,823	609668,912	-22,46380703	-43,93407414
ROTA 1 - Dorãçndia (5) 694m	7515433,044	609656,926	-22,46391419	-43,93418981
ROTA 1 - Dorãçndia (5) 694m	7515422,119	609645,275	-22,46401362	-43,93430229
ROTA 1 - Dorãçndia (5) 694m	7515407,998	609626,345	-22,46414239	-43,93448527
ROTA 1 - Dorãçndia (6) 298m	7514236,801	608621,843	-22,47478541	-43,94416709
ROTA 1 - Dorãçndia (6) 298m	7514241,699	608601,43	-22,47474247	-43,94436583
ROTA 1 - Dorãçndia (6) 298m	7514246,654	608568,545	-22,47469981	-43,94468577
ROTA 1 - Dorãçndia (6) 298m	7514251,45	608537,625	-22,47465846	-43,94498661
ROTA 1 - Dorãçndia (6) 298m	7514260,664	608507,859	-22,47457712	-43,94527653
ROTA 1 - Dorãçndia (6) 298m	7514268,91	608470,092	-22,47450504	-43,94564416
ROTA 1 - Dorãçndia (6) 298m	7514268,325	608450,947	-22,47451154	-43,94583018
ROTA 1 - Dorãçndia (6) 298m	7514260,409	608427,128	-22,47458455	-43,94606114
ROTA 1 - Dorãçndia (6) 298m	7514246,061	608413,277	-22,47471503	-43,94619478
ROTA 1 - Dorãçndia (6) 298m	7514180,097	608370,479	-22,47531357	-43,94660623
ROTA 1 - Dorãçndia (8) 543m	7515777,628	608476,217	-22,46087714	-43,94568775
ROTA 1 - Dorãçndia (8) 543m	7515761,157	608452,151	-22,46102744	-43,94592051
ROTA 1 - Dorãçndia (8) 543m	7515750,127	608431,891	-22,46112836	-43,94611664
ROTA 1 - Dorãçndia (8) 543m	7515739,868	608413,315	-22,4612222	-43,94629646
ROTA 1 - Dorãçndia (8) 543m	7515720,373	608376,293	-22,46140064	-43,94665491
ROTA 1 - Dorãçndia (8) 543m	7515703,375	608349,599	-22,46155587	-43,94691317
ROTA 1 - Dorãçndia (8) 543m	7515678,895	608319,59	-22,46177888	-43,94720312
ROTA 1 - Dorãçndia (8) 543m	7515653,324	608290,301	-22,46201171	-43,94748601

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU


MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA


CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - DorÃ¢ndia (8) 543m	7515651,853	608287,965	-22,46202515	-43,94750861
ROTA 1 - DorÃ¢ndia (8) 543m	7515622,249	608256,624	-22,46229453	-43,94781117
ROTA 1 - DorÃ¢ndia (8) 543m	7515597,505	608250,197	-22,46251844	-43,94787194
ROTA 1 - DorÃ¢ndia (8) 543m	7515583,256	608252,114	-22,46264702	-43,94785234
ROTA 1 - DorÃ¢ndia (8) 543m	7515577,14	608254,004	-22,46270215	-43,94783355
ROTA 1 - DorÃ¢ndia (8) 543m	7515570,739	608256,655	-22,4627598	-43,94780736
ROTA 1 - DorÃ¢ndia (8) 543m	7515550,66	608264,599	-22,46294066	-43,94772879
ROTA 1 - DorÃ¢ndia (8) 543m	7515525,084	608277,47	-22,46317085	-43,94760196
ROTA 1 - DorÃ¢ndia (8) 543m	7515519,245	608284,905	-22,46322312	-43,9475293
ROTA 1 - DorÃ¢ndia (8) 543m	7515511,285	608299,678	-22,46329409	-43,94738519
ROTA 1 - DorÃ¢ndia (8) 543m	7515499,247	608374,445	-22,46339808	-43,94665777
ROTA 1 - DorÃ¢ndia (8) 543m	7515459,259	608428,7	-22,46375583	-43,94612778
ROTA 1 - DorÃ¢ndia (9) 483m	7515735,67	608405,539	-22,46126061	-43,94637174
ROTA 1 - DorÃ¢ndia (9) 483m	7515721,009	608414,636	-22,46139246	-43,94628234
ROTA 1 - DorÃ¢ndia (9) 483m	7515699,131	608427,263	-22,46158927	-43,94615813
ROTA 1 - DorÃ¢ndia (9) 483m	7515682,425	608440,659	-22,46173932	-43,94602681
ROTA 1 - DorÃ¢ndia (9) 483m	7515656,231	608463,11	-22,46197449	-43,94580684
ROTA 1 - DorÃ¢ndia (9) 483m	7515650,405	608461,877	-22,46202719	-43,94581842
ROTA 1 - DorÃ¢ndia (9) 483m	7515643,981	608454,298	-22,46208569	-43,94589164
ROTA 1 - DorÃ¢ndia (9) 483m	7515635,853	608436,451	-22,46216024	-43,94606452
ROTA 1 - DorÃ¢ndia (9) 483m	7515628,103	608421,755	-22,46223118	-43,94620681
ROTA 1 - DorÃ¢ndia (9) 483m	7515624,184	608407,873	-22,46226746	-43,94634145
ROTA 1 - DorÃ¢ndia (9) 483m	7515624,421	608365,025	-22,46226804	-43,94675786
ROTA 1 - DorÃ¢ndia (9) 483m	7515611,723	608341,123	-22,46238425	-43,94698928
ROTA 1 - DorÃ¢ndia (9) 483m	7515593,612	608327,305	-22,46254871	-43,94712233
ROTA 1 - DorÃ¢ndia (9) 483m	7515584,982	608331,407	-22,46262641	-43,94708188
ROTA 1 - DorÃ¢ndia (9) 483m	7515582,021	608339,563	-22,46265263	-43,94700242
ROTA 1 - DorÃ¢ndia (9) 483m	7515582,723	608354,331	-22,46264536	-43,94685894
ROTA 1 - DorÃ¢ndia (9) 483m	7515585,162	608365,226	-22,46262263	-43,94675323
ROTA 1 - DorÃ¢ndia (9) 483m	7515578,575	608379,252	-22,46268124	-43,94661648
ROTA 1 - DorÃ¢ndia (9) 483m	7515560,798	608397,621	-22,46284065	-43,94643675
ROTA 1 - DorÃ¢ndia (9) 483m	7515546,355	608413,925	-22,46297007	-43,94627732
ROTA 1 - DorÃ¢ndia (9) 483m	7515539,661	608424,013	-22,46302989	-43,94617882
ROTA 1 - DorÃ¢ndia (9) 483m	7515537,264	608430,181	-22,46305116	-43,94611872
ROTA 1 - DorÃ¢ndia (9) 483m	7515539,575	608435,54	-22,46302994	-43,94606679
ROTA 1 - DorÃ¢ndia (9) 483m	7515547,635	608440,733	-22,46295681	-43,94601688
ROTA 1 - DorÃ¢ndia (9) 483m	7515558,293	608440,265	-22,46286057	-43,94602216
ROTA 1 - DorÃ¢ndia (9) 483m	7515571,805	608435,897	-22,4627388	-43,94606552
ROTA 1 - DorÃ¢ndia (9) 483m	7515587,78	608427,927	-22,46259501	-43,94614408
ROTA 1 - DorÃ¢ndia (9) 483m	7515599,351	608421,922	-22,46249088	-43,94620322
ROTA 1 - DorÃ¢ndia (9) 483m	7515612,886	608413,948	-22,46236912	-43,94628163
ROTA 1 - DorÃ¢ndia (9) 483m	7515624,297	608408,192	-22,46226642	-43,94633835
ROTA 1 - DorÃ¢ndia (10) 153m	7515656,536	608462,986	-22,46197174	-43,94580806
ROTA 1 - DorÃ¢ndia (10) 153m	7515636,777	608478,655	-22,46214922	-43,94565444
ROTA 1 - DorÃ¢ndia (10) 153m	7515620,448	608490,556	-22,46229596	-43,94553767

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Dorãçndia (10) 153m	7515605,01	608501,011	-22,46243473	-43,94543501
ROTA 1 - Dorãçndia (10) 153m	7515599,449	608513,23	-22,46248419	-43,94531588
ROTA 1 - Dorãçndia (10) 153m	7515610,732	608588,146	-22,46237751	-43,94458861
ROTA 1 - Dorãçndia (11) 222m	7515278,368	608763,432	-22,46536844	-43,94286239
ROTA 1 - Dorãçndia (11) 222m	7515217,558	608757,361	-22,4659181	-43,94291722
ROTA 1 - Dorãçndia (11) 222m	7515169,885	608750,93	-22,46634911	-43,94297645
ROTA 1 - Dorãçndia (11) 222m	7515111,976	608740,734	-22,46687282	-43,94307158
ROTA 1 - Dorãçndia (11) 222m	7515078,32	608736,269	-22,46717711	-43,94311266
ROTA 1 - Dorãçndia (11) 222m	7515058,17	608733,054	-22,46735932	-43,94314252
ROTA 1 - Dorãçndia (12) 466m	7515058,049	608732,984	-22,46736041	-43,9431432
ROTA 1 - Dorãçndia (12) 466m	7515052,783	608725,691	-22,46740844	-43,94321371
ROTA 1 - Dorãçndia (12) 466m	7515043,409	608721,161	-22,4674934	-43,9432571
ROTA 1 - Dorãçndia (12) 466m	7515038,083	608716,546	-22,46754181	-43,94330158
ROTA 1 - Dorãçndia (12) 466m	7515028,422	608700,388	-22,46763009	-43,94345795
ROTA 1 - Dorãçndia (12) 466m	7515028,773	608677,577	-22,46762837	-43,94367967
ROTA 1 - Dorãçndia (12) 466m	7515035,508	608661,041	-22,46756859	-43,94384083
ROTA 1 - Dorãçndia (12) 466m	7515044,557	608646,385	-22,46748779	-43,94398388
ROTA 1 - Dorãçndia (12) 466m	7515056,79	608632,568	-22,46737818	-43,944119
ROTA 1 - Dorãçndia (12) 466m	7515064,709	608629,82	-22,46730682	-43,94414625
ROTA 1 - Dorãçndia (12) 466m	7515072,055	608606,902	-22,46724193	-43,94436948
ROTA 1 - Dorãçndia (12) 466m	7515072,96	608596,402	-22,46723442	-43,94447159
ROTA 1 - Dorãçndia (12) 466m	7515075,682	608589,991	-22,46721025	-43,94453408
ROTA 1 - Dorãçndia (12) 466m	7515079,633	608577,393	-22,46717536	-43,94465678
ROTA 1 - Dorãçndia (12) 466m	7515090,09	608573,793	-22,46708113	-43,94469248
ROTA 1 - Dorãçndia (12) 466m	7515104,387	608566,3	-22,46695247	-43,94476628
ROTA 1 - Dorãçndia (12) 466m	7515113,689	608557,631	-22,466869	-43,94485116
ROTA 1 - Dorãçndia (12) 466m	7515125,013	608551,471	-22,46676711	-43,9449118
ROTA 1 - Dorãçndia (12) 466m	7515142,659	608559,422	-22,46660722	-43,94483575
ROTA 1 - Dorãçndia (12) 466m	7515171,723	608582,349	-22,46634323	-43,94461491
ROTA 1 - Dorãçndia (12) 466m	7515177,02	608588,191	-22,46629502	-43,9445585
ROTA 1 - Dorãçndia (12) 466m	7515177,409	608597,2	-22,46629093	-43,94447097
ROTA 1 - Dorãçndia (12) 466m	7515169,99	608623,817	-22,46635626	-43,94421179
ROTA 1 - Dorãçndia (12) 466m	7515171,831	608637,972	-22,46633873	-43,94407435
ROTA 1 - Dorãçndia (12) 466m	7515194,53	608649,703	-22,46613295	-43,9439619
ROTA 1 - Dorãçndia (12) 466m	7515236,664	608665,696	-22,46575136	-43,94380936
ROTA 1 - Dorãçndia (12) 466m	7515272,988	608686,885	-22,46542191	-43,94360592
ROTA 1 - Dorãçndia (13) 147m	7515177,224	608588,192	-22,46629318	-43,9445585
ROTA 1 - Dorãçndia (13) 147m	7515193,75	608587,035	-22,46614398	-43,94457088
ROTA 1 - Dorãçndia (13) 147m	7515212,519	608586,685	-22,46597447	-43,94457557
ROTA 1 - Dorãçndia (13) 147m	7515225,965	608586,728	-22,46585302	-43,94457607
ROTA 1 - Dorãçndia (13) 147m	7515239,509	608594,448	-22,46573019	-43,94450197
ROTA 1 - Dorãçndia (13) 147m	7515255,206	608606,905	-22,46558762	-43,94438198
ROTA 1 - Dorãçndia (13) 147m	7515271,061	608624,917	-22,46544326	-43,94420802
ROTA 1 - Dorãçndia (13) 147m	7515287,03	608641,46	-22,46529797	-43,94404834
ROTA 1 - Dorãçndia (13) 147m	7515300,058	608650,45	-22,46517972	-43,94396186

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - Dorãçndia (14) 149m	7515057,767	608733,096	-22,46736296	-43,94314209
ROTA 1 - Dorãçndia (14) 149m	7515056,45	608751,734	-22,46737366	-43,94296087
ROTA 1 - Dorãçndia (14) 149m	7515056,975	608764,204	-22,46736812	-43,94283971
ROTA 1 - Dorãçndia (14) 149m	7515062,086	608776,056	-22,46732121	-43,94272488
ROTA 1 - Dorãçndia (14) 149m	7515063,793	608792,214	-22,46730476	-43,94256797
ROTA 1 - Dorãçndia (14) 149m	7515061,626	608806,109	-22,46732345	-43,94243278
ROTA 1 - Dorãçndia (14) 149m	7515059,998	608820,122	-22,46733726	-43,94229648
ROTA 1 - Dorãçndia (14) 149m	7515055,355	608838,92	-22,467378	-43,94211347
ROTA 1 - Dorãçndia (14) 149m	7515048,211	608879,226	-22,46743996	-43,94172127
ROTA 1 - Dorãçndia (15) 93m	7515060,153	608819,855	-22,46733587	-43,94229909
ROTA 1 - Dorãçndia (15) 93m	7515073,726	608802,775	-22,46721437	-43,942466
ROTA 1 - Dorãçndia (15) 93m	7515083,745	608783,901	-22,46712507	-43,94265012
ROTA 1 - Dorãçndia (15) 93m	7515097,209	608766,019	-22,4670046	-43,94282483
ROTA 1 - Dorãçndia (15) 93m	7515106,062	608740,018	-22,46692629	-43,94307812
ROTA 1 - Dorãçndia (16) 58m	7515097,293	608766,34	-22,46700382	-43,94282172
ROTA 1 - Dorãçndia (16) 58m	7515090,297	608796,88	-22,46706507	-43,94252443
ROTA 1 - Dorãçndia (16) 58m	7515082,439	608822,398	-22,46713441	-43,9422759
ROTA 1 - Dorãçndia (17) 266m	7515057,758	608732,765	-22,46736305	-43,94314531
ROTA 1 - Dorãçndia (17) 266m	7515042,134	608731,218	-22,46750428	-43,94315927
ROTA 1 - Dorãçndia (17) 266m	7515026,906	608726,107	-22,46764215	-43,94320789
ROTA 1 - Dorãçndia (17) 266m	7515000,84	608712,607	-22,46787845	-43,94333731
ROTA 1 - Dorãçndia (17) 266m	7514991,655	608712,043	-22,46796146	-43,94334216
ROTA 1 - Dorãçndia (17) 266m	7514985,404	608728,465	-22,46801687	-43,94318213
ROTA 1 - Dorãçndia (17) 266m	7514983,115	608742,946	-22,46803662	-43,94304125
ROTA 1 - Dorãçndia (17) 266m	7514977,027	608769,618	-22,46808991	-43,94278162
ROTA 1 - Dorãçndia (17) 266m	7514973,196	608785,521	-22,4681235	-43,94262679
ROTA 1 - Dorãçndia (17) 266m	7514965,061	608804,928	-22,46819575	-43,94243763
ROTA 1 - Dorãçndia (17) 266m	7514960,547	608815,453	-22,46823585	-43,94233503
ROTA 1 - Dorãçndia (17) 266m	7514947,452	608833,397	-22,46835298	-43,94215975
ROTA 1 - Dorãçndia (17) 266m	7514932,26	608849,078	-22,46848921	-43,94200631
ROTA 1 - Dorãçndia (17) 266m	7514917,869	608861,888	-22,46861837	-43,94188083
ROTA 1 - Dorãçndia (17) 266m	7514927,704	608884,038	-22,46852813	-43,94166624
ROTA 1 - Dorãçndia (18) 1,057m	7514047,283	608654,36	-22,47649516	-43,94383808
ROTA 1 - Dorãçndia (18) 1,057m	7514029,372	608628,995	-22,47665856	-43,94408338
ROTA 1 - Dorãçndia (18) 1,057m	7514021,721	608615,617	-22,47672852	-43,94421288
ROTA 1 - Dorãçndia (18) 1,057m	7514015,909	608580,779	-22,47678323	-43,94455107
ROTA 1 - Dorãçndia (18) 1,057m	7514011,473	608549,284	-22,47682531	-43,94485688
ROTA 1 - Dorãçndia (18) 1,057m	7514010,412	608534,207	-22,47683585	-43,94500334
ROTA 1 - Dorãçndia (18) 1,057m	7514014,756	608514,939	-22,47679784	-43,94519091
ROTA 1 - Dorãçndia (18) 1,057m	7514013,175	608485,751	-22,47681397	-43,94547447
ROTA 1 - Dorãçndia (18) 1,057m	7514007,842	608463,245	-22,47686357	-43,94569285
ROTA 1 - Dorãçndia (18) 1,057m	7513994,698	608432,724	-22,47698424	-43,94598859
ROTA 1 - Dorãçndia (18) 1,057m	7513979,524	608395,767	-22,47712364	-43,94634674
ROTA 1 - Dorãçndia (18) 1,057m	7513960,306	608375,94	-22,47729849	-43,94653813
ROTA 1 - Dorãçndia (18) 1,057m	7513953,964	608377,166	-22,47735569	-43,94652578



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513936,355	608389,948	-22,47751394	-43,94640035
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513936,876	608401,072	-22,47750852	-43,94629228
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513936,67	608413,086	-22,47750962	-43,94617549
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513921,091	608433,563	-22,47764903	-43,94597541
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513931,247	608475,238	-22,47755466	-43,94557106
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513944,407	608531,053	-22,47743223	-43,94502948
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513965,739	608623,254	-22,47723369	-43,94413482
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513865,868	608566,767	-22,47813937	-43,94467699
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513869,086	608545,948	-22,47811163	-43,94487955
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513865,119	608512,741	-22,47814957	-43,94520203
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513859,907	608483,873	-22,47819848	-43,94548225
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513856,136	608466,429	-22,47823365	-43,94565154
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513820,519	608452,656	-22,47855624	-43,94578296
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513725,188	608454,969	-22,47941717	-43,94575396
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513668,179	608456,506	-22,479932	-43,94573513
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513658,698	608452,391	-22,48001791	-43,94577447
ROTA 1 - DorÃ¢ndia (18) 1,057m	7513646,874	608387,698	-22,48012881	-43,94640244
ROTA 1 - DorÃ¢ndia (19) 271m	7513725,546	608455,308	-22,47941391	-43,94575069
ROTA 1 - DorÃ¢ndia (19) 271m	7513724,359	608444,549	-22,47942532	-43,94585518
ROTA 1 - DorÃ¢ndia (19) 271m	7513720,449	608397,291	-22,47946364	-43,94631422
ROTA 1 - DorÃ¢ndia (19) 271m	7513788,393	608381,59	-22,47885093	-43,94647147
ROTA 1 - DorÃ¢ndia (19) 271m	7513811,972	608385,814	-22,47863768	-43,94643203
ROTA 1 - DorÃ¢ndia (19) 271m	7513921,718	608432,07	-22,47764347	-43,94598996
ROTA 1 - V, Alegre (20) 3,504m	7513866,246	608566,439	-22,47813597	-43,9446802
ROTA 1 - V, Alegre (20) 3,504m	7513820,25	608539,141	-22,47855317	-43,94494238
ROTA 1 - V, Alegre (20) 3,504m	7513770,505	608521,277	-22,47900362	-43,94511259
ROTA 1 - V, Alegre (20) 3,504m	7513735,923	608520,873	-22,47931602	-43,94511415
ROTA 1 - V, Alegre (20) 3,504m	7513684,176	608526,118	-22,47978309	-43,94505963
ROTA 1 - V, Alegre (20) 3,504m	7513659,695	608525,604	-22,48000425	-43,94506295
ROTA 1 - V, Alegre (20) 3,504m	7513617,705	608505,011	-22,48038483	-43,94526024
ROTA 1 - V, Alegre (20) 3,504m	7513562,286	608483,924	-22,48088674	-43,94546139
ROTA 1 - V, Alegre (20) 3,504m	7513504,219	608476,301	-22,48141172	-43,94553151
ROTA 1 - V, Alegre (20) 3,504m	7513430,176	608499,343	-22,48207905	-43,94530249
ROTA 1 - V, Alegre (20) 3,504m	7513394,673	608515,991	-22,48239867	-43,94513825
ROTA 1 - V, Alegre (20) 3,504m	7513356,419	608508,957	-22,48274464	-43,94520399
ROTA 1 - V, Alegre (20) 3,504m	7513322,866	608459,643	-22,48305084	-43,94568102
ROTA 1 - V, Alegre (20) 3,504m	7513287,554	608454,309	-22,48337014	-43,94573044
ROTA 1 - V, Alegre (20) 3,504m	7513229,284	608459,739	-22,48389612	-43,94567368
ROTA 1 - V, Alegre (20) 3,504m	7513159,129	608462,819	-22,48452959	-43,94563894
ROTA 1 - V, Alegre (20) 3,504m	7513135,925	608478,859	-22,48473816	-43,94548145
ROTA 1 - V, Alegre (20) 3,504m	7513118,505	608499,177	-22,48489422	-43,94528277
ROTA 1 - V, Alegre (20) 3,504m	7513091,019	608517,372	-22,48514133	-43,94510404
ROTA 1 - V, Alegre (20) 3,504m	7513040,029	608522,53	-22,48560157	-43,94505042
ROTA 1 - V, Alegre (20) 3,504m	7512997,142	608535,632	-22,48598811	-43,94492014
ROTA 1 - V, Alegre (20) 3,504m	7512925,569	608573,585	-22,48663217	-43,94454634

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - V, Alegre (20) 3,504m	7512904,924	608615,014	-22,48681601	-43,94414224
ROTA 1 - V, Alegre (20) 3,504m	7512903,785	608617,58	-22,48682614	-43,94411722
ROTA 1 - V, Alegre (20) 3,504m	7512901,367	608658,73	-22,48684536	-43,94371709
ROTA 1 - V, Alegre (20) 3,504m	7512907,483	608733,615	-22,48678535	-43,94298963
ROTA 1 - V, Alegre (20) 3,504m	7512879,846	608839,698	-22,48702821	-43,94195662
ROTA 1 - V, Alegre (20) 3,504m	7512803,064	608885,309	-22,48771884	-43,94150803
ROTA 1 - V, Alegre (20) 3,504m	7512783,989	608900,689	-22,48789015	-43,94135722
ROTA 1 - V, Alegre (20) 3,504m	7512775,331	608941,728	-22,48796573	-43,94095773
ROTA 1 - V, Alegre (20) 3,504m	7512773,125	608972,521	-22,48798369	-43,94065827
ROTA 1 - V, Alegre (20) 3,504m	7512740,668	608973,343	-22,4882768	-43,94064806
ROTA 1 - V, Alegre (20) 3,504m	7512699,061	608972,227	-22,48865269	-43,94065604
ROTA 1 - V, Alegre (20) 3,504m	7512651,199	608962,344	-22,48908564	-43,94074881
ROTA 1 - V, Alegre (20) 3,504m	7512607,976	608973,897	-22,4894753	-43,94063355
ROTA 1 - V, Alegre (20) 3,504m	7512605,868	608974,731	-22,48949429	-43,94062529
ROTA 1 - V, Alegre (20) 3,504m	7512563,678	608988,618	-22,48987449	-43,94048741
ROTA 1 - V, Alegre (20) 3,504m	7512538,965	608995,1	-22,49009729	-43,9404227
ROTA 1 - V, Alegre (20) 3,504m	7512510,618	608978,786	-22,49035438	-43,94057933
ROTA 1 - V, Alegre (20) 3,504m	7512507,002	608975,409	-22,49038725	-43,94061191
ROTA 1 - V, Alegre (20) 3,504m	7512503,768	608973,712	-22,49041658	-43,94062818
ROTA 1 - V, Alegre (20) 3,504m	7512501,606	608972,865	-22,49043615	-43,94063626
ROTA 1 - V, Alegre (20) 3,504m	7512487,414	608965,134	-22,49056483	-43,94071044
ROTA 1 - V, Alegre (20) 3,504m	7512469,49	608956,396	-22,49072729	-43,94079413
ROTA 1 - V, Alegre (20) 3,504m	7512435,043	608984,156	-22,49103666	-43,94052194
ROTA 1 - V, Alegre (20) 3,504m	7512425,331	609028,615	-22,49112155	-43,94008912
ROTA 1 - V, Alegre (20) 3,504m	7512401,554	609070,031	-22,49133366	-43,93968492
ROTA 1 - V, Alegre (20) 3,504m	7512373,678	609076,697	-22,49158502	-43,93961821
ROTA 1 - V, Alegre (20) 3,504m	7512347,706	609077,318	-22,49181957	-43,93961038
ROTA 1 - V, Alegre (20) 3,504m	7512314,755	609093,044	-22,4921162	-43,93945525
ROTA 1 - V, Alegre (20) 3,504m	7512279,079	609116,533	-22,49243693	-43,93922448
ROTA 1 - V, Alegre (20) 3,504m	7512278,008	609117,294	-22,49244657	-43,939217
ROTA 1 - V, Alegre (20) 3,504m	7512220,819	609122,934	-22,49296276	-43,93915825
ROTA 1 - V, Alegre (20) 3,504m	7512149,968	609111,947	-22,49360342	-43,93926017
ROTA 1 - V, Alegre (20) 3,504m	7512102,825	609107,323	-22,49402953	-43,93930187
ROTA 1 - V, Alegre (20) 3,504m	7512040,065	609098,693	-22,49459696	-43,93938143
ROTA 1 - V, Alegre (20) 3,504m	7511989,882	609106,593	-22,49504973	-43,93930118
ROTA 1 - V, Alegre (20) 3,504m	7511956,571	609132,713	-22,49534894	-43,93904499
ROTA 1 - V, Alegre (20) 3,504m	7511927,57	609191,889	-22,4956071	-43,93846778
ROTA 1 - V, Alegre (20) 3,504m	7511925,69	609258,211	-22,49561984	-43,93782297
ROTA 1 - V, Alegre (20) 3,504m	7511941,275	609345,429	-22,49547347	-43,93697625
ROTA 1 - V, Alegre (20) 3,504m	7511943,857	609435,429	-22,49544438	-43,93610159
ROTA 1 - V, Alegre (20) 3,504m	7511970,565	609508,022	-22,49519848	-43,93539781
ROTA 1 - V, Alegre (20) 3,504m	7511970,31	609509,163	-22,49520071	-43,9353867
ROTA 1 - V, Alegre (20) 3,504m	7511973,504	609569,927	-22,49516796	-43,93479627
ROTA 1 - V, Alegre (20) 3,504m	7511915,108	609637,895	-22,49569104	-43,93413155
ROTA 1 - V, Alegre (20) 3,504m	7511848,078	609668,504	-22,49629452	-43,93382938

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU


MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA


CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - V, Alegre (20) 3,504m	7511741,486	609666,391	-22,49725744	-43,93384254
ROTA 1 - V, Alegre (20) 3,504m	7511694,387	609652,213	-22,49768378	-43,9339771
ROTA 1 - V, Alegre (20) 3,504m	7511681,011	609631,515	-22,49780593	-43,93417736
ROTA 1 - V, Alegre (20) 3,504m	7511666,867	609560,418	-22,49793825	-43,93486749
ROTA 1 - V, Alegre (20) 3,504m	7511663,593	609546,976	-22,49796869	-43,93499793
ROTA 1 - V, Alegre (20) 3,504m	7511652,658	609507,054	-22,49807002	-43,93538525
ROTA 1 - V, Alegre (20) 3,504m	7511636,128	609459,649	-22,49822237	-43,93584491
ROTA 1 - V, Alegre (20) 3,504m	7511622,904	609420,228	-22,49834434	-43,93622719
ROTA 1 - V, Alegre (20) 3,504m	7511597,758	609348,341	-22,49857609	-43,93692423
ROTA 1 - V, Alegre (21) 199m	7512105,293	609107,069	-22,49400725	-43,93930451
ROTA 1 - V, Alegre (21) 199m	7512106,569	609093,649	-22,49399659	-43,93943504
ROTA 1 - V, Alegre (21) 199m	7512113,362	609040,113	-22,49393866	-43,9399559
ROTA 1 - V, Alegre (21) 199m	7512120,475	609034,028	-22,4938748	-43,94001553
ROTA 1 - V, Alegre (21) 199m	7512131,182	609038,302	-22,49377782	-43,93997472
ROTA 1 - V, Alegre (21) 199m	7512145,866	609045,254	-22,49364474	-43,93990816
ROTA 1 - V, Alegre (21) 199m	7512161,395	609061,733	-22,49350341	-43,93974905
ROTA 1 - V, Alegre (21) 199m	7512203,533	609119,702	-22,4931191	-43,93918847
ROTA 1 - V, Alegre (22) 84,9m	7512113,997	609039,915	-22,49393294	-43,93995786
ROTA 1 - V, Alegre (22) 84,9m	7512029,829	609028,645	-22,4946939	-43,94006162
ROTA 1 - V, Alegre (23) 112m	7512120,131	609034,044	-22,4938779	-43,94001536
ROTA 1 - V, Alegre (23) 112m	7512070,975	609007,472	-22,4943236	-43,94027026
ROTA 1 - V, Alegre (23) 112m	7512060,102	608990,448	-22,4944229	-43,94043499
ROTA 1 - V, Alegre (23) 112m	7512048,671	608956,83	-22,4945283	-43,94076098
ROTA 1 - V, Alegre (24) 703m	7511667,942	609564,72	-22,49792827	-43,93482575
ROTA 1 - V, Alegre (24) 703m	7511658,959	609558,245	-22,49800982	-43,93488807
ROTA 1 - V, Alegre (24) 703m	7511637,801	609557,486	-22,49820098	-43,93489398
ROTA 1 - V, Alegre (24) 703m	7511593,714	609569,853	-22,4985984	-43,93477072
ROTA 1 - V, Alegre (24) 703m	7511467,972	609604,657	-22,49973192	-43,93442371
ROTA 1 - V, Alegre (24) 703m	7511472,837	609620,746	-22,49968694	-43,93426764
ROTA 1 - V, Alegre (24) 703m	7511483,906	609653,156	-22,49958488	-43,93395337
ROTA 1 - V, Alegre (24) 703m	7511424,387	609692,398	-22,50011995	-43,93356778
ROTA 1 - V, Alegre (24) 703m	7511379,669	609718,547	-22,50052218	-43,9333105
ROTA 1 - V, Alegre (24) 703m	7511272,269	609779,05	-22,50148837	-43,93271492
ROTA 1 - V, Alegre (24) 703m	7511439,753	609882,012	-22,49996894	-43,93172566
ROTA 1 - V, Alegre (24) 129m	7511439,753	609882,012	-22,49996894	-43,93172566
ROTA 1 - V, Alegre (24) 129m	7511465,595	609917,761	-22,49973323	-43,93137994
ROTA 1 - V, Alegre (24) 129m	7511517,925	609984,414	-22,49925626	-43,93073567
ROTA 1 - V, Alegre (25) 112m	7511379,788	609718,399	-22,50052112	-43,93331194
ROTA 1 - V, Alegre (25) 112m	7511472,108	609781,507	-22,49968318	-43,93270489
ROTA 1 - V, Alegre (26) 461m	7511440,539	609882,577	-22,49996181	-43,93172023
ROTA 1 - V, Alegre (26) 461m	7511471,836	609906,527	-22,49967758	-43,93148958
ROTA 1 - V, Alegre (26) 461m	7511498,242	609934,056	-22,4994373	-43,93122381
ROTA 1 - V, Alegre (26) 461m	7511498,412	609934,379	-22,49943574	-43,93122068
ROTA 1 - V, Alegre (26) 461m	7511534,804	609976,197	-22,49910433	-43,93081672
ROTA 1 - V, Alegre (26) 461m	7511556,795	610017,956	-22,49890301	-43,93041231


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - V, Alegre (26) 461m	7511580,152	610064,686	-22,49868902	-43,92995969
ROTA 1 - V, Alegre (26) 461m	7511594,298	610094,84	-22,4985593	-43,92966756
ROTA 1 - V, Alegre (26) 461m	7511715,934	610247,476	-22,49745077	-43,92819231
ROTA 1 - V, Alegre (27) 196m	7511272,782	609779,178	-22,50148373	-43,93271371
ROTA 1 - V, Alegre (27) 196m	7511256,707	609782,206	-22,50162873	-43,93268316
ROTA 1 - V, Alegre (27) 196m	7511214,182	609766,019	-22,50201388	-43,93283757
ROTA 1 - V, Alegre (27) 196m	7511209,574	609763,648	-22,50205565	-43,9328603
ROTA 1 - V, Alegre (27) 196m	7511311,656	609699,152	-22,50113776	-43,93349432
ROTA 1 - V, Alegre (27) 196m	7511307,382	609692,255	-22,5011768	-43,93356107
ROTA 1 - V, Alegre (27) 574m	7511307,382	609692,255	-22,5011768	-43,93356107
ROTA 1 - V, Alegre (27) 574m	7511149,537	609790,078	-22,50259623	-43,93259921
ROTA 1 - V, Alegre (27) 574m	7511112,292	609797,03	-22,50293219	-43,93252905
ROTA 1 - V, Alegre (27) 574m	7511086,973	609789,76	-22,50316135	-43,93259796
ROTA 1 - V, Alegre (27) 574m	7511025,625	609738,12	-22,5037188	-43,9330957
ROTA 1 - V, Alegre (27) 574m	7510997,175	609717,377	-22,50397711	-43,93329538
ROTA 1 - V, Alegre (27) 574m	7510885,504	609730,908	-22,5049849	-43,9331561
ROTA 1 - V, Alegre (27) 574m	7510790,132	609743,432	-22,50584553	-43,93302775
ROTA 1 - V, Alegre (28) 81,6m	7510888,038	609730,631	-22,50496203	-43,93315897
ROTA 1 - V, Alegre (28) 81,6m	7510842,868	609701,204	-22,50537191	-43,93344191
ROTA 1 - V, Alegre (28) 81,6m	7510819,707	609686,048	-22,5055821	-43,93358763
ROTA 1 - V, Alegre (28) 127m	7510819,707	609686,048	-22,5055821	-43,93358763
ROTA 1 - V, Alegre (28) 127m	7510753,736	609692,906	-22,50617753	-43,9335164
ROTA 1 - V, Alegre (28) 127m	7510708,747	609698,394	-22,50658353	-43,93345993
ROTA 1 - V, Alegre (28) 127m	7510694,963	609706,051	-22,50670755	-43,93338454
ROTA 1 - V, Alegre (29) 387m	7510819,644	609686,318	-22,50558264	-43,933585
ROTA 1 - V, Alegre (29) 387m	7510779,649	609660,583	-22,50594556	-43,9338324
ROTA 1 - V, Alegre (29) 387m	7510712,185	609619,23	-22,50655757	-43,93422973
ROTA 1 - V, Alegre (29) 387m	7510668,96	609670,115	-22,50694474	-43,93373208
ROTA 1 - V, Alegre (29) 387m	7510614,788	609734,467	-22,50742989	-43,93310275
ROTA 1 - V, Alegre (29) 387m	7510610,226	609745,908	-22,50747036	-43,93299121
ROTA 1 - V, Alegre (29) 387m	7510626,002	609805,609	-22,50732402	-43,93241193
ROTA 1 - V, Alegre (29) 387m	7510635,423	609839,079	-22,50723677	-43,93208721
ROTA 1 - V, Alegre (29) 101m	7510635,491	609839,032	-22,50723616	-43,93208768
ROTA 1 - V, Alegre (29) 101m	7510641,343	609861,385	-22,50718187	-43,93187078
ROTA 1 - V, Alegre (29) 101m	7510654,89	609883,206	-22,50705809	-43,9316596
ROTA 1 - V, Alegre (29) 101m	7510665,662	609897,185	-22,50695989	-43,93152446
ROTA 1 - V, Alegre (29) 101m	7510666,033	609931,48	-22,50695433	-43,9311911
ROTA 1 - V, Alegre (30) 138m	7510635,327	609839,077	-22,50723763	-43,93208723
ROTA 1 - V, Alegre (30) 138m	7510649,817	609817,893	-22,50710812	-43,93229417
ROTA 1 - V, Alegre (30) 138m	7510664,577	609789,142	-22,50697665	-43,93257469
ROTA 1 - V, Alegre (30) 138m	7510667,2	609778,342	-22,50695366	-43,93267986
ROTA 1 - V, Alegre (30) 138m	7510616,611	609732,276	-22,50741356	-43,93312417
ROTA 1 - V, Alegre (31) 86,6m	7510615,304	609733,919	-22,50742527	-43,93310811
ROTA 1 - V, Alegre (31) 86,6m	7510560,28	609800,817	-22,50791796	-43,93245396
ROTA 1 - V, Alegre (32) 243m	7510616,735	609732,032	-22,50741246	-43,93312655


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - V, Alegre (32) 243m	7510598,91	609721,309	-22,50757416	-43,93322955
ROTA 1 - V, Alegre (32) 243m	7510587,083	609718,736	-22,50768115	-43,93325375
ROTA 1 - V, Alegre (32) 243m	7510556,481	609730,375	-22,50795681	-43,93313848
ROTA 1 - V, Alegre (32) 243m	7510519,147	609730,778	-22,508294	-43,93313198
ROTA 1 - V, Alegre (32) 243m	7510491,699	609732,108	-22,50854184	-43,93311715
ROTA 1 - V, Alegre (32) 243m	7510465,298	609748,712	-22,50877924	-43,9329539
ROTA 1 - V, Alegre (32) 243m	7510389,612	609777,437	-22,50946101	-43,93266941
ROTA 1 - V, Alegre (33) 517m	7510668,719	609671,341	-22,50694683	-43,93372014
ROTA 1 - V, Alegre (33) 517m	7510645,125	609658,083	-22,50716079	-43,93384739
ROTA 1 - V, Alegre (33) 517m	7510593,64	609631,381	-22,50762755	-43,93410341
ROTA 1 - V, Alegre (33) 517m	7510571,59	609647,823	-22,50782565	-43,93394204
ROTA 1 - V, Alegre (33) 517m	7510554,04	609648,306	-22,50798414	-43,93393613
ROTA 1 - V, Alegre (33) 517m	7510509,817	609632,946	-22,50838457	-43,93408238
ROTA 1 - V, Alegre (33) 517m	7510478,694	609614,089	-22,5086669	-43,93426355
ROTA 1 - V, Alegre (33) 517m	7510473,844	609607,892	-22,50871111	-43,93432345
ROTA 1 - V, Alegre (33) 517m	7510486,922	609595,212	-22,50859379	-43,93444762
ROTA 1 - V, Alegre (33) 517m	7510499,888	609579,608	-22,50847768	-43,93460021
ROTA 1 - V, Alegre (33) 517m	7510512,733	609565,86	-22,50836255	-43,93473475
ROTA 1 - V, Alegre (33) 517m	7510525,88	609540,13	-22,50824545	-43,93498579
ROTA 1 - V, Alegre (33) 517m	7510546,114	609516,905	-22,50806419	-43,93521297
ROTA 1 - V, Alegre (33) 517m	7510637,097	609575,683	-22,50723861	-43,93464786
ROTA 1 - V, Alegre (33) 517m	7510593,64	609631,381	-22,50762755	-43,93410341
ROTA 1 - V, Alegre (34) 224m	7510681,103	609523,932	-22,50684446	-43,935154
ROTA 1 - V, Alegre (34) 224m	7510637,27	609575,789	-22,50723704	-43,93464684
ROTA 1 - V, Alegre (34) 224m	7510712,181	609618,964	-22,50655763	-43,93423232
ROTA 1 - V, Alegre (34) 224m	7510752,874	609562,606	-22,5061937	-43,934783
ROTA 1 - V, Alegre (35) 481m	7510546,657	609516,952	-22,50805927	-43,93521255
ROTA 1 - V, Alegre (35) 481m	7510590,072	609465,362	-22,50767044	-43,93571707
ROTA 1 - V, Alegre (35) 481m	7510492,702	609406,96	-22,50855369	-43,93627808
ROTA 1 - V, Alegre (35) 481m	7510439,142	609366,129	-22,50904009	-43,93667132
ROTA 1 - V, Alegre (35) 481m	7510361,026	609283,41	-22,50975097	-43,93747006
ROTA 1 - V, Alegre (35) 481m	7510302,956	609193,456	-22,51028125	-43,93834054
ROTA 1 - V, Alegre (35) 481m	7510298,099	609183,087	-22,51032579	-43,93844101
ROTA 1 - V, Alegre (36) 1,931m	7510589,808	609465,271	-22,50767284	-43,93571794
ROTA 1 - V, Alegre (36) 1,931m	7510680,806	609521,214	-22,50684731	-43,9351804
ROTA 1 - V, Alegre (36) 1,931m	7510752,266	609561,26	-22,50619927	-43,93479604
ROTA 1 - V, Alegre (36) 1,931m	7510986,328	609708,346	-22,50407566	-43,93338241
ROTA 1 - V, Alegre (36) 1,931m	7510990,415	609719,116	-22,50403806	-43,933278
ROTA 1 - V, Alegre (36) 1,931m	7511002,612	609822,298	-22,50392124	-43,93227582
ROTA 1 - V, Alegre (36) 1,931m	7511105,936	609812,351	-22,50298862	-43,93237967
ROTA 1 - V, Alegre (36) 1,931m	7511117,348	609916,278	-22,50287884	-43,9313702
ROTA 1 - V, Alegre (36) 1,931m	7511015,312	609921,776	-22,50380012	-43,93130967
ROTA 1 - V, Alegre (36) 1,931m	7510991,502	609922,447	-22,50401513	-43,93130149
ROTA 1 - V, Alegre (36) 1,931m	7510970,054	609924,452	-22,50420873	-43,93128052
ROTA 1 - V, Alegre (36) 1,931m	7510939,209	609930,044	-22,50448698	-43,93122402


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - V, Alegre (36) 1,931m	7510917,747	609936,573	-22,50468041	-43,93115906
ROTA 1 - V, Alegre (36) 1,931m	7510913,339	609942,864	-22,50471983	-43,9310976
ROTA 1 - V, Alegre (36) 1,931m	7510911,171	609965,313	-22,50473795	-43,93087922
ROTA 1 - V, Alegre (36) 1,931m	7510913,847	610026,031	-22,50470986	-43,93028916
ROTA 1 - V, Alegre (36) 1,931m	7510924,445	610053,926	-22,50461234	-43,93001873
ROTA 1 - V, Alegre (36) 1,931m	7510952,47	610058,283	-22,50435893	-43,92997832
ROTA 1 - V, Alegre (36) 1,931m	7511030,733	610042,078	-22,50365307	-43,93014129
ROTA 1 - V, Alegre (36) 1,931m	7511093,617	610034,685	-22,50308555	-43,93021753
ROTA 1 - V, Alegre (36) 1,931m	7511213,292	610013,695	-22,50200595	-43,93042988
ROTA 1 - V, Alegre (36) 1,931m	7511291,31	609886,766	-22,50130944	-43,93166915
ROTA 1 - V, Alegre (36) 1,931m	7511426,005	609974,917	-22,50008713	-43,9308216
ROTA 1 - V, Alegre (36) 1,931m	7511258,08	610008,298	-22,50160175	-43,93048546
ROTA 1 - V, Alegre (36) 1,931m	7511213,635	610013,683	-22,50200286	-43,93043002
ROTA 1 - V, Alegre (37) 164m	7511258,777	610007,856	-22,50159549	-43,9304898
ROTA 1 - V, Alegre (37) 164m	7511278,755	610085,305	-22,50141004	-43,92973832
ROTA 1 - V, Alegre (37) 164m	7511314,065	610161,121	-22,5010862	-43,92900378
ROTA 1 - V, Alegre (38) 383m	7511091,395	610034,824	-22,50310561	-43,93021602
ROTA 1 - V, Alegre (38) 383m	7511052,088	610113,053	-22,50345559	-43,92945283
ROTA 1 - V, Alegre (38) 383m	7511041,763	610133,937	-22,50354751	-43,9292491
ROTA 1 - V, Alegre (38) 383m	7511011,507	610160,721	-22,50381906	-43,92898662
ROTA 1 - V, Alegre (38) 383m	7510981,442	610204,767	-22,50408777	-43,92855636
ROTA 1 - V, Alegre (38) 383m	7510952,298	610246,04	-22,50434835	-43,92815313
ROTA 1 - V, Alegre (38) 383m	7510935,047	610253,152	-22,5045037	-43,92808279
ROTA 1 - V, Alegre (38) 383m	7510884,418	610260,924	-22,5049605	-43,9280037
ROTA 1 - V, Alegre (38) 383m	7510854,421	610264,414	-22,50523122	-43,9279677
ROTA 1 - V, Alegre (38) 383m	7510826,715	610264,225	-22,50548149	-43,9279676
ROTA 1 - V, Alegre (39) 287m	7511040,784	610136,012	-22,50355621	-43,92922886
ROTA 1 - V, Alegre (39) 287m	7511052,217	610304,648	-22,50344204	-43,92759035
ROTA 1 - V, Alegre (39) 287m	7511063,06	610422,369	-22,50333648	-43,92644675
ROTA 1 - V, Alegre (39) 372m	7511062,839	610422,654	-22,50333846	-43,92644396
ROTA 1 - V, Alegre (39) 372m	7511051,914	610432,746	-22,50343649	-43,9263451
ROTA 1 - V, Alegre (39) 372m	7511033,575	610431,806	-22,50360219	-43,92635295
ROTA 1 - V, Alegre (39) 372m	7511016,762	610427,338	-22,50375434	-43,92639522
ROTA 1 - V, Alegre (39) 372m	7510982,421	610407,55	-22,5040658	-43,92658518
ROTA 1 - V, Alegre (39) 372m	7510955,906	610394,718	-22,50430614	-43,92670807
ROTA 1 - V, Alegre (39) 372m	7510913,063	610392,589	-22,50469324	-43,92672578
ROTA 1 - V, Alegre (39) 372m	7510845,703	610396,348	-22,50530143	-43,92668455
ROTA 1 - V, Alegre (39) 372m	7510799,022	610402,362	-22,50572268	-43,92662282
ROTA 1 - V, Alegre (39) 372m	7510779,729	610407,787	-22,50589659	-43,92656875
ROTA 1 - V, Alegre (39) 372m	7510763,695	610405,478	-22,50604156	-43,92659007
ROTA 1 - V, Alegre (39) 372m	7510744,599	610399,387	-22,50621445	-43,92664796
ROTA 1 - V, Alegre (39) 372m	7510706,187	610397,289	-22,50656153	-43,92666567
ROTA 1 - V, Alegre (40) 1,401m	7511063,127	610422,799	-22,50333585	-43,92644258
ROTA 1 - V, Alegre (40) 1,401m	7511067,832	610435,559	-22,50329253	-43,92631886
ROTA 1 - V, Alegre (40) 1,401m	7511070,308	610449,964	-22,50326923	-43,926179

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - V, Alegre (40) 1,401m	7511081,704	610451,674	-22,50316618	-43,92616318
ROTA 1 - V, Alegre (40) 1,401m	7511117,497	610411,191	-22,50284551	-43,9265592
ROTA 1 - V, Alegre (40) 1,401m	7511144,592	610373,564	-22,50260322	-43,92692686
ROTA 1 - V, Alegre (40) 1,401m	7511175,124	610331,325	-22,50233017	-43,92733958
ROTA 1 - V, Alegre (40) 1,401m	7511200,689	610312,383	-22,50210048	-43,92752551
ROTA 1 - V, Alegre (40) 1,401m	7511252,084	610288,816	-22,50163779	-43,92775817
ROTA 1 - V, Alegre (40) 1,401m	7511303,34	610274,313	-22,50117576	-43,92790273
ROTA 1 - V, Alegre (40) 1,401m	7511357,632	610276,329	-22,50068524	-43,9278869
ROTA 1 - V, Alegre (40) 1,401m	7511397,449	610295,375	-22,50032437	-43,92770454
ROTA 1 - V, Alegre (40) 1,401m	7511427,255	610303,627	-22,50005461	-43,92762639
ROTA 1 - V, Alegre (40) 1,401m	7511465,861	610306,764	-22,4997057	-43,92759859
ROTA 1 - V, Alegre (40) 1,401m	7511503,201	610301,387	-22,49936877	-43,92765346
ROTA 1 - V, Alegre (40) 1,401m	7511529,909	610294,727	-22,49912797	-43,92772006
ROTA 1 - V, Alegre (40) 1,401m	7511540,335	610299,105	-22,49903352	-43,92767823
ROTA 1 - V, Alegre (40) 1,401m	7511558,355	610315,669	-22,49886968	-43,92751847
ROTA 1 - V, Alegre (40) 1,401m	7511586,945	610320,529	-22,49861113	-43,92747322
ROTA 1 - V, Alegre (40) 1,401m	7511617,555	610321,342	-22,49833459	-43,92746744
ROTA 1 - V, Alegre (40) 1,401m	7511628,696	610307,175	-22,49823488	-43,92760593
ROTA 1 - V, Alegre (40) 1,401m	7511580,872	610158,539	-22,49867646	-43,92904743
ROTA 1 - V, Alegre (40) 1,401m	7511547,069	610163,89	-22,49898143	-43,92899306
ROTA 1 - V, Alegre (40) 1,401m	7511526,328	610168,977	-22,49916845	-43,92894218
ROTA 1 - V, Alegre (40) 1,401m	7511496,605	610188,86	-22,49943563	-43,92874683
ROTA 1 - V, Alegre (40) 1,401m	7511467,006	610188,521	-22,49970301	-43,92874807
ROTA 1 - V, Alegre (40) 1,401m	7511414,937	610197,493	-22,50017273	-43,92865723
ROTA 1 - V, Alegre (40) 1,401m	7511343,561	610206,51	-22,50081685	-43,92856462
ROTA 1 - V, Alegre (40) 1,401m	7511322,703	610210,959	-22,50100496	-43,92851992
ROTA 1 - V, Alegre (40) 1,401m	7511275,677	610236,331	-22,50142808	-43,92827001
ROTA 1 - V, Alegre (40) 1,401m	7511234,392	610263,41	-22,50179923	-43,92800391
ROTA 1 - V, Alegre (40) 1,401m	7511173,676	610305,349	-22,50234493	-43,927592
ROTA 1 - V, Alegre (40) 1,401m	7511161,519	610329,487	-22,50245317	-43,92735651
ROTA 1 - V, Alegre (40) 1,401m	7511155,57	610345,387	-22,50250588	-43,92720153
ROTA 1 - V, Alegre (40) 1,401m	7511142,106	610363,409	-22,50262632	-43,9270254
ROTA 1 - V, Alegre (40) 1,401m	7511131,064	610385,278	-22,50272464	-43,92681204
ROTA 1 - V, Alegre (40) 1,401m	7511117,567	610411,426	-22,50284487	-43,92655692
ROTA 1 - V, Alegre (41) 1,101m	7511070,624	610450,236	-22,50326636	-43,92617639
ROTA 1 - V, Alegre (41) 1,101m	7511069,52	610472,728	-22,50327487	-43,92595766
ROTA 1 - V, Alegre (41) 1,101m	7511069,803	610487,256	-22,50327137	-43,92581646
ROTA 1 - V, Alegre (41) 1,101m	7511069,049	610512,435	-22,50327655	-43,92557164
ROTA 1 - V, Alegre (41) 1,101m	7511062,378	610534,376	-22,50333538	-43,92535789
ROTA 1 - V, Alegre (41) 1,101m	7511055,93	610555,019	-22,50339229	-43,92515677
ROTA 1 - V, Alegre (41) 1,101m	7511057,081	610563,053	-22,50338137	-43,92507875
ROTA 1 - V, Alegre (41) 1,101m	7511061,29	610583,302	-22,50334203	-43,9248822
ROTA 1 - V, Alegre (41) 1,101m	7511076,733	610600,786	-22,50320142	-43,92471333
ROTA 1 - V, Alegre (41) 1,101m	7511092,017	610609,147	-22,50306282	-43,92463312
ROTA 1 - V, Alegre (41) 1,101m	7511119,12	610617,215	-22,5028175	-43,92455658

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - V, Alegre (41) 1,101m	7511159,505	610633,166	-22,50245169	-43,92440435
ROTA 1 - V, Alegre (41) 1,101m	7511178,786	610638,228	-22,5022772	-43,92435648
ROTA 1 - V, Alegre (41) 1,101m	7511216,287	610631,886	-22,50193889	-43,92442075
ROTA 1 - V, Alegre (41) 1,101m	7511246,408	610630,306	-22,50166693	-43,92443821
ROTA 1 - V, Alegre (41) 1,101m	7511311,681	610608,322	-22,50107878	-43,92465647
ROTA 1 - V, Alegre (41) 1,101m	7511366,191	610594,326	-22,50058733	-43,92479633
ROTA 1 - V, Alegre (41) 1,101m	7511420,166	610560,848	-22,50010198	-43,92512553
ROTA 1 - V, Alegre (41) 1,101m	7511466,876	610487,823	-22,4996848	-43,92583864
ROTA 1 - V, Alegre (41) 1,101m	7511487,609	610446,91	-22,49950019	-43,92623779
ROTA 1 - V, Alegre (41) 1,101m	7511501,284	610435,702	-22,4993774	-43,92634769
ROTA 1 - V, Alegre (41) 1,101m	7511580,041	610407,909	-22,49866783	-43,92662334
ROTA 1 - V, Alegre (41) 1,101m	7511652,453	610392,937	-22,49801474	-43,92677393
ROTA 1 - V, Alegre (41) 1,101m	7511660,886	610422,567	-22,49793665	-43,9264865
ROTA 1 - V, Alegre (41) 1,101m	7511673,426	610450,632	-22,49782157	-43,92621457
ROTA 1 - V, Alegre (41) 1,101m	7511689,032	610479,23	-22,49767875	-43,92593766
ROTA 1 - V, Alegre (41) 1,101m	7511711,242	610521,474	-22,49747541	-43,92552858
ROTA 1 - V, Alegre (41) 1,101m	7511723,522	610525,077	-22,49736426	-43,92549441
ROTA 1 - V, Alegre (41) 1,101m	7511783,007	610503,231	-22,49682838	-43,92571092
ROTA 1 - V, Alegre (41) 1,101m	7511795,341	610501,276	-22,4967171	-43,92573078
ROTA 1 - V, Alegre (41) 1,101m	7511787,656	610463,953	-22,49678894	-43,92609304
ROTA 1 - V, Alegre (42) 1,039m	7511717,043	610523,866	-22,49742286	-43,92550574
ROTA 1 - V, Alegre (42) 1,039m	7511718,773	610541,221	-22,49740611	-43,92533715
ROTA 1 - V, Alegre (42) 1,039m	7511732,391	610568,621	-22,49728133	-43,92507176
ROTA 1 - V, Alegre (42) 1,039m	7511744,015	610581,944	-22,49717547	-43,92494307
ROTA 1 - V, Alegre (42) 1,039m	7511756,841	610599,535	-22,49705848	-43,92477297
ROTA 1 - V, Alegre (42) 1,039m	7511766,594	610617,88	-22,4969692	-43,92459533
ROTA 1 - V, Alegre (42) 1,039m	7511770,391	610633,527	-22,49693388	-43,9244435
ROTA 1 - V, Alegre (42) 1,039m	7511767,605	610648,673	-22,49695807	-43,92429608
ROTA 1 - V, Alegre (42) 1,039m	7511758,643	610656,596	-22,4970385	-43,92421843
ROTA 1 - V, Alegre (42) 1,039m	7511740,486	610657,802	-22,49720242	-43,92420544
ROTA 1 - V, Alegre (42) 1,039m	7511717,262	610660,551	-22,49741202	-43,9241771
ROTA 1 - V, Alegre (42) 1,039m	7511695,37	610663,04	-22,49760959	-43,92415138
ROTA 1 - V, Alegre (42) 1,039m	7511682,986	610677,513	-22,4977205	-43,92400982
ROTA 1 - V, Alegre (42) 1,039m	7511654,265	610720,473	-22,49797714	-43,92359022
ROTA 1 - V, Alegre (42) 1,039m	7511639,695	610743,595	-22,49810724	-43,92336445
ROTA 1 - V, Alegre (42) 1,039m	7511605,724	610788,003	-22,49841119	-43,9229304
ROTA 1 - V, Alegre (42) 1,039m	7511578,387	610810,357	-22,49865666	-43,9227112
ROTA 1 - V, Alegre (42) 1,039m	7511507,735	610860,925	-22,49929153	-43,9222147
ROTA 1 - V, Alegre (42) 1,039m	7511472,315	610889,076	-22,49960963	-43,92193857
ROTA 1 - V, Alegre (42) 1,039m	7511457,397	610901,828	-22,49974354	-43,92181358
ROTA 1 - V, Alegre (42) 1,039m	7511445,612	610932,98	-22,49984796	-43,92150993
ROTA 1 - V, Alegre (42) 1,039m	7511436,328	610961,801	-22,49992995	-43,92122912
ROTA 1 - V, Alegre (42) 1,039m	7511412,253	610993,011	-22,50014537	-43,92092405
ROTA 1 - V, Alegre (42) 1,039m	7511387,085	610999,884	-22,50037225	-43,92085548
ROTA 1 - V, Alegre (42) 1,039m	7511363,14	610994,875	-22,50058885	-43,92090249




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - V, Alegre (42) 1,039m	7511329,76	610977,891	-22,50089147	-43,92106525
ROTA 1 - V, Alegre (42) 1,039m	7511323,532	610971,755	-22,50094812	-43,92112446
ROTA 1 - V, Alegre (42) 1,039m	7511296,988	610953,158	-22,50118909	-43,92130338
ROTA 1 - V, Alegre (42) 1,039m	7511268,112	610941,995	-22,50145063	-43,92140986
ROTA 1 - V, Alegre (42) 1,039m	7511215,521	610948,211	-22,50192524	-43,92134576
ROTA 1 - V, Alegre (42) 1,039m	7511178,333	610953,876	-22,50226078	-43,92128808
ROTA 1 - V, Alegre (42) 1,039m	7511147,844	610959,801	-22,50253578	-43,92122835
ROTA 1 - V, Alegre (42) 1,039m	7511112,755	610971,101	-22,50285198	-43,92111605
ROTA 1 - V, Alegre (42) 1,039m	7511063,532	611007,395	-22,50329422	-43,92075979
ROTA 1 - V, Alegre (43) 4,541m	7511795,077	610501,296	-22,49671948	-43,92573057
ROTA 1 - V, Alegre (43) 4,541m	7511826,276	610604,404	-22,49643099	-43,92473049
ROTA 1 - V, Alegre (43) 4,541m	7511851,203	610723,433	-22,49619812	-43,92357522
ROTA 1 - V, Alegre (43) 4,541m	7511864,857	610834,729	-22,49606756	-43,92249433
ROTA 1 - V, Alegre (43) 4,541m	7511878,254	610884,315	-22,49594333	-43,92201326
ROTA 1 - V, Alegre (43) 4,541m	7511897,51	610998,501	-22,49576197	-43,92090469
ROTA 1 - V, Alegre (43) 4,541m	7511901,249	611056,635	-22,49572442	-43,92033986
ROTA 1 - V, Alegre (43) 4,541m	7511912,219	611081,896	-22,49562368	-43,92009509
ROTA 1 - V, Alegre (43) 4,541m	7511938,394	611145,424	-22,49538312	-43,9194794
ROTA 1 - V, Alegre (43) 4,541m	7511980,44	611276,764	-22,49499478	-43,91820568
ROTA 1 - V, Alegre (43) 4,541m	7511989,122	611417,718	-22,49490716	-43,91683617
ROTA 1 - V, Alegre (43) 4,541m	7511978,755	611444,488	-22,49499904	-43,91657523
ROTA 1 - V, Alegre (43) 4,541m	7511951,581	611484,292	-22,49524189	-43,91618642
ROTA 1 - V, Alegre (43) 4,541m	7511922,099	611544,807	-22,49550423	-43,91559611
ROTA 1 - V, Alegre (43) 4,541m	7511864,04	611575,79	-22,49602661	-43,91529086
ROTA 1 - V, Alegre (43) 4,541m	7511754,861	611603,291	-22,49701096	-43,91501585
ROTA 1 - V, Alegre (43) 4,541m	7511720,114	611620,191	-22,4973237	-43,91484913
ROTA 1 - V, Alegre (43) 4,541m	7511683,131	611651,195	-22,49765571	-43,91454514
ROTA 1 - V, Alegre (43) 4,541m	7511619,453	611649,733	-22,49823097	-43,91455487
ROTA 1 - V, Alegre (43) 4,541m	7511604,78	611683,103	-22,49836132	-43,91422946
ROTA 1 - V, Alegre (43) 4,541m	7511635,257	611801,393	-22,49807829	-43,91308177
ROTA 1 - V, Alegre (43) 4,541m	7511658,962	611861,404	-22,49786024	-43,9125001
ROTA 1 - V, Alegre (43) 4,541m	7511753,559	611947,343	-22,49700016	-43,91167142
ROTA 1 - V, Alegre (43) 4,541m	7511764,805	611978,04	-22,49689657	-43,91137382
ROTA 1 - V, Alegre (43) 4,541m	7511767,078	611999,872	-22,49687461	-43,91116176
ROTA 1 - V, Alegre (43) 4,541m	7511772,272	612028,964	-22,49682578	-43,91087935
ROTA 1 - V, Alegre (43) 4,541m	7511786,743	612054,053	-22,49669342	-43,91063649
ROTA 1 - V, Alegre (43) 4,541m	7511797,831	612079,974	-22,49659157	-43,91038532
ROTA 1 - V, Alegre (43) 4,541m	7511803,368	612105,26	-22,4965399	-43,91013992
ROTA 1 - V, Alegre (43) 4,541m	7511799,56	612141,196	-22,49657193	-43,90979034
ROTA 1 - V, Alegre (43) 4,541m	7511797,095	612183,973	-22,49659137	-43,90937435
ROTA 1 - V, Alegre (43) 4,541m	7511798,549	612208,878	-22,49657661	-43,90913237
ROTA 1 - V, Alegre (43) 4,541m	7511813,59	612235,132	-22,49643902	-43,90887823
ROTA 1 - V, Alegre (43) 4,541m	7511829,65	612260,964	-22,49629226	-43,90862827
ROTA 1 - V, Alegre (43) 4,541m	7511836,187	612279,058	-22,49623203	-43,90845285
ROTA 1 - V, Alegre (43) 4,541m	7511844,125	612304,072	-22,49615868	-43,90821027


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - V, Alegre (43) 4,541m	7511851,504	612332,871	-22,49609014	-43,90793086
ROTA 1 - V, Alegre (43) 4,541m	7511863,816	612359,145	-22,49597719	-43,90767634
ROTA 1 - V, Alegre (43) 4,541m	7511883,09	612377,126	-22,49580192	-43,90750292
ROTA 1 - V, Alegre (43) 4,541m	7511921,839	612399,968	-22,49545042	-43,90728364
ROTA 1 - V, Alegre (43) 4,541m	7511949,29	612426,869	-22,4952007	-43,9070241
ROTA 1 - V, Alegre (43) 4,541m	7511969,932	612447,304	-22,49501291	-43,90682694
ROTA 1 - V, Alegre (43) 4,541m	7511988,912	612464,843	-22,49484032	-43,90665779
ROTA 1 - V, Alegre (43) 4,541m	7512004,413	612474,046	-22,49469969	-43,90656944
ROTA 1 - V, Alegre (43) 4,541m	7512019,523	612484,788	-22,49456251	-43,9064661
ROTA 1 - V, Alegre (43) 4,541m	7512042,08	612504,378	-22,49435748	-43,90627728
ROTA 1 - V, Alegre (43) 4,541m	7512046,986	612528,96	-22,49431153	-43,90603869
ROTA 1 - V, Alegre (43) 4,541m	7512041,866	612560,473	-22,4943557	-43,90573201
ROTA 1 - V, Alegre (43) 4,541m	7512027,676	612598,364	-22,49448137	-43,90536269
ROTA 1 - V, Alegre (43) 4,541m	7512003,486	612631,098	-22,4946977	-43,90504279
ROTA 1 - V, Alegre (43) 4,541m	7511988,421	612663,105	-22,49483167	-43,9047306
ROTA 1 - V, Alegre (43) 4,541m	7511968,339	612704,142	-22,49501033	-43,90433028
ROTA 1 - V, Alegre (43) 4,541m	7511950,913	612753,283	-22,49516449	-43,90385138
ROTA 1 - V, Alegre (43) 4,541m	7511936,794	612829,399	-22,49528698	-43,9031105
ROTA 1 - V, Alegre (43) 4,541m	7511920,289	612903,895	-22,49543113	-43,9023852
ROTA 1 - V, Alegre (43) 4,541m	7511924,863	612929,605	-22,49538811	-43,90213562
ROTA 1 - V, Alegre (43) 4,541m	7511947,182	612971,011	-22,49518377	-43,90173473
ROTA 1 - V, Alegre (43) 4,541m	7511967,104	612987,76	-22,49500272	-43,90157334
ROTA 1 - V, Alegre (43) 4,541m	7511992,747	613001,687	-22,49477019	-43,90143981
ROTA 1 - V, Alegre (43) 4,541m	7512034,562	613028,529	-22,49439071	-43,90118188
ROTA 1 - V, Alegre (43) 4,541m	7512053,354	613039,889	-22,49422023	-43,90107279
ROTA 1 - V, Alegre (43) 4,541m	7512071,517	613060,55	-22,49405481	-43,90087326
ROTA 1 - V, Alegre (43) 4,541m	7512093,216	613089,546	-22,49385689	-43,90059296
ROTA 1 - V, Alegre (43) 4,541m	7512114,341	613117,699	-22,49366421	-43,90032082
ROTA 1 - V, Alegre (43) 4,541m	7512125,475	613143,447	-22,49356194	-43,90007133
ROTA 1 - V, Alegre (43) 4,541m	7512131,38	613173,283	-22,49350663	-43,89978175
ROTA 1 - V, Alegre (43) 4,541m	7512135,913	613189,882	-22,49346458	-43,89962073
ROTA 1 - V, Alegre (43) 4,541m	7512151,825	613207,038	-22,49331972	-43,89945511
ROTA 1 - V, Alegre (43) 4,541m	7512176,917	613227,463	-22,49309172	-43,89925836
ROTA 1 - V, Alegre (43) 4,541m	7512209,833	613282,599	-22,49279075	-43,89872479
ROTA 1 - V, Alegre (43) 4,541m	7512237,727	613330,93	-22,49253559	-43,898257
ROTA 1 - V, Alegre (43) 4,541m	7512248,859	613344,431	-22,49243414	-43,89812656
ROTA 1 - V, Alegre (43) 4,541m	7512257,047	613363,22	-22,49235894	-43,89794452
ROTA 1 - V, Alegre (43) 4,541m	7512263,215	613389,619	-22,49230147	-43,89768836
ROTA 1 - V, Alegre (43) 4,541m	7512267,673	613413,108	-22,49225965	-43,89746036
ROTA 1 - V, Alegre (43) 4,541m	7512288,824	613445,043	-22,49206648	-43,89715147
ROTA 1 - V, Alegre (43) 4,541m	7512309,225	613464,167	-22,49188094	-43,89696705
ROTA 1 - V, Alegre (43) 4,541m	7512356,552	613505,925	-22,49145069	-43,89656454
ROTA 1 - V, Alegre (43) 4,541m	7512409,904	613563,191	-22,49096498	-43,89601174
ROTA 1 - V, Alegre (43) 4,541m	7512456,744	613603,208	-22,49053924	-43,89562614
ROTA 1 - V, Alegre (43) 4,541m	7512484,732	613630,487	-22,49028463	-43,89536299


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - V, Alegre (43) 4,541m	7512502,605	613655,425	-22,49012153	-43,89512187
ROTA 1 - V, Alegre (43) 4,541m	7512524,984	613693,012	-22,48991689	-43,89475814
ROTA 1 - V, Alegre (43) 4,541m	7512525,551	613711,678	-22,48991052	-43,89457675
ROTA 1 - V, Alegre (43) 4,541m	7512531,027	613738,836	-22,48985925	-43,89431317
ROTA 1 - V, Alegre (43) 4,541m	7512540,719	613782,57	-22,4897688	-43,89388878
ROTA 1 - V, Alegre (43) 4,541m	7512555,247	613814,737	-22,48963542	-43,89357716
ROTA 1 - V, Alegre (43) 4,541m	7512572,403	613834,285	-22,48947916	-43,89338838
ROTA 1 - V, Alegre (43) 4,541m	7512599,451	613862,541	-22,48923297	-43,89311569
ROTA 1 - V, Alegre (43) 4,541m	7512617,105	613878,779	-22,48907243	-43,89295912
ROTA 1 - V, Alegre (43) 4,541m	7512634,81	613885,497	-22,48891206	-43,8928951
ROTA 1 - V, Alegre (43) 4,541m	7512652,922	613890,441	-22,48874814	-43,89284834
ROTA 1 - V, Alegre (43) 4,541m	7512669,601	613911,016	-22,48859612	-43,89264956
ROTA 1 - V, Alegre (43) 4,541m	7512679,364	613939,581	-22,48850602	-43,89237261
ROTA 1 - V, Alegre (43) 4,541m	7512675,093	613969,744	-22,48854259	-43,89207913
ROTA 1 - V, Alegre (43) 4,541m	7512671,441	614002,694	-22,48857337	-43,8917586
ROTA 1 - V, Alegre (43) 4,541m	7512689,061	614071,819	-22,4884096	-43,89108799
ROTA 1 - V, Alegre (43) 4,541m	7512717,003	614123,941	-22,48815373	-43,89058338
ROTA 1 - V, Alegre (43) 4,541m	7512727,007	614153,165	-22,48806142	-43,89030005
ROTA 1 - V, Alegre (43) 4,541m	7512727,554	614154,149	-22,48805641	-43,89029053
ROTA 1 - V, Alegre (43) 4,541m	7512736,58	614184,182	-22,48797288	-43,88999927
ROTA 1 - V, Alegre (43) 4,541m	7512746,009	614210,063	-22,48788598	-43,88974839
ROTA 1 - V, Alegre (43) 4,541m	7512754,785	614223,21	-22,48780583	-43,88962124
ROTA 1 - V, Alegre (43) 4,541m	7512770,747	614230,971	-22,48766113	-43,88954695
ROTA 1 - V, Alegre (43) 4,541m	7512800,79	614238,016	-22,4873893	-43,88948064
ROTA 1 - V, Alegre (44) 536m	7511654,607	610397,264	-22,49799501	-43,92673202
ROTA 1 - V, Alegre (44) 536m	7511667,69	610372,216	-22,49787845	-43,92697641
ROTA 1 - V, Alegre (44) 536m	7511686,222	610346,213	-22,49771275	-43,92723047
ROTA 1 - V, Alegre (44) 536m	7511695,059	610318,873	-22,4976347	-43,92749684
ROTA 1 - V, Alegre (44) 536m	7511692,798	610278,029	-22,49765777	-43,92789371
ROTA 1 - V, Alegre (44) 536m	7511687,196	610259,707	-22,49770956	-43,92807142
ROTA 1 - V, Alegre (44) 536m	7511670,276	610236,579	-22,49786388	-43,92829506
ROTA 1 - V, Alegre (44) 536m	7511627,227	610186,054	-22,49825598	-43,9287832
ROTA 1 - V, Alegre (44) 536m	7511589,085	610148,918	-22,4986029	-43,92914153
ROTA 1 - V, Alegre (44) 536m	7511495,825	610046,76	-22,49945185	-43,93012809
ROTA 1 - V, Alegre (44) 536m	7511468,482	610018,422	-22,49970066	-43,93040166
ROTA 1 - V, Alegre (44) 536m	7511445,723	609994,562	-22,49990776	-43,93063201
ROTA 1 - V, Alegre (44) 536m	7511425,384	609975,621	-22,5000927	-43,93081472
ROTA 1 - V, Alegre (45) 203m	7511291,455	609886,716	-22,50130814	-43,93166965
ROTA 1 - V, Alegre (45) 203m	7511276,476	609877,383	-22,50144404	-43,93175934
ROTA 1 - V, Alegre (45) 203m	7511235,382	609856,06	-22,50181659	-43,93196376
ROTA 1 - V, Alegre (45) 203m	7511193,928	609849,265	-22,50219146	-43,93202693
ROTA 1 - V, Alegre (45) 203m	7511175,51	609839,916	-22,50235842	-43,93211654
ROTA 1 - V, Alegre (45) 203m	7511148,011	609825,388	-22,50260774	-43,93225586
ROTA 1 - V, Alegre (45) 203m	7511134,93	609817,382	-22,50272641	-43,93233278
ROTA 1 - V, Alegre (45) 203m	7511115,158	609810,532	-22,50290544	-43,932398


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - V, Alegre (45) 203m	7511106,233	609812,744	-22,50298591	-43,93237587
ROTA 1 - V, Alegre (46) 2x 213m	7511090,672	610035,108	-22,50311212	-43,9302132
ROTA 1 - V, Alegre (46) 2x 213m	7511193,455	609848,878	-22,50219576	-43,93203067
ROTA 1 - V, Alegre (47) 28,2m	7511089,86	609813,528	-22,50313375	-43,93236712
ROTA 1 - V, Alegre (47) 28,2m	7511083,034	609805,513	-22,50319592	-43,93244456
ROTA 1 - V, Alegre (47) 28,2m	7511083,276	609796,011	-22,50319434	-43,93253694
ROTA 1 - V, Alegre (47) 28,2m	7511089,054	609790,281	-22,50314252	-43,93259304
ROTA 1 - V, Alegre (48) 183m	7511307,462	609692,87	-22,50117604	-43,93355509
ROTA 1 - V, Alegre (48) 183m	7511384,435	609648,594	-22,50048364	-43,93399082
ROTA 1 - V, Alegre (48) 183m	7511468,16	609604,973	-22,4997302	-43,93442065
ROTA 1 - BR-393 (49) 12,967m	7513964,926	608623,059	-22,47724105	-43,94413666
ROTA 1 - BR-393 (49) 12,967m	7514019,251	608653,908	-22,47674839	-43,94384055
ROTA 1 - BR-393 (49) 12,967m	7514031,686	608667,711	-22,4766352	-43,94370725
ROTA 1 - BR-393 (49) 12,967m	7514074,933	608869,814	-22,47623168	-43,94174595
ROTA 1 - BR-393 (49) 12,967m	7514078,392	608937,988	-22,47619609	-43,9410836
ROTA 1 - BR-393 (49) 12,967m	7514069,648	609053,132	-22,47626772	-43,93996391
ROTA 1 - BR-393 (49) 12,967m	7514061,439	609120,497	-22,47633756	-43,93930862
ROTA 1 - BR-393 (49) 12,967m	7514050,974	609247,05	-22,47642399	-43,93807791
ROTA 1 - BR-393 (49) 12,967m	7514041,806	609348,847	-22,47650029	-43,93708791
ROTA 1 - BR-393 (49) 12,967m	7514023,625	609559,89	-22,47665097	-43,93503551
ROTA 1 - BR-393 (49) 12,967m	7514008,683	609726,725	-22,47677521	-43,93341299
ROTA 1 - BR-393 (49) 12,967m	7514003,475	609825,579	-22,4768159	-43,93245186
ROTA 1 - BR-393 (49) 12,967m	7514027,59	609936,198	-22,47659095	-43,93137841
ROTA 1 - BR-393 (49) 12,967m	7514065,367	610038,335	-22,47624315	-43,93038836
ROTA 1 - BR-393 (49) 12,967m	7514125,845	610169,493	-22,47568843	-43,92911782
ROTA 1 - BR-393 (49) 12,967m	7514136,5	610211,688	-22,47558946	-43,92870847
ROTA 1 - BR-393 (49) 12,967m	7514135,409	610261,009	-22,47559613	-43,92822905
ROTA 1 - BR-393 (49) 12,967m	7514123,192	610302,274	-22,47570382	-43,92782714
ROTA 1 - BR-393 (49) 12,967m	7514106,404	610332,851	-22,47585348	-43,92752879
ROTA 1 - BR-393 (49) 12,967m	7514048,06	610379,162	-22,47637747	-43,92707464
ROTA 1 - BR-393 (49) 12,967m	7514018,038	610401,948	-22,47664717	-43,92685109
ROTA 1 - BR-393 (49) 12,967m	7513948,342	610453,846	-22,47727334	-43,92634183
ROTA 1 - BR-393 (49) 12,967m	7513912,564	610474,918	-22,47759514	-43,92613454
ROTA 1 - BR-393 (49) 12,967m	7513849,651	610521,018	-22,47816041	-43,92568211
ROTA 1 - BR-393 (49) 12,967m	7513816,828	610561,064	-22,47845429	-43,9252906
ROTA 1 - BR-393 (49) 12,967m	7513800,743	610596,66	-22,47859727	-43,92494352
ROTA 1 - BR-393 (49) 12,967m	7513757,544	610694,495	-22,47898111	-43,92398962
ROTA 1 - BR-393 (49) 12,967m	7513734,742	610731,209	-22,47918469	-43,9236312
ROTA 1 - BR-393 (49) 12,967m	7513734,267	610731,572	-22,47918896	-43,92362764
ROTA 1 - BR-393 (49) 12,967m	7513705,364	610785,03	-22,47944656	-43,92310605
ROTA 1 - BR-393 (49) 12,967m	7513627,837	610843,502	-22,48014302	-43,92253233
ROTA 1 - BR-393 (49) 12,967m	7513602,59	610860,669	-22,48036994	-43,92236371
ROTA 1 - BR-393 (49) 12,967m	7513527,354	610888,688	-22,48104768	-43,92208613
ROTA 1 - BR-393 (49) 12,967m	7513375,332	610931,138	-22,48241806	-43,9216629
ROTA 1 - BR-393 (49) 12,967m	7513321,684	610945,954	-22,48290166	-43,92151515


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - BR-393 (49) 12,967m	7513293,578	610962,748	-22,48315443	-43,92134995
ROTA 1 - BR-393 (49) 12,967m	7513224,66	611023,946	-22,48377295	-43,92075031
ROTA 1 - BR-393 (49) 12,967m	7512984,014	611217,933	-22,48593393	-43,91884796
ROTA 1 - BR-393 (49) 12,967m	7512886,91	611310,348	-22,48680499	-43,9179429
ROTA 1 - BR-393 (49) 12,967m	7512817,722	611388,155	-22,48742484	-43,91718177
ROTA 1 - BR-393 (49) 12,967m	7512752,372	611458,455	-22,48801052	-43,91649388
ROTA 1 - BR-393 (49) 12,967m	7512734,489	611505,805	-22,48816894	-43,91603238
ROTA 1 - BR-393 (49) 12,967m	7512729,239	611577,491	-22,48821168	-43,91533524
ROTA 1 - BR-393 (49) 12,967m	7512760,256	611690,828	-22,4879241	-43,91423581
ROTA 1 - BR-393 (49) 12,967m	7512774,761	611747,177	-22,4877894	-43,91368912
ROTA 1 - BR-393 (49) 12,967m	7512772,054	611796,252	-22,48781063	-43,91321194
ROTA 1 - BR-393 (49) 12,967m	7512760,832	611859,088	-22,48790788	-43,91260039
ROTA 1 - BR-393 (49) 12,967m	7512753,405	611897,835	-22,48797242	-43,91222326
ROTA 1 - BR-393 (49) 12,967m	7512745,967	611920,557	-22,48803812	-43,91200187
ROTA 1 - BR-393 (49) 12,967m	7512737,642	611956,071	-22,48811098	-43,9116561
ROTA 1 - BR-393 (49) 12,967m	7512731,335	612004,149	-22,48816479	-43,91118834
ROTA 1 - BR-393 (49) 12,967m	7512733,786	612042,969	-22,4881401	-43,91081119
ROTA 1 - BR-393 (49) 12,967m	7512742,733	612103,134	-22,48805534	-43,91022703
ROTA 1 - BR-393 (49) 12,967m	7512767,906	612173,472	-22,48782334	-43,90954514
ROTA 1 - BR-393 (49) 12,967m	7512781,152	612220,815	-22,48770058	-43,90908592
ROTA 1 - BR-393 (49) 12,967m	7512761,703	612288,709	-22,48787179	-43,90842462
ROTA 1 - BR-393 (49) 12,967m	7512734,947	612367,304	-22,48810828	-43,9076588
ROTA 1 - BR-393 (49) 12,967m	7512701,784	612470,77	-22,488401	-43,90665077
ROTA 1 - BR-393 (49) 12,967m	7512699,142	612582,598	-22,48841748	-43,90556364
ROTA 1 - BR-393 (49) 12,967m	7512703,626	612614,532	-22,48837487	-43,90525356
ROTA 1 - BR-393 (49) 12,967m	7512731,908	612688,056	-22,48811457	-43,90454093
ROTA 1 - BR-393 (49) 12,967m	7512766,124	612742,297	-22,48780193	-43,90401615
ROTA 1 - BR-393 (49) 12,967m	7512786,114	612774,308	-22,48761926	-43,90370644
ROTA 1 - BR-393 (49) 12,967m	7512807,453	612807,347	-22,48742433	-43,90338683
ROTA 1 - BR-393 (49) 12,967m	7512872,154	612885,196	-22,48683479	-43,90263476
ROTA 1 - BR-393 (49) 12,967m	7512896,696	612918,346	-22,48661092	-43,9023143
ROTA 1 - BR-393 (49) 12,967m	7512915,942	612955,807	-22,4864346	-43,90195156
ROTA 1 - BR-393 (49) 12,967m	7512929,727	612998,623	-22,48630725	-43,90153639
ROTA 1 - BR-393 (49) 12,967m	7512932,906	613047,597	-22,48627529	-43,9010606
ROTA 1 - BR-393 (49) 12,967m	7512934,238	613070,172	-22,48626176	-43,90084128
ROTA 1 - BR-393 (49) 12,967m	7512949,179	613163,902	-22,4861206	-43,89993132
ROTA 1 - BR-393 (49) 12,967m	7512964,67	613212,683	-22,48597744	-43,89945829
ROTA 1 - BR-393 (49) 12,967m	7512997,451	613265,282	-22,48567786	-43,89894939
ROTA 1 - BR-393 (49) 12,967m	7513052,519	613308,056	-22,48517763	-43,89853758
ROTA 1 - BR-393 (49) 12,967m	7513197,775	613376,988	-22,48386105	-43,89787798
ROTA 1 - BR-393 (49) 12,967m	7513317,648	613442,885	-22,48277393	-43,89724607
ROTA 1 - BR-393 (49) 12,967m	7513386,545	613503,254	-22,48214762	-43,89666426
ROTA 1 - BR-393 (49) 12,967m	7513419,21	613552,987	-22,48184926	-43,89618322
ROTA 1 - BR-393 (49) 12,967m	7513478,588	613699,254	-22,4813032	-43,89476586
ROTA 1 - BR-393 (49) 12,967m	7513505,819	613756,527	-22,48105342	-43,89421116


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - BR-393 (49) 12,967m	7513552,554	613856,986	-22,4806246	-43,89323812
ROTA 1 - BR-393 (49) 12,967m	7513559,616	613882,058	-22,48055914	-43,89299495
ROTA 1 - BR-393 (49) 12,967m	7513567,958	613909,205	-22,48048198	-43,89273117
ROTA 1 - BR-393 (49) 12,967m	7513587,03	613966,939	-22,48030586	-43,89217194
ROTA 1 - BR-393 (49) 12,967m	7513620,187	614044,615	-22,48000118	-43,89141938
ROTA 1 - BR-393 (49) 12,967m	7513649,513	614114,451	-22,47973163	-43,89074274
ROTA 1 - BR-393 (49) 12,967m	7513680,105	614208,124	-22,47944905	-43,88983452
ROTA 1 - BR-393 (49) 12,967m	7513706,17	614267,84	-22,47920962	-43,889256
ROTA 1 - BR-393 (49) 12,967m	7513732,076	614326,24	-22,47897172	-43,88869028
ROTA 1 - BR-393 (49) 12,967m	7513782,943	614449,579	-22,478504	-43,8874952
ROTA 1 - BR-393 (49) 12,967m	7513808,582	614493,576	-22,47826947	-43,88706945
ROTA 1 - BR-393 (49) 12,967m	7513885,195	614645,642	-22,47756728	-43,88559704
ROTA 1 - BR-393 (49) 12,967m	7513893,634	614660,126	-22,47749008	-43,88545688
ROTA 1 - BR-393 (49) 12,967m	7513936,946	614733,572	-22,47709393	-43,88474619
ROTA 1 - BR-393 (49) 12,967m	7513967,501	614797,416	-22,47681366	-43,88412791
ROTA 1 - BR-393 (49) 12,967m	7513993,832	614849,84	-22,4765723	-43,88362031
ROTA 1 - BR-393 (49) 12,967m	7514014,022	614919,293	-22,47638527	-43,88294677
ROTA 1 - BR-393 (49) 12,967m	7514024,766	614971,923	-22,47628468	-43,88243604
ROTA 1 - BR-393 (49) 12,967m	7514040,358	615105,691	-22,47613483	-43,88113709
ROTA 1 - BR-393 (49) 12,967m	7514052,464	615161,813	-22,47602169	-43,88059253
ROTA 1 - BR-393 (49) 12,967m	7514075,147	615220,809	-22,47581284	-43,8800208
ROTA 1 - BR-393 (49) 12,967m	7514120,297	615280,718	-22,47540098	-43,87944184
ROTA 1 - BR-393 (49) 12,967m	7514176,279	615350,061	-22,47489065	-43,87877197
ROTA 1 - BR-393 (49) 12,967m	7514209,498	615397,246	-22,47458742	-43,87831581
ROTA 1 - BR-393 (49) 12,967m	7514256,855	615472,383	-22,4741546	-43,87758902
ROTA 1 - BR-393 (49) 12,967m	7514305,081	615560,013	-22,47371307	-43,87674087
ROTA 1 - BR-393 (49) 12,967m	7514365,897	615673,276	-22,4731561	-43,87564454
ROTA 1 - BR-393 (49) 12,967m	7514439,451	615849,328	-22,47247979	-43,87393892
ROTA 1 - BR-393 (49) 12,967m	7514497,094	615984,556	-22,47194996	-43,87262891
ROTA 1 - BR-393 (49) 12,967m	7514558,303	616126,249	-22,47138747	-43,87125634
ROTA 1 - BR-393 (49) 12,967m	7514596,639	616213,471	-22,47103528	-43,87041147
ROTA 1 - BR-393 (49) 12,967m	7514607,749	616242,215	-22,47093297	-43,87013294
ROTA 1 - BR-393 (49) 12,967m	7514631,598	616327,81	-22,47071173	-43,86930283
ROTA 1 - BR-393 (49) 12,967m	7514639,392	616368,443	-22,47063856	-43,86890852
ROTA 1 - BR-393 (49) 12,967m	7514642,892	616421,5	-22,47060333	-43,86839314
ROTA 1 - BR-393 (49) 12,967m	7514646,994	616484,973	-22,47056196	-43,86777658
ROTA 1 - BR-393 (49) 12,967m	7514662,993	616548,446	-22,47041311	-43,8671609
ROTA 1 - BR-393 (49) 12,967m	7514677,173	616590,909	-22,47028214	-43,86674927
ROTA 1 - BR-393 (49) 12,967m	7514709,564	616650,808	-22,46998548	-43,86616952
ROTA 1 - BR-393 (49) 12,967m	7514750,555	616723,64	-22,46961026	-43,86546473
ROTA 1 - BR-393 (49) 12,967m	7514791,757	616764,523	-22,46923532	-43,86507044
ROTA 1 - BR-393 (49) 12,967m	7514841,859	616826,454	-22,46877855	-43,86447226
ROTA 1 - BR-393 (49) 12,967m	7514869,341	616846,259	-22,46852897	-43,86428182
ROTA 1 - BR-393 (49) 12,967m	7514921,562	616885,207	-22,46805463	-43,86390715
ROTA 1 - BR-393 (49) 12,967m	7514949,469	616920,601	-22,46780015	-43,86356524

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - BR-393 (49) 12,967m	7515006,746	617003,134	-22,46727715	-43,86276739
ROTA 1 - BR-393 (49) 12,967m	7515030,791	617067,767	-22,46705554	-43,86214104
ROTA 1 - BR-393 (49) 12,967m	7515037,222	617139,592	-22,46699253	-43,86144352
ROTA 1 - BR-393 (49) 12,967m	7515045,137	617188,642	-22,46691767	-43,86096742
ROTA 1 - BR-393 (49) 12,967m	7515048,325	617245,81	-22,46688495	-43,86041209
ROTA 1 - BR-393 (49) 12,967m	7515058,21	617348,048	-22,46678864	-43,85941925
ROTA 1 - BR-393 (49) 12,967m	7515068,641	617415,176	-22,46668981	-43,85876766
ROTA 1 - BR-393 (49) 12,967m	7515072,137	617451,912	-22,46665571	-43,85841091
ROTA 1 - BR-393 (49) 12,967m	7515077,592	617499,586	-22,46660316	-43,85794801
ROTA 1 - BR-393 (49) 12,967m	7515094,093	617555,646	-22,46645026	-43,85740443
ROTA 1 - BR-393 (49) 12,967m	7515102,526	617577,666	-22,46637258	-43,85719107
ROTA 1 - BR-393 (49) 12,967m	7515141,358	617619,034	-22,46601899	-43,85679193
ROTA 1 - BR-393 (49) 12,967m	7515215,08	617676,645	-22,46534914	-43,85623752
ROTA 1 - BR-393 (49) 12,967m	7515286,923	617744,573	-22,46469555	-43,85558272
ROTA 1 - BR-393 (49) 12,967m	7515326,233	617792,977	-22,46433716	-43,85511526
ROTA 1 - BR-393 (49) 12,967m	7515379,716	617871,365	-22,46384868	-43,85435745
ROTA 1 - BR-393 (49) 12,967m	7515424,762	617933,848	-22,46343751	-43,8537536
ROTA 1 - BR-393 (49) 12,967m	7515476,456	618004,607	-22,4629657	-43,8530698
ROTA 1 - BR-393 (49) 12,967m	7515518,883	618062,376	-22,4625785	-43,85251157
ROTA 1 - BR-393 (49) 12,967m	7515576,412	618141,356	-22,46205342	-43,85174833
ROTA 1 - BR-393 (49) 12,967m	7515692,31	618299,595	-22,46099566	-43,85021924
ROTA 1 - BR-393 (49) 12,967m	7515759,128	618390,706	-22,46038582	-43,84933883
ROTA 1 - BR-393 (49) 12,967m	7515850,876	618522,338	-22,45954801	-43,84806652
ROTA 1 - BR-393 (49) 12,967m	7515879,083	618580,342	-22,45928921	-43,84750496
ROTA 1 - BR-393 (49) 12,967m	7515903,404	618629,123	-22,45906616	-43,84703275
ROTA 1 - BR-393 (49) 12,967m	7515928,183	618697,111	-22,45883762	-43,84637392
ROTA 1 - BR-393 (49) 12,967m	7515967,886	618778,469	-22,45847336	-43,84558629
ROTA 1 - BR-393 (49) 12,967m	7515980,277	618829,592	-22,45835789	-43,84509042
ROTA 1 - BR-393 (49) 12,967m	7516073,714	619035,113	-22,45749964	-43,84310028
ROTA 1 - BR-393 (49) 12,967m	7516104,072	619121,611	-22,4572194	-43,84226202
ROTA 1 - BR-393 (49) 12,967m	7516113,024	619174,75	-22,45713485	-43,84174631
ROTA 1 - BR-393 (49) 12,967m	7516136,927	619271,532	-22,45691219	-43,84080764
ROTA 1 - BR-393 (49) 12,967m	7516148,935	619341,429	-22,45679886	-43,84012932
ROTA 1 - BR-393 (49) 12,967m	7516160,245	619419,445	-22,45669125	-43,83937206
ROTA 1 - BR-393 (49) 12,967m	7516172,849	619465,091	-22,45657422	-43,83892945
ROTA 1 - BR-393 (49) 12,967m	7516197,605	619511,068	-22,4563474	-43,83848453
ROTA 1 - BR-393 (49) 12,967m	7516219,291	619560,352	-22,45614808	-43,83800726
ROTA 1 - BR-393 (49) 12,967m	7516248,298	619598,231	-22,45588343	-43,83764136
ROTA 1 - BR-393 (49) 12,967m	7516270,578	619647,914	-22,45567871	-43,83716025
ROTA 1 - BR-393 (49) 12,967m	7516308,344	619712,052	-22,45533311	-43,83653985
ROTA 1 - BR-393 (50) 75,5m	7512734,748	612692,672	-22,48808861	-43,90449627
ROTA 1 - BR-393 (50) 75,5m	7512718,383	612694,054	-22,48823633	-43,90448168
ROTA 1 - BR-393 (50) 75,5m	7512690,837	612677,651	-22,48848622	-43,90463915
ROTA 1 - BR-393 (50) 75,5m	7512676,268	612654,702	-22,48861933	-43,90486118
ROTA 1 - BR-393 (51) 35,9m	7514597,185	616212,416	-22,47103042	-43,87042176

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - BR-393 (51) 35,9m	7514632,49	616219,147	-22,47071107	-43,87035894
ROTA 1 - BR-393 (Final) 9,247m	7516307,631	619712,587	-22,45533951	-43,83653459
ROTA 1 - BR-393 (Final) 9,247m	7516335,147	619754,665	-22,45508803	-43,83612779
ROTA 1 - BR-393 (Final) 9,247m	7516384,944	619828,937	-22,45463305	-43,83540982
ROTA 1 - BR-393 (Final) 9,247m	7516434,908	619894,629	-22,45417716	-43,83477525
ROTA 1 - BR-393 (Final) 9,247m	7516463,891	619957,778	-22,45391094	-43,83416381
ROTA 1 - BR-393 (Final) 9,247m	7516500,455	620023,204	-22,4535761	-43,83353081
ROTA 1 - BR-393 (Final) 9,247m	7516526,124	620079,552	-22,45334029	-43,83298521
ROTA 1 - BR-393 (Final) 9,247m	7516553,729	620121,687	-22,453088	-43,83257787
ROTA 1 - BR-393 (Final) 9,247m	7516585,617	620168,845	-22,45279666	-43,83212204
ROTA 1 - BR-393 (Final) 9,247m	7516631,772	620200,859	-22,45237753	-43,83181445
ROTA 1 - BR-393 (Final) 9,247m	7516668,097	620213,216	-22,45204857	-43,83169713
ROTA 1 - BR-393 (Final) 9,247m	7516745,346	620227,833	-22,45134981	-43,83156094
ROTA 1 - BR-393 (Final) 9,247m	7516835,689	620260,061	-22,45053155	-43,83125463
ROTA 1 - BR-393 (Final) 9,247m	7516875,186	620296,838	-22,45017222	-43,83090025
ROTA 1 - BR-393 (Final) 9,247m	7516902,427	620346,409	-22,44992269	-43,83042064
ROTA 1 - BR-393 (Final) 9,247m	7516918,489	620407,739	-22,44977329	-43,82982593
ROTA 1 - BR-393 (Final) 9,247m	7516929,529	620456,274	-22,44967015	-43,82935515
ROTA 1 - BR-393 (Final) 9,247m	7516937,746	620505,332	-22,44959248	-43,82887908
ROTA 1 - BR-393 (Final) 9,247m	7516937,357	620538,95	-22,44959362	-43,82855239
ROTA 1 - BR-393 (Final) 9,247m	7516922,83	620580,015	-22,44972194	-43,82815227
ROTA 1 - BR-393 (Final) 9,247m	7516886,822	620621,659	-22,45004423	-43,82774489
ROTA 1 - BR-393 (Final) 9,247m	7516771,115	620663,869	-22,45108633	-43,82732594
ROTA 1 - BR-393 (Final) 9,247m	7516718,98	620714,84	-22,45155363	-43,8268267
ROTA 1 - BR-393 (Final) 9,247m	7516701,255	620797,204	-22,4517079	-43,82602502
ROTA 1 - BR-393 (Final) 9,247m	7516711,808	620871,494	-22,45160733	-43,82530395
ROTA 1 - BR-393 (Final) 9,247m	7516713,324	620982,814	-22,45158576	-43,82422238
ROTA 1 - BR-393 (Final) 9,247m	7516713,578	621090,008	-22,45157587	-43,82318079
ROTA 1 - BR-393 (Final) 9,247m	7516700,876	621183,408	-22,45168398	-43,82227225
ROTA 1 - BR-393 (Final) 9,247m	7516682,367	621241,036	-22,45184707	-43,82171087
ROTA 1 - BR-393 (Final) 9,247m	7516640,04	621407,463	-22,45221756	-43,82009047
ROTA 1 - BR-393 (Final) 9,247m	7516620,469	621500,795	-22,45238769	-43,81918206
ROTA 1 - BR-393 (Final) 9,247m	7516593,41	621589,424	-22,45262579	-43,81831879
ROTA 1 - BR-393 (Final) 9,247m	7516572,703	621653,967	-22,45280822	-43,81769003
ROTA 1 - BR-393 (Final) 9,247m	7516550,093	621755,131	-22,45300523	-43,81670528
ROTA 1 - BR-393 (Final) 9,247m	7516532,862	621830,958	-22,45315546	-43,81596714
ROTA 1 - BR-393 (Final) 9,247m	7516508,45	621942,592	-22,45336799	-43,81488052
ROTA 1 - BR-393 (Final) 9,247m	7516507,395	622005,201	-22,45337305	-43,81427206
ROTA 1 - BR-393 (Final) 9,247m	7516484,968	622106,313	-22,45356839	-43,81328783
ROTA 1 - BR-393 (Final) 9,247m	7516465,732	622179,314	-22,45373692	-43,81257699
ROTA 1 - BR-393 (Final) 9,247m	7516457,353	622222,374	-22,45380951	-43,81215792
ROTA 1 - BR-393 (Final) 9,247m	7516453,161	622282,405	-22,45384308	-43,81157428
ROTA 1 - BR-393 (Final) 9,247m	7516447,799	622316,535	-22,45388907	-43,81124222
ROTA 1 - BR-393 (Final) 9,247m	7516450,367	622350,406	-22,45386345	-43,81091329
ROTA 1 - BR-393 (Final) 9,247m	7516466,558	622482,53	-22,45370775	-43,80963067




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 1 - BR-393 (Final) 9,247m	7516482,833	622609,344	-22,45355165	-43,80839967
ROTA 1 - BR-393 (Final) 9,247m	7516490,9	622691,441	-22,4534729	-43,80760255
ROTA 1 - BR-393 (Final) 9,247m	7516506,24	622768,372	-22,45332882	-43,8068562
ROTA 1 - BR-393 (Final) 9,247m	7516544,471	623002,011	-22,45296671	-43,80458887
ROTA 1 - BR-393 (Final) 9,247m	7516569,44	623089,785	-22,45273487	-43,80373791
ROTA 1 - BR-393 (Final) 9,247m	7516627,446	623204,462	-22,45220269	-43,80262809
ROTA 1 - BR-393 (Final) 9,247m	7516753,803	623437,428	-22,45104461	-43,8003742
ROTA 1 - BR-393 (Final) 9,247m	7516795,166	623522,226	-22,45066489	-43,79955345
ROTA 1 - BR-393 (Final) 9,247m	7516842,899	623620,555	-22,45022665	-43,79860171
ROTA 1 - BR-393 (Final) 9,247m	7516931,302	623751,275	-22,44941874	-43,79733842
ROTA 1 - BR-393 (Final) 9,247m	7517015,362	623847,411	-22,44865254	-43,79641085
ROTA 1 - BR-393 (Final) 9,247m	7517148,2	623967,14	-22,44744405	-43,79525784
ROTA 1 - BR-393 (Final) 9,247m	7517232,655	624036,246	-22,44667623	-43,79459296
ROTA 1 - BR-393 (Final) 9,247m	7517301,855	624115,282	-22,44604548	-43,79383041
ROTA 1 - BR-393 (Final) 9,247m	7517387,191	624205,548	-22,44526817	-43,79296001
ROTA 1 - BR-393 (Final) 9,247m	7517594,277	624428,069	-22,44338157	-43,79081411
ROTA 1 - BR-393 (Final) 9,247m	7517706,405	624548,972	-22,44236002	-43,78964818
ROTA 1 - BR-393 (Final) 9,247m	7517799,866	624660,476	-22,44150775	-43,78857211
ROTA 1 - BR-393 (Final) 9,247m	7517852,122	624771,673	-22,44102766	-43,78749581
ROTA 1 - BR-393 (Final) 9,247m	7517887,001	624844,939	-22,44070728	-43,78678668
ROTA 1 - BR-393 (Final) 9,247m	7517925,024	624955,339	-22,44035558	-43,78571702
ROTA 1 - BR-393 (Final) 9,247m	7517990,895	625099,843	-22,43975028	-43,78431819
ROTA 1 - BR-393 (Final) 9,247m	7518040,755	625194,702	-22,439293	-43,78340047
ROTA 1 - BR-393 (Final) 9,247m	7518111,566	625299,156	-22,43864578	-43,78239118
ROTA 1 - BR-393 (Final) 9,247m	7518188,571	625387,598	-22,43794378	-43,78153795
ROTA 1 - BR-393 (Final) 9,247m	7518289,678	625493,678	-22,4370228	-43,78051528
ROTA 1 - BR-393 (Final) 9,247m	7518377,76	625645,369	-22,43621611	-43,77904843
ROTA 1 - BR-393 (Final) 9,247m	7518469,696	625796,501	-22,43537463	-43,77758735
ROTA 1 - BR-393 (Final) 9,247m	7518562,341	625959,516	-22,43452586	-43,77601089
ROTA 1 - BR-393 (Final) 9,247m	7518687,751	626152,865	-22,43337891	-43,77414233
ROTA 1 - BR-393 (Final) 9,247m	7518763,036	626247,377	-22,43269195	-43,77323008
ROTA 1 - BR-393 (Final) 9,247m	7518897,426	626393,892	-22,43146733	-43,7718173
ROTA 1 - BR-393 (Final) 9,247m	7518941,226	626437,108	-22,43106853	-43,77140092
ROTA 1 - BR-393 (Final) 9,247m	7519023,22	626525,335	-22,43032143	-43,77055029
ROTA 1 - BR-393 (Final) 9,247m	7519137,647	626646,427	-22,42927898	-43,76938295
ROTA 1 - BR-393 (Final) 9,247m	7519355,712	626821,321	-22,42729646	-43,7677012
ROTA 1 - BR-393 (Final) 9,247m	7519478,984	626950,377	-22,4261735	-43,76645725
ROTA 1 - BR-393 (Final) 9,247m	7519626,099	627114,659	-22,42483256	-43,764873
ROTA 1 - BR-393 (Final) 9,247m	7519728,884	627230,149	-22,42389562	-43,76375925
ROTA 1 - BR-393 (Final) 9,247m	7519749,402	627283,283	-22,42370635	-43,7632447
ROTA 1 - BR-393 (Final) 9,247m	7519752,884	627318,339	-22,42367229	-43,76290442
ROTA 1 - BR-393 (Final) 9,247m	7519738,012	627379,803	-22,42380204	-43,76230611


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Início Rota 2	7514119,637	601784,365	-22,47626515	-44,0106138
Rota 2 - BR393 2,708m	7514115,995	601788,313	-22,47629781	-44,0105752
Rota 2 - BR393 2,708m	7514101,518	601667,556	-22,47643577	-44,01174795
Rota 2 - BR393 2,708m	7514095,519	601619,492	-22,47649282	-44,01221471
Rota 2 - BR393 2,708m	7514066,422	601395,832	-22,47676895	-44,01438667
Rota 2 - BR393 2,708m	7514051,624	601275,766	-22,47690975	-44,0155527
Rota 2 - BR393 2,708m	7514034,739	601140,602	-22,47707027	-44,01686532
Rota 2 - BR393 2,708m	7514018,362	601012,785	-22,47722577	-44,01810659
Rota 2 - BR393 2,708m	7514005,074	600904,96	-22,47735218	-44,01915373
Rota 2 - BR393 2,708m	7513995,684	600859,9	-22,47743966	-44,01959108
Rota 2 - BR393 2,708m	7513970,299	600762,014	-22,47767474	-44,02054087
Rota 2 - BR393 2,708m	7513955,546	600723,017	-22,4778103	-44,02091896
Rota 2 - BR393 2,708m	7513931,297	600663,828	-22,47803282	-44,02149271
Rota 2 - BR393 2,708m	7513914,331	600624,692	-22,47818838	-44,02187201
Rota 2 - BR393 2,708m	7513875,452	600545,02	-22,47854426	-44,02264392
Rota 2 - BR393 2,708m	7513849,391	600488,034	-22,47878302	-44,02319614
Rota 2 - BR393 2,708m	7513787,431	600355,973	-22,47935045	-44,02447579
Rota 2 - BR393 2,708m	7513765,107	600311,737	-22,47955471	-44,02490433
Rota 2 - BR393 2,708m	7513743,266	600261,89	-22,47975492	-44,02538745
Rota 2 - BR393 2,708m	7513724,448	600207,976	-22,47992806	-44,02591028
Rota 2 - BR393 2,708m	7513714,527	600152,778	-22,48002092	-44,02644615
Rota 2 - BR393 2,708m	7513710,638	600093,05	-22,48005955	-44,02702644
Rota 2 - BR393 2,708m	7513705,717	599986,299	-22,48011026	-44,0280637
Rota 2 - BR393 2,708m	7513701,894	599911,828	-22,48014915	-44,02878729
Rota 2 - BR393 2,708m	7513693,693	599797,737	-22,4802299	-44,02989571
Rota 2 - BR393 2,708m	7513688,12	599711,509	-22,48028528	-44,03073346
Rota 2 - BR393 2,708m	7513684,887	599656,188	-22,48031772	-44,03127095
Rota 2 - BR393 2,708m	7513682,304	599594,953	-22,48034462	-44,03186598
Rota 2 - BR393 2,708m	7513681,316	599560,013	-22,48035559	-44,03220551
Rota 2 - BR393 2,708m	7513677,313	599491,184	-22,48039576	-44,03287426
Rota 2 - BR393 2,708m	7513673,347	599430,564	-22,48043512	-44,03346322
Rota 2 - BR393 2,708m	7513670,944	599357,153	-22,4804611	-44,0341766
Rota 2 - BR393 2,708m	7513666,859	599295,792	-22,48050157	-44,03477275
Rota 2 - BR393 2,708m	7513662,977	599217,975	-22,48054116	-44,03552886
Rota 2 - BR393 2,708m	7513658,729	599158,907	-22,48058297	-44,03610272
Rota 2 - Santa Terezinha 475m	7513681,835	599572,004	-22,4803502	-44,032089
Rota 2 - Santa Terezinha 475m	7513697,889	599569,656	-22,48020533	-44,03211283
Rota 2 - Santa Terezinha 475m	7513720,434	599567,546	-22,4800018	-44,03213476
Rota 2 - Santa Terezinha 475m	7513748,519	599567,967	-22,4797481	-44,03213243
Rota 2 - Santa Terezinha 475m	7513790,928	599566,271	-22,47936513	-44,03215157
Rota 2 - Santa Terezinha 475m	7513820,273	599563,542	-22,47910022	-44,03217994
Rota 2 - Santa Terezinha 475m	7513861,028	599563,226	-22,47873211	-44,03218557
Rota 2 - Santa Terezinha 475m	7513861,493	599563,256	-22,47872791	-44,0321853


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 2 - Santa Terezinha 475m	7513905,728	599571,29	-22,47832787	-44,03210999
Rota 2 - Santa Terezinha 475m	7513953,545	599581,978	-22,47789533	-44,03200912
Rota 2 - Santa Terezinha 475m	7513991,468	599588,752	-22,47755239	-44,03194566
Rota 2 - Santa Terezinha 475m	7514011,464	599572,223	-22,47737274	-44,03210756
Rota 2 - Santa Terezinha 475m	7514034,635	599553,257	-22,47716455	-44,03229336
Rota 2 - Santa Terezinha 475m	7514061,348	599532,836	-22,47692445	-44,03249352
Rota 2 - Santa Terezinha 475m	7514079,726	599522,17	-22,47675907	-44,03259834
Rota 2 - Santa Terezinha 475m	7514129,18	599509,412	-22,4763131	-44,03272544
Rota 2 - Hotel 85,6m	7513662,728	599205,129	-22,48054416	-44,0356537
Rota 2 - Hotel 85,6m	7513672,776	599200,373	-22,48045367	-44,03570056
Rota 2 - Hotel 85,6m	7513681,89	599198,434	-22,48037146	-44,03571998
Rota 2 - Hotel 85,6m	7513691,036	599199,294	-22,4802888	-44,03571219
Rota 2 - Hotel 85,6m	7513696,488	599206,461	-22,48023914	-44,03564287
Rota 2 - Hotel 85,6m	7513699,187	599225,868	-22,48021363	-44,03545441
Rota 2 - Hotel 85,6m	7513703,483	599252,868	-22,48017326	-44,03519225
Rota 2 - Bairro São Francisco 176m	7513659,556	599158,518	-22,48057552	-44,03610655
Rota 2 - Bairro São Francisco 176m	7513648,714	599160,103	-22,48067336	-44,03609047
Rota 2 - Bairro São Francisco 176m	7513641,561	599166,988	-22,48073757	-44,03602309
Rota 2 - Bairro São Francisco 176m	7513637,201	599182,159	-22,48077607	-44,03587537
Rota 2 - Bairro São Francisco 176m	7513637,278	599188,101	-22,48077503	-44,03581762
Rota 2 - Bairro São Francisco 176m	7513636,918	599202,54	-22,48077745	-44,03567726
Rota 2 - Bairro São Francisco 176m	7513636,199	599209,161	-22,48078355	-44,03561285
Rota 2 - Bairro São Francisco 176m	7513633,675	599213,73	-22,48080608	-44,03556828
Rota 2 - Bairro São Francisco 176m	7513629,404	599218,114	-22,48084441	-44,03552541
Rota 2 - Bairro São Francisco 176m	7513623,606	599220,571	-22,48089664	-44,03550116
Rota 2 - Bairro São Francisco 176m	7513616,122	599225,732	-22,48096394	-44,03545053
Rota 2 - Bairro São Francisco 176m	7513609,326	599228,262	-22,48102518	-44,03542552
Rota 2 - Bairro São Francisco 176m	7513602,72	599228,509	-22,48108483	-44,03542271
Rota 2 - Bairro São Francisco 176m	7513588,202	599227,401	-22,48121604	-44,03543256
Rota 2 - Bairro São Francisco 176m	7513579,4	599227,577	-22,48129553	-44,03543031
Rota 2 - Bairro São Francisco 176m	7513563,47	599228,081	-22,4814394	-44,03542441
Rota 2 - Bairro São Francisco 176m	7513547,097	599228,354	-22,48158728	-44,03542073
Rota 2 - Bairro São Francisco 176m	7513531,575	599226,025	-22,48172761	-44,0354424
Rota 2 - Bairro São Francisco 679m	7513531,575	599226,025	-22,48172761	-44,0354424
Rota 2 - Bairro São Francisco 679m	7513524,752	599228,094	-22,48178913	-44,03542185
Rota 2 - Bairro São Francisco 679m	7513514,096	599227,572	-22,48188541	-44,03542627
Rota 2 - Bairro São Francisco 679m	7513498,345	599228,353	-22,48202763	-44,03541769
Rota 2 - Bairro São Francisco 679m	7513487,336	599227,94	-22,4821271	-44,03542102
Rota 2 - Bairro São Francisco 679m	7513468,159	599229,999	-22,48230021	-44,0353998
Rota 2 - Bairro São Francisco 679m	7513456,543	599231,464	-22,48240505	-44,03538484
Rota 2 - Bairro São Francisco 679m	7513445,107	599235,193	-22,48250812	-44,03534788
Rota 2 - Bairro São Francisco 679m	7513435,995	599239,266	-22,48259019	-44,03530771
Rota 2 - Bairro São Francisco 679m	7513423,917	599251,49	-22,48269858	-44,03518815


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 2 - Bairro São Francisco 679m	7513410,537	599267,8	-22,48281849	-44,03502877
Rota 2 - Bairro São Francisco 679m	7513375,285	599317,871	-22,483134	-44,03453989
Rota 2 - Bairro São Francisco 679m	7513353,787	599347,828	-22,48332644	-44,03424736
Rota 2 - Bairro São Francisco 679m	7513343,669	599368,331	-22,48341664	-44,03404744
Rota 2 - Bairro São Francisco 679m	7513327,387	599395,047	-22,48356216	-44,03378675
Rota 2 - Bairro São Francisco 679m	7513315,452	599405,759	-22,48366934	-44,03368188
Rota 2 - Bairro São Francisco 679m	7513264,968	599460,518	-22,48412215	-44,03314646
Rota 2 - Bairro São Francisco 679m	7513233,519	599493,212	-22,48440432	-44,0328267
Rota 2 - Bairro São Francisco 679m	7513210,584	599521,02	-22,48460986	-44,03255497
Rota 2 - Bairro São Francisco 679m	7513184,417	599550,379	-22,48484451	-44,03226796
Rota 2 - Bairro São Francisco 679m	7513163,045	599567,715	-22,48503655	-44,03209811
Rota 2 - Bairro São Francisco 679m	7513126,316	599601,861	-22,48536632	-44,03176391
Rota 2 - Bairro São Francisco 679m	7513043,195	599660,648	-22,48611369	-44,03118727
Rota 2 - Bairro São Francisco 328m	7513530,912	599226,074	-22,4817336	-44,03544187
Rota 2 - Bairro São Francisco 328m	7513528,773	599179,268	-22,48175565	-44,03589668
Rota 2 - Bairro São Francisco 328m	7513525,874	599118,49	-22,48178536	-44,03648725
Rota 2 - Bairro São Francisco 328m	7513521,748	599042,191	-22,48182706	-44,0372286
Rota 2 - Bairro São Francisco 328m	7513516,183	598940,371	-22,48188324	-44,03821792
Rota 2 - Bairro São Francisco 328m	7513515,555	598898,261	-22,48189135	-44,03862718
Rota 2 - Bairro São Francisco 215m	7513515,555	598898,261	-22,48189135	-44,03862718
Rota 2 - Bairro São Francisco 215m	7513535,473	598897,8	-22,48171146	-44,0386329
Rota 2 - Bairro São Francisco 215m	7513561,944	598895,998	-22,48147246	-44,03865207
Rota 2 - Bairro São Francisco 215m	7513581,45	598895,039	-22,48129632	-44,03866261
Rota 2 - Bairro São Francisco 215m	7513598,365	598893,345	-22,48114363	-44,03868013
Rota 2 - Bairro São Francisco 215m	7513603,495	598977,9	-22,48109239	-44,0378586
Rota 2 - Bairro São Francisco 215m	7513600,35	599025,092	-22,48111806	-44,03739971
Rota 2 - Bairro São Francisco 167m	7513515,51	598898,163	-22,48189176	-44,03862814
Rota 2 - Bairro São Francisco 167m	7513435,061	598904,45	-22,48261807	-44,03856201
Rota 2 - Bairro São Francisco 167m	7513429,538	598818,659	-22,48267293	-44,03939554
Rota 2 - Bairro São Francisco 96,8m	7513429,538	598818,659	-22,48267293	-44,03939554
Rota 2 - Bairro São Francisco 96,8m	7513332,864	598822,751	-22,48354593	-44,03934974
Rota 2 - Bairro São Francisco 58,1m	7513429,533	598819,07	-22,48267295	-44,03939155
Rota 2 - Bairro São Francisco 58,1m	7513428,566	598760,992	-22,48268505	-44,03995599
Rota 2 - Bairro São Francisco 212m	7513429,744	598818,072	-22,4826711	-44,03940125
Rota 2 - Bairro São Francisco 212m	7513511,62	598814,22	-22,48193176	-44,0394438
Rota 2 - Bairro São Francisco 212m	7513591,312	598809,713	-22,48121218	-44,03949258
Rota 2 - Bairro São Francisco 212m	7513640,479	598800,977	-22,48076857	-44,03958054
Rota 2 - Bairro Cerâmica 1,558m	7513638,278	598802,015	-22,48078839	-44,03957032
Rota 2 - Bairro Cerâmica 1,558m	7513640,509	598882,764	-22,48076357	-44,0387856
Rota 2 - Bairro Cerâmica 1,558m	7513695,349	598873,355	-22,48026876	-44,03888048
Rota 2 - Bairro Cerâmica 1,558m	7513753,224	598846,628	-22,47974753	-44,03914386
Rota 2 - Bairro Cerâmica 1,558m	7513764,272	598834,537	-22,47964844	-44,03926207
Rota 2 - Bairro Cerâmica 1,558m	7513766,624	598794,443	-22,47962952	-44,03965192


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 2 - Bairro Cerâmica 1,558m	7513772,278	598691,621	-22,47958439	-44,04065166
Rota 2 - Bairro Cerâmica 1,558m	7513689,222	598633,481	-22,48033798	-44,04121159
Rota 2 - Bairro Cerâmica 1,558m	7513690,489	598581,621	-22,48032953	-44,04171573
Rota 2 - Bairro Cerâmica 1,558m	7513719,385	598524,517	-22,48007182	-44,04227256
Rota 2 - Bairro Cerâmica 1,558m	7513776,081	598555,506	-22,47955792	-44,04197488
Rota 2 - Bairro Cerâmica 1,558m	7513774,033	598637,561	-22,47957167	-44,04117721
Rota 2 - Bairro Cerâmica 1,558m	7513772,966	598649,438	-22,47958062	-44,0410617
Rota 2 - Bairro Cerâmica 1,558m	7513829,121	598590,674	-22,47907678	-44,04163635
Rota 2 - Bairro Cerâmica 1,558m	7513914,129	598505,367	-22,47831385	-44,04247079
Rota 2 - Bairro Cerâmica 1,558m	7513938,554	598474,171	-22,47809503	-44,04277552
Rota 2 - Bairro Cerâmica 1,558m	7513960,101	598447,792	-22,47790192	-44,04303324
Rota 2 - Bairro Cerâmica 1,558m	7513978,762	598439,777	-22,47773382	-44,0431123
Rota 2 - Bairro Cerâmica 1,558m	7514020,668	598409,032	-22,47735707	-44,04341373
Rota 2 - Bairro Cerâmica 1,558m	7514141,654	598379,445	-22,47626593	-44,0437088
Rota 2 - Bairro Cerâmica 1,558m	7514039,314	598318,995	-22,47719383	-44,04428999
Rota 2 - Bairro Cerâmica 1,558m	7513959,278	598273,26	-22,47791941	-44,04472955
Rota 2 - Bairro Cerâmica 1,558m	7513951,018	598297,159	-22,47799265	-44,04449676
Rota 2 - Bairro Cerâmica 1,558m	7513947,931	598354,325	-22,47801723	-44,04394094
Rota 2 - Bairro Cerâmica 1,558m	7513993,289	598386,704	-22,47760566	-44,04362905
Rota 2 - Bairro Cerâmica 1,586m	7513945,205	598354,398	-22,47804185	-44,04394006
Rota 2 - Bairro Cerâmica 1,586m	7513915,442	598403,102	-22,47830789	-44,04346484
Rota 2 - Bairro Cerâmica 1,586m	7513860,571	598463,418	-22,47880005	-44,04287519
Rota 2 - Bairro Cerâmica 1,586m	7513789,92	598415,413	-22,479441	-44,04333739
Rota 2 - Bairro Cerâmica 1,586m	7513903,661	598238,487	-22,47842379	-44,04506408
Rota 2 - Bairro Cerâmica 1,586m	7513920,241	598195,117	-22,47827652	-44,04548665
Rota 2 - Bairro Cerâmica 1,586m	7513966,514	598127,344	-22,47786245	-44,04614824
Rota 2 - Bairro Cerâmica 1,586m	7513975,598	598111,361	-22,47778131	-44,04630415
Rota 2 - Bairro Cerâmica 1,586m	7514186,012	597795,804	-22,4758988	-44,04938418
Rota 2 - Bairro Cerâmica 1,586m	7514221,764	597744,858	-22,47557877	-44,04988155
Rota 2 - Bairro Cerâmica 1,586m	7514245,689	597704,87	-22,47536496	-44,05027168
Rota 2 - Bairro Cerâmica 1,586m	7514267,307	597703,091	-22,47516979	-44,05029031
Rota 2 - Bairro Cerâmica 1,586m	7514318,242	597692,463	-22,47471031	-44,05039674
Rota 2 - Bairro Cerâmica 1,586m	7514325,173	597694,751	-22,47464757	-44,05037492
Rota 2 - Bairro Cerâmica 1,586m	7514229,104	597841,13	-22,47550696	-44,0489463
Rota 2 - Bairro Cerâmica 1,586m	7514148,661	597964,627	-22,4762265	-44,04774102
Rota 2 - Bairro Cerâmica 1,586m	7514185,338	597993,802	-22,47589353	-44,04745972
Rota 2 - Bairro Cerâmica 1,586m	7514162,009	598037,206	-22,47610177	-44,04703642
Rota 2 - Bairro Cerâmica 1,586m	7514174,341	598048,404	-22,47598973	-44,04692834
Rota 2 - Bairro Cerâmica 333m	7514174,341	598048,404	-22,47598973	-44,04692834
Rota 2 - Bairro Cerâmica 333m	7514050,43	598237,985	-22,47709808	-44,04507806
Rota 2 - Bairro Cerâmica 333m	7514049,693	598238,645	-22,47710471	-44,0450716
Rota 2 - Bairro Cerâmica 333m	7514008,607	598212,797	-22,47747732	-44,04532028
Rota 2 - Bairro Cerâmica 333m	7514038,778	598164,907	-22,47720754	-44,04578762


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 2 - Bairro Cerâmica 178m	7514174,59	598046,713	-22,47598758	-44,04694479
Rota 2 - Bairro Cerâmica 178m	7514284,918	598116,826	-22,47498697	-44,04627016
Rota 2 - Bairro Cerâmica 178m	7514311,119	598077,076	-22,4747526	-44,04665812
Rota 2 - Bairro Cerâmica 495m	7514311,119	598077,076	-22,4747526	-44,04665812
Rota 2 - Bairro Cerâmica 495m	7514380,665	598122,545	-22,47412179	-44,0462205
Rota 2 - Bairro Cerâmica 495m	7514412,293	598141,704	-22,47383499	-44,04603625
Rota 2 - Bairro Cerâmica 495m	7514500,083	598147,92	-22,47304165	-44,04598126
Rota 2 - Bairro Cerâmica 495m	7514580,993	598152,149	-22,47231057	-44,04594517
Rota 2 - Bairro Cerâmica 495m	7514624,023	598148,157	-22,47192211	-44,04598663
Rota 2 - Bairro Cerâmica 495m	7514700,335	598119,435	-22,47123446	-44,0462705
Rota 2 - Bairro Cerâmica 495m	7514776,905	598091,796	-22,4705444	-44,04654386
Rota 2 - Bairro Cerâmica 1,321m	7514311,757	598077,101	-22,47474683	-44,04665792
Rota 2 - Bairro Cerâmica 1,321m	7514338,947	598035,415	-22,47450362	-44,04706476
Rota 2 - Bairro Cerâmica 1,321m	7514257,537	597980,059	-22,47524216	-44,04759775
Rota 2 - Bairro Cerâmica 1,321m	7514215,386	597951,715	-22,47562453	-44,04787064
Rota 2 - Bairro Cerâmica 1,321m	7514274,041	597868,849	-22,47509946	-44,04867966
Rota 2 - Bairro Cerâmica 1,321m	7514326,489	597785,319	-22,4746305	-44,04949475
Rota 2 - Bairro Cerâmica 1,321m	7514407,54	597665,935	-22,47390522	-44,05066006
Rota 2 - Bairro Cerâmica 1,321m	7514482,328	597639,93	-22,47323116	-44,05091742
Rota 2 - Bairro Cerâmica 1,321m	7514368,629	597812,929	-22,47424828	-44,049229
Rota 2 - Bairro Cerâmica 1,321m	7514349,33	597847,591	-22,47442062	-44,04889092
Rota 2 - Bairro Cerâmica 1,321m	7514377,576	597863,845	-22,47416454	-44,04873468
Rota 2 - Bairro Cerâmica 1,321m	7514390,394	597858,486	-22,47404906	-44,04878756
Rota 2 - Bairro Cerâmica 1,321m	7514409,251	597846,252	-22,47387943	-44,04890763
Rota 2 - Bairro Cerâmica 1,321m	7514462,621	597767,014	-22,4734019	-44,04968105
Rota 2 - Bairro Cerâmica 1,321m	7514505,368	597700,294	-22,47301959	-44,05033215
Rota 2 - Bairro Cerâmica 1,321m	7514569,98	597603,503	-22,4724415	-44,05127686
Rota 2 - Bairro Cerâmica 1,321m	7514654,648	597569,539	-22,47167865	-44,05161216
Rota 2 - Bairro Cerâmica 503m	7514654,648	597569,539	-22,47167865	-44,05161216
Rota 2 - Bairro Cerâmica 503m	7514550,237	597730,893	-22,47261255	-44,05003751
Rota 2 - Bairro Cerâmica 503m	7514567,567	597742,14	-22,47245536	-44,04992928
Rota 2 - Bairro Cerâmica 503m	7514576,992	597744,655	-22,47237009	-44,04990541
Rota 2 - Bairro Cerâmica 503m	7514594,953	597733,008	-22,47220851	-44,05001971
Rota 2 - Bairro Cerâmica 503m	7514648,723	597690,773	-22,47172524	-44,05043351
Rota 2 - Bairro Cerâmica 503m	7514674,77	597669,49	-22,47149118	-44,05064197
Rota 2 - Bairro Cerâmica 503m	7514684,448	597663,908	-22,47140408	-44,05069681
Rota 2 - Bairro Cerâmica 503m	7514693,467	597666,21	-22,47132248	-44,050675
Rota 2 - Bairro Cerâmica 503m	7514700,036	597672,562	-22,47126279	-44,05061367
Rota 2 - Bairro Cerâmica 503m	7514698,554	597681,759	-22,47127564	-44,05052419
Rota 2 - Bairro Cerâmica 503m	7514692,829	597693,793	-22,47132667	-44,05040687
Rota 2 - Bairro Cerâmica 503m	7514649,557	597726,842	-22,47171565	-44,050083
Rota 2 - Bairro Cerâmica 503m	7514615,234	597755,311	-22,47202404	-44,0498042
Rota 2 - Bairro Cerâmica 503m	7514615,138	597760,911	-22,47202459	-44,04974977

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 2 - Bairro De Fãjtima 111m	7514653,948	597569,816	-22,47168496	-44,05160943
Rota 2 - Bairro De Fãjtima 111m	7514678,852	597561,958	-22,47146046	-44,05168733
Rota 2 - Bairro De Fãjtima 111m	7514737,602	597500,261	-22,4709333	-44,05229058
Rota 2 - Bairro De Fãjtima 1,035m	7514679,147	597561,47	-22,47145782	-44,05169209
Rota 2 - Bairro De Fãjtima 1,035m	7514725,858	597574,452	-22,47103515	-44,05156879
Rota 2 - Bairro De Fãjtima 1,035m	7514717,157	597603,014	-22,47111211	-44,05129066
Rota 2 - Bairro De Fãjtima 1,035m	7514742,73	597632,5	-22,47087943	-44,05100566
Rota 2 - Bairro De Fãjtima 1,035m	7514910,448	597666,404	-22,46936252	-44,05068647
Rota 2 - Bairro De Fãjtima 1,035m	7514920,206	597619,567	-22,46927706	-44,05114227
Rota 2 - Bairro De Fãjtima 1,035m	7515021,976	597637,906	-22,46835674	-44,0509703
Rota 2 - Bairro De Fãjtima 1,035m	7515125,17	597654,824	-22,46742365	-44,05081223
Rota 2 - Bairro De Fãjtima 1,035m	7515138,874	597644,163	-22,46730047	-44,05091668
Rota 2 - Bairro De Fãjtima 1,035m	7515228,681	597661,642	-22,46648827	-44,05075234
Rota 2 - Bairro De Fãjtima 1,035m	7515236,811	597673,562	-22,46641414	-44,05063699
Rota 2 - Bairro De Fãjtima 1,035m	7515263,071	597681,393	-22,46617649	-44,05056249
Rota 2 - Bairro De Fãjtima 1,035m	7515270,711	597690,038	-22,46610699	-44,05047895
Rota 2 - Bairro De Fãjtima 1,035m	7515278,875	597694,456	-22,46603299	-44,05043651
Rota 2 - Bairro De Fãjtima 1,035m	7515310,015	597781,724	-22,46574671	-44,0495903
Rota 2 - Bairro De Fãjtima 1,035m	7515321,447	597791,796	-22,46564287	-44,04949312
Rota 2 - Bairro De Fãjtima 1,035m	7515333,085	597785,052	-22,46553813	-44,04955938
Rota 2 - Bairro De Fãjtima 1,035m	7515372,173	597739,91	-22,46518765	-44,05000051
Rota 2 - Bairro De Fãjtima 1,035m	7515335,758	597607,149	-22,46552417	-44,05128852
Rota 2 - Bairro De Fãjtima 1,924m	7514920,753	597619,47	-22,46927212	-44,05114325
Rota 2 - Bairro De Fãjtima 1,924m	7514817,137	597599,175	-22,47020923	-44,05133413
Rota 2 - Bairro De Fãjtima 1,924m	7514840,442	597588,735	-22,46999931	-44,05143703
Rota 2 - Bairro De Fãjtima 1,924m	7514910,292	597559,326	-22,46937005	-44,05172715
Rota 2 - Bairro De Fãjtima 1,924m	7514976,207	597501,524	-22,46877796	-44,05229297
Rota 2 - Bairro De Fãjtima 1,924m	7515008,421	597462,455	-22,4684892	-44,05267465
Rota 2 - Bairro De Fãjtima 1,924m	7515028,659	597429,143	-22,4683083	-44,05299965
Rota 2 - Bairro De Fãjtima 1,924m	7515039,038	597396,664	-22,4682164	-44,05331595
Rota 2 - Bairro De Fãjtima 1,924m	7515036,19	597326,405	-22,46824614	-44,05399861
Rota 2 - Bairro De Fãjtima 1,924m	7515036,046	597277,873	-22,4682502	-44,05447027
Rota 2 - Bairro De Fãjtima 1,924m	7515043,756	597246,881	-22,46818232	-44,05477196
Rota 2 - Bairro De Fãjtima 1,924m	7515053,567	597216,225	-22,46809545	-44,0550705
Rota 2 - Bairro De Fãjtima 1,924m	7515058,712	597171,436	-22,46805153	-44,05550611
Rota 2 - Bairro De Fãjtima 1,924m	7515065,634	597133,863	-22,46799114	-44,05587171
Rota 2 - Bairro De Fãjtima 1,924m	7515096,921	597103,917	-22,46771023	-44,05616466
Rota 2 - Bairro De Fãjtima 1,924m	7515123,627	597077,269	-22,46747052	-44,05642528
Rota 2 - Bairro De Fãjtima 1,924m	7515135,151	597056,762	-22,46736759	-44,05662529
Rota 2 - Bairro De Fãjtima 1,924m	7515148,738	597037,992	-22,46724592	-44,05680854
Rota 2 - Bairro De Fãjtima 1,924m	7515162,189	597022,592	-22,4671253	-44,05695904
Rota 2 - Bairro De Fãjtima 1,924m	7515184,059	596996,719	-22,46692922	-44,05721183
Rota 2 - Bairro De Fãjtima 1,924m	7515199,395	596984,941	-22,46679136	-44,05732723

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 2 - Bairro De Fãjtima 1,924m	7515214,6	596982,744	-22,46665415	-44,05734951
Rota 2 - Bairro De Fãjtima 1,924m	7515238,454	596975,39	-22,4664391	-44,05742244
Rota 2 - Bairro De Fãjtima 1,924m	7515268,436	596967,513	-22,46616872	-44,05750082
Rota 2 - Bairro De Fãjtima 1,924m	7515303,253	596956,092	-22,46585487	-44,05761395
Rota 2 - Bairro De Fãjtima 1,924m	7515319,601	596937,828	-22,46570824	-44,05779246
Rota 2 - Bairro De Fãjtima 1,924m	7515342,241	596928,893	-22,46550424	-44,05788067
Rota 2 - Bairro De Fãjtima 1,924m	7515364,331	596919,059	-22,46530526	-44,0579776
Rota 2 - Bairro De Fãjtima 1,924m	7515380,643	596917,142	-22,46515803	-44,05799722
Rota 2 - Bairro De Fãjtima 1,924m	7515406,68	596923,581	-22,46492248	-44,05793624
Rota 2 - Bairro De Fãjtima 1,924m	7515441,914	596927,502	-22,46460399	-44,05790028
Rota 2 - Bairro De Fãjtima 1,924m	7515473,894	596928,217	-22,46431508	-44,05789528
Rota 2 - Bairro De Fãjtima 1,924m	7515519,005	596927,602	-22,46390764	-44,05790401
Rota 2 - Bairro De Fãjtima 1,924m	7515539,902	596932,996	-22,46371858	-44,05785287
Rota 2 - Bairro De Fãjtima 1,924m	7515553,273	596935,791	-22,46359764	-44,05782652
Rota 2 - Bairro De Fãjtima 1,924m	7515611,088	596911,485	-22,46307678	-44,05806627
Rota 2 - Bairro De Fãjtima 1,924m	7515653,765	596895,868	-22,46269218	-44,05822065
Rota 2 - Bairro De Fãjtima 1,924m	7515686,17	596881,249	-22,4624003	-44,0583647
Rota 2 - Bairro De Fãjtima 1,924m	7515711,544	596861,585	-22,46217222	-44,05855735
Rota 2 - Bairro De Fãjtima 1,924m	7515731,249	596846,907	-22,46199505	-44,0587012
Rota 2 - Bairro De Fãjtima 1,924m	7515749,787	596834,874	-22,46182828	-44,05881927
Rota 2 - Bairro De Fãjtima 1,924m	7515760,056	596816,016	-22,4617366	-44,05900317
Rota 2 - Bairro De Fãjtima 1,924m	7515760,667	596793,03	-22,46173238	-44,0592266
Rota 2 - Bairro De Fãjtima 1,924m	7515768,982	596765,516	-22,46165883	-44,0594945
Rota 2 - Bairro De Fãjtima 1,924m	7515776,129	596751,714	-22,46159505	-44,05962907
Rota 2 - Bairro De Fãjtima 1,924m	7515831,625	596696,391	-22,46109691	-44,0601701
Rota 2 - Bairro De Fãjtima 1,924m	7515882,996	596658,792	-22,460635	-44,06053863
Rota 2 - Bairro De Fãjtima 1,924m	7515934,868	596722,083	-22,46016287	-44,0599267
Rota 2 - Bairro De Fãjtima 1,924m	7515883,725	596790,535	-22,46062096	-44,05925835
Rota 2 - Bairro De Fãjtima 1,924m	7515887,45	596811,033	-22,46058615	-44,05905936
Rota 2 - Bairro De Fãjtima 1,924m	7515909,721	596820,127	-22,46038446	-44,05897235
Rota 2 - Bairro De Fãjtima 841m	7515935,153	596721,772	-22,46016031	-44,05992975
Rota 2 - Bairro De Fãjtima 841m	7515986,866	596685,049	-22,45969528	-44,06028978
Rota 2 - Bairro De Fãjtima 841m	7516034,188	596668,112	-22,45926878	-44,06045726
Rota 2 - Bairro De Fãjtima 841m	7516120,242	596650,231	-22,45849249	-44,06063627
Rota 2 - Bairro De Fãjtima 841m	7516166,18	596643,559	-22,45807791	-44,0607039
Rota 2 - Bairro De Fãjtima 841m	7516198,948	596644,719	-22,45778186	-44,06069462
Rota 2 - Bairro De Fãjtima 841m	7516292,133	596647,8	-22,45693996	-44,06067036
Rota 2 - Bairro De Fãjtima 841m	7516449,758	596600,447	-22,45551884	-44,06114013
Rota 2 - Bairro De Fãjtima 841m	7516529,578	596579,731	-22,45479901	-44,0613463
Rota 2 - Bairro De Fãjtima 841m	7516568,725	596565,981	-22,45444618	-44,0614823
Rota 2 - Bairro De Fãjtima 841m	7516629,615	596543,517	-22,45389743	-44,06170431
Rota 2 - Bairro De Fãjtima 841m	7516664,61	596528,455	-22,45358218	-44,0618528
Rota 2 - Bairro De Fãjtima 841m	7516727,605	596528,296	-22,45301317	-44,06185818




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 2 - Bairro De Fãjtima 841m	7516739,606	596524,656	-22,45290497	-44,06189428
Rota 2 - Bairro De Fãjtima 459m	7516461,907	596596,945	-22,45540929	-44,0611749
Rota 2 - Bairro De Fãjtima 459m	7516362,231	596593,23	-22,45630986	-44,06120494
Rota 2 - Bairro De Fãjtima 459m	7516377,489	596577,796	-22,45617291	-44,06135585
Rota 2 - Bairro De Fãjtima 459m	7516455,119	596540,082	-22,45547382	-44,06172708
Rota 2 - Bairro De Fãjtima 459m	7516515,77	596512,23	-22,45492754	-44,06200143
Rota 2 - Bairro De Fãjtima 459m	7516560,589	596486,898	-22,45452413	-44,06225033
Rota 2 - Bairro De Fãjtima 459m	7516576,203	596468,601	-22,45438412	-44,06242909
Rota 2 - Bairro De Fãjtima 459m	7516576,821	596449,082	-22,45437965	-44,06261881
Rota 2 - Bairro De Fãjtima 459m	7516547,208	596364,604	-22,45465191	-44,06343796
Rota 2 - Bairro De Fãjtima 492m	7516362,381	596592,596	-22,45630854	-44,06121111
Rota 2 - Bairro De Fãjtima 492m	7516263,878	596589,024	-22,45719851	-44,06123983
Rota 2 - Bairro De Fãjtima 492m	7516220,727	596587,61	-22,45758836	-44,06125095
Rota 2 - Bairro De Fãjtima 492m	7516171,87	596585,654	-22,45802979	-44,06126698
Rota 2 - Bairro De Fãjtima 492m	7516090,879	596602,736	-22,4587604	-44,06109605
Rota 2 - Bairro De Fãjtima 492m	7515956,223	596627,925	-22,45997531	-44,06084306
Rota 2 - Bairro De Fãjtima 492m	7515912,063	596636,984	-22,46037368	-44,06075233
Rota 2 - Bairro De Fãjtima 492m	7515883,24	596658,925	-22,46063279	-44,06053735
Rota 2 - Bairro De Fãjtima 96,6m	7514569,701	597604,888	-22,47244394	-44,05126337
Rota 2 - Bairro De Fãjtima 96,6m	7514480,112	597640,949	-22,47325112	-44,05090738
Rota 2 - Bairro De Fãjtima 88,7m	7514407,182	597666,597	-22,47390841	-44,05065361
Rota 2 - Bairro De Fãjtima 88,7m	7514322,946	597694,297	-22,47466771	-44,0503792
Rota 2 - Bairro Morada do Vale 3,685m	7514246,329	597705,366	-22,47535914	-44,0502669
Rota 2 - Bairro Morada do Vale 3,685m	7514230,544	597687,781	-22,47550273	-44,05043684
Rota 2 - Bairro Morada do Vale 3,685m	7514260,199	597632,702	-22,47523802	-44,050974
Rota 2 - Bairro Morada do Vale 3,685m	7514211,892	597617,43	-22,47567524	-44,05111946
Rota 2 - Bairro Morada do Vale 3,685m	7514162,303	597688,982	-22,47611907	-44,05042097
Rota 2 - Bairro Morada do Vale 3,685m	7514079,35	597813,356	-22,47686125	-44,04920701
Rota 2 - Bairro Morada do Vale 3,685m	7513995,271	597936,722	-22,47761364	-44,04800277
Rota 2 - Bairro Morada do Vale 3,685m	7513920,88	598048,584	-22,47827918	-44,04691093
Rota 2 - Bairro Morada do Vale 3,685m	7513845,793	598162,436	-22,47895088	-44,04579968
Rota 2 - Bairro Morada do Vale 3,685m	7513755,364	598295,585	-22,47976003	-44,04449993
Rota 2 - Bairro Morada do Vale 3,685m	7513664,633	598235,497	-22,48058305	-44,04507834
Rota 2 - Bairro Morada do Vale 3,685m	7513743,031	598118,496	-22,47988163	-44,04622041
Rota 2 - Bairro Morada do Vale 3,685m	7513697,127	598090,774	-22,48029786	-44,04648702
Rota 2 - Bairro Morada do Vale 3,685m	7513622,567	598206,588	-22,48096468	-44,04535672
Rota 2 - Bairro Morada do Vale 3,685m	7513575,169	598172,72	-22,48139477	-44,04568298
Rota 2 - Bairro Morada do Vale 3,685m	7513649,853	598059,078	-22,4807267	-44,04679217
Rota 2 - Bairro Morada do Vale 3,685m	7513608,111	598032,739	-22,48110526	-44,0470456
Rota 2 - Bairro Morada do Vale 3,685m	7513531,521	598146,013	-22,48179056	-44,04593987
Rota 2 - Bairro Morada do Vale 3,685m	7513490,042	598117,947	-22,48216685	-44,04621009
Rota 2 - Bairro Morada do Vale 3,685m	7513565,575	598004,096	-22,48149112	-44,04732138
Rota 2 - Bairro Morada do Vale 3,685m	7513513,402	597970,635	-22,48196431	-44,04764338


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 2 - Bairro Morada do Vale 3,685m	7513437,91	598086,301	-22,48263957	-44,04651446
Rota 2 - Bairro Morada do Vale 3,685m	7513389,285	598050,986	-22,48308082	-44,04685471
Rota 2 - Bairro Morada do Vale 3,685m	7513465,243	597936,324	-22,48240129	-44,04797391
Rota 2 - Bairro Morada do Vale 3,685m	7513422,618	597910,067	-22,48278782	-44,04822648
Rota 2 - Bairro Morada do Vale 3,685m	7513347,087	598024,892	-22,48346348	-44,04710573
Rota 2 - Bairro Morada do Vale 3,685m	7513306,816	597997,422	-22,48382882	-44,04737025
Rota 2 - Bairro Morada do Vale 3,685m	7513381,203	597880,464	-22,48316361	-44,04851167
Rota 2 - Bairro Morada do Vale 3,685m	7513336,537	597850,008	-22,48356882	-44,04880494
Rota 2 - Bairro Morada do Vale 3,685m	7513247,325	597956,106	-22,48436856	-44,04776816
Rota 2 - Bairro Morada do Vale 3,685m	7513205,115	598013,565	-22,48474653	-44,04720705
Rota 2 - Bairro Morada do Vale 3,685m	7513400,032	598144,06	-22,48297839	-44,04595071
Rota 2 - Bairro Morada do Vale 3,685m	7513509,138	598215,572	-22,48198875	-44,04526238
Rota 2 - Bairro Morada do Vale 3,685m	7513582,493	598264,296	-22,48132334	-44,04479333
Rota 2 - Bairro Morada do Vale 3,685m	7513714,576	598356,518	-22,48012495	-44,04390516
Rota 2 - Bairro Morada do Vale 3,685m	7513675,562	598415,873	-22,48047393	-44,04332582
Rota 2 - Bairro Morada do Vale 600m	7513675,707	598416,235	-22,48047261	-44,04332231
Rota 2 - Bairro Morada do Vale 600m	7513178,583	598080,593	-22,48498234	-44,0465539
Rota 2 - Bairro Morada do Vale 66,2m	7513675,4	598416,603	-22,48047535	-44,04331872
Rota 2 - Bairro Morada do Vale 66,2m	7513640,587	598472,848	-22,48078657	-44,04276987
Rota 2 - Bairro Morada do Vale 543m	7513640,587	598472,848	-22,48078657	-44,04276987
Rota 2 - Bairro Morada do Vale 543m	7513188,912	598172,035	-22,48488378	-44,04566572
Rota 2 - Bairro Morada do Vale 467m	7513640,188	598473,191	-22,48079015	-44,04276651
Rota 2 - Bairro Morada do Vale 467m	7513603,112	598541,365	-22,48112112	-44,04210157
Rota 2 - Bairro Morada do Vale 467m	7513530,892	598486,696	-22,48177662	-44,04262846
Rota 2 - Bairro Morada do Vale 467m	7513425,219	598415,393	-22,48273525	-44,04331495
Rota 2 - Bairro Morada do Vale 467m	7513283,685	598319,38	-22,48401923	-44,0442394
Rota 2 - Bairro Morada do Vale 127m	7513178,93	598247,953	-22,48496957	-44,04492718
Rota 2 - Bairro Morada do Vale 127m	7513283,68	598320,176	-22,48401923	-44,04423167
Rota 2 - Bairro Morada do Vale 70m	7513283,58	598319,285	-22,48402019	-44,04424032
Rota 2 - Bairro Morada do Vale 70m	7513245,215	598377,848	-22,48436335	-44,04366871
Rota 2 - Bairro Morada do Vale 88,6m	7513245,215	598377,848	-22,48436335	-44,04366871
Rota 2 - Bairro Morada do Vale 88,6m	7513170,384	598330,435	-22,48504202	-44,04412493
Rota 2 - Bairro Morada do Vale 610m	7513245,215	598377,848	-22,48436335	-44,04366871
Rota 2 - Bairro Morada do Vale 610m	7513591,949	598617,404	-22,48121755	-44,0413618
Rota 2 - Bairro Morada do Vale 610m	7513587,261	598715,558	-22,48125423	-44,04040748
Rota 2 - Bairro Morada do Vale 610m	7513590,843	598805,328	-22,48121667	-44,03953516
Rota 2 - Boa Vista 1,929m	7513590,5	598804,824	-22,4812198	-44,03954004
Rota 2 - Boa Vista 1,929m	7513638,048	598801,676	-22,48079049	-44,0395736
Rota 2 - Boa Vista 1,929m	7513646,129	598944,182	-22,48070924	-44,03818899
Rota 2 - Boa Vista 1,929m	7513648,643	598978,071	-22,48068457	-44,03785976
Rota 2 - Boa Vista 1,929m	7513650,026	599046,883	-22,48066809	-44,03719101
Rota 2 - Boa Vista 1,929m	7513653,065	599119,043	-22,48063645	-44,03648983
Rota 2 - Boa Vista 1,929m	7513655,777	599179,926	-22,48060841	-44,03589823


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 2 - Boa Vista 1,929m	7513659,78	599253,326	-22,48056799	-44,03518506
Rota 2 - Boa Vista 1,929m	7513663,216	599309,342	-22,48053369	-44,03464082
Rota 2 - Boa Vista 1,929m	7513669,499	599426,425	-22,48047012	-44,03350321
Rota 2 - Boa Vista 1,929m	7513675,694	599564,73	-22,4804061	-44,03215932
Rota 2 - Boa Vista 1,929m	7513678,561	599623,448	-22,48037677	-44,03158878
Rota 2 - Boa Vista 1,929m	7513680,656	599656,385	-22,48035593	-44,03126877
Rota 2 - Boa Vista 1,929m	7513679,63	599705,574	-22,48036232	-44,03079061
Rota 2 - Boa Vista 1,929m	7513658,368	599715,825	-22,48055377	-44,03068963
Rota 2 - Boa Vista 1,929m	7513659,73	599755,884	-22,48053913	-44,03030036
Rota 2 - Boa Vista 1,929m	7513662,716	599777,135	-22,48051092	-44,030094
Rota 2 - Boa Vista 1,929m	7513663,771	599822,035	-22,48049876	-44,02965765
Rota 2 - Boa Vista 1,929m	7513660,639	599882,98	-22,48052348	-44,02906509
Rota 2 - Boa Vista 1,929m	7513649,421	599928,674	-22,48062214	-44,02862025
Rota 2 - Boa Vista 1,929m	7513590,067	599928,109	-22,4811583	-44,028622
Rota 2 - Boa Vista 1,929m	7513562,158	599928,417	-22,48141037	-44,02861725
Rota 2 - Boa Vista 1,929m	7513511,089	599931,058	-22,48187152	-44,02858837
Rota 2 - Boa Vista 1,929m	7513498,474	599936,655	-22,48198513	-44,02853317
Rota 2 - Boa Vista 1,929m	7513499,683	599996,99	-22,48197068	-44,02794681
Rota 2 - Boa Vista 1,929m	7513508,072	600228,465	-22,48188132	-44,02569745
Rota 2 - Boa Vista 1,929m	7513513,615	600232,429	-22,48183102	-44,02565928
Rota 2 - Boa Vista 1,929m	7513551,519	600221,441	-22,48148929	-44,02576847
Rota 2 - Boa Vista 1,929m	7513599,984	600217,69	-22,48105174	-44,025808
Rota 2 - Boa Vista 1,929m	7513629,308	600217,978	-22,48078685	-44,02580704
Rota 2 - Boa Vista 1,929m	7513664,927	600225,818	-22,48046465	-44,02573309
Rota 2 - Boa Vista 1,929m	7513694,928	600224,876	-22,48019371	-44,02574415
Rota 2 - Boa Vista 1,929m	7513724,184	600323,661	-22,47992365	-44,02478584
Rota 2 - BR393 6,864m	7513724,191	600323,159	-22,47992362	-44,02479072
Rota 2 - BR393 6,864m	7513757,566	600309,577	-22,47962294	-44,02492485
Rota 2 - BR393 6,864m	7513792,396	600381,519	-22,4793041	-44,02422781
Rota 2 - BR393 6,864m	7513831,221	600461,315	-22,47894871	-44,02345468
Rota 2 - BR393 6,864m	7513855,952	600516,273	-22,47872209	-44,02292208
Rota 2 - BR393 6,864m	7513884,456	600572,675	-22,4784613	-44,0223757
Rota 2 - BR393 6,864m	7513913,231	600634,66	-22,47819773	-44,02177505
Rota 2 - BR393 6,864m	7513948,563	600719,768	-22,47787357	-44,0209501
Rota 2 - BR393 6,864m	7513959,446	600747,677	-22,47777361	-44,02067953
Rota 2 - BR393 6,864m	7513990,662	600857,454	-22,47748516	-44,01961455
Rota 2 - BR393 6,864m	7514004,406	600948,546	-22,47735563	-44,01873006
Rota 2 - BR393 6,864m	7514011,488	601018,622	-22,47728752	-44,01804941
Rota 2 - BR393 6,864m	7514026,502	601133,983	-22,47714507	-44,01692913
Rota 2 - BR393 6,864m	7514046,932	601279,262	-22,47695191	-44,01551842
Rota 2 - BR393 6,864m	7514068,523	601445,945	-22,47674699	-44,01389974
Rota 2 - BR393 6,864m	7514110,376	601771,874	-22,47634954	-44,01073461
Rota 2 - BR393 6,864m	7514135,945	601964,626	-22,47610708	-44,00886284


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 2 - BR393 6,864m	7514154,662	602113,227	-22,47592913	-44,00741975
Rota 2 - BR393 6,864m	7514172,908	602282,66	-22,47575418	-44,00577417
Rota 2 - BR393 6,864m	7514188,515	602389,575	-22,47560679	-44,00473604
Rota 2 - BR393 6,864m	7514211,396	602589,725	-22,4753881	-44,00279221
Rota 2 - BR393 6,864m	7514232,986	602759,873	-22,47518285	-44,0011399
Rota 2 - BR393 6,864m	7514252,602	602836,186	-22,47500107	-44,00039948
Rota 2 - BR393 6,864m	7514278,25	602907,114	-22,47476512	-43,99971178
Rota 2 - BR393 6,864m	7514287,602	602942,619	-22,47467851	-43,9993673
Rota 2 - BR393 6,864m	7514283,026	602982,481	-22,47471744	-43,99897958
Rota 2 - BR393 6,864m	7514262,615	603020,442	-22,47489951	-43,9986093
Rota 2 - BR393 6,864m	7514214,319	603069,354	-22,4753328	-43,99813079
Rota 2 - BR393 6,864m	7514179,391	603112,55	-22,47564569	-43,99770868
Rota 2 - BR393 6,864m	7514164,411	603163,031	-22,47577794	-43,99721708
Rota 2 - BR393 6,864m	7514166,49	603191,072	-22,47575747	-43,99694467
Rota 2 - BR393 6,864m	7514182,548	603231,883	-22,47560996	-43,99654907
Rota 2 - BR393 6,864m	7514212,076	603267,54	-22,47534109	-43,99620444
Rota 2 - BR393 6,864m	7514234,809	603279,889	-22,475135	-43,99608589
Rota 2 - BR393 6,864m	7514314,52	603321,215	-22,47441249	-43,99568943
Rota 2 - BR393 6,864m	7514349,137	603352,371	-22,47409793	-43,99538887
Rota 2 - BR393 6,864m	7514368,428	603396,725	-22,47392099	-43,99495905
Rota 2 - BR393 6,864m	7514369,867	603442,101	-22,47390524	-43,99451813
Rota 2 - BR393 6,864m	7514352,055	603484,873	-22,47406354	-43,99410126
Rota 2 - BR393 6,864m	7514306,633	603536,814	-22,47447067	-43,99359347
Rota 2 - BR393 6,864m	7514266,975	603599,167	-22,4748251	-43,99298487
Rota 2 - BR393 6,864m	7514263,217	603624,347	-22,47485752	-43,9927399
Rota 2 - BR393 6,864m	7514269,075	603668,712	-22,47480191	-43,99230909
Rota 2 - BR393 6,864m	7514306,053	603788,545	-22,47446062	-43,99114684
Rota 2 - BR393 6,864m	7514331,537	603894,798	-22,47422397	-43,99011582
Rota 2 - BR393 6,864m	7514333,316	603987,073	-22,47420228	-43,98921911
Rota 2 - BR393 6,864m	7514309,009	604128,186	-22,47441324	-43,98784602
Rota 2 - BR393 6,864m	7514245,298	604250,309	-22,47498125	-43,98665491
Rota 2 - BR393 6,864m	7514143,261	604359,442	-22,47589625	-43,98558752
Rota 2 - BR393 6,864m	7514025,582	604480,244	-22,47695181	-43,98440566
Rota 2 - BR393 6,864m	7513861,13	604642,135	-22,47842732	-43,98282135
Rota 2 - BR393 6,864m	7513712,105	604788,641	-22,47976441	-43,98138756
Rota 2 - BR393 6,864m	7513645,888	604877,294	-22,48035708	-43,98052152
Rota 2 - BR393 6,864m	7513601,357	604953,599	-22,48075462	-43,97977693
Rota 2 - BR393 6,864m	7513572,168	605051,257	-22,48101226	-43,9788258
Rota 2 - BR393 6,864m	7513538,898	605210,63	-22,48130296	-43,97727456
Rota 2 - BR393 6,864m	7513505,546	605379,157	-22,48159381	-43,97563435
Rota 2 - BR393 6,864m	7513495,875	605440,077	-22,4816774	-43,97504158
Rota 2 - BR393 6,864m	7513466,027	605594,815	-22,48193744	-43,97353561
Rota 2 - BR393 6,864m	7513409,927	605770,596	-22,48243328	-43,97182335


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 2 - BR393 6,864m	7513332,052	606010,593	-22,4831218	-43,96948547
Rota 2 - BR393 6,864m	7513270,358	606196,636	-22,48366748	-43,96767306
Rota 2 - BR393 6,864m	7513209,019	606403,497	-22,48420864	-43,96565832
Rota 2 - BR393 6,864m	7513168,174	606435,501	-22,48457558	-43,96534451
Rota 2 - BR393 6,864m	7513131,149	606534,511	-22,48490383	-43,96437966
- Fabrica de Carrinhos de Supermercado	7513504,9	605379,271	-22,48159964	-43,97563319
- Fabrica de Carrinhos de Supermercado	7513490,689	605371,935	-22,48172845	-43,97570355
- Fabrica de Carrinhos de Supermercado	7513481,119	605348,745	-22,48181633	-43,97592831
- Fabrica de Carrinhos de Supermercado	7513466,443	605289,792	-22,48195253	-43,97650034
- Fabrica de Carrinhos de Supermercado	7513471,181	605268,512	-22,48191104	-43,97670749
- Fabrica de Carrinhos de Supermercado	7513485,051	605213,806	-22,48178914	-43,97724012
- Fabrica de Carrinhos de Supermercado	7513485,869	605197,546	-22,48178275	-43,97739822
- Fabrica de Carrinhos de Supermercado	7513477,9	605184,307	-22,48185555	-43,97752637
- Fabrica de Carrinhos de Supermercado	7513437,774	605173,79	-22,48221864	-43,97762592
Rota 2 - BR393 15,366m	7513167,931	606434,902	-22,48457781	-43,96535031
Rota 2 - BR393 15,366m	7513185,565	606460,313	-22,48441695	-43,96510451
Rota 2 - BR393 15,366m	7513153,628	606572,887	-22,48469838	-43,96400817
Rota 2 - BR393 15,366m	7513152,321	606595,768	-22,48470877	-43,96378569
Rota 2 - BR393 15,366m	7513155,527	606629,549	-22,4846777	-43,96345756
Rota 2 - BR393 15,366m	7513176,549	606684,934	-22,48448435	-43,96292065
Rota 2 - BR393 15,366m	7513226,021	606775,99	-22,4840318	-43,96203894
Rota 2 - BR393 15,366m	7513265,433	606852,866	-22,48367099	-43,96129438
Rota 2 - BR393 15,366m	7513301,229	606925,63	-22,4833431	-43,96058956
Rota 2 - BR393 15,366m	7513308,703	606958,598	-22,48327353	-43,96026962
Rota 2 - BR393 15,366m	7513316,155	607009,267	-22,48320304	-43,95977764
Rota 2 - BR393 15,366m	7513331,767	607090,318	-22,48305694	-43,95899091
Rota 2 - BR393 15,366m	7513350,749	607214,018	-22,48287772	-43,95778988
Rota 2 - BR393 15,366m	7513359,775	607268,466	-22,48279277	-43,95726127
Rota 2 - BR393 15,366m	7513372,606	607298,102	-22,48267501	-43,95697409
Rota 2 - BR393 15,366m	7513372,666	607298,53	-22,48267444	-43,95696993
Rota 2 - BR393 15,366m	7513388,832	607323,271	-22,48252687	-43,95673055
Rota 2 - BR393 15,366m	7513418,701	607362,709	-22,48225459	-43,95634926
Rota 2 - BR393 15,366m	7513498,469	607467,315	-22,48152749	-43,95533794
Rota 2 - BR393 15,366m	7513514,229	607488,385	-22,48138381	-43,95513423
Rota 2 - BR393 15,366m	7513506,169	607519,96	-22,48145463	-43,95482678
Rota 2 - BR393 15,366m	7513550,183	607529,675	-22,48105646	-43,95473534
Rota 2 - BR393 15,366m	7513611,062	607613,164	-22,48050131	-43,95392801
Rota 2 - BR393 15,366m	7513644,49	607655,936	-22,48019667	-43,95351456
Rota 2 - BR393 15,366m	7513710,95	607738,524	-22,47959116	-43,95271637
Rota 2 - BR393 15,366m	7513789,824	607839,276	-22,47887237	-43,95174249
Rota 2 - BR393 15,366m	7513850,304	607918,337	-22,47832107	-43,95097818
Rota 2 - BR393 15,366m	7513865,478	607975,01	-22,47818044	-43,95042839
Rota 2 - BR393 15,366m	7513878,393	608075,002	-22,47805745	-43,94945743


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 2 - BR393 15,366m	7513892,027	608175,299	-22,47792795	-43,94848355
Rota 2 - BR393 15,366m	7513920,074	608286,536	-22,47766756	-43,94740432
Rota 2 - BR393 15,366m	7513943,581	608369,391	-22,47744997	-43,94660064
Rota 2 - BR393 15,366m	7513977,316	608494,804	-22,47713729	-43,94538404
Rota 2 - BR393 15,366m	7514018,325	608639,077	-22,4767577	-43,94398464
Rota 2 - BR393 15,366m	7514050,606	608741,152	-22,47645962	-43,94299476
Rota 2 - BR393 15,366m	7514065,483	608831,243	-22,4763195	-43,94212018
Rota 2 - BR393 15,366m	7514072,501	608930,736	-22,47624976	-43,94115368
Rota 2 - BR393 15,366m	7514062,115	609061,418	-22,47633523	-43,93988286
Rota 2 - BR393 15,366m	7514049,919	609226,62	-22,47643483	-43,9382764
Rota 2 - BR393 15,366m	7514037,103	609407,48	-22,476539	-43,93651773
Rota 2 - BR393 15,366m	7514021,694	609573,841	-22,47666752	-43,93489979
Rota 2 - BR393 15,366m	7514004,273	609777,925	-22,47681175	-43,93291506
Rota 2 - BR393 15,366m	7514004,72	609833,392	-22,47680415	-43,93237601
Rota 2 - BR393 15,366m	7514020,95	609918,938	-22,47665204	-43,93154571
Rota 2 - BR393 15,366m	7514081,58	610082,206	-22,47609388	-43,92996309
Rota 2 - BR393 15,366m	7514135,058	610210,36	-22,47560257	-43,92872128
Rota 2 - BR393 15,366m	7514124,303	610288,908	-22,47569464	-43,92795712
Rota 2 - BR393 15,366m	7514073,703	610360,519	-22,47614705	-43,92725761
Rota 2 - BR393 15,366m	7513909,385	610477,697	-22,47762367	-43,92610732
Rota 2 - BR393 15,366m	7513834,42	610537,551	-22,47829692	-43,92552036
Rota 2 - BR393 15,366m	7513781,845	610626,345	-22,47876604	-43,92465369
Rota 2 - BR393 15,366m	7513712,44	610774,209	-22,47938335	-43,92321172
Rota 2 - BR393 15,366m	7513616,084	610854,387	-22,48024847	-43,92242571
Rota 2 - BR393 15,366m	7513528,179	610890,63	-22,4810401	-43,92206731
Rota 2 - BR393 15,366m	7513404,619	610921,456	-22,48215415	-43,92175905
Rota 2 - BR393 15,366m	7513329,347	610945,533	-22,48283248	-43,92151977
Rota 2 - BR393 15,366m	7513240,284	611008,814	-22,48363281	-43,92089848
Rota 2 - BR393 15,366m	7513120,023	611117,237	-22,484712	-43,91983623
Rota 2 - BR393 15,366m	7512921,944	611291,681	-22,48648976	-43,91812679
Rota 2 - BR393 15,366m	7512742,289	611478,523	-22,48810028	-43,91629811
Rota 2 - BR393 15,366m	7512727,337	611536,789	-22,48823152	-43,91573072
Rota 2 - BR393 15,366m	7512744,595	611639,784	-22,4880689	-43,91473084
Rota 2 - BR393 15,366m	7512774,437	611746,286	-22,48779238	-43,91369777
Rota 2 - BR393 15,366m	7512767,463	611843,781	-22,48784899	-43,91274964
Rota 2 - BR393 15,366m	7512735,306	611947,898	-22,48813261	-43,91173537
Rota 2 - BR393 15,366m	7512729,781	612008,159	-22,48817856	-43,91114926
Rota 2 - BR393 15,366m	7512741,8	612085,149	-22,48806494	-43,91040178
Rota 2 - BR393 15,366m	7512766,452	612171,288	-22,48783661	-43,90956627
Rota 2 - BR393 15,366m	7512777,392	612218,048	-22,48773473	-43,90911254
Rota 2 - BR393 15,366m	7512760,491	612281,573	-22,4878832	-43,9084939
Rota 2 - BR393 15,366m	7512722,661	612390,185	-22,48821774	-43,90743553
Rota 2 - BR393 15,366m	7512698,523	612489,825	-22,4884292	-43,90646533

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 2 - BR393 15,366m	7512701,61	612567,984	-22,48839616	-43,90570586
Rota 2 - BR393 15,366m	7512716,792	612648,096	-22,48825374	-43,90492826
Rota 2 - BR393 15,366m	7512751,145	612721,585	-22,4879386	-43,90421641
Rota 2 - BR393 15,366m	7512808,726	612808,167	-22,48741278	-43,90337895
Rota 2 - BR393 15,366m	7512862,798	612873,707	-22,48692005	-43,90274576
Rota 2 - BR393 15,366m	7512916,844	612959,218	-22,48642623	-43,90191847
Rota 2 - BR393 15,366m	7512933,352	613031,212	-22,48627235	-43,90121989
Rota 2 - BR393 15,366m	7512939,415	613092,134	-22,48621355	-43,90062818
Rota 2 - BR393 15,366m	7512958,29	613187,106	-22,48603677	-43,89970644
Rota 2 - BR393 15,366m	7512969,879	613220,667	-22,48592986	-43,89938107
Rota 2 - BR393 15,366m	7513008,571	613274,188	-22,48557683	-43,89886362
Rota 2 - BR393 15,366m	7513046,373	613302,478	-22,48523351	-43,89859136
Rota 2 - BR393 15,366m	7513145,879	613354,692	-22,48433126	-43,89809097
Rota 2 - BR393 15,366m	7513236,122	613399,647	-22,48351317	-43,89766049
Rota 2 - BR393 15,366m	7513315,01	613443,131	-22,48279774	-43,89724349
Rota 2 - BR393 15,366m	7513375,252	613495,611	-22,48225013	-43,89673773
Rota 2 - BR393 15,366m	7513414,297	613548,245	-22,48189396	-43,89622895
Rota 2 - BR393 15,366m	7513451,582	613627,016	-22,48155194	-43,89546603
Rota 2 - BR393 15,366m	7513483,862	613710,126	-22,48125484	-43,89466056
Rota 2 - BR393 15,366m	7513501,793	613751,631	-22,48109011	-43,89425846
Rota 2 - BR393 15,366m	7513549,526	613846,494	-22,48065265	-43,89333989
Rota 2 - BR393 15,366m	7513579,478	613946,85	-22,48037541	-43,89236665
Rota 2 - BR393 15,366m	7513636,54	614087,548	-22,47985061	-43,89100328
Rota 2 - BR393 15,366m	7513689,317	614227,985	-22,47936451	-43,88964215
Rota 2 - BR393 15,366m	7513725,986	614314,571	-22,47902751	-43,88880325
Rota 2 - BR393 15,366m	7513739,534	614337,694	-22,47890359	-43,88857949
Rota 2 - BR393 15,366m	7513778,518	614443,264	-22,47854439	-43,88755626
Rota 2 - BR393 15,366m	7513825,114	614530,938	-22,47811765	-43,88670752
Rota 2 - BR393 15,366m	7513882,881	614642,369	-22,4775884	-43,88562868
Rota 2 - BR393 15,366m	7513954,426	614764,464	-22,47693397	-43,88444723
Rota 2 - BR393 15,366m	7514004,578	614873,182	-22,47647367	-43,88339423
Rota 2 - BR393 15,366m	7514035,338	615047,586	-22,47618409	-43,88170145
Rota 2 - BR393 15,366m	7514052,451	615164,29	-22,47602164	-43,88056846
Rota 2 - BR393 15,366m	7514078,023	615219,078	-22,47578697	-43,88003783
Rota 2 - BR393 15,366m	7514159,524	615325,743	-22,47504363	-43,87900709
Rota 2 - BR393 15,366m	7514248,74	615462,92	-22,47422853	-43,8776804
Rota 2 - BR393 15,366m	7514356,083	615661,543	-22,47324553	-43,87575786
Rota 2 - BR393 15,366m	7514411,359	615780,799	-22,47273818	-43,87460288
Rota 2 - BR393 15,366m	7514489,73	615961,882	-22,47201802	-43,87284873
Rota 2 - BR393 15,366m	7514560,87	616129,433	-22,47136407	-43,87122558
Rota 2 - BR393 15,366m	7514603,631	616236,679	-22,47097054	-43,87018644
Rota 2 - BR393 15,366m	7514637,216	616375,922	-22,47065771	-43,86883567
Rota 2 - BR393 15,366m	7514663,342	616555,293	-22,47040949	-43,86709438

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 2 - BR393 15,366m	7514686,109	616604,494	-22,47020049	-43,86661789
Rota 2 - BR393 15,366m	7514744,644	616714,586	-22,46966427	-43,86555228
Rota 2 - BR393 15,366m	7514839,464	616817,326	-22,46880081	-43,86456079
Rota 2 - BR393 15,366m	7514929,998	616901,629	-22,46797773	-43,86374818
Rota 2 - BR393 15,366m	7514990,278	616975,608	-22,46742778	-43,86303368
Rota 2 - BR393 15,366m	7515020,693	617045,304	-22,46714828	-43,8623586
Rota 2 - BR393 15,366m	7515042,065	617160,418	-22,46694735	-43,86124148
Rota 2 - BR393 15,366m	7515052,83	617292,107	-22,46684108	-43,8599625
Rota 2 - BR393 15,366m	7515072,304	617474,31	-22,46665266	-43,85819326
Rota 2 - BR393 15,366m	7515087,666	617559,716	-22,46650803	-43,85736441
Rota 2 - BR393 15,366m	7515153,623	617627,505	-22,46590762	-43,85671051
Rota 2 - BR393 15,366m	7515248,322	617707,919	-22,46504674	-43,85593607
Rota 2 - BR393 15,366m	7515315,452	617777,929	-22,46443558	-43,85526069
Rota 2 - BR393 15,366m	7515404,904	617904,253	-22,46361891	-43,85403972
Rota 2 - BR393 15,366m	7515481,512	618006,098	-22,46291993	-43,85305569
Rota 2 - BR393 15,366m	7515587,182	618155,683	-22,46195515	-43,85160991
Rota 2 - BR393 15,366m	7515684,655	618289,351	-22,4610655	-43,85031821
Rota 2 - BR393 15,366m	7515840,505	618500,759	-22,45964318	-43,84827544
Rota 2 - BR393 15,366m	7515877,841	618568,632	-22,45930124	-43,84761867
Rota 2 - BR393 15,366m	7515924,179	618680,799	-22,45887492	-43,84653214
Rota 2 - BR393 15,366m	7516001,627	618872,279	-22,45816208	-43,84467721
Rota 2 - BR393 15,366m	7516090,051	619076,474	-22,45734919	-43,84269958
Rota 2 - BR393 15,366m	7516116,461	619168,444	-22,45710424	-43,84180785
Rota 2 - BR393 15,366m	7516147,207	619329,926	-22,45681526	-43,84024097
Rota 2 - BR393 15,366m	7516175,951	619466,067	-22,45654613	-43,83892019
Rota 2 - BR393 15,366m	7516226,42	619566,795	-22,45608324	-43,83794519
Rota 2 - BR393 15,366m	7516318,615	619716,421	-22,45524004	-43,83649817
ROTA 2 - BR-393 (Final) 9,238m	7516318,521	619716,266	-22,4552409	-43,83649967
ROTA 2 - BR-393 (Final) 9,238m	7516335,147	619754,665	-22,45508803	-43,83612779
ROTA 2 - BR-393 (Final) 9,238m	7516384,944	619828,937	-22,45463305	-43,83540982
ROTA 2 - BR-393 (Final) 9,238m	7516434,908	619894,629	-22,45417716	-43,83477525
ROTA 2 - BR-393 (Final) 9,238m	7516463,891	619957,778	-22,45391094	-43,83416381
ROTA 2 - BR-393 (Final) 9,238m	7516500,455	620023,204	-22,4535761	-43,83353081
ROTA 2 - BR-393 (Final) 9,238m	7516526,124	620079,552	-22,45334029	-43,83298521
ROTA 2 - BR-393 (Final) 9,238m	7516553,729	620121,687	-22,453088	-43,83257787
ROTA 2 - BR-393 (Final) 9,238m	7516585,617	620168,845	-22,45279666	-43,83212204
ROTA 2 - BR-393 (Final) 9,238m	7516631,772	620200,859	-22,45237753	-43,83181445
ROTA 2 - BR-393 (Final) 9,238m	7516668,097	620213,216	-22,45204857	-43,83169713
ROTA 2 - BR-393 (Final) 9,238m	7516745,346	620227,833	-22,45134981	-43,83156094
ROTA 2 - BR-393 (Final) 9,238m	7516835,689	620260,061	-22,45053155	-43,83125463
ROTA 2 - BR-393 (Final) 9,238m	7516875,186	620296,838	-22,45017222	-43,83090025
ROTA 2 - BR-393 (Final) 9,238m	7516902,427	620346,409	-22,44992269	-43,83042064
ROTA 2 - BR-393 (Final) 9,238m	7516918,489	620407,739	-22,44977329	-43,82982593



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 2 - BR-393 (Final) 9,238m	7516929,529	620456,274	-22,44967015	-43,82935515
ROTA 2 - BR-393 (Final) 9,238m	7516937,746	620505,332	-22,44959248	-43,82887908
ROTA 2 - BR-393 (Final) 9,238m	7516937,357	620538,95	-22,44959362	-43,82855239
ROTA 2 - BR-393 (Final) 9,238m	7516922,83	620580,015	-22,44972194	-43,82815227
ROTA 2 - BR-393 (Final) 9,238m	7516886,822	620621,659	-22,45004423	-43,82774489
ROTA 2 - BR-393 (Final) 9,238m	7516771,115	620663,869	-22,45108633	-43,82732594
ROTA 2 - BR-393 (Final) 9,238m	7516718,98	620714,84	-22,45155363	-43,8268267
ROTA 2 - BR-393 (Final) 9,238m	7516701,255	620797,204	-22,4517079	-43,82602502
ROTA 2 - BR-393 (Final) 9,238m	7516711,808	620871,494	-22,45160733	-43,82530395
ROTA 2 - BR-393 (Final) 9,238m	7516713,324	620982,814	-22,45158576	-43,82422238
ROTA 2 - BR-393 (Final) 9,238m	7516713,578	621090,008	-22,45157587	-43,82318079
ROTA 2 - BR-393 (Final) 9,238m	7516700,876	621183,408	-22,45168398	-43,82227225
ROTA 2 - BR-393 (Final) 9,238m	7516682,367	621241,036	-22,45184707	-43,82171087
ROTA 2 - BR-393 (Final) 9,238m	7516640,04	621407,463	-22,45221756	-43,82009047
ROTA 2 - BR-393 (Final) 9,238m	7516620,469	621500,795	-22,45238769	-43,81918206
ROTA 2 - BR-393 (Final) 9,238m	7516593,41	621589,424	-22,45262579	-43,81831879
ROTA 2 - BR-393 (Final) 9,238m	7516572,703	621653,967	-22,45280822	-43,81769003
ROTA 2 - BR-393 (Final) 9,238m	7516550,093	621755,131	-22,45300523	-43,81670528
ROTA 2 - BR-393 (Final) 9,238m	7516532,862	621830,958	-22,45315546	-43,81596714
ROTA 2 - BR-393 (Final) 9,238m	7516508,45	621942,592	-22,45336799	-43,81488052
ROTA 2 - BR-393 (Final) 9,238m	7516507,395	622005,201	-22,45337305	-43,81427206
ROTA 2 - BR-393 (Final) 9,238m	7516484,968	622106,313	-22,45356839	-43,81328783
ROTA 2 - BR-393 (Final) 9,238m	7516465,732	622179,314	-22,45373692	-43,81257699
ROTA 2 - BR-393 (Final) 9,238m	7516457,353	622222,374	-22,45380951	-43,81215792
ROTA 2 - BR-393 (Final) 9,238m	7516453,161	622282,405	-22,45384308	-43,81157428
ROTA 2 - BR-393 (Final) 9,238m	7516447,799	622316,535	-22,45388907	-43,81124222
ROTA 2 - BR-393 (Final) 9,238m	7516450,367	622350,406	-22,45386345	-43,81091329
ROTA 2 - BR-393 (Final) 9,238m	7516466,558	622482,53	-22,45370775	-43,80963067
ROTA 2 - BR-393 (Final) 9,238m	7516482,833	622609,344	-22,45355165	-43,80839967
ROTA 2 - BR-393 (Final) 9,238m	7516490,9	622691,441	-22,4534729	-43,80760255
ROTA 2 - BR-393 (Final) 9,238m	7516506,24	622768,372	-22,45332882	-43,8068562
ROTA 2 - BR-393 (Final) 9,238m	7516544,471	623002,011	-22,45296671	-43,80458887
ROTA 2 - BR-393 (Final) 9,238m	7516569,44	623089,785	-22,45273487	-43,80373791
ROTA 2 - BR-393 (Final) 9,238m	7516627,446	623204,462	-22,45220269	-43,80262809
ROTA 2 - BR-393 (Final) 9,238m	7516753,803	623437,428	-22,45104461	-43,8003742
ROTA 2 - BR-393 (Final) 9,238m	7516795,166	623522,226	-22,45066489	-43,79955345
ROTA 2 - BR-393 (Final) 9,238m	7516842,899	623620,555	-22,45022665	-43,79860171
ROTA 2 - BR-393 (Final) 9,238m	7516931,302	623751,275	-22,44941874	-43,79733842
ROTA 2 - BR-393 (Final) 9,238m	7517015,362	623847,411	-22,44865254	-43,79641085
ROTA 2 - BR-393 (Final) 9,238m	7517148,2	623967,14	-22,44744405	-43,79525784
ROTA 2 - BR-393 (Final) 9,238m	7517232,655	624036,246	-22,44667623	-43,79459296
ROTA 2 - BR-393 (Final) 9,238m	7517301,855	624115,282	-22,44604548	-43,79383041
ROTA 2 - BR-393 (Final) 9,238m	7517387,191	624205,548	-22,44526817	-43,79296001

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 2 - BR-393 (Final) 9,238m	7517594,277	624428,069	-22,44338157	-43,79081411
ROTA 2 - BR-393 (Final) 9,238m	7517706,405	624548,972	-22,44236002	-43,78964818
ROTA 2 - BR-393 (Final) 9,238m	7517799,866	624660,476	-22,44150775	-43,78857211
ROTA 2 - BR-393 (Final) 9,238m	7517852,122	624771,673	-22,44102766	-43,78749581
ROTA 2 - BR-393 (Final) 9,238m	7517887,001	624844,939	-22,44070728	-43,78678668
ROTA 2 - BR-393 (Final) 9,238m	7517925,024	624955,339	-22,4403558	-43,78571702
ROTA 2 - BR-393 (Final) 9,238m	7517990,895	625099,843	-22,43975028	-43,78431819
ROTA 2 - BR-393 (Final) 9,238m	7518040,755	625194,702	-22,439293	-43,78340047
ROTA 2 - BR-393 (Final) 9,238m	7518111,566	625299,156	-22,43864578	-43,78239118
ROTA 2 - BR-393 (Final) 9,238m	7518188,571	625387,598	-22,43794378	-43,78153795
ROTA 2 - BR-393 (Final) 9,238m	7518289,678	625493,678	-22,4370228	-43,78051528
ROTA 2 - BR-393 (Final) 9,238m	7518377,76	625645,369	-22,43621611	-43,77904843
ROTA 2 - BR-393 (Final) 9,238m	7518469,696	625796,501	-22,43537463	-43,77758735
ROTA 2 - BR-393 (Final) 9,238m	7518562,341	625959,516	-22,43452586	-43,77601089
ROTA 2 - BR-393 (Final) 9,238m	7518687,751	626152,865	-22,43337891	-43,77414233
ROTA 2 - BR-393 (Final) 9,238m	7518763,036	626247,377	-22,43269195	-43,77323008
ROTA 2 - BR-393 (Final) 9,238m	7518897,426	626393,892	-22,43146733	-43,7718173
ROTA 2 - BR-393 (Final) 9,238m	7518941,226	626437,108	-22,43106853	-43,77140092
ROTA 2 - BR-393 (Final) 9,238m	7519023,22	626525,335	-22,43032143	-43,77055029
ROTA 2 - BR-393 (Final) 9,238m	7519137,647	626646,427	-22,42927898	-43,76938295
ROTA 2 - BR-393 (Final) 9,238m	7519355,712	626821,321	-22,42729646	-43,7677012
ROTA 2 - BR-393 (Final) 9,238m	7519478,984	626950,377	-22,4261735	-43,76645725
ROTA 2 - BR-393 (Final) 9,238m	7519626,099	627114,659	-22,42483256	-43,764873
ROTA 2 - BR-393 (Final) 9,238m	7519728,884	627230,149	-22,42389562	-43,76375925
ROTA 2 - BR-393 (Final) 9,238m	7519749,402	627283,283	-22,42370635	-43,7632447
ROTA 2 - BR-393 (Final) 9,238m	7519752,884	627318,339	-22,42367229	-43,76290442
ROTA 2 - BR-393 (Final) 9,238m	7519738,012	627379,803	-22,42380204	-43,76230611

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU


MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA


CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Início Rota 3	7513698,838	598922,836	-22,48023437	-44,03839976
Rota 3 - Cerâmica 1,504m	7513698,386	598923,201	-22,48023844	-44,03839618
Rota 3 - Cerâmica 1,504m	7513689,278	598853,588	-22,48032474	-44,03907223
Rota 3 - Cerâmica 1,504m	7513686,217	598673,398	-22,48036282	-44,04082343
Rota 3 - Cerâmica 1,504m	7513691,734	598592,486	-22,48031766	-44,0416102
Rota 3 - Cerâmica 1,504m	7513712,506	598535,052	-22,48013335	-44,04216973
Rota 3 - Cerâmica 1,504m	7513772,226	598439,565	-22,47959942	-44,04310155
Rota 3 - Cerâmica 1,504m	7513832,955	598344,854	-22,47905633	-44,04402587
Rota 3 - Cerâmica 1,504m	7513902,285	598238,548	-22,47843621	-44,04506341
Rota 3 - Cerâmica 1,504m	7513915,61	598214,338	-22,47831725	-44,04529955
Rota 3 - Cerâmica 1,504m	7513926,6	598179,042	-22,47822001	-44,04564329
Rota 3 - Cerâmica 1,504m	7513961,666	598129,844	-22,47790609	-44,04612364
Rota 3 - Cerâmica 1,504m	7514051,942	597990,515	-22,47709866	-44,04748343
Rota 3 - Cerâmica 1,504m	7514137,733	597865,333	-22,4763309	-44,04870542
Rota 3 - Cerâmica 1,504m	7514183,59	597801,137	-22,47592037	-44,0493322
Rota 3 - Cerâmica 1,504m	7514243,436	597706,801	-22,47538519	-44,05025278
Rota 3 - Cerâmica 1,504m	7514247,389	597647,152	-22,4753529	-44,05083277
Rota 3 - Cerâmica 1,504m	7514250,964	597620,516	-22,47532213	-44,05109187
Rota 3 - Cerâmica 1,504m	7514213,132	597611,987	-22,47566435	-44,05117244
Rota 3 - Califórnia da Barra 531m	7514213,356	597612,611	-22,47566229	-44,05116639
Rota 3 - Califórnia da Barra 531m	7514230,52	597578,049	-22,47550923	-44,05150336
Rota 3 - Califórnia da Barra 531m	7514270,533	597522,702	-22,47515096	-44,05204376
Rota 3 - Califórnia da Barra 531m	7514286,902	597491,585	-22,47500488	-44,05234721
Rota 3 - Califórnia da Barra 531m	7514285,712	597440,886	-22,47501853	-44,05283989
Rota 3 - Califórnia da Barra 531m	7514279,802	597362,516	-22,47507638	-44,05360124
Rota 3 - Califórnia da Barra 531m	7514198,401	597363,405	-22,47581161	-44,0535876
Rota 3 - Califórnia da Barra 531m	7514196,027	597302,86	-22,47583651	-44,05417591
Rota 3 - Califórnia da Barra 531m	7514189,84	597204,474	-22,475898	-44,05513179
Rota 3 - Califórnia da Barra 531m	7514170,577	597205,393	-22,47607195	-44,05512167
Rota 3 - Califórnia da Barra 79,4m	7514190,095	597204,877	-22,47589568	-44,05512789
Rota 3 - Califórnia da Barra 79,4m	7514269,316	597200,394	-22,47518034	-44,05517631
Rota 3 - Califórnia da Barra 68m	7514269,316	597200,394	-22,47518034	-44,05517631
Rota 3 - Califórnia da Barra 68m	7514265,274	597132,497	-22,47522071	-44,05583598
Rota 3 - Califórnia da Barra 309m	7514269,316	597200,394	-22,47518034	-44,05517631
Rota 3 - Califórnia da Barra 309m	7514274,674	597277,38	-22,47512756	-44,05442839
Rota 3 - Califórnia da Barra 309m	7514279,038	597362,478	-22,47508329	-44,05360156
Rota 3 - Califórnia da Barra 309m	7514339,217	597354,063	-22,47454018	-44,05368704
Rota 3 - Califórnia da Barra 309m	7514355,507	597345,576	-22,47439352	-44,05377053
Rota 3 - Califórnia da Barra 309m	7514371,1	597280,49	-22,47425638	-44,05440407
Rota 3 - Califórnia da Barra 46,1m	7514371,1	597280,49	-22,47425638	-44,05440407
Rota 3 - Califórnia da Barra 46,1m	7514381,217	597235,522	-22,47416756	-44,05484175
Rota 3 - Califórnia da Barra 127m	7514369,96	597278,948	-22,47426676	-44,05441899
Rota 3 - Califórnia da Barra 127m	7514295,378	597222,506	-22,47494367	-44,054963
Rota 3 - Califórnia da Barra 127m	7514269,08	597201,481	-22,47518241	-44,05516573
Rota 3 - Califórnia da Barra 1,523m	7514189,985	597205,206	-22,47589665	-44,05512468


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 3 - Califórnia da Barra 1,523m	7514180,477	597104,977	-22,47598824	-44,05609826
Rota 3 - Califórnia da Barra 1,523m	7514107,505	597110,97	-22,47664704	-44,05603555
Rota 3 - Califórnia da Barra 1,523m	7514103,561	597124,337	-22,47668191	-44,05590539
Rota 3 - Califórnia da Barra 1,523m	7514108,4	597209,708	-22,47663334	-44,05507593
Rota 3 - Califórnia da Barra 1,523m	7514118,476	597370,18	-22,47653317	-44,05351685
Rota 3 - Califórnia da Barra 1,523m	7514128,995	597530,647	-22,476429	-44,05195784
Rota 3 - Califórnia da Barra 1,523m	7514131,008	597588,088	-22,47640753	-44,05139967
Rota 3 - Califórnia da Barra 1,523m	7514058,746	597538,912	-22,47706307	-44,05187319
Rota 3 - Califórnia da Barra 1,523m	7514046,795	597522,102	-22,47717197	-44,05203584
Rota 3 - Califórnia da Barra 1,523m	7514036,977	597329,591	-22,47727165	-44,05390634
Rota 3 - Califórnia da Barra 1,523m	7514028,396	597218,199	-22,47735551	-44,0549885
Rota 3 - Califórnia da Barra 1,523m	7513944,189	597220,226	-22,47811602	-44,05496363
Rota 3 - Califórnia da Barra 1,523m	7513923,777	597224,366	-22,47830017	-44,05492214
Rota 3 - Califórnia da Barra 1,523m	7513921,932	597233,879	-22,47831629	-44,05482957
Rota 3 - Califórnia da Barra 1,523m	7513923,22	597259,579	-22,47830318	-44,05457985
Rota 3 - Califórnia da Barra 1,523m	7513927,943	597298,472	-22,47825831	-44,05420211
Rota 3 - Califórnia da Barra 1,523m	7513933,251	597335,726	-22,47820824	-44,05384035
Rota 3 - Califórnia da Barra 1,523m	7513934,037	597336,997	-22,47820107	-44,05382805
Rota 3 - Califórnia da Barra 1,523m	7513934,982	597364,257	-22,47819097	-44,05356314
Rota 3 - Califórnia da Barra 1,523m	7513940,437	597383,024	-22,47814063	-44,05338107
Rota 3 - Califórnia da Barra 1,523m	7513939,167	597403,82	-22,47815092	-44,05317887
Rota 3 - Califórnia da Barra 1,523m	7513939,853	597424,845	-22,47814352	-44,05297456
Rota 3 - Califórnia da Barra 1,523m	7513935,819	597458,598	-22,47817803	-44,05264625
Rota 3 - Califórnia da Barra 1,523m	7513924,96	597528,732	-22,47827211	-44,05196391
Rota 3 - Califórnia da Barra 1,523m	7513930,693	597539,543	-22,47821971	-44,05185918
Rota 3 - Califórnia da Barra 1,523m	7513963,163	597543,938	-22,47792616	-44,05181846
Rota 3 - Califórnia da Barra 164m	7514026,697	597217,107	-22,47737092	-44,05499901
Rota 3 - Califórnia da Barra 164m	7514021,4	597126,839	-22,47742391	-44,05587604
Rota 3 - Califórnia da Barra 164m	7514011,561	597111,471	-22,47751365	-44,05602481
Rota 3 - Califórnia da Barra 164m	7513963,969	597084,099	-22,4779451	-44,05628794
Rota 3 - Califórnia da Barra 3,662m	7513886,577	598099,404	-22,47858611	-44,04641486
Rota 3 - Califórnia da Barra 3,662m	7513856,312	598078,236	-22,4788607	-44,04661873
Rota 3 - Califórnia da Barra 3,662m	7513752,892	598012,572	-22,47979864	-44,04725056
Rota 3 - Califórnia da Barra 3,662m	7513708,083	598077,426	-22,48019966	-44,04661744
Rota 3 - Califórnia da Barra 3,662m	7513525,508	597954,407	-22,48185589	-44,04780186
Rota 3 - Califórnia da Barra 3,662m	7513348,414	597836,804	-22,48346229	-44,04893402
Rota 3 - Califórnia da Barra 3,662m	7513398,306	597774,671	-22,48301519	-44,04954102
Rota 3 - Califórnia da Barra 3,662m	7513494,663	597840,396	-22,48214105	-44,04890812
Rota 3 - Califórnia da Barra 3,662m	7513569,039	597889,26	-22,48146643	-44,04843777
Rota 3 - Califórnia da Barra 3,662m	7513752,045	598013,257	-22,47980626	-44,04724385
Rota 3 - Califórnia da Barra 3,662m	7513798,36	597944,448	-22,47939185	-44,04791551
Rota 3 - Califórnia da Barra 3,662m	7513612,933	597821,846	-22,4810738	-44,04909573
Rota 3 - Califórnia da Barra 3,662m	7513657,745	597757,005	-22,48067275	-44,04972872
Rota 3 - Califórnia da Barra 3,662m	7513974,894	597969,516	-22,47779582	-44,04768276
Rota 3 - Califórnia da Barra 3,662m	7514018,849	597901,307	-22,4774027	-44,04834844


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 3 - Califórnia da Barra 3,662m	7513818,508	597766,997	-22,47922003	-44,04964151
Rota 3 - Califórnia da Barra 3,662m	7513907,764	597634,448	-22,47842139	-44,05093534
Rota 3 - Califórnia da Barra 3,662m	7513976,064	597678,753	-22,47780192	-44,05050892
Rota 3 - Califórnia da Barra 3,662m	7513933,307	597746,924	-22,47818423	-44,04984369
Rota 3 - Califórnia da Barra 3,662m	7514064,582	597835,893	-22,47699335	-44,04898706
Rota 3 - Califórnia da Barra 3,662m	7514108,706	597769,386	-22,4765986	-44,04963619
Rota 3 - Califórnia da Barra 3,662m	7513976,773	597678,753	-22,47779551	-44,05050896
Rota 3 - Califórnia da Barra 3,662m	7514018,561	597613,33	-22,4774218	-44,05114741
Rota 3 - Califórnia da Barra 3,662m	7514153,649	597702,102	-22,47619649	-44,05029291
Rota 3 - Califórnia da Barra 3,662m	7514195,921	597635,628	-22,47581846	-44,05094161
Rota 3 - Califórnia da Barra 3,662m	7514214,153	597605,529	-22,4756555	-44,05123527
Rota 3 - Califórnia da Barra 3,662m	7514207,677	597529,323	-22,47571835	-44,05197555
Rota 3 - Califórnia da Barra 3,662m	7513962,913	597542,726	-22,47792849	-44,05183022
Rota 3 - Califórnia da Barra 77,8m	7513819,309	597765,741	-22,47921287	-44,04965377
Rota 3 - Califórnia da Barra 77,8m	7513754,298	597722,982	-22,47980255	-44,05006537
Rota 3 - Califórnia da Barra 76,9m	7513657,869	597756,734	-22,48067164	-44,04973137
Rota 3 - Califórnia da Barra 76,9m	7513594,607	597713,076	-22,48124557	-44,05015181
Rota 3 - Califórnia da Barra 177m	7513613,004	597822,101	-22,48107315	-44,04909325
Rota 3 - Califórnia da Barra 177m	7513466,877	597722,095	-22,48239882	-44,05005627
Rota 3 - Califórnia da Barra 53,9m	7513933,294	598107,677	-22,47816364	-44,04633734
Rota 3 - Califórnia da Barra 53,9m	7513892,96	598111,217	-22,47852777	-44,04630044
Rota 3 - Califórnia da Barra 53,9m	7513886,577	598099,404	-22,47858611	-44,04641486
Rota 3 - Califórnia da Barra 163m	7513886,577	598099,404	-22,47858611	-44,04641486
Rota 3 - Califórnia da Barra 163m	7513900,228	598079,267	-22,47846396	-44,04661142
Rota 3 - Califórnia da Barra 163m	7513929,772	598034,549	-22,47819966	-44,04704789
Rota 3 - Califórnia da Barra 163m	7513858,276	597987,832	-22,47884815	-44,04749754
Rota 3 - BR393 11,844m	7514070,334	609035,605	-22,47626265	-43,9401343
Rota 3 - BR393 11,844m	7514075,222	608953,999	-22,47622371	-43,94092777
Rota 3 - BR393 11,844m	7514075,708	608897,65	-22,47622291	-43,94147547
Rota 3 - BR393 11,844m	7514065,778	608803,331	-22,47631862	-43,94239149
Rota 3 - BR393 11,844m	7514048,096	608727,943	-22,47648314	-43,94312298
Rota 3 - BR393 11,844m	7514014,941	608607,44	-22,47679028	-43,94429189
Rota 3 - BR393 11,844m	7513990,152	608538,285	-22,47701858	-43,94496231
Rota 3 - BR393 11,844m	7513958,976	608415,46	-22,47730799	-43,94615395
Rota 3 - BR393 11,844m	7513917,918	608271,613	-22,47768797	-43,94754922
Rota 3 - BR393 11,844m	7513886,65	608141,268	-22,47797867	-43,94881393
Rota 3 - BR393 11,844m	7513871,516	607977,345	-22,47812575	-43,95040611
Rota 3 - BR393 11,844m	7513836,281	607892,392	-22,47844938	-43,95122939
Rota 3 - BR393 11,844m	7513773,734	607808,852	-22,47901962	-43,95203709
Rota 3 - BR393 11,844m	7513701,052	607718,123	-22,47968185	-43,95291397
Rota 3 - BR393 11,844m	7513622,912	607616,785	-22,48039405	-43,95389361
Rota 3 - BR393 11,844m	7513528,362	607500,7	-22,48125539	-43,95501548
Rota 3 - BR393 11,844m	7513479,031	607430,773	-22,48170537	-43,9556918
Rota 3 - BR393 11,844m	7513387,588	607319,145	-22,48253835	-43,95677058
Rota 3 - BR393 11,844m	7513359,477	607245,249	-22,48279692	-43,95748692


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
	CREA: 1996101066			
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 3 - BR393 11,844m	7513336,59	607107,977	-22,48301227	-43,9588196
Rota 3 - BR393 11,844m	7513316,918	607009,212	-22,48319615	-43,95977822
Rota 3 - BR393 11,844m	7513307,533	606942,524	-22,48328511	-43,96042578
Rota 3 - BR393 11,844m	7513283,725	606878,668	-22,48350415	-43,96104483
Rota 3 - BR393 11,844m	7513161,63	606644,568	-22,48462163	-43,96331199
Rota 3 - BR393 11,844m	7513153,594	606611,788	-22,48469626	-43,96363006
Rota 3 - BR393 11,844m	7513153,048	606579,294	-22,48470323	-43,96394586
Rota 3 - BR393 11,844m	7513170,764	606510,466	-22,4845475	-43,96461604
Rota 3 - BR393 11,844m	7513229,701	606334,573	-22,48402613	-43,96632963
Rota 3 - BR393 11,844m	7513323,769	606035,162	-22,48319508	-43,96924611
Rota 3 - BR393 11,844m	7513384,608	605853,54	-22,48265683	-43,97101547
Rota 3 - BR393 11,844m	7513441,3	605686,901	-22,48215508	-43,97263893
Rota 3 - BR393 11,844m	7513481,56	605541,275	-22,48180045	-43,97405703
Rota 3 - BR393 11,844m	7513505,51	605398,116	-22,48159297	-43,97545007
Rota 3 - BR393 11,844m	7513532,735	605244,751	-22,48135652	-43,97694252
Rota 3 - BR393 11,844m	7513560,769	605100,101	-22,48111222	-43,9783503
Rota 3 - BR393 11,844m	7513593,998	604978,205	-22,48081957	-43,97953728
Rota 3 - BR393 11,844m	7513634,317	604900,161	-22,48046019	-43,9802985
Rota 3 - BR393 11,844m	7513684,098	604824,126	-22,48001521	-43,98104082
Rota 3 - BR393 11,844m	7513832,077	604676,687	-22,47868763	-43,98248361
Rota 3 - BR393 11,844m	7514028,335	604479,693	-22,47692698	-43,98441121
Rota 3 - BR393 11,844m	7514196,605	604309,011	-22,4754175	-43,98608117
Rota 3 - BR393 11,844m	7514253,982	604241,685	-22,47490334	-43,9867393
Rota 3 - BR393 11,844m	7514299,798	604158,455	-22,47449459	-43,98755123
Rota 3 - BR393 11,844m	7514324,473	604079,022	-22,47427655	-43,98832486
Rota 3 - BR393 11,844m	7514340,577	603997,807	-22,47413604	-43,98911526
Rota 3 - BR393 11,844m	7514339,162	603918,711	-22,47415364	-43,98988391
Rota 3 - BR393 11,844m	7514319,685	603826,468	-22,47433518	-43,99077915
Rota 3 - BR393 11,844m	7514280,04	603703,757	-22,47470074	-43,9919692
Rota 3 - BR393 11,844m	7514262,322	603634,763	-22,47486498	-43,99263861
Rota 3 - BR393 11,844m	7514280,727	603574,652	-22,47470237	-43,99322404
Rota 3 - BR393 11,844m	7514326,817	603520,526	-22,47428934	-43,9937531
Rota 3 - BR393 11,844m	7514373,905	603452,338	-22,47386815	-43,9944189
Rota 3 - BR393 11,844m	7514377,525	603394,138	-22,47383898	-43,99498478
Rota 3 - BR393 11,844m	7514364,841	603368,235	-22,47395511	-43,99523571
Rota 3 - BR393 11,844m	7514327,287	603323,971	-22,47429701	-43,99566347
Rota 3 - BR393 11,844m	7514282,64	603300,434	-22,47470172	-43,99588932
Rota 3 - BR393 11,844m	7514231,109	603271,228	-22,47516894	-43,99616982
Rota 3 - BR393 11,844m	7514199,012	603247,051	-22,47546033	-43,99640271
Rota 3 - BR393 11,844m	7514179,536	603221,177	-22,47563781	-43,99665292
Rota 3 - BR393 11,844m	7514170,446	603189,266	-22,47572184	-43,99696249
Rota 3 - BR393 11,844m	7514177,575	603135,526	-22,4756607	-43,99748526
Rota 3 - BR393 11,844m	7514200,428	603091,381	-22,47545694	-43,99791579
Rota 3 - BR393 11,844m	7514243,504	603040,948	-22,4750709	-43,99840876
Rota 3 - BR393 11,844m	7514274,651	603007,164	-22,4747916	-43,99873914

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 3 - BR393 11,844m	7514284,262	602979,896	-22,47470643	-43,99900479
Rota 3 - BR393 11,844m	7514286,631	602928,425	-22,47468814	-43,9995052
Rota 3 - BR393 11,844m	7514250,021	602813,152	-22,47502577	-44,00062318
Rota 3 - BR393 11,844m	7514233,614	602737,846	-22,4751785	-44,00135403
Rota 3 - BR393 11,844m	7514218,598	602606,747	-22,47532202	-44,00262723
Rota 3 - BR393 11,844m	7514203,906	602522,244	-22,47545981	-44,00344759
Rota 3 - BR393 11,844m	7514185,445	602360,512	-22,47563627	-44,0050183
Rota 3 - BR393 11,844m	7514178,228	602333,606	-22,47570307	-44,00527935
Rota 3 - BR393 11,844m	7514177,746	602285,93	-22,47571028	-44,00574269
Rota 3 - BR393 11,844m	7514174,554	602249,257	-22,47574131	-44,00609892
Rota 3 - BR393 11,844m	7514167,563	602192,99	-22,47580783	-44,00664535
Rota 3 - BR393 11,844m	7514161,915	602145,52	-22,47586168	-44,00710636
Rota 3 - BR393 11,844m	7514155,009	602092,494	-22,47592724	-44,00762128
Rota 3 - BR393 11,844m	7514147,147	602035,219	-22,47600168	-44,00817745
Rota 3 - BR393 11,844m	7514132,535	601932,429	-22,4761398	-44,00917556
Rota 3 - BR393 11,844m	7514121,748	601849,835	-22,47624217	-44,00997761
Rota 3 - BR393 11,844m	7514116,942	601809,482	-22,47628799	-44,01036951
Rota 3 - BR393 11,844m	7514105,163	601706,623	-22,47640052	-44,01136848
Rota 3 - BR393 11,844m	7514100,39	601678,442	-22,47644532	-44,01164206
Rota 3 - BR393 11,844m	7514091,893	601608,749	-22,47652621	-44,01231889
Rota 3 - BR393 11,844m	7514077,706	601486,944	-22,47666161	-44,01350184
Rota 3 - BR393 11,844m	7514064,492	601382,747	-22,47678716	-44,01451373
Rota 3 - BR393 11,844m	7514048,992	601264,687	-22,47693417	-44,0156602
Rota 3 - BR393 11,844m	7514039,202	601183,93	-22,47702739	-44,01644449
Rota 3 - BR393 11,844m	7514026,18	601097,005	-22,47715017	-44,01728852
Rota 3 - BR393 11,844m	7514010,885	600965,64	-22,4772961	-44,01856432
Rota 3 - BR393 11,844m	7513997,655	600875,631	-22,47742092	-44,01943832
Rota 3 - BR393 11,844m	7513982,719	600814,011	-22,47755948	-44,02003628
Rota 3 - BR393 11,844m	7513960,572	600742,595	-22,47776374	-44,020729
Rota 3 - BR393 11,844m	7513936,487	600680,72	-22,47798495	-44,02132885
Rota 3 - BR393 11,844m	7513913,789	600631,877	-22,47819285	-44,02180214
Rota 3 - BR393 11,844m	7513882,878	600566,163	-22,47847594	-44,02243889
Rota 3 - BR393 11,844m	7513839,857	600475,245	-22,47886989	-44,02331984
Rota 3 - BR393 11,844m	7513800,752	600392,096	-22,47922801	-44,02412553
Rota 3 - BR393 11,844m	7513759,152	600303,228	-22,47960899	-44,02498666
Rota 3 - BR393 11,844m	7513731,209	600227,441	-22,47986585	-44,02572151
Rota 3 - BR393 11,844m	7513718,156	600173,952	-22,47998689	-44,02624057
Rota 3 - BR393 11,844m	7513712,551	600109,835	-22,48004128	-44,02686342
Rota 3 - BR393 11,844m	7513706,967	600004,835	-22,48009788	-44,02788363
Rota 3 - BR393 11,844m	7513702,054	599929,569	-22,48014667	-44,02861487
Rota 3 - BR393 11,844m	7513693,485	599874,859	-22,48022727	-44,02914609
Rota 3 - BR393 11,844m	7513690,636	599788,859	-22,48025804	-44,0299818
Rota 3 - BR393 11,844m	7513689,477	599727,29	-22,4802721	-44,03058016
Rota 3 - BR393 11,844m	7513681,944	599616,738	-22,48034661	-44,03165421
Rota 3 - BR393 11,844m	7513681,113	599565,22	-22,48035712	-44,0321549

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
	CREA: 1996101066			
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 3 - BR393 11,844m	7513674,992	599492,579	-22,48041664	-44,03286056
Rota 3 - BR393 11,844m	7513671,187	599399,138	-22,48045646	-44,03376853
Rota 3 - BR393 11,844m	7513660,744	599200,753	-22,48056233	-44,03569612
Rota 3 - BR393 11,844m	7513645,753	598963,815	-22,48071151	-44,03799814
Rota 3 - BR393 11,844m	7513640,072	598775,601	-22,48077372	-44,03982717
Rota 3 - BR393 11,844m	7513635,241	598635,576	-22,48082546	-44,04118787
Rota 3 - BR393 11,844m	7513647,984	598574,34	-22,4807139	-44,04178386
Rota 3 - BR393 11,844m	7513666,062	598525,572	-22,48055342	-44,04225899
Rota 3 - BR393 11,844m	7513707,46	598448,363	-22,48018393	-44,04301201
Rota 3 - BR393 11,844m	7513791,927	598323,755	-22,47942815	-44,0442284
Rota 3 - BR393 11,844m	7513933,345	598107,366	-22,4781632	-44,04634036
Rota 3 - BalanÃ§a 628m	7514118,383	601818,62	-22,47627443	-44,01028079
Rota 3 - BalanÃ§a 628m	7514115,903	601846,51	-22,47629517	-44,01000956
Rota 3 - BalanÃ§a 628m	7514115,301	601864,123	-22,47629955	-44,00983833
Rota 3 - BalanÃ§a 628m	7514116,559	601876,696	-22,47628744	-44,00971621
Rota 3 - BalanÃ§a 628m	7514116,81	601893,02	-22,4762842	-44,00955757
Rota 3 - BalanÃ§a 628m	7514118,663	601906,715	-22,47626664	-44,00942458
Rota 3 - BalanÃ§a 628m	7514119,842	601924,13	-22,47625496	-44,0092554
Rota 3 - BalanÃ§a 628m	7514126,761	601972,273	-22,47618958	-44,00878792
Rota 3 - BalanÃ§a 628m	7514130,039	601999,933	-22,47615831	-44,0085193
Rota 3 - BalanÃ§a 628m	7514132,981	602033,654	-22,47612973	-44,00819175
Rota 3 - BalanÃ§a 628m	7514134,002	602046,825	-22,47611972	-44,0080638
Rota 3 - BalanÃ§a 628m	7514135,122	602068,852	-22,47610828	-44,00784978
Rota 3 - BalanÃ§a 628m	7514138,636	602098,959	-22,47607475	-44,00755739
Rota 3 - BalanÃ§a 628m	7514141,549	602113,541	-22,47604756	-44,00741585
Rota 3 - BalanÃ§a 628m	7514144,321	602140,344	-22,47602091	-44,00715552
Rota 3 - BalanÃ§a 628m	7514147,326	602158,02	-22,47599271	-44,00698392
Rota 3 - BalanÃ§a 628m	7514148,682	602181,217	-22,47597908	-44,00675855
Rota 3 - BalanÃ§a 628m	7514147,072	602199,486	-22,47599253	-44,00658088
Rota 3 - BalanÃ§a 628m	7514143,488	602214,109	-22,47602402	-44,00643853
Rota 3 - BalanÃ§a 628m	7514137,962	602221,542	-22,4760735	-44,00636594
Rota 3 - BalanÃ§a 628m	7514135,269	602223,382	-22,47609771	-44,00634787
Rota 3 - BalanÃ§a 628m	7514125,369	602222,317	-22,4761872	-44,00635759
Rota 3 - BalanÃ§a 628m	7514117,416	602217,285	-22,47625934	-44,00640599
Rota 3 - BalanÃ§a 628m	7514111,511	602205,51	-22,47631338	-44,00652005
Rota 3 - BalanÃ§a 628m	7514108,19	602188,129	-22,47634442	-44,00668876
Rota 3 - BalanÃ§a 628m	7514105,687	602164,717	-22,47636843	-44,00691615
Rota 3 - BalanÃ§a 628m	7514106,929	602151,628	-22,47635799	-44,00704345
Rota 3 - BalanÃ§a 628m	7514108,855	602139,708	-22,47634131	-44,00715942
Rota 3 - BalanÃ§a 628m	7514113,333	602118,383	-22,47630214	-44,00736698
Rota 3 - BalanÃ§a 628m	7514110,255	602104,513	-22,47633077	-44,00750158
Rota 3 - BalanÃ§a 628m	7514102,875	602091,143	-22,47639823	-44,00763106
Rota 3 - BalanÃ§a 628m	7514098,761	602078,85	-22,47643613	-44,00775027
Rota 3 - BalanÃ§a 628m	7514099,881	602067,29	-22,4764267	-44,0078627
Rota 3 - BalanÃ§a 628m	7514108,963	602061,515	-22,47634501	-44,00791942




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 3 - Balançã 628m	7514121,828	602062,442	-22,47622875	-44,00791123
Rota 3 - Balançã 628m	7514135,44	602075,343	-22,47610502	-44,00778672
Rota 3 - Policia Federal 165m	7514147,888	602170,86	-22,47598687	-44,00685917
Rota 3 - Policia Federal 165m	7514151,859	602184,337	-22,4759502	-44,00672844
Rota 3 - Policia Federal 165m	7514154,396	602197,249	-22,4759265	-44,0066031
Rota 3 - Policia Federal 165m	7514157,239	602212,586	-22,47589991	-44,00645422
Rota 3 - Policia Federal 165m	7514159,879	602224,672	-22,47587534	-44,00633692
Rota 3 - Policia Federal 165m	7514160,822	602237,807	-22,47586604	-44,00620932
Rota 3 - Policia Federal 165m	7514164,427	602252,311	-22,47583261	-44,00606859
Rota 3 - Policia Federal 165m	7514168,758	602268,259	-22,47579252	-44,00591386
Rota 3 - Policia Federal 165m	7514171,905	602279,969	-22,47576339	-44,00580025
Rota 3 - Policia Federal 165m	7514174,618	602298,018	-22,47573781	-44,005625
Rota 3 - Policia Federal 165m	7514176,38	602315,796	-22,47572083	-44,00545233
Rota 3 - Policia Federal 165m	7514178,001	602324,768	-22,47570565	-44,00536524
Rota 3 - Policia Federal 165m	7514178,46	602332,41	-22,47570105	-44,00529099
Rota 3 - Policia Federal 53m	7514178,46	602332,41	-22,47570105	-44,00529099
Rota 3 - Policia Federal 53m	7514177,756	602338,173	-22,47570706	-44,00523493
Rota 3 - Policia Federal 53m	7514176,191	602342,545	-22,47572094	-44,00519234
Rota 3 - Policia Federal 53m	7514173,185	602346,54	-22,47574784	-44,00515332
Rota 3 - Policia Federal 53m	7514167,467	602346,355	-22,4757995	-44,00515474
Rota 3 - Policia Federal 53m	7514159,02	602342,802	-22,47587602	-44,00518873
Rota 3 - Policia Federal 53m	7514154,915	602335,238	-22,47591355	-44,00526198
Rota 3 - Policia Federal 53m	7514154,922	602334,798	-22,47591351	-44,00526625
Rota 3 - Policia Federal 53m	7514153,761	602326,2	-22,47592451	-44,00534975
Rota 3 - Policia Federal 53m	7514154,621	602321,286	-22,47591704	-44,00539757
Rota 3 - RICA 101m	7514220,178	602608,643	-22,47530764	-44,00260891
Rota 3 - RICA 101m	7514195,675	602605,205	-22,47552917	-44,00264074
Rota 3 - RICA 101m	7514145,048	602617,952	-22,47598571	-44,00251357
Rota 3 - RICA 101m	7514135,301	602595,529	-22,47607509	-44,00273088
Rota 3 - RICA 75,4m	7514199,165	603092,885	-22,47546827	-43,9979011
Rota 3 - RICA 75,4m	7514182,349	603079,751	-22,47562095	-43,99802765
Rota 3 - RICA 75,4m	7514148,785	603037,41	-22,47592667	-43,998437
Rota 3 - Aldeia das Aguas 130m	7513130,406	606535,248	-22,48491049	-43,96437245
Rota 3 - Aldeia das Aguas 130m	7513165,051	606443,614	-22,48460328	-43,96526544
Rota 3 - Aldeia das Aguas 130m	7513174,23	606437,419	-22,48452076	-43,96532627
Rota 3 - Aldeia das Aguas 130m	7513195,535	606439,384	-22,4843282	-43,9653086
Rota 3 - LANDIM 31,7m	7513529,05	607502,492	-22,48124906	-43,95499811
Rota 3 - LANDIM 31,7m	7513505,795	607523,972	-22,48145776	-43,95478776
Rota 3 - VIGOR 368m	7513948,072	609138,631	-22,47736038	-43,93912457
Rota 3 - VIGOR 368m	7513975,108	609140,025	-22,4771161	-43,93911289
Rota 3 - VIGOR 368m	7513986,504	609146,949	-22,47701272	-43,93904637
Rota 3 - VIGOR 368m	7513985,804	609162,385	-22,47701806	-43,9388963
Rota 3 - VIGOR 368m	7513979,995	609174,433	-22,47706975	-43,9387788
Rota 3 - VIGOR 368m	7513976,395	609182,254	-22,47710177	-43,93870254
Rota 3 - VIGOR 368m	7513975,213	609190,532	-22,47711191	-43,93862201


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 3 - VIGOR 368m	7513975,777	609202,689	-22,47710604	-43,93850389
Rota 3 - VIGOR 368m	7513991,316	609213,839	-22,47696498	-43,93839659
Rota 3 - VIGOR 368m	7514003,581	609209,057	-22,4768545	-43,93844391
Rota 3 - VIGOR 368m	7514014,444	609191,992	-22,47675747	-43,93861052
Rota 3 - VIGOR 368m	7514015,034	609170,45	-22,47675352	-43,93881993
Rota 3 - VIGOR 368m	7514017,924	609126,95	-22,47673019	-43,93924291
Rota 3 - VIGOR 368m	7514018,325	609087,024	-22,47672912	-43,93963098
Rota 3 - VIGOR 368m	7514025,149	609032,894	-22,47667095	-43,94015755
Rota 3 - VIGOR 368m	7514042,583	609018,04	-22,47651442	-43,94030311
Rota 3 - VIGOR 368m	7514056,849	609026,297	-22,47638504	-43,94022384
Rota 3 - VIGOR 368m	7514060,335	609033,888	-22,47635307	-43,9401503
Rota 3 - VIGOR 368m	7514069,966	609036,021	-22,47626594	-43,94013024
Rota 3 - BR393 12,534m	7514070,845	609035,054	-22,47625806	-43,9401397
Rota 3 - BR393 12,534m	7514056,752	609193,128	-22,47637525	-43,93860239
Rota 3 - BR393 12,534m	7514038,388	609475,619	-22,47652303	-43,93585556
Rota 3 - BR393 12,534m	7514011,914	609735,809	-22,47674544	-43,93332493
Rota 3 - BR393 12,534m	7514002,789	609850,038	-22,47682052	-43,93221409
Rota 3 - BR393 12,534m	7514040,112	609964,526	-22,47647602	-43,93110396
Rota 3 - BR393 12,534m	7514117,024	610137,264	-22,47577018	-43,92943044
Rota 3 - BR393 12,534m	7514133,898	610199,365	-22,47561376	-43,92882806
Rota 3 - BR393 12,534m	7514137,033	610237,418	-22,47558299	-43,92845844
Rota 3 - BR393 12,534m	7514126,639	610287,977	-22,4756736	-43,92796633
Rota 3 - BR393 12,534m	7514109,26	610328,918	-22,47582794	-43,92756722
Rota 3 - BR393 12,534m	7514079,826	610355,359	-22,47609208	-43,92730819
Rota 3 - BR393 12,534m	7514043,896	610381,794	-22,47641491	-43,92704877
Rota 3 - BR393 12,534m	7514015,453	610405,786	-22,47667027	-43,92681361
Rota 3 - BR393 12,534m	7513953,656	610446,11	-22,47722584	-43,9264174
Rota 3 - BR393 12,534m	7513904,218	610480,127	-22,47767018	-43,92608333
Rota 3 - BR393 12,534m	7513868,486	610505,353	-22,47799129	-43,92583567
Rota 3 - BR393 12,534m	7513824,765	610546,078	-22,47838357	-43,92543681
Rota 3 - BR393 12,534m	7513801,168	610587,46	-22,47859403	-43,92503296
Rota 3 - BR393 12,534m	7513775,012	610647,446	-22,47882639	-43,92444812
Rota 3 - BR393 12,534m	7513747,569	610711,284	-22,47907013	-43,92382575
Rota 3 - BR393 12,534m	7513727,71	610756,433	-22,47924657	-43,92338555
Rota 3 - BR393 12,534m	7513694,435	610792,156	-22,47954481	-43,92303602
Rota 3 - BR393 12,534m	7513664,485	610821,12	-22,47981345	-43,92275243
Rota 3 - BR393 12,534m	7513601,227	610863,847	-22,48038205	-43,92233273
Rota 3 - BR393 12,534m	7513542,927	610883,8	-22,48090734	-43,92213472
Rota 3 - BR393 12,534m	7513482,242	610898,936	-22,48145449	-43,92198336
Rota 3 - BR393 12,534m	7513436,766	610910,8	-22,48186448	-43,92186487
Rota 3 - BR393 12,534m	7513367,029	610930,032	-22,48249312	-43,92167307
Rota 3 - BR393 12,534m	7513315,23	610946,811	-22,4829599	-43,92150637
Rota 3 - BR393 12,534m	7513209,795	611030,644	-22,48390678	-43,92068417
Rota 3 - BR393 12,534m	7513120,743	611122,434	-22,48470516	-43,91978577
Rota 3 - BR393 12,534m	7512917,351	611294,47	-22,48653106	-43,91809937


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
	CREA: 1996101066			
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 3 - BR393 12,534m	7512805,878	611408,074	-22,48753052	-43,91698733
Rota 3 - BR393 12,534m	7512741,476	611493,742	-22,48810663	-43,91615013
Rota 3 - BR393 12,534m	7512726,743	611567,697	-22,48823486	-43,91543026
Rota 3 - BR393 12,534m	7512766,135	611692,668	-22,48787088	-43,91421834
Rota 3 - BR393 12,534m	7512774,498	611762,415	-22,48779077	-43,913541
Rota 3 - BR393 12,534m	7512769,395	611818,448	-22,48783319	-43,91299601
Rota 3 - BR393 12,534m	7512754,366	611893,147	-22,48796404	-43,91226889
Rota 3 - BR393 12,534m	7512736,897	611956,493	-22,48811768	-43,91165194
Rota 3 - BR393 12,534m	7512733,882	612049,707	-22,48813879	-43,9107457
Rota 3 - BR393 12,534m	7512746,718	612112,775	-22,48801871	-43,91013361
Rota 3 - BR393 12,534m	7512772,561	612194,532	-22,4877799	-43,90934078
Rota 3 - BR393 12,534m	7512776,016	612245,647	-22,48774534	-43,90884419
Rota 3 - BR393 12,534m	7512761,954	612289,374	-22,48786948	-43,90841818
Rota 3 - BR393 12,534m	7512743,024	612334,47	-22,48803749	-43,90797851
Rota 3 - BR393 12,534m	7512714,421	612414,444	-22,48829057	-43,90719915
Rota 3 - BR393 12,534m	7512696,938	612493,077	-22,4884433	-43,90643361
Rota 3 - BR393 12,534m	7512694,872	612550,364	-22,48845818	-43,90587664
Rota 3 - BR393 12,534m	7512710,496	612623,966	-22,48831221	-43,90516236
Rota 3 - BR393 12,534m	7512728,565	612687,783	-22,48814478	-43,90454335
Rota 3 - BR393 12,534m	7512783,874	612776,425	-22,48763936	-43,9036857
Rota 3 - BR393 12,534m	7512851,027	612859,097	-22,48702733	-43,90288693
Rota 3 - BR393 12,534m	7512906,087	612926,649	-22,48652554	-43,90223427
Rota 3 - BR393 12,534m	7512921,782	612966,111	-22,48638117	-43,90185182
Rota 3 - BR393 12,534m	7512931,935	613031,583	-22,48628512	-43,90121618
Rota 3 - BR393 12,534m	7512945,026	613116,08	-22,48616128	-43,90039584
Rota 3 - BR393 12,534m	7512958,142	613197,147	-22,48603744	-43,89960883
Rota 3 - BR393 12,534m	7512980,804	613247,081	-22,48582943	-43,89912511
Rota 3 - BR393 12,534m	7513015,141	613283,301	-22,48551688	-43,89877552
Rota 3 - BR393 12,534m	7513081,169	613325,428	-22,48491769	-43,89837078
Rota 3 - BR393 12,534m	7513206,943	613385,744	-22,48377765	-43,89779353
Rota 3 - BR393 12,534m	7513308,014	613437,371	-22,48286131	-43,89729898
Rota 3 - BR393 12,534m	7513347,468	613469,52	-22,48250281	-43,89698933
Rota 3 - BR393 12,534m	7513400,261	613528,443	-22,48202205	-43,89642041
Rota 3 - BR393 12,534m	7513430,765	613585,238	-22,48174275	-43,89587059
Rota 3 - BR393 12,534m	7513457,713	613646,312	-22,48149528	-43,89527892
Rota 3 - BR393 12,534m	7513498,342	613742,31	-22,4811219	-43,8943488
Rota 3 - BR393 12,534m	7513558,569	613867,308	-22,48056958	-43,89313823
Rota 3 - BR393 12,534m	7513597,186	613981,429	-22,48021315	-43,89203184
Rota 3 - BR393 12,534m	7513671,123	614181,267	-22,47953197	-43,8900949
Rota 3 - BR393 12,534m	7513734,549	614328,713	-22,47894922	-43,88866642
Rota 3 - BR393 12,534m	7513764,254	614407,392	-22,47867564	-43,88790388
Rota 3 - BR393 12,534m	7513797,027	614482,873	-22,47837457	-43,88717263
Rota 3 - BR393 12,534m	7513849,126	614580,304	-22,47789745	-43,88622946
Rota 3 - BR393 12,534m	7513904,156	614674,367	-22,47739408	-43,88531924
Rota 3 - BR393 12,534m	7513951,983	614765,227	-22,47695599	-43,88443963


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 3 - BR393 12,534m	7513987,479	614844,311	-22,47663006	-43,88367359
Rota 3 - BR393 12,534m	7514018,192	614936,451	-22,47634644	-43,88278031
Rota 3 - BR393 12,534m	7514026,738	614989,108	-22,4762657	-43,88226916
Rota 3 - BR393 12,534m	7514038,255	615061,202	-22,47615682	-43,88156932
Rota 3 - BR393 12,534m	7514051,561	615150,418	-22,47603062	-43,88070321
Rota 3 - BR393 12,534m	7514075,843	615214,412	-22,47580698	-43,88008302
Rota 3 - BR393 12,534m	7514115,971	615268,405	-22,47544088	-43,87956119
Rota 3 - BR393 12,534m	7514169,377	615341,353	-22,47495358	-43,8788561
Rota 3 - BR393 12,534m	7514213,99	615405,083	-22,47454631	-43,87823996
Rota 3 - BR393 12,534m	7514264,938	615488,776	-22,47408047	-43,87743028
Rota 3 - BR393 12,534m	7514350,505	615642,916	-22,47329717	-43,87593847
Rota 3 - BR393 12,534m	7514396,061	615735,534	-22,47287942	-43,87504168
Rota 3 - BR393 12,534m	7514476,21	615936,135	-22,47214188	-43,87309797
Rota 3 - BR393 12,534m	7514562,331	616139,408	-22,4713502	-43,87112875
Rota 3 - BR393 12,534m	7514596,81	616216,692	-22,47103351	-43,87038018
Rota 3 - BR393 12,534m	7514623,581	616317,488	-22,47078484	-43,86940256
Rota 3 - BR393 12,534m	7514639,413	616371,701	-22,47063815	-43,86887685
Rota 3 - BR393 12,534m	7514653,653	616473,43	-22,47050259	-43,86788925
Rota 3 - BR393 12,534m	7514669,191	616559,285	-22,47035639	-43,86705601
Rota 3 - BR393 12,534m	7514694,086	616612,2	-22,47012792	-43,8665436
Rota 3 - BR393 12,534m	7514765,848	616745,131	-22,46947066	-43,86525699
Rota 3 - BR393 12,534m	7514847,947	616824,271	-22,46872371	-43,86449392
Rota 3 - BR393 12,534m	7514948,984	616924,875	-22,46780423	-43,86352367
Rota 3 - BR393 12,534m	7515004,167	617002,525	-22,46730049	-43,86277312
Rota 3 - BR393 12,534m	7515032,299	617080	-22,46704108	-43,86202228
Rota 3 - BR393 12,534m	7515041,524	617157,238	-22,46695246	-43,86127234
Rota 3 - BR393 12,534m	7515062,464	617341,702	-22,46675066	-43,85948124
Rota 3 - BR393 12,534m	7515071,822	617480,373	-22,4666566	-43,8581343
Rota 3 - BR393 12,534m	7515085,487	617543,296	-22,46652884	-43,85752382
Rota 3 - BR393 12,534m	7515115,801	617600,066	-22,46625113	-43,85697437
Rota 3 - BR393 12,534m	7515262,08	617712,786	-22,46492214	-43,8558898
Rota 3 - BR393 12,534m	7515320,81	617792,445	-22,46438618	-43,85512002
Rota 3 - BR393 12,534m	7515336,874	617814,351	-22,46423958	-43,85490834
Rota 3 - BR393 12,534m	7515350,536	617831,914	-22,46411497	-43,85473867
Rota 3 - BR393 12,534m	7515402,683	617904,14	-22,46363898	-43,85404066
Rota 3 - BR393 12,534m	7515512,435	618052,127	-22,46263745	-43,85261069
Rota 3 - BR393 12,534m	7515609,531	618189,055	-22,46175098	-43,85128727
Rota 3 - BR393 12,534m	7515709,737	618326,285	-22,4608364	-43,84996117
Rota 3 - BR393 12,534m	7515791,909	618435,878	-22,46008661	-43,8489023
Rota 3 - BR393 12,534m	7515852,487	618524,198	-22,45953333	-43,84804857
Rota 3 - BR393 12,534m	7515909,035	618643,744	-22,45901428	-43,84689109
Rota 3 - BR393 12,534m	7515985,686	618826,278	-22,45830926	-43,84512303
Rota 3 - BR393 12,534m	7516062,152	619017,386	-22,4576053	-43,84327167
Rota 3 - BR393 12,534m	7516121,229	619205,978	-22,45705856	-43,84144347
Rota 3 - BR393 12,534m	7516152,941	619356,933	-22,45676158	-43,83997897


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 3 - BR393 12,534m	7516171,136	619446,962	-22,45659096	-43,83910549
Rota 3 - BR393 12,534m	7516206,171	619536,954	-22,45626822	-43,83823363
Rota 3 - BR393 12,534m	7516329,661	619736,308	-22,45513887	-43,83630576
ROTA 3 - BR-393 (Final) 9,215m	7516329,646	619736,307	-22,45513901	-43,83630576
ROTA 3 - BR-393 (Final) 9,215m	7516339,789	619754,052	-22,45504615	-43,83613409
ROTA 3 - BR-393 (Final) 9,215m	7516384,944	619828,937	-22,45463305	-43,83540982
ROTA 3 - BR-393 (Final) 9,215m	7516434,908	619894,629	-22,45417716	-43,83477525
ROTA 3 - BR-393 (Final) 9,215m	7516463,891	619957,778	-22,45391094	-43,83416381
ROTA 3 - BR-393 (Final) 9,215m	7516500,455	620023,204	-22,4535761	-43,83353081
ROTA 3 - BR-393 (Final) 9,215m	7516526,124	620079,552	-22,45334029	-43,83298521
ROTA 3 - BR-393 (Final) 9,215m	7516553,729	620121,687	-22,453088	-43,83257787
ROTA 3 - BR-393 (Final) 9,215m	7516585,617	620168,845	-22,45279666	-43,83212204
ROTA 3 - BR-393 (Final) 9,215m	7516631,772	620200,859	-22,45237753	-43,83181445
ROTA 3 - BR-393 (Final) 9,215m	7516668,097	620213,216	-22,45204857	-43,83169713
ROTA 3 - BR-393 (Final) 9,215m	7516745,346	620227,833	-22,45134981	-43,83156094
ROTA 3 - BR-393 (Final) 9,215m	7516835,689	620260,061	-22,45053155	-43,83125463
ROTA 3 - BR-393 (Final) 9,215m	7516875,186	620296,838	-22,45017222	-43,83090025
ROTA 3 - BR-393 (Final) 9,215m	7516902,427	620346,409	-22,44992269	-43,83042064
ROTA 3 - BR-393 (Final) 9,215m	7516918,489	620407,739	-22,44977329	-43,82982593
ROTA 3 - BR-393 (Final) 9,215m	7516929,529	620456,274	-22,44967015	-43,82935515
ROTA 3 - BR-393 (Final) 9,215m	7516937,746	620505,332	-22,44959248	-43,82887908
ROTA 3 - BR-393 (Final) 9,215m	7516937,357	620538,95	-22,44959362	-43,82855239
ROTA 3 - BR-393 (Final) 9,215m	7516922,83	620580,015	-22,44972194	-43,82815227
ROTA 3 - BR-393 (Final) 9,215m	7516886,822	620621,659	-22,45004423	-43,82774489
ROTA 3 - BR-393 (Final) 9,215m	7516771,115	620663,869	-22,45108633	-43,82732594
ROTA 3 - BR-393 (Final) 9,215m	7516718,98	620714,84	-22,45155363	-43,8268267
ROTA 3 - BR-393 (Final) 9,215m	7516701,255	620797,204	-22,4517079	-43,82602502
ROTA 3 - BR-393 (Final) 9,215m	7516711,808	620871,494	-22,45160733	-43,82530395
ROTA 3 - BR-393 (Final) 9,215m	7516713,324	620982,814	-22,45158576	-43,82422238
ROTA 3 - BR-393 (Final) 9,215m	7516713,578	621090,008	-22,45157587	-43,82318079
ROTA 3 - BR-393 (Final) 9,215m	7516700,876	621183,408	-22,45168398	-43,82227225
ROTA 3 - BR-393 (Final) 9,215m	7516682,367	621241,036	-22,45184707	-43,82171087
ROTA 3 - BR-393 (Final) 9,215m	7516640,04	621407,463	-22,45221756	-43,82009047
ROTA 3 - BR-393 (Final) 9,215m	7516620,469	621500,795	-22,45238769	-43,81918206
ROTA 3 - BR-393 (Final) 9,215m	7516593,41	621589,424	-22,45262579	-43,81831879
ROTA 3 - BR-393 (Final) 9,215m	7516572,703	621653,967	-22,45280822	-43,81769003
ROTA 3 - BR-393 (Final) 9,215m	7516550,093	621755,131	-22,45300523	-43,81670528
ROTA 3 - BR-393 (Final) 9,215m	7516532,862	621830,958	-22,45315546	-43,81596714
ROTA 3 - BR-393 (Final) 9,215m	7516508,45	621942,592	-22,45336799	-43,81488052
ROTA 3 - BR-393 (Final) 9,215m	7516507,395	622005,201	-22,45337305	-43,81427206
ROTA 3 - BR-393 (Final) 9,215m	7516484,968	622106,313	-22,45356839	-43,81328783
ROTA 3 - BR-393 (Final) 9,215m	7516465,732	622179,314	-22,45373692	-43,81257699
ROTA 3 - BR-393 (Final) 9,215m	7516457,353	622222,374	-22,45380951	-43,81215792
ROTA 3 - BR-393 (Final) 9,215m	7516453,161	622282,405	-22,45384308	-43,81157428
ROTA 3 - BR-393 (Final) 9,215m	7516447,799	622316,535	-22,45388907	-43,81124222


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 3 - BR-393 (Final) 9,215m	7516450,367	622350,406	-22,45386345	-43,81091329
ROTA 3 - BR-393 (Final) 9,215m	7516466,558	622482,53	-22,45370775	-43,80963067
ROTA 3 - BR-393 (Final) 9,215m	7516482,833	622609,344	-22,45355165	-43,80839967
ROTA 3 - BR-393 (Final) 9,215m	7516490,9	622691,441	-22,4534729	-43,80760255
ROTA 3 - BR-393 (Final) 9,215m	7516506,24	622768,372	-22,45332882	-43,8068562
ROTA 3 - BR-393 (Final) 9,215m	7516544,471	623002,011	-22,45296671	-43,80458887
ROTA 3 - BR-393 (Final) 9,215m	7516569,44	623089,785	-22,45273487	-43,80373791
ROTA 3 - BR-393 (Final) 9,215m	7516627,446	623204,462	-22,45220269	-43,80262809
ROTA 3 - BR-393 (Final) 9,215m	7516753,803	623437,428	-22,45104461	-43,8003742
ROTA 3 - BR-393 (Final) 9,215m	7516795,166	623522,226	-22,45066489	-43,79955345
ROTA 3 - BR-393 (Final) 9,215m	7516842,899	623620,555	-22,45022665	-43,79860171
ROTA 3 - BR-393 (Final) 9,215m	7516931,302	623751,275	-22,44941874	-43,79733842
ROTA 3 - BR-393 (Final) 9,215m	7517015,362	623847,411	-22,44865254	-43,79641085
ROTA 3 - BR-393 (Final) 9,215m	7517148,2	623967,14	-22,44744405	-43,79525784
ROTA 3 - BR-393 (Final) 9,215m	7517232,655	624036,246	-22,44667623	-43,79459296
ROTA 3 - BR-393 (Final) 9,215m	7517301,855	624115,282	-22,44604548	-43,79383041
ROTA 3 - BR-393 (Final) 9,215m	7517387,191	624205,548	-22,44526817	-43,79296001
ROTA 3 - BR-393 (Final) 9,215m	7517594,277	624428,069	-22,44338157	-43,79081411
ROTA 3 - BR-393 (Final) 9,215m	7517706,405	624548,972	-22,44236002	-43,78964818
ROTA 3 - BR-393 (Final) 9,215m	7517799,866	624660,476	-22,44150775	-43,78857211
ROTA 3 - BR-393 (Final) 9,215m	7517852,122	624771,673	-22,44102766	-43,78749581
ROTA 3 - BR-393 (Final) 9,215m	7517887,001	624844,939	-22,44070728	-43,78678668
ROTA 3 - BR-393 (Final) 9,215m	7517925,024	624955,339	-22,4403558	-43,78571702
ROTA 3 - BR-393 (Final) 9,215m	7517990,895	625099,843	-22,43975028	-43,78431819
ROTA 3 - BR-393 (Final) 9,215m	7518040,755	625194,702	-22,439293	-43,78340047
ROTA 3 - BR-393 (Final) 9,215m	7518111,566	625299,156	-22,43864578	-43,78239118
ROTA 3 - BR-393 (Final) 9,215m	7518188,571	625387,598	-22,43794378	-43,78153795
ROTA 3 - BR-393 (Final) 9,215m	7518289,678	625493,678	-22,4370228	-43,78051528
ROTA 3 - BR-393 (Final) 9,215m	7518377,76	625645,369	-22,43621611	-43,77904843
ROTA 3 - BR-393 (Final) 9,215m	7518469,696	625796,501	-22,43537463	-43,77758735
ROTA 3 - BR-393 (Final) 9,215m	7518562,341	625959,516	-22,43452586	-43,77601089
ROTA 3 - BR-393 (Final) 9,215m	7518687,751	626152,865	-22,43337891	-43,77414233
ROTA 3 - BR-393 (Final) 9,215m	7518763,036	626247,377	-22,43269195	-43,77323008
ROTA 3 - BR-393 (Final) 9,215m	7518897,426	626393,892	-22,43146733	-43,7718173
ROTA 3 - BR-393 (Final) 9,215m	7518941,226	626437,108	-22,43106853	-43,77140092
ROTA 3 - BR-393 (Final) 9,215m	7519023,22	626525,335	-22,43032143	-43,77055029
ROTA 3 - BR-393 (Final) 9,215m	7519137,647	626646,427	-22,42927898	-43,76938295
ROTA 3 - BR-393 (Final) 9,215m	7519355,712	626821,321	-22,42729646	-43,7677012
ROTA 3 - BR-393 (Final) 9,215m	7519478,984	626950,377	-22,4261735	-43,76645725
ROTA 3 - BR-393 (Final) 9,215m	7519626,099	627114,659	-22,42483256	-43,764873
ROTA 3 - BR-393 (Final) 9,215m	7519728,884	627230,149	-22,42389562	-43,76375925
ROTA 3 - BR-393 (Final) 9,215m	7519749,402	627283,283	-22,42370635	-43,7632447
ROTA 3 - BR-393 (Final) 9,215m	7519752,884	627318,339	-22,42367229	-43,76290442
ROTA 3 - BR-393 (Final) 9,215m	7519738,012	627379,803	-22,42380204	-43,76230611

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Início da Rota 4	7514671,168	620279,461	-22,4700805	-43,83090213
Rota 4 - RJ145 15,666m	7514665,493	620278,137	-22,47013186	-43,83091457
Rota 4 - RJ145 15,666m	7514759,428	620320,286	-22,46928045	-43,83051208
Rota 4 - RJ145 15,666m	7514794,098	620339,041	-22,46896599	-43,83033244
Rota 4 - RJ145 15,666m	7514816,176	620363,64	-22,46876484	-43,83009505
Rota 4 - RJ145 15,666m	7514877,841	620388,35	-22,46820613	-43,82985959
Rota 4 - RJ145 15,666m	7514918,171	620405,856	-22,46784063	-43,82969253
Rota 4 - RJ145 15,666m	7514975,824	620426,632	-22,46731843	-43,829495
Rota 4 - RJ145 15,666m	7515016,136	620442,349	-22,46695322	-43,82934532
Rota 4 - RJ145 15,666m	7515085,547	620460,151	-22,46632504	-43,82917759
Rota 4 - RJ145 15,666m	7515134,886	620369,97	-22,46588576	-43,83005771
Rota 4 - RJ145 15,666m	7515189,378	620277,98	-22,46540005	-43,8309558
Rota 4 - RJ145 15,666m	7515261,4	620145,187	-22,46475888	-43,83225173
Rota 4 - RJ145 15,666m	7515308,702	620041,481	-22,46433894	-43,83326311
Rota 4 - RJ145 15,666m	7515360,867	619988,256	-22,46387151	-43,83378429
Rota 4 - RJ145 15,666m	7515397,596	619956,922	-22,46354198	-43,83409157
Rota 4 - RJ145 15,666m	7515415,525	619927,322	-22,46338211	-43,83438057
Rota 4 - RJ145 15,666m	7515455,158	619853,098	-22,46302935	-43,83510486
Rota 4 - RJ145 15,666m	7515491,977	619800,786	-22,46270047	-43,835616
Rota 4 - RJ145 15,666m	7515519,652	619735,564	-22,46245508	-43,8362519
Rota 4 - RJ145 15,666m	7515544,668	619655,653	-22,46223473	-43,83703035
Rota 4 - RJ145 15,666m	7515565,105	619617,714	-22,46205279	-43,83740056
Rota 4 - RJ145 15,666m	7515593,2	619593,514	-22,46180073	-43,83763785
Rota 4 - RJ145 15,666m	7515615,124	619582,341	-22,46160349	-43,83774808
Rota 4 - RJ145 15,666m	7515627,217	619553,275	-22,4614963	-43,83803145
Rota 4 - RJ145 15,666m	7515625,125	619528,314	-22,46151694	-43,83827385
Rota 4 - RJ145 15,666m	7515614,326	619504,988	-22,46161611	-43,83849972
Rota 4 - RJ145 15,666m	7515606,603	619477,729	-22,46168777	-43,83876403
Rota 4 - RJ145 15,666m	7515618,878	619451,509	-22,46157874	-43,83901975
Rota 4 - RJ145 15,666m	7515681,683	619440,039	-22,46101227	-43,83913594
Rota 4 - RJ145 15,666m	7515731,497	619431,15	-22,46056297	-43,83922607
Rota 4 - RJ145 15,666m	7515806,54	619412,744	-22,45988645	-43,83941057
Rota 4 - RJ145 15,666m	7515824,381	619408,855	-22,45972557	-43,83944971
Rota 4 - RJ145 15,666m	7515860,234	619398,026	-22,45940251	-43,83955763
Rota 4 - RJ145 15,666m	7515886,298	619378,414	-22,45916846	-43,83975017
Rota 4 - RJ145 15,666m	7515924,623	619335,585	-22,4588253	-43,84016925
Rota 4 - RJ145 15,666m	7515946,534	619320,508	-22,45862844	-43,84031741
Rota 4 - RJ145 15,666m	7515950,559	619333,853	-22,45859116	-43,84018803
Rota 4 - RJ145 15,666m	7515956,307	619343,879	-22,45853854	-43,84009103
Rota 4 - RJ145 15,666m	7515971,564	619354,679	-22,45839997	-43,83998723
Rota 4 - RJ145 15,666m	7515971,925	619355,05	-22,45839669	-43,83998366
Rota 4 - RJ145 15,666m	7515985,369	619363,244	-22,45827469	-43,83990504
Rota 4 - RJ145 15,666m	7516012,829	619383,992	-22,45802522	-43,83970549

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - RJ145 15,666m	7516032,008	619395,49	-22,45785118	-43,8395952
Rota 4 - RJ145 15,666m	7516059,228	619410,343	-22,45760429	-43,83945291
Rota 4 - RJ145 15,666m	7516077,008	619420,379	-22,45744299	-43,83935672
Rota 4 - RJ145 15,666m	7516095,571	619437,08	-22,45727416	-43,83919582
Rota 4 - RJ145 15,666m	7516118,829	619460,29	-22,45706247	-43,83897204
Rota 4 - RJ145 15,666m	7516135,801	619482,066	-22,45690765	-43,8387617
Rota 4 - RJ145 15,666m	7516152,064	619502,753	-22,45675931	-43,83856191
Rota 4 - RJ145 15,666m	7516180,048	619489,136	-22,45650751	-43,83869634
Rota 4 - RJ145 15,666m	7516180,154	619468,998	-22,45650796	-43,83889203
Rota 4 - RJ145 15,666m	7516189,379	619464,039	-22,45642499	-43,83894091
Rota 4 - RJ145 15,666m	7516201,639	619453,629	-22,45631498	-43,83904299
Rota 4 - RJ145 15,666m	7516205,013	619403,807	-22,45628799	-43,83952738
Rota 4 - RJ145 15,666m	7516208,973	619346,431	-22,45625623	-43,84008523
Rota 4 - RJ145 15,666m	7516211,875	619308,492	-22,45623267	-43,84045411
Rota 4 - RJ145 15,666m	7516234,922	619264,11	-22,4560276	-43,84088712
Rota 4 - RJ145 15,666m	7516263,334	619224,678	-22,45577373	-43,84127243
Rota 4 - RJ145 15,666m	7516325,492	619169,196	-22,45521618	-43,84181622
Rota 4 - RJ145 15,666m	7516390,251	619119,4	-22,45463473	-43,84230497
Rota 4 - RJ145 15,666m	7516446,696	619077,543	-22,45412783	-43,84271593
Rota 4 - RJ145 15,666m	7516504,195	619032,731	-22,4536116	-43,84315569
Rota 4 - RJ145 15,666m	7516546,353	618984,48	-22,45323419	-43,84362771
Rota 4 - RJ145 15,666m	7516552,021	618961,042	-22,45318462	-43,84385589
Rota 4 - RJ145 15,666m	7516553,499	618918,283	-22,45317425	-43,84427149
Rota 4 - RJ145 15,666m	7516557,83	618846,653	-22,45314011	-43,84496786
Rota 4 - RJ145 15,666m	7516563,537	618753,163	-22,45309506	-43,84587674
Rota 4 - RJ145 15,666m	7516567,485	618659,628	-22,4530659	-43,84678593
Rota 4 - RJ145 15,666m	7516576,179	618606,617	-22,45299106	-43,8473017
Rota 4 - RJ145 15,666m	7516595,503	618546,002	-22,45282073	-43,84789215
Rota 4 - RJ145 15,666m	7516620,776	618484,241	-22,45259674	-43,84849417
Rota 4 - RJ145 15,666m	7516656,486	618375,948	-22,4522817	-43,84954913
Rota 4 - RJ145 15,666m	7516681,953	618287,973	-22,45205777	-43,8504059
Rota 4 - RJ145 15,666m	7516750,615	618079,621	-22,45145201	-43,85243558
Rota 4 - RJ145 15,666m	7516779,409	618022,957	-22,45119585	-43,85298832
Rota 4 - RJ145 15,666m	7516800,429	618010,042	-22,45100689	-43,85311538
Rota 4 - RJ145 15,666m	7516843,522	618004,816	-22,45061802	-43,85316936
Rota 4 - RJ145 15,666m	7516925,094	618012,818	-22,44988068	-43,85309767
Rota 4 - RJ145 15,666m	7517035,027	618040,352	-22,44888585	-43,85283829
Rota 4 - RJ145 15,666m	7517135,369	618077,758	-22,44797695	-43,85248228
Rota 4 - RJ145 15,666m	7517222,181	618095,129	-22,44719164	-43,85231994
Rota 4 - RJ145 15,666m	7517353,954	618105,711	-22,4460007	-43,85222691
Rota 4 - RJ145 15,666m	7517460,641	618121,047	-22,44503602	-43,85208583
Rota 4 - RJ145 15,666m	7517599,763	618137,126	-22,44377832	-43,85193994
Rota 4 - RJ145 15,666m	7517662,839	618133,053	-22,44320888	-43,8519842



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LOX
Rota 4 - RJ145 15,666m	7517706,255	618110,773	-22,44281828	-43,85220391
Rota 4 - RJ145 15,666m	7517786,709	618050,571	-22,44209575	-43,85279484
Rota 4 - RJ145 15,666m	7517878,445	618018,983	-22,44126935	-43,85310857
Rota 4 - RJ145 15,666m	7517922,571	617999,024	-22,44087217	-43,85330577
Rota 4 - RJ145 15,666m	7517957,661	617962,285	-22,44055777	-43,85366535
Rota 4 - RJ145 15,666m	7517971,902	617919,296	-22,4404321	-43,8540841
Rota 4 - RJ145 15,666m	7517967,047	617868,174	-22,44047948	-43,85458046
Rota 4 - RJ145 15,666m	7517956,964	617825,88	-22,44057347	-43,85499065
Rota 4 - RJ145 15,666m	7517919,28	617766,011	-22,44091796	-43,85556957
Rota 4 - RJ145 15,666m	7517886,335	617733,538	-22,44121776	-43,85588265
Rota 4 - RJ145 15,666m	7517866,091	617700,413	-22,4414029	-43,856203
Rota 4 - RJ145 15,666m	7517854,259	617668,898	-22,44151193	-43,85650834
Rota 4 - RJ145 15,666m	7517848,653	617609,312	-22,44156667	-43,85708688
Rota 4 - RJ145 15,666m	7517838,053	617480,828	-22,44167125	-43,8583345
Rota 4 - RJ145 15,666m	7517806,388	617422,29	-22,44196128	-43,85890094
Rota 4 - RJ145 15,666m	7517765,512	617363,365	-22,44233452	-43,85947047
Rota 4 - RJ145 15,666m	7517757,114	617345,567	-22,4424116	-43,85964277
Rota 4 - RJ145 15,666m	7517751,839	617312,422	-22,44246152	-43,85996443
Rota 4 - RJ145 15,666m	7517759,893	617291,541	-22,4423902	-43,86016793
Rota 4 - RJ145 15,666m	7517799,932	617246,013	-22,44203169	-43,86061325
Rota 4 - RJ145 15,666m	7517864,483	617182,811	-22,44145297	-43,86123211
Rota 4 - RJ145 15,666m	7517896,798	617167,003	-22,44116218	-43,86138809
Rota 4 - RJ145 15,666m	7517989,027	617132,778	-22,44033148	-43,86172743
Rota 4 - RJ145 15,666m	7518044,815	617106,726	-22,43982937	-43,86198467
Rota 4 - RJ145 15,666m	7518119,395	617068,151	-22,43915839	-43,86236496
Rota 4 - RJ145 15,666m	7518144,983	617070,024	-22,43892714	-43,86234865
Rota 4 - RJ145 15,666m	7518223,395	617064,447	-22,43821929	-43,86240861
Rota 4 - RJ145 15,666m	7518285,72	617025,618	-22,43765901	-43,86279047
Rota 4 - RJ145 15,666m	7518361,932	616995,577	-22,43697269	-43,86308796
Rota 4 - RJ145 15,666m	7518433,505	616982,69	-22,4363271	-43,86321844
Rota 4 - RJ145 15,666m	7518498,429	616962,121	-22,4357421	-43,86342307
Rota 4 - RJ145 15,666m	7518575,504	616953,339	-22,43504654	-43,86351406
Rota 4 - RJ145 15,666m	7518620,16	616967,117	-22,43464224	-43,86338347
Rota 4 - RJ145 15,666m	7518654,968	616981,83	-22,43432684	-43,86324309
Rota 4 - RJ145 15,666m	7518694,806	616991,912	-22,43396633	-43,86314807
Rota 4 - RJ145 15,666m	7518733,041	616985,998	-22,43362138	-43,86320834
Rota 4 - RJ145 15,666m	7518781,925	616975,697	-22,43318055	-43,86331202
Rota 4 - RJ145 15,666m	7518820,817	616961,683	-22,43283023	-43,86345103
Rota 4 - RJ145 15,666m	7518858,66	616941,128	-22,43248982	-43,86365352
Rota 4 - RJ145 15,666m	7518925,799	616904,015	-22,43188594	-43,86401904
Rota 4 - RJ145 15,666m	7518983,377	616889,088	-22,4313669	-43,8641683
Rota 4 - RJ145 15,666m	7519029,306	616894,96	-22,43095165	-43,86411463
Rota 4 - RJ145 15,666m	7519072,088	616917,657	-22,43056368	-43,86389726

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LOX
Rota 4 - RJ145 15,666m	7519094,711	616949,315	-22,43035718	-43,86359134
Rota 4 - RJ145 15,666m	7519115,4	616992,084	-22,43016738	-43,86317734
Rota 4 - RJ145 15,666m	7519136,539	617029,228	-22,42997391	-43,86281801
Rota 4 - RJ145 15,666m	7519160,561	617055,14	-22,42975516	-43,86256803
Rota 4 - RJ145 15,666m	7519191,674	617076,214	-22,4294727	-43,86236558
Rota 4 - RJ145 15,666m	7519224,393	617077,115	-22,42917711	-43,86235923
Rota 4 - RJ145 15,666m	7519225,432	617076,558	-22,42916776	-43,86236472
Rota 4 - RJ145 15,666m	7519254,627	617066,122	-22,42890478	-43,86246826
Rota 4 - RJ145 15,666m	7519307,616	617043,968	-22,42842768	-43,8626874
Rota 4 - RJ145 15,666m	7519378,239	617048,909	-22,42778945	-43,86264459
Rota 4 - RJ145 15,666m	7519431,586	617065,238	-22,42730649	-43,86248987
Rota 4 - RJ145 15,666m	7519499,227	617089,742	-22,42669386	-43,86225679
Rota 4 - RJ145 15,666m	7519523,598	617088,522	-22,42647381	-43,86227043
Rota 4 - RJ145 15,666m	7519558,604	617073,48	-22,42615866	-43,86241914
Rota 4 - RJ145 15,666m	7519660,914	617025,896	-22,42523782	-43,86288896
Rota 4 - RJ145 15,666m	7519726,886	616996,464	-22,42464395	-43,86317976
Rota 4 - RJ145 15,666m	7519805,686	616967,1	-22,42393422	-43,86347083
Rota 4 - RJ145 15,666m	7519907,808	616918,651	-22,42301513	-43,86394903
Rota 4 - RJ145 15,666m	7519964,515	616891,331	-22,42250479	-43,86421861
Rota 4 - RJ145 15,666m	7520107,421	616827,664	-22,42121837	-43,86484763
Rota 4 - RJ145 15,666m	7520258,262	616765,374	-22,41986018	-43,86546385
Rota 4 - RJ145 15,666m	7520338,827	616736,036	-22,41913449	-43,86575478
Rota 4 - RJ145 15,666m	7520481,872	616684,405	-22,41784599	-43,86626685
Rota 4 - RJ145 15,666m	7520520,19	616669,148	-22,41750092	-43,86641788
Rota 4 - RJ145 15,666m	7520592,655	616643,507	-22,41684814	-43,86667229
Rota 4 - RJ145 15,666m	7520647,428	616620,697	-22,41635496	-43,8668979
Rota 4 - RJ145 15,666m	7520688,695	616603,452	-22,41598341	-43,86706845
Rota 4 - RJ145 15,666m	7520754,194	616578,588	-22,41539349	-43,86731479
Rota 4 - RJ145 15,666m	7520805,871	616568,088	-22,41492744	-43,86742058
Rota 4 - RJ145 15,666m	7520838,389	616566,597	-22,41463383	-43,86743744
Rota 4 - RJ145 15,666m	7520839,652	616566,564	-22,41462243	-43,86743786
Rota 4 - RJ145 15,666m	7520839,905	616566,557	-22,41462014	-43,86743794
Rota 4 - RJ145 15,666m	7520921,076	616571,873	-22,41388662	-43,86739225
Rota 4 - RJ145 15,666m	7520986,573	616573,259	-22,41329493	-43,86738358
Rota 4 - RJ145 15,666m	7521027,999	616565,93	-22,41292125	-43,8674578
Rota 4 - RJ145 15,666m	7521065,6	616546,072	-22,41258298	-43,86765347
Rota 4 - RJ145 15,666m	7521106,92	616514,815	-22,41221189	-43,86796014
Rota 4 - RJ145 15,666m	7521172,954	616448,274	-22,41161998	-43,86861137
Rota 4 - RJ145 15,666m	7521198,988	616433,421	-22,41138584	-43,86875756
Rota 4 - RJ145 15,666m	7521217,006	616431,762	-22,4112232	-43,868775
Rota 4 - RJ145 15,666m	7521229,351	616437,334	-22,41111132	-43,86872177
Rota 4 - RJ145 15,666m	7521276,594	616467,938	-22,41068253	-43,86842793
Rota 4 - RJ145 15,666m	7521306,185	616476,216	-22,41041469	-43,86834968

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - RJ145 15,666m	7521324,947	616479,671	-22,41024499	-43,86831749
Rota 4 - RJ145 15,666m	7521380,453	616482,338	-22,40974346	-43,86829564
Rota 4 - RJ145 15,666m	7521410,79	616470,096	-22,40947028	-43,86841678
Rota 4 - RJ145 15,666m	7521429,596	616452,266	-22,40930163	-43,86859137
Rota 4 - RJ145 15,666m	7521457,398	616432,625	-22,40905184	-43,86878419
Rota 4 - RJ145 15,666m	7521493,255	616423,507	-22,4087286	-43,86887539
Rota 4 - RJ145 15,666m	7521524,259	616417,583	-22,40844896	-43,8689352
Rota 4 - RJ145 15,666m	7521541,427	616409,535	-22,40829444	-43,86901464
Rota 4 - RJ145 15,666m	7521554,491	616400,035	-22,40817709	-43,86910788
Rota 4 - RJ145 15,666m	7521564,514	616385,159	-22,40808757	-43,86925312
Rota 4 - RJ145 15,666m	7521583,55	616359,164	-22,40791739	-43,86950703
Rota 4 - RJ145 15,666m	7521597,893	616350,117	-22,40778845	-43,86959596
Rota 4 - RJ145 15,666m	7521631,899	616331,961	-22,40748254	-43,86977481
Rota 4 - RJ145 15,666m	7521655,975	616319,045	-22,40726595	-43,86990204
Rota 4 - RJ145 15,666m	7521722,039	616269,049	-22,40667263	-43,87039252
Rota 4 - RJ145 15,666m	7521750,695	616260,191	-22,4064144	-43,87048066
Rota 4 - RJ145 15,666m	7521804,909	616238,374	-22,4059262	-43,87069655
Rota 4 - RJ145 15,666m	7521827,069	616216,111	-22,40572756	-43,87091443
Rota 4 - RJ145 15,666m	7521863,049	616106,2	-22,40541003	-43,87198473
Rota 4 - RJ145 15,666m	7521870,506	616093,734	-22,40534351	-43,87210636
Rota 4 - RJ145 15,666m	7521887,589	616081,673	-22,40519004	-43,87222476
Rota 4 - RJ145 15,666m	7521913,7	616075,411	-22,40495461	-43,87228749
Rota 4 - RJ145 15,666m	7521976,012	616080,379	-22,40439145	-43,87224378
Rota 4 - RJ145 15,666m	7522015,42	616087,503	-22,40403502	-43,87217744
Rota 4 - RJ145 15,666m	7522055,619	616085,39	-22,40367207	-43,8722009
Rota 4 - RJ145 15,666m	7522134,356	616080,098	-22,40296126	-43,87225804
Rota 4 - RJ145 15,666m	7522170,384	616080,499	-22,4026358	-43,87225678
Rota 4 - RJ145 15,666m	7522193,969	616087,243	-22,40242232	-43,87219299
Rota 4 - RJ145 15,666m	7522204,308	616094,248	-22,40232846	-43,8721257
Rota 4 - RJ145 15,666m	7522223,742	616116,766	-22,4021514	-43,87190838
Rota 4 - RJ145 15,666m	7522251,45	616149,199	-22,40189893	-43,87159536
Rota 4 - RJ145 15,666m	7522262,343	616157,594	-22,40179997	-43,87151461
Rota 4 - RJ145 15,666m	7522287,487	616164,775	-22,40157238	-43,87144669
Rota 4 - RJ145 15,666m	7522304,243	616166,751	-22,4014209	-43,87142871
Rota 4 - RJ145 15,666m	7522332,875	616157,815	-22,40116289	-43,8715176
Rota 4 - RJ145 15,666m	7522377,658	616145,764	-22,4007592	-43,87163792
Rota 4 - RJ145 15,666m	7522418,022	616158,702	-22,40039375	-43,87151519
Rota 4 - RJ145 15,666m	7522449,625	616173,861	-22,40010727	-43,87137025
Rota 4 - RJ145 15,666m	7522466,588	616179,178	-22,39995369	-43,87131984
Rota 4 - RJ145 15,666m	7522490,109	616174,166	-22,39974159	-43,87137024
Rota 4 - RJ145 15,666m	7522537,973	616156,034	-22,39931049	-43,87154985
Rota 4 - RJ145 15,666m	7522594,926	616131,285	-22,39879775	-43,8717944
Rota 4 - RJ145 15,666m	7522659,89	616103,22	-22,39821287	-43,87207174

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LOX
Rota 4 - RJ145 15,666m	7522733,513	616071,651	-22,39755002	-43,87238376
Rota 4 - RJ145 15,666m	7522785,408	616050,835	-22,39708269	-43,87258973
Rota 4 - RJ145 15,666m	7522842,679	616052,797	-22,39656527	-43,87257484
Rota 4 - RJ145 15,666m	7522864,31	616060,557	-22,39636936	-43,87250104
Rota 4 - RJ145 15,666m	7522886,07	616075,141	-22,39617183	-43,87236097
Rota 4 - RJ145 15,666m	7522901,927	616101,913	-22,39602679	-43,87210208
Rota 4 - RJ145 15,666m	7522915,222	616134,309	-22,39590451	-43,87178838
Rota 4 - RJ145 15,666m	7522942,456	616195,117	-22,3956544	-43,87119972
Rota 4 - RJ145 15,666m	7522955,21	616233,632	-22,39553659	-43,87082654
Rota 4 - RJ145 15,666m	7522980,385	616288,937	-22,39530545	-43,87029119
Rota 4 - RJ145 15,666m	7523000,269	616320,376	-22,39512371	-43,86998727
Rota 4 - RJ145 15,666m	7523023,014	616348,132	-22,39491639	-43,86971933
Rota 4 - RJ145 15,666m	7523048,73	616353,549	-22,39468375	-43,86966859
Rota 4 - RJ145 15,666m	7523108,52	616356,864	-22,39414348	-43,86964076
Rota 4 - RJ145 15,666m	7523159,495	616352,685	-22,39368333	-43,86968507
Rota 4 - RJ145 15,666m	7523196,232	616358,399	-22,39335112	-43,86963225
Rota 4 - RJ145 15,666m	7523254,695	616378,562	-22,39282169	-43,86944067
Rota 4 - RJ145 15,666m	7523292,128	616393,94	-22,39248254	-43,86929404
Rota 4 - RJ145 15,666m	7523342,233	616391,56	-22,39203014	-43,86932081
Rota 4 - RJ145 15,666m	7523372,031	616379,336	-22,39176182	-43,86944172
Rota 4 - RJ145 15,666m	7523449,738	616343,365	-22,39106238	-43,86979679
Rota 4 - RJ145 15,666m	7523485,254	616330,638	-22,39074245	-43,86992299
Rota 4 - RJ145 15,666m	7523529,558	616328,152	-22,39034245	-43,86995037
Rota 4 - RJ145 15,666m	7523587,535	616330,65	-22,38981862	-43,86993033
Rota 4 - RJ145 15,666m	7523673,307	616339,372	-22,3890433	-43,86985188
Rota 4 - RJ145 15,666m	7523747,184	616345,389	-22,38837561	-43,86979883
Rota 4 - RJ145 15,666m	7523853,364	616363,374	-22,38741533	-43,8696319
Rota 4 - RJ145 15,666m	7523898,804	616387,138	-22,38700328	-43,8694044
Rota 4 - RJ145 15,666m	7523948,891	616431,977	-22,38654784	-43,86897256
Rota 4 - RJ145 15,666m	7523987,157	616461,17	-22,38620022	-43,86869181
Rota 4 - RJ145 15,666m	7524032,278	616480,988	-22,38579132	-43,86850262
Rota 4 - RJ145 15,666m	7524043,12	616519,431	-22,38569078	-43,86813004
Rota 4 - RJ145 15,666m	7524048,466	616547,7	-22,38564058	-43,86785587
Rota 4 - RJ145 15,666m	7524059,599	616554,065	-22,38553958	-43,86779486
Rota 4 - RJ145 15,666m	7524081,696	616545,38	-22,38534058	-43,86788083
Rota 4 - RJ145 15,666m	7524105,158	616530,365	-22,38512969	-43,86802838
Rota 4 - RJ145 15,666m	7524128,502	616517,057	-22,38491975	-43,86815934
Rota 4 - RJ145 15,666m	7524138,798	616515,553	-22,38482684	-43,86817469
Rota 4 - RJ145 15,666m	7524145,325	616521,725	-22,38476747	-43,86811523
Rota 4 - RJ145 15,666m	7524159,471	616545,132	-22,38463811	-43,86788892
Rota 4 - RJ145 15,666m	7524172,834	616570,05	-22,38451572	-43,86764789
Rota 4 - RJ145 15,666m	7524085,42	616624,181	-22,38530159	-43,86711574
Rota 4 - RJ145 15,666m	7524062,275	616637,238	-22,38550976	-43,86698723

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**


MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA


CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - RJ145 15,666m	7523973,053	616691,787	-22,38631193	-43,8664509
Rota 4 - RJ145 15,666m	7523966,312	616697,966	-22,3863724	-43,86639038
Rota 4 - RJ145 15,666m	7523941,887	616699,821	-22,38659288	-43,86637058
Rota 4 - RJ145 15,666m	7523926,103	616699,215	-22,38673549	-43,86637531
Rota 4 - RJ145 15,666m	7523894,82	616698,055	-22,38701813	-43,86638429
Rota 4 - RJ145 15,666m	7523867,6	616703,359	-22,38726363	-43,86633078
Rota 4 - RJ145 15,666m	7523844,186	616701,582	-22,38747523	-43,86634632
Rota 4 - RJ145 15,666m	7523829,983	616695,727	-22,38760392	-43,86640215
Rota 4 - RJ145 15,666m	7523816,771	616685,318	-22,38772397	-43,86650229
Rota 4 - RJ145 15,666m	7523812,379	616676,132	-22,38776426	-43,86659119
Rota 4 - RJ145 15,666m	7523808,447	616653,995	-22,38780128	-43,86680591
Rota 4 - RJ145 15,666m	7523804,327	616646,025	-22,38783903	-43,86688302
Rota 4 - RJ145 15,666m	7523796,296	616638,351	-22,3879121	-43,86695696
Rota 4 - RJ145 15,666m	7523785,455	616634,062	-22,38801031	-43,86699783
Rota 4 - RJ145 15,666m	7523726,637	616637,141	-22,38854136	-43,86696362
Rota 4 - RJ145 15,666m	7523712,877	616636,525	-22,38866569	-43,86696859
Rota 4 - RJ145 15,666m	7523699,123	616633,805	-22,38879011	-43,86699401
Rota 4 - RJ145 15,666m	7523682,09	616637,307	-22,38894372	-43,86695874
Rota 4 - RJ145 15,666m	7523672,789	616648,298	-22,38902698	-43,86685132
Rota 4 - RJ145 15,666m	7523661,406	616653,45	-22,38912945	-43,86680044
Rota 4 - RJ145 15,666m	7523643,276	616659,782	-22,38929277	-43,86673761
Rota 4 - RJ145 15,666m	7523626,278	616660,433	-22,38944626	-43,86673005
Rota 4 - RJ145 15,666m	7523602,878	616660,512	-22,38965761	-43,86672757
Rota 4 - RJ145 15,666m	7523579,217	616656,521	-22,3898716	-43,86676459
Rota 4 - RJ145 15,666m	7523558,772	616648,278	-22,39005683	-43,86684316
Rota 4 - RJ145 15,666m	7523548,647	616648,213	-22,39014829	-43,86684305
Rota 4 - RJ145 15,666m	7523529,607	616651,344	-22,39032005	-43,86681125
Rota 4 - RJ145 15,666m	7523509,01	616654,869	-22,39050584	-43,8667755
Rota 4 - RJ145 15,666m	7523491,415	616655,979	-22,39066469	-43,86676343
Rota 4 - RJ145 15,666m	7523475,122	616658,746	-22,39081167	-43,86673537
Rota 4 - RJ145 15,666m	7523435,999	616659,589	-22,39116499	-43,86672432
Rota 4 - RJ145 15,666m	7523419,669	616660,029	-22,39131246	-43,86671885
Rota 4 - RJ145 15,666m	7523392,883	616672,061	-22,39155357	-43,86660002
Rota 4 - RJ145 15,666m	7523379,632	616675,997	-22,391673	-43,86656082
Rota 4 - RJ145 15,666m	7523366,26	616680,829	-22,39179345	-43,86651291
Rota 4 - RJ145 15,666m	7523355,721	616682,436	-22,39188853	-43,86649653
Rota 4 - RJ145 15,666m	7523338,456	616678,11	-22,39204477	-43,86653728
Rota 4 - RJ145 15,666m	7523320,785	616662,049	-22,39220548	-43,86669199
Rota 4 - RJ145 15,666m	7523307,122	616649,554	-22,39232973	-43,86681235
Rota 4 - RJ145 15,666m	7523305,897	616635,887	-22,39234172	-43,86694501
Rota 4 - RJ145 15,666m	7523312,649	616620,801	-22,39228177	-43,86709204
Rota 4 - RJ145 15,666m	7523329,617	616596,803	-22,39213014	-43,86732637
Rota 4 - RJ145 15,666m	7523364,107	616553,525	-22,39182156	-43,86774926


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LOX
Rota 4 - RJ145 15,666m	7523389,094	616546,606	-22,39159634	-43,86781829
Rota 4 - RJ145 15,666m	7523429,843	616546,417	-22,39122829	-43,8678231
Rota 4 - RJ145 15,666m	7523526,994	616545,671	-22,39035084	-43,86783745
Rota 4 - RJ145 15,666m	7523603,08	616543,145	-22,38966378	-43,86786755
Rota 4 - RJ145 15,666m	7523657,797	616548,883	-22,38916916	-43,86781581
Rota 4 - RJ145 15,666m	7523711,084	616561,723	-22,38868698	-43,867695
Rota 4 - RJ145 15,666m	7523744,264	616576,157	-22,3883863	-43,86755723
Rota 4 - RJ145 15,666m	7523765,029	616581,054	-22,38819842	-43,86751118
Rota 4 - RJ145 15,666m	7523781,811	616579,336	-22,38804695	-43,8675291
Rota 4 - RJ145 15,666m	7523830,764	616576,201	-22,387605	-43,86756312
Rota 4 - RJ145 15,666m	7523835,528	616567,726	-22,38756254	-43,86764579
Rota 4 - RJ145 15,666m	7523831,715	616550,339	-22,38759817	-43,86781438
Rota 4 - RJ145 15,666m	7523820,93	616536,667	-22,38769651	-43,86794639
Rota 4 - RJ145 15,666m	7523812,737	616521,433	-22,38777155	-43,86809375
Rota 4 - RJ145 15,666m	7523818,643	616510,107	-22,38771897	-43,86820419
Rota 4 - RJ145 15,666m	7523844,382	616494,196	-22,38748757	-43,86836061
Rota 4 - RJ145 15,666m	7523878,612	616482,55	-22,38717918	-43,86847622
Rota 4 - RJ145 15,666m	7523902,062	616476,633	-22,38696778	-43,86853542
Rota 4 - RJ145 15,666m	7523971,625	616512,176	-22,38633704	-43,86819528
Rota 4 - RJ145 15,666m	7524044,272	616544,662	-22,38567866	-43,86788507
Rota 4 - RJ145 15,666m	7524087,525	616623,631	-22,38528261	-43,86712124
Rota 4 - RJ145 15,666m	7523775,827	616807,425	-22,38808547	-43,8653133
Rota 4 - Fazenda Prosperidade 231m	7520481,364	616683,944	-22,41785061	-43,86627129
Rota 4 - Fazenda Prosperidade 231m	7520493,613	616691,461	-22,41773946	-43,86619917
Rota 4 - Fazenda Prosperidade 231m	7520504,439	616705,826	-22,41764069	-43,86606041
Rota 4 - Fazenda Prosperidade 231m	7520512,152	616721,182	-22,41756998	-43,86591179
Rota 4 - Fazenda Prosperidade 231m	7520520,309	616743,122	-22,41749481	-43,86569925
Rota 4 - Fazenda Prosperidade 231m	7520527,08	616763,403	-22,41743226	-43,86550273
Rota 4 - Fazenda Prosperidade 231m	7520538,357	616796,487	-22,41732815	-43,86518215
Rota 4 - Fazenda Prosperidade 231m	7520555,602	616844,642	-22,4171691	-43,8647156
Rota 4 - Fazenda Prosperidade 231m	7520563,766	616862,391	-22,41709415	-43,86454377
Rota 4 - Fazenda Prosperidade 231m	7520566,457	616877,789	-22,41706879	-43,86439438
Rota 4 - Fazenda Prosperidade 231m	7520560,062	616891,53	-22,41712562	-43,86426042
Rota 4 - Ipiabas 390m	7523854,519	616363,783	-22,38740487	-43,86962801
Rota 4 - Ipiabas 390m	7523867,164	616333,446	-22,38729271	-43,86992358
Rota 4 - Ipiabas 390m	7523885,579	616288,359	-22,38712944	-43,87036285
Rota 4 - Ipiabas 390m	7523898,118	616259,918	-22,38701811	-43,87064
Rota 4 - Ipiabas 390m	7523917,111	616228,7	-22,38684868	-43,87094459
Rota 4 - Ipiabas 390m	7523934,4	616210,732	-22,38669373	-43,87112037
Rota 4 - Ipiabas 390m	7523948,936	616200,264	-22,38656315	-43,8712231
Rota 4 - Ipiabas 390m	7523960,661	616181,231	-22,38645853	-43,87140881
Rota 4 - Ipiabas 390m	7524040,098	616063,79	-22,38574898	-43,87255526
Rota 4 - Ipiabas 390m	7524057,142	616034,563	-22,38559702	-43,87284037

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LOX
Rota 4 - Ipiabas 1,618m	7523778,199	616806,102	-22,38806414	-43,86532632
Rota 4 - Ipiabas 1,618m	7523808,188	616866,655	-22,38778914	-43,86474039
Rota 4 - Ipiabas 1,618m	7523995,412	616757,386	-22,38610551	-43,8658154
Rota 4 - Ipiabas 1,618m	7524105,494	616694,82	-22,38511547	-43,86643113
Rota 4 - Ipiabas 1,618m	7524162,415	616662,608	-22,38460353	-43,86674815
Rota 4 - Ipiabas 1,618m	7524388,978	616522,942	-22,38256663	-43,86812121
Rota 4 - Ipiabas 1,618m	7524466,406	616480,293	-22,38187017	-43,86854109
Rota 4 - Ipiabas 1,618m	7524542,193	616435,914	-22,38118864	-43,86897764
Rota 4 - Ipiabas 1,618m	7524764,614	616302,082	-22,37918873	-43,87029367
Rota 4 - Ipiabas 1,618m	7524761,604	616316,217	-22,37921496	-43,87015617
Rota 4 - Ipiabas 1,618m	7524744,039	616340,225	-22,37937199	-43,86992172
Rota 4 - Ipiabas 1,618m	7524698,22	616405,338	-22,37978142	-43,869286
Rota 4 - Ipiabas 1,618m	7524686,26	616428,154	-22,37988791	-43,86906353
Rota 4 - Ipiabas 1,618m	7524668,021	616466,413	-22,38005004	-43,86869062
Rota 4 - Ipiabas 1,618m	7524641,677	616515,97	-22,38028463	-43,86820739
Rota 4 - Ipiabas 1,618m	7524634,792	616531,522	-22,38034576	-43,86805584
Rota 4 - Ipiabas 1,618m	7524613,916	616574,519	-22,38053139	-43,86763672
Rota 4 - Ipiabas 1,618m	7524600,722	616593,101	-22,38064931	-43,86745528
Rota 4 - Ipiabas 1,618m	7524564,895	616667,908	-22,38096782	-43,86672612
Rota 4 - Ipiabas 1,618m	7524556,149	616686,833	-22,38104553	-43,86654168
Rota 4 - Ipiabas 130m	7523718,311	616691,12	-22,3886129	-43,86643872
Rota 4 - Ipiabas 130m	7523777,966	616806,429	-22,38806622	-43,86532313
Rota 4 - Ipiabas 219m	7524556,319	616686,054	-22,38104404	-43,86654926
Rota 4 - Ipiabas 219m	7524533,956	616775,316	-22,38123996	-43,86568069
Rota 4 - Ipiabas 219m	7524521,877	616806,396	-22,38134695	-43,86537794
Rota 4 - Ipiabas 219m	7524497,517	616850,739	-22,38156396	-43,86494549
Rota 4 - Ipiabas 219m	7524473,546	616886,377	-22,38177804	-43,86459761
Rota 4 - Ipiabas 241m	7523995,674	616756,67	-22,38610319	-43,86582237
Rota 4 - Ipiabas 241m	7524009,513	616777,938	-22,38597674	-43,86561682
Rota 4 - Ipiabas 241m	7524030,614	616793,502	-22,38578509	-43,8654672
Rota 4 - Ipiabas 241m	7524053,007	616802,835	-22,38558219	-43,86537818
Rota 4 - Ipiabas 241m	7524070,505	616797,979	-22,38542447	-43,86542663
Rota 4 - Ipiabas 241m	7524071,17	616798,119	-22,38541846	-43,86542532
Rota 4 - Ipiabas 241m	7524094,196	616788,604	-22,38521113	-43,86551943
Rota 4 - Ipiabas 241m	7524124,378	616774,936	-22,38493945	-43,86565439
Rota 4 - Ipiabas 241m	7524161,882	616760,362	-22,38460169	-43,86579868
Rota 4 - Ipiabas 241m	7524188,206	616754,696	-22,3843643	-43,86585564
Rota 4 - Ipiabas 241m	7524207,703	616762,278	-22,38418769	-43,86578343
Rota 4 - Ipiabas 64,9m	7524388,966	616524,581	-22,38256663	-43,8681053
Rota 4 - Ipiabas 64,9m	7524343,86	616485,313	-22,38297671	-43,86848338
Rota 4 - Ipiabas 64,9m	7524342,469	616480,395	-22,3829896	-43,86853105
Rota 4 - Ipiabas 176m	7524463,779	616481,63	-22,3818938	-43,86852791
Rota 4 - Ipiabas 176m	7524599,908	616592,785	-22,38065668	-43,86745829

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - Ipiabas 7,728m	7524556,178	616686,574	-22,38104529	-43,8665442
Rota 4 - Ipiabas 7,728m	7524391,455	616524,682	-22,38254413	-43,8681045
Rota 4 - Ipiabas 7,728m	7524122,682	616680,613	-22,38496119	-43,86657037
Rota 4 - Ipiabas 7,728m	7524086,991	616623,609	-22,38528744	-43,86712142
Rota 4 - Ipiabas 7,728m	7524045,176	616547,206	-22,38567032	-43,86786042
Rota 4 - Ipiabas 7,728m	7524042,688	616480,914	-22,3856973	-43,8685041
Rota 4 - Ipiabas 7,728m	7524117,255	616473,676	-22,38502427	-43,86857985
Rota 4 - Ipiabas 7,728m	7524197,242	616464,839	-22,3843024	-43,86867152
Rota 4 - Ipiabas 7,728m	7524310,549	616447,821	-22,38328013	-43,86884509
Rota 4 - Ipiabas 7,728m	7524369,822	616442,187	-22,38274513	-43,86890413
Rota 4 - Ipiabas 7,728m	7524444,611	616416,711	-22,38207134	-43,86915702
Rota 4 - Ipiabas 7,728m	7524508,014	616378,055	-22,38150128	-43,86953709
Rota 4 - Ipiabas 7,728m	7524654,581	616297,953	-22,38018287	-43,87032575
Rota 4 - Ipiabas 7,728m	7524668,341	616312,136	-22,38005763	-43,87018901
Rota 4 - Ipiabas 7,728m	7524694,058	616346,068	-22,37982303	-43,86986133
Rota 4 - Ipiabas 7,728m	7524767,843	616300,456	-22,37915968	-43,8703097
Rota 4 - Ipiabas 7,728m	7524877,003	616237,556	-22,37817797	-43,87092854
Rota 4 - Ipiabas 7,728m	7524850,746	616191,973	-22,37841822	-43,87136934
Rota 4 - Ipiabas 7,728m	7524841,923	616174,486	-22,3784991	-43,87153852
Rota 4 - Ipiabas 7,728m	7524816,335	616188,006	-22,3787293	-43,87140536
Rota 4 - Ipiabas 7,728m	7524784,129	616207,731	-22,37901886	-43,87121144
Rota 4 - Ipiabas 7,728m	7524755,967	616227,733	-22,37927188	-43,87101513
Rota 4 - Ipiabas 7,728m	7524726,852	616249,849	-22,37953336	-43,87079821
Rota 4 - Ipiabas 7,728m	7524706,754	616260,078	-22,3797142	-43,8706974
Rota 4 - Ipiabas 7,728m	7524694,954	616264,894	-22,37982045	-43,87064976
Rota 4 - Ipiabas 7,728m	7524678,68	616246,065	-22,37996872	-43,87083145
Rota 4 - Ipiabas 7,728m	7524656,919	616207,438	-22,38016789	-43,87120502
Rota 4 - Ipiabas 7,728m	7524650,087	616190,945	-22,38023072	-43,8713647
Rota 4 - Ipiabas 7,728m	7524697,464	616156,319	-22,37980514	-43,87170444
Rota 4 - Ipiabas 7,728m	7524755,305	616128,1	-22,3792846	-43,87198272
Rota 4 - Ipiabas 7,728m	7524798,242	616103,827	-22,37889842	-43,87222159
Rota 4 - Ipiabas 7,728m	7524890,102	616045,782	-22,37807264	-43,87279202
Rota 4 - Ipiabas 7,728m	7524965,7	615999,728	-22,37739293	-43,87324479
Rota 4 - Ipiabas 7,728m	7525032,127	615958,478	-22,37679572	-43,87365024
Rota 4 - Ipiabas 7,728m	7525096,699	615876,273	-22,37621803	-43,8744533
Rota 4 - Ipiabas 7,728m	7525206,995	615957,136	-22,37521633	-43,87367598
Rota 4 - Ipiabas 7,728m	7525103,056	616018,592	-22,37615099	-43,87307157
Rota 4 - Ipiabas 7,728m	7524841,367	616174,136	-22,37850414	-43,87154189
Rota 4 - Ipiabas 7,728m	7524877,134	616237,389	-22,37817679	-43,87093017
Rota 4 - Ipiabas 7,728m	7524891,463	616293,662	-22,37804355	-43,8703847
Rota 4 - Ipiabas 7,728m	7524910,255	616334,881	-22,37787102	-43,86998575
Rota 4 - Ipiabas 7,728m	7524924,148	616372,088	-22,37774301	-43,86962541
Rota 4 - Ipiabas 7,728m	7524937,556	616421,497	-22,37761855	-43,86914653



## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**


MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA


CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - Ipiabas 7,728m	7524950,64	616471,121	-22,37749701	-43,86866553
Rota 4 - Ipiabas 7,728m	7524965,221	616514,963	-22,37736232	-43,86824081
Rota 4 - Ipiabas 7,728m	7524968,217	616530,08	-22,37733424	-43,86809421
Rota 4 - Ipiabas 7,728m	7524956,368	616587,263	-22,37743738	-43,86753798
Rota 4 - Ipiabas 7,728m	7524938,97	616584,781	-22,37759469	-43,86756081
Rota 4 - Ipiabas 7,728m	7524880,13	616565,951	-22,37812744	-43,86773939
Rota 4 - Ipiabas 7,728m	7524852,737	616560,578	-22,37837522	-43,86778958
Rota 4 - Ipiabas 7,728m	7524841,191	616576,855	-22,37847841	-43,86763065
Rota 4 - Ipiabas 7,728m	7524831,008	616605,263	-22,37856845	-43,867354
Rota 4 - Ipiabas 7,728m	7524822,232	616640,723	-22,37864531	-43,86700897
Rota 4 - Ipiabas 7,728m	7524806,531	616677,72	-22,3787846	-43,8666485
Rota 4 - Ipiabas 7,728m	7524800,676	616693,552	-22,37883642	-43,86649432
Rota 4 - Ipiabas 7,728m	7524781,947	616706,264	-22,37900472	-43,86636949
Rota 4 - Ipiabas 7,728m	7524758,057	616713,388	-22,37922002	-43,86629855
Rota 4 - Ipiabas 7,728m	7524713,17	616715,137	-22,37962533	-43,86627827
Rota 4 - Ipiabas 7,728m	7524662,993	616717,984	-22,38007836	-43,86624695
Rota 4 - Ipiabas 7,728m	7524630,129	616721,969	-22,38037492	-43,86620585
Rota 4 - Ipiabas 7,728m	7524611,303	616721,717	-22,38054499	-43,86620692
Rota 4 - Ipiabas 7,728m	7524598,314	616727,319	-22,38066192	-43,86615156
Rota 4 - Ipiabas 7,728m	7524598,867	616740,697	-22,38065602	-43,86602167
Rota 4 - Ipiabas 7,728m	7524613,306	616768,314	-22,38052373	-43,86575451
Rota 4 - Ipiabas 7,728m	7524633,351	616793,898	-22,38034093	-43,8655075
Rota 4 - Ipiabas 7,728m	7524657,945	616822,377	-22,38011684	-43,86523271
Rota 4 - Ipiabas 7,728m	7524665,883	616837,671	-22,3800441	-43,86508474
Rota 4 - Ipiabas 7,728m	7524667,724	616850,152	-22,38002662	-43,86496366
Rota 4 - Ipiabas 7,728m	7524662,035	616876,313	-22,38007623	-43,86470917
Rota 4 - Ipiabas 7,728m	7524654,336	616897,551	-22,38014432	-43,86450234
Rota 4 - Ipiabas 7,728m	7524646,214	616922,036	-22,38021601	-43,86426394
Rota 4 - Ipiabas 7,728m	7524641,782	616937,159	-22,38025501	-43,86411674
Rota 4 - Ipiabas 7,728m	7524642,762	616947,438	-22,38024546	-43,86401698
Rota 4 - Ipiabas 7,728m	7524700,367	616920,708	-22,37972697	-43,86428081
Rota 4 - Ipiabas 7,728m	7524745,007	616895,185	-22,3793255	-43,86453196
Rota 4 - Ipiabas 7,728m	7524799,696	616881,12	-22,3788325	-43,86467257
Rota 4 - Ipiabas 7,728m	7524866,271	616897,953	-22,37823001	-43,86451397
Rota 4 - Ipiabas 7,728m	7524919,966	616906,221	-22,37774446	-43,86443761
Rota 4 - Ipiabas 7,728m	7524950,631	616908,416	-22,37746734	-43,86441853
Rota 4 - Ipiabas 7,728m	7525018,787	616886,312	-22,37685323	-43,8646382
Rota 4 - Ipiabas 7,728m	7525037,491	616885,617	-22,37668433	-43,86464632
Rota 4 - Ipiabas 7,728m	7525060,421	616901,09	-22,37647617	-43,86449773
Rota 4 - Ipiabas 7,728m	7525071,176	616930,349	-22,37637703	-43,86421436
Rota 4 - Ipiabas 7,728m	7525071,67	616948,824	-22,37637131	-43,86403496
Rota 4 - Ipiabas 7,728m	7525063,912	616965,167	-22,37644027	-43,86387568
Rota 4 - Ipiabas 7,728m	7525059,218	616979,837	-22,37648167	-43,86373285


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LOX
Rota 4 - Ipiabas 7,728m	7525040,889	617049,986	-22,37664243	-43,86305023
Rota 4 - Ipiabas 7,728m	7525042,695	617066,059	-22,37662503	-43,86289427
Rota 4 - Ipiabas 7,728m	7525039,419	617077,974	-22,37665381	-43,86277831
Rota 4 - Ipiabas 7,728m	7525031,681	617091,142	-22,37672228	-43,86264986
Rota 4 - Ipiabas 7,728m	7525018,673	617106,47	-22,37683924	-43,86250004
Rota 4 - Ipiabas 7,728m	7525005,877	617125,737	-22,3769535	-43,86231197
Rota 4 - Ipiabas 7,728m	7524997,354	617144,432	-22,37702921	-43,86212978
Rota 4 - Ipiabas 7,728m	7524991,477	617161,869	-22,3770811	-43,86196001
Rota 4 - Ipiabas 7,728m	7524991,467	617162,217	-22,37708117	-43,86195662
Rota 4 - Ipiabas 7,728m	7524990,467	617182,325	-22,37708883	-43,86176127
Rota 4 - Ipiabas 7,728m	7524996,253	617194,295	-22,37703575	-43,86164544
Rota 4 - Ipiabas 7,728m	7525009,498	617211,201	-22,37691496	-43,86148222
Rota 4 - Ipiabas 7,728m	7525021,79	617219,163	-22,37680339	-43,8614058
Rota 4 - Ipiabas 7,728m	7525027,162	617220,596	-22,37675477	-43,86139228
Rota 4 - Ipiabas 7,728m	7525046,918	617218,116	-22,3765765	-43,86141781
Rota 4 - Ipiabas 7,728m	7525069,495	617207,331	-22,37637331	-43,86152422
Rota 4 - Ipiabas 7,728m	7525090,289	617202,149	-22,37618585	-43,86157607
Rota 4 - Ipiabas 7,728m	7525090,747	617201,812	-22,37618173	-43,86157938
Rota 4 - Ipiabas 7,728m	7525111,824	617203,132	-22,37599126	-43,86156811
Rota 4 - Ipiabas 7,728m	7525138,777	617210,408	-22,37574732	-43,86149943
Rota 4 - Ipiabas 7,728m	7525171,905	617229,993	-22,37544676	-43,86131165
Rota 4 - Ipiabas 7,728m	7525203,187	617252,022	-22,37516271	-43,86110001
Rota 4 - Ipiabas 7,728m	7525225,835	617270,821	-22,37495686	-43,86091911
Rota 4 - Ipiabas 7,728m	7525258,367	617288,444	-22,37466181	-43,86075034
Rota 4 - Ipiabas 7,728m	7525274,087	617293,983	-22,37451944	-43,86069771
Rota 4 - Ipiabas 7,728m	7525286,395	617287,001	-22,37440875	-43,86076642
Rota 4 - Ipiabas 7,728m	7525286,979	617286,243	-22,37440353	-43,86077382
Rota 4 - Ipiabas 7,728m	7525290,943	617273,032	-22,37436862	-43,86090242
Rota 4 - Ipiabas 7,728m	7525291,652	617263,576	-22,37436287	-43,8609943
Rota 4 - Ipiabas 7,728m	7525289,539	617255,484	-22,37438251	-43,86107274
Rota 4 - Ipiabas 7,728m	7525280,146	617247,232	-22,37446791	-43,86115218
Rota 4 - Ipiabas 7,728m	7525250,323	617218,539	-22,37473924	-43,86142865
Rota 4 - Ipiabas 7,728m	7525237,086	617206,935	-22,3748596	-43,86154037
Rota 4 - Ipiabas 7,728m	7525224,54	617194,766	-22,37497375	-43,86165763
Rota 4 - Ipiabas 7,728m	7525201,933	617177,488	-22,37517913	-43,86182378
Rota 4 - Ipiabas 7,728m	7525188,874	617164,078	-22,37529799	-43,86195305
Rota 4 - Ipiabas 7,728m	7525157,466	617136,738	-22,37558355	-43,86221626
Rota 4 - Ipiabas 7,728m	7525142,833	617121,739	-22,37571675	-43,86236086
Rota 4 - Ipiabas 7,728m	7525129,514	617109,481	-22,37583788	-43,86247893
Rota 4 - Ipiabas 7,728m	7525104,773	617076,322	-22,37606362	-43,86279915
Rota 4 - Ipiabas 7,728m	7525071,417	616949,378	-22,37637355	-43,86402957
Rota 4 - Ipiabas 7,728m	7525071,351	616930,383	-22,37637545	-43,86421404
Rota 4 - Ipiabas 7,728m	7525060,106	616901,384	-22,376479	-43,86449485

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - Ipiabas 7,728m	7525037,561	616885,859	-22,37668369	-43,86464398
Rota 4 - Ipiabas 7,728m	7525023,642	616877,805	-22,37680996	-43,86472118
Rota 4 - Ipiabas 7,728m	7525008,833	616838,077	-22,37694643	-43,86510592
Rota 4 - Ipiabas 7,728m	7524995,491	616797,161	-22,37706973	-43,86550232
Rota 4 - Ipiabas 7,728m	7524972,038	616730,521	-22,3772861	-43,86614781
Rota 4 - Ipiabas 7,728m	7524950,535	616656,768	-22,37748533	-43,86686252
Rota 4 - Ipiabas 7,728m	7524951	616608,298	-22,37748443	-43,86733329
Rota 4 - Ipiabas 7,728m	7524956,159	616587,838	-22,37743922	-43,86753238
Rota 4 - Ipiabas 7,728m	7524968,366	616530,689	-22,37733285	-43,86808831
Rota 4 - Ipiabas 7,728m	7524978,044	616525,977	-22,37724575	-43,86813477
Rota 4 - Ipiabas 7,728m	7524999,903	616521,409	-22,37704862	-43,86818073
Rota 4 - Ipiabas 7,728m	7525013,141	616519,183	-22,37692921	-43,86820332
Rota 4 - Ipiabas 7,728m	7525029,693	616500,31	-22,37678098	-43,86838782
Rota 4 - Ipiabas 7,728m	7525048,311	616478,8	-22,37661428	-43,86859808
Rota 4 - Ipiabas 7,728m	7525078,53	616443,696	-22,37634371	-43,86894122
Rota 4 - Ipiabas 7,728m	7525246,135	616317,454	-22,37483841	-43,87017949
Rota 4 - Ipiabas 7,728m	7525110,204	616269,746	-22,37606942	-43,87063292
Rota 4 - Ipiabas 7,728m	7525052,647	616250,436	-22,37659061	-43,87081626
Rota 4 - Ipiabas 7,728m	7525015,056	616227,353	-22,37693171	-43,8710377
Rota 4 - Ipiabas 7,728m	7524998,069	616206,233	-22,37708657	-43,87124157
Rota 4 - Ipiabas 7,728m	7524989,225	616173,593	-22,37716867	-43,87155793
Rota 4 - Ipiabas 7,728m	7525161,065	616071,747	-22,37562344	-43,87255956
Rota 4 - Ipiabas 7,728m	7525270,078	616017,532	-22,37464245	-43,87309402
Rota 4 - Ipiabas 7,728m	7525302,198	616053,863	-22,37434988	-43,87274351
Rota 4 - Ipiabas 7,728m	7525372,792	616115,166	-22,3737081	-43,87215329
Rota 4 - Ipiabas 7,728m	7525406,813	616149,426	-22,37339848	-43,87182304
Rota 4 - Ipiabas 7,728m	7525471,667	616209,053	-22,37280866	-43,87124869
Rota 4 - Ipiabas 7,728m	7525578,246	616160,843	-22,37184926	-43,87172465
Rota 4 - Ipiabas 7,728m	7525595,277	616164,048	-22,37169522	-43,87169476
Rota 4 - Ipiabas 7,728m	7525610,397	616165,84	-22,37155852	-43,87167846
Rota 4 - Ipiabas 7,728m	7525664,224	616126,767	-22,37107498	-43,87206183
Rota 4 - Ipiabas 269m	7525664,224	616126,767	-22,37107498	-43,87206183
Rota 4 - Ipiabas 269m	7525879,466	615965,21	-22,36914176	-43,87364644
Rota 4 - Ipiabas 477m	7524965,973	615999,625	-22,37739047	-43,87324581
Rota 4 - Ipiabas 477m	7524945,46	615927,255	-22,37758064	-43,87394717
Rota 4 - Ipiabas 477m	7524937,34	615890,229	-22,37765648	-43,87430619
Rota 4 - Ipiabas 477m	7524912,748	615827,226	-22,37788286	-43,87491628
Rota 4 - Ipiabas 477m	7524886,26	615785,229	-22,37812495	-43,87532223
Rota 4 - Ipiabas 477m	7524866,746	615765,059	-22,37830257	-43,87551671
Rota 4 - Ipiabas 477m	7524814,916	615725,157	-22,37877341	-43,87590048
Rota 4 - Ipiabas 477m	7524785,507	615704,228	-22,37904045	-43,87610162
Rota 4 - Ipiabas 477m	7524778,994	615698,318	-22,37909968	-43,87615855
Rota 4 - Ipiabas 477m	7524765,419	615681,209	-22,37922345	-43,87632372

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LOX
Rota 4 - Ipiabas 477m	7524704,62	615639,927	-22,3797754	-43,87672025
Rota 4 - Ipiabas 477m	7524695,537	615630,326	-22,37985808	-43,87681283
Rota 4 - Ipiabas 439m	7525128,96	617108,267	-22,37584297	-43,86249068
Rota 4 - Ipiabas 439m	7525148,173	617088,778	-22,37567076	-43,86268136
Rota 4 - Ipiabas 439m	7525172,886	617061,751	-22,37544938	-43,86294566
Rota 4 - Ipiabas 439m	7525189,138	617044,994	-22,37530374	-43,8631096
Rota 4 - Ipiabas 439m	7525201,165	617029,01	-22,37519619	-43,86326571
Rota 4 - Ipiabas 439m	7525211,601	617011,885	-22,3751031	-43,86343279
Rota 4 - Ipiabas 439m	7525240,469	616981,335	-22,37484444	-43,8637316
Rota 4 - Ipiabas 439m	7525250,816	616973,724	-22,3747515	-43,86380627
Rota 4 - Ipiabas 439m	7525260,728	616974,922	-22,37466189	-43,86379537
Rota 4 - Ipiabas 439m	7525281,969	616983,783	-22,37446943	-43,86371087
Rota 4 - Ipiabas 439m	7525310,464	616987,875	-22,37421177	-43,86367322
Rota 4 - Ipiabas 439m	7525336,246	616990,382	-22,37397873	-43,86365076
Rota 4 - Ipiabas 439m	7525364,033	616982,98	-22,37372825	-43,86372468
Rota 4 - Ipiabas 439m	7525383,093	616975,385	-22,37355661	-43,86379984
Rota 4 - Ipiabas 439m	7525404,742	616976,949	-22,37336097	-43,86378624
Rota 4 - Ipiabas 439m	7525421,034	616985,295	-22,37321324	-43,86370638
Rota 4 - Ipiabas 439m	7525441,629	617001,33	-22,37302613	-43,86355217
Rota 4 - Ipiabas 439m	7525457,182	617004,714	-22,37288541	-43,86352044
Rota 4 - Ipiabas 439m	7525476,136	616995,258	-22,37271486	-43,86361366
Rota 4 - Ipiabas 439m	7525492,018	616999,976	-22,37257109	-43,86356901
Rota 4 - Ipiabas 118m	7525359,271	616105,042	-22,3738309	-43,87225063
Rota 4 - Ipiabas 118m	7525320,359	616109,841	-22,37418205	-43,87220119
Rota 4 - Ipiabas 118m	7525266	616119,143	-22,37467242	-43,87210689
Rota 4 - Ipiabas 118m	7525243,037	616122,486	-22,3748796	-43,87207275
Rota 4 - Ipiabas 101m	7525472,122	616209,157	-22,37280454	-43,8712477
Rota 4 - Ipiabas 101m	7525410,204	616238,829	-22,3733618	-43,87095503
Rota 4 - Ipiabas 101m	7525380,744	616251,831	-22,37362701	-43,87082662
Rota 4 - Ipiabas 2,123m	7525664,339	616126,569	-22,37107396	-43,87206376
Rota 4 - Ipiabas 2,123m	7525736,73	616205,691	-22,37041474	-43,87130064
Rota 4 - Ipiabas 2,123m	7525769,462	616252,11	-22,37011594	-43,87085222
Rota 4 - Ipiabas 2,123m	7525809,254	616322,415	-22,36975176	-43,87017236
Rota 4 - Ipiabas 2,123m	7525834,963	616381,384	-22,36951555	-43,86960156
Rota 4 - Ipiabas 2,123m	7525860,69	616422,933	-22,36928035	-43,86919994
Rota 4 - Ipiabas 2,123m	7525881,084	616473,016	-22,36909275	-43,86871505
Rota 4 - Ipiabas 2,123m	7525871,898	616491,402	-22,36917447	-43,86853582
Rota 4 - Ipiabas 2,123m	7525846,97	616511,151	-22,36939829	-43,86834221
Rota 4 - Ipiabas 2,123m	7525827,349	616517,935	-22,36957505	-43,8682749
Rota 4 - Ipiabas 2,123m	7525851,628	616566,665	-22,36935245	-43,86780344
Rota 4 - Ipiabas 2,123m	7525893,802	616632,036	-22,36896707	-43,86717168
Rota 4 - Ipiabas 2,123m	7525933,167	616698,261	-22,36860701	-43,86653141
Rota 4 - Ipiabas 2,123m	7525968,771	616739,984	-22,36828258	-43,86612883

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**


MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA


CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LOX
Rota 4 - Ipiabas 2,123m	7526027,093	616779,927	-22,36775308	-43,8657452
Rota 4 - Ipiabas 2,123m	7526127,708	616822,973	-22,36684135	-43,86533454
Rota 4 - Ipiabas 2,123m	7526146,93	616840,408	-22,36666655	-43,86516663
Rota 4 - Ipiabas 2,123m	7526188,236	616891,171	-22,36628999	-43,86467668
Rota 4 - Ipiabas 2,123m	7526227,609	616862,308	-22,36593634	-43,86495985
Rota 4 - Ipiabas 2,123m	7526287,962	616822,326	-22,36539392	-43,86535254
Rota 4 - Ipiabas 2,123m	7526306,842	616809,767	-22,36522425	-43,86547589
Rota 4 - Ipiabas 2,123m	7526328,542	616826,563	-22,3650271	-43,86531436
Rota 4 - Ipiabas 2,123m	7526347,27	616853,936	-22,36485608	-43,86504991
Rota 4 - Ipiabas 2,123m	7526350,47	616864,039	-22,36482649	-43,86495204
Rota 4 - Ipiabas 2,123m	7526349,514	616864,565	-22,36483508	-43,86494687
Rota 4 - Ipiabas 2,123m	7526332,294	616876,451	-22,36498982	-43,86483018
Rota 4 - Ipiabas 2,123m	7526300,993	616897,141	-22,36527113	-43,86462696
Rota 4 - Ipiabas 2,123m	7526267,353	616920,417	-22,36557339	-43,86439846
Rota 4 - Ipiabas 2,123m	7526232,843	616945,381	-22,3658834	-43,8641535
Rota 4 - Ipiabas 2,123m	7526225,504	616948,677	-22,36594947	-43,86412096
Rota 4 - Ipiabas 2,123m	7526264,923	616995,701	-22,36559021	-43,86366719
Rota 4 - Ipiabas 2,123m	7526279,222	617041,104	-22,36545796	-43,86322732
Rota 4 - Ipiabas 2,123m	7526289,218	617063,536	-22,36536614	-43,86301021
Rota 4 - Ipiabas 2,123m	7526303,946	617101,243	-22,36523054	-43,86264512
Rota 4 - Ipiabas 2,123m	7526324,469	617129,811	-22,36504322	-43,8623692
Rota 4 - Ipiabas 2,123m	7526342,863	617145,425	-22,36487601	-43,86221892
Rota 4 - Ipiabas 2,123m	7526375,97	617180,611	-22,36457458	-43,86187965
Rota 4 - Ipiabas 2,123m	7526405,565	617214,413	-22,36430495	-43,86155357
Rota 4 - Ipiabas 2,123m	7526423,826	617241,185	-22,36413819	-43,86129493
Rota 4 - Ipiabas 2,123m	7526429,743	617263,833	-22,3640832	-43,86107543
Rota 4 - Ipiabas 2,123m	7526429,367	617296,008	-22,36408439	-43,86076295
Rota 4 - Ipiabas 2,123m	7526431,291	617328,904	-22,36406476	-43,86044364
Rota 4 - Ipiabas 2,123m	7526436,656	617357,933	-22,36401432	-43,86016214
Rota 4 - Ipiabas 2,123m	7526450,383	617377,066	-22,36388902	-43,85997734
Rota 4 - Ipiabas 2,123m	7526476,67	617400,358	-22,36365	-43,85975308
Rota 4 - Ipiabas 2,123m	7526504,517	617421,437	-22,36339703	-43,85955044
Rota 4 - Ipiabas 2,123m	7526541,863	617452,941	-22,36305756	-43,85924724
Rota 4 - Ipiabas 2,123m	7526569,632	617468,761	-22,36280565	-43,85909566
Rota 4 - Ipiabas 2,123m	7526627,848	617493,635	-22,36227812	-43,8588584
Rota 4 - Ipiabas 2,123m	7526646,033	617504,138	-22,36211314	-43,85875775
Rota 4 - Ipiabas 254m	7526646,922	617504,204	-22,36210511	-43,85875717
Rota 4 - Ipiabas 254m	7526717,818	617563,9	-22,36146067	-43,85818269
Rota 4 - Ipiabas 254m	7526749,21	617591,976	-22,3611752	-43,85791236
Rota 4 - Ipiabas 254m	7526768,295	617624,458	-22,36100059	-43,85759834
Rota 4 - Ipiabas 254m	7526814,263	617691,43	-22,3605808	-43,85695138
Rota 4 - Ipiabas 156m	7526129,602	616823,316	-22,36682422	-43,86533134
Rota 4 - Ipiabas 156m	7526152,873	616802,788	-22,36661543	-43,86553239


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LOX
Rota 4 - Ipiabas 156m	7526182,162	616777,335	-22,36635261	-43,86578172
Rota 4 - Ipiabas 156m	7526223,367	616749,061	-22,36598235	-43,8660593
Rota 4 - Ipiabas 156m	7526250,217	616724,758	-22,36574149	-43,86629728
Rota 4 - Ipiabas 418m	7526350,776	616862,379	-22,36482384	-43,86496819
Rota 4 - Ipiabas 418m	7526368,036	616848,591	-22,36466887	-43,86510335
Rota 4 - Ipiabas 418m	7526393,283	616834,105	-22,36444182	-43,86524587
Rota 4 - Ipiabas 418m	7526424,917	616812,964	-22,36415753	-43,86545348
Rota 4 - Ipiabas 418m	7526435,375	616799,514	-22,36406398	-43,86558486
Rota 4 - Ipiabas 418m	7526436,548	616782,7	-22,36405453	-43,86574823
Rota 4 - Ipiabas 418m	7526441,608	616763,239	-22,36401015	-43,86593759
Rota 4 - Ipiabas 418m	7526473,845	616742,547	-22,36372039	-43,86614088
Rota 4 - Ipiabas 418m	7526499,7	616731,999	-22,36348757	-43,86624521
Rota 4 - Ipiabas 418m	7526512,171	616724,529	-22,36337543	-43,86631866
Rota 4 - Ipiabas 418m	7526521,967	616715,468	-22,36328757	-43,86640737
Rota 4 - Ipiabas 418m	7526555,368	616689,556	-22,36298765	-43,86666144
Rota 4 - Ipiabas 418m	7526569,027	616682,788	-22,36286473	-43,86672816
Rota 4 - Ipiabas 418m	7526574,042	616662,541	-22,3628208	-43,86692515
Rota 4 - Ipiabas 418m	7526624,726	616638,737	-22,36236463	-43,86716001
Rota 4 - Ipiabas 418m	7526668,827	616623,823	-22,3619673	-43,86730806
Rota 4 - Ipiabas 385m	7526646,595	617503,982	-22,36210809	-43,8587593
Rota 4 - Ipiabas 385m	7526660,628	617500,015	-22,36198161	-43,85879886
Rota 4 - Ipiabas 385m	7526686,77	617489,507	-22,3617462	-43,85890282
Rota 4 - Ipiabas 385m	7526698,926	617476,871	-22,36163726	-43,85902643
Rota 4 - Ipiabas 385m	7526703,04	617462,811	-22,36160107	-43,85916326
Rota 4 - Ipiabas 385m	7526704,613	617447,979	-22,36158788	-43,85930741
Rota 4 - Ipiabas 385m	7526707,631	617428,391	-22,36156196	-43,85949784
Rota 4 - Ipiabas 385m	7526707,528	617411,723	-22,36156403	-43,8596597
Rota 4 - Ipiabas 385m	7526711,65	617377,785	-22,36152912	-43,85998957
Rota 4 - Ipiabas 385m	7526715,153	617358,327	-22,3614988	-43,86017878
Rota 4 - Ipiabas 385m	7526721,082	617316,773	-22,3614481	-43,86058274
Rota 4 - Ipiabas 385m	7526741,558	617292,758	-22,36126479	-43,86081745
Rota 4 - Ipiabas 385m	7526752,559	617275,326	-22,36116661	-43,86098753
Rota 4 - Ipiabas 385m	7526774,314	617248,232	-22,36097197	-43,86125224
Rota 4 - Ipiabas 385m	7526826,803	617193,454	-22,3605016	-43,86178803
Rota 4 - Ipiabas 1,013m	7525827,599	616518,243	-22,36957277	-43,86827192
Rota 4 - Ipiabas 1,013m	7525788,325	616437,698	-22,36993298	-43,86905127
Rota 4 - Ipiabas 1,013m	7525769,308	616395,98	-22,37010758	-43,86945502
Rota 4 - Ipiabas 1,013m	7525725,023	616307,918	-22,37051355	-43,87030701
Rota 4 - Ipiabas 1,013m	7525687,03	616259,123	-22,37086003	-43,87077811
Rota 4 - Ipiabas 1,013m	7525634,6	616194,133	-22,371338	-43,87140545
Rota 4 - Ipiabas 1,013m	7525605,392	616165,653	-22,37160374	-43,8716799
Rota 4 - Ipiabas 1,013m	7525578,942	616160,845	-22,37184298	-43,87172467
Rota 4 - Ipiabas 1,013m	7525575,312	616144,97	-22,37187684	-43,87187858

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - Ipiabas 1,013m	7525465,115	616048,49	-22,37287871	-43,87280754
Rota 4 - Ipiabas 1,013m	7525451,337	616037,393	-22,37300391	-43,87291431
Rota 4 - Ipiabas 1,013m	7525415,762	616034,046	-22,37332546	-43,87294423
Rota 4 - Ipiabas 1,013m	7525386,32	616029,372	-22,37359171	-43,87298748
Rota 4 - Ipiabas 1,013m	7525363,978	616025,525	-22,37379377	-43,87302322
Rota 4 - Ipiabas 1,013m	7525318,168	616018,8	-22,374208	-43,8730852
Rota 4 - Ipiabas 1,013m	7525288,335	616014,875	-22,37447773	-43,87312115
Rota 4 - Ipiabas 1,013m	7525270,533	616013,273	-22,37463863	-43,87313541
Rota 4 - Ipiabas 1,013m	7525246,92	615999,344	-22,37485286	-43,87326897
Rota 4 - Ipiabas 1,013m	7525207,484	615957,953	-22,37521185	-43,87366808
Rota 4 - Ipiabas 1,013m	7525236,505	615926,609	-22,37495185	-43,87397461
Rota 4 - Ipiabas 1,013m	7525264,896	615890,241	-22,37469786	-43,87432986
Rota 4 - Ipiabas 1,013m	7525283,869	615868,166	-22,37452799	-43,87454563
Rota 4 - Ipiabas 1,218m	7525283,68	615868,39	-22,37452968	-43,87454344
Rota 4 - Ipiabas 1,218m	7525302,635	615843,651	-22,37436014	-43,87478507
Rota 4 - Ipiabas 1,218m	7525319,036	615818,43	-22,37421371	-43,87503121
Rota 4 - Ipiabas 1,218m	7525333,888	615792,181	-22,37408133	-43,87528721
Rota 4 - Ipiabas 1,218m	7525351,83	615763,812	-22,37392118	-43,87556402
Rota 4 - Ipiabas 1,218m	7525363,82	615742,867	-22,3738143	-43,87576831
Rota 4 - Ipiabas 1,218m	7525389,002	615705,797	-22,37358934	-43,87613015
Rota 4 - Ipiabas 1,218m	7525421,248	615670,403	-22,37330047	-43,87647622
Rota 4 - Ipiabas 1,218m	7525436,408	615636,593	-22,37316582	-43,87680568
Rota 4 - Ipiabas 1,218m	7525452,946	615592,009	-22,37301944	-43,87723987
Rota 4 - Ipiabas 1,218m	7525457,006	615549,307	-22,37298565	-43,87765487
Rota 4 - Ipiabas 1,218m	7525462,196	615478,526	-22,37294354	-43,87834265
Rota 4 - Ipiabas 1,218m	7525463,776	615453,019	-22,37293098	-43,87859047
Rota 4 - Ipiabas 1,218m	7525471,043	615436,062	-22,37286648	-43,87875568
Rota 4 - Ipiabas 1,218m	7525473,635	615353,251	-22,37284865	-43,8795601
Rota 4 - Ipiabas 1,218m	7525474,22	615322,01	-22,37284546	-43,87986355
Rota 4 - Ipiabas 1,218m	7525474,807	615252,769	-22,37284481	-43,88053604
Rota 4 - Ipiabas 1,218m	7525493,477	615179,136	-22,37268112	-43,88125249
Rota 4 - Ipiabas 1,218m	7525496,834	615153,694	-22,37265251	-43,88149982
Rota 4 - Ipiabas 1,218m	7525492,448	615066,427	-22,37269798	-43,88234701
Rota 4 - Ipiabas 1,218m	7525487,276	615024,194	-22,37274753	-43,88275679
Rota 4 - Ipiabas 1,218m	7525474,653	614987,444	-22,37286401	-43,88311279
Rota 4 - Ipiabas 1,218m	7525454,843	614955,379	-22,37304509	-43,88342277
Rota 4 - Ipiabas 1,218m	7525454,638	614926,705	-22,37304886	-43,88370122
Rota 4 - Ipiabas 1,218m	7525448,191	614899,906	-22,37310889	-43,88396102
Rota 4 - Ipiabas 1,218m	7525431,852	614870,665	-22,37325843	-43,88424383
Rota 4 - Ipiabas 1,218m	7525417,828	614848,096	-22,37338661	-43,884462
Rota 4 - Ipiabas 1,218m	7525407,137	614821,892	-22,37348493	-43,88471573
Rota 4 - Ipiabas 1,218m	7525397,377	614792,636	-22,37357504	-43,88499915
Rota 4 - Ipiabas 1,218m	7525392,294	614774,368	-22,37362218	-43,8851762

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LOX
Rota 4 - Ipiabas 1,218m	7525392,382	614773,356	-22,37362145	-43,88518602
Rota 4 - Ipiabas 1,218m	7525393,879	614756,094	-22,37360908	-43,88535378
Rota 4 - Ipiabas 1,218m	7525395,167	614726,877	-22,37359941	-43,88563762
Rota 4 - Ipiabas 240m	7525770,673	616400,036	-22,37009498	-43,86941574
Rota 4 - Ipiabas 240m	7525753,763	616412,986	-22,37024683	-43,86928874
Rota 4 - Ipiabas 240m	7525733,222	616437,733	-22,37043069	-43,86904691
Rota 4 - Ipiabas 240m	7525719,074	616460	-22,37055697	-43,86882963
Rota 4 - Ipiabas 240m	7525702,268	616488,157	-22,37070685	-43,86855496
Rota 4 - Ipiabas 240m	7525668,002	616541,825	-22,37101271	-43,86803126
Rota 4 - Ipiabas 240m	7525649,595	616557,124	-22,37117793	-43,86788134
Rota 4 - Ipiabas 240m	7525638,557	616569,298	-22,37127681	-43,8677623
Rota 4 - Ipiabas 240m	7525617,392	616578,389	-22,37146736	-43,86767247
Rota 4 - Ipiabas 116m	7525451,981	616038,08	-22,37299805	-43,87290769
Rota 4 - Ipiabas 116m	7525460,583	616029,547	-22,37292092	-43,87299118
Rota 4 - Ipiabas 116m	7525463,67	616023,577	-22,37289345	-43,87304938
Rota 4 - Ipiabas 116m	7525484,732	616019,773	-22,37270346	-43,87308786
Rota 4 - Ipiabas 116m	7525514,355	616026,301	-22,37243545	-43,87302661
Rota 4 - Ipiabas 116m	7525549,065	616027,313	-22,37212187	-43,87301931
Rota 4 - Ipiabas 116m	7525559,841	616028,78	-22,37202444	-43,87300585
Rota 4 - Ipiabas 1,967m	7525284,37	615867,856	-22,37452348	-43,87454867
Rota 4 - Ipiabas 1,967m	7525250,635	615843,617	-22,37482983	-43,87478164
Rota 4 - Ipiabas 1,967m	7525201,073	615798,593	-22,37528053	-43,8752153
Rota 4 - Ipiabas 1,967m	7525172,417	615783,478	-22,37554038	-43,87536001
Rota 4 - Ipiabas 1,967m	7525135,431	615752,969	-22,37587651	-43,87565363
Rota 4 - Ipiabas 1,967m	7525095,118	615721,931	-22,37624273	-43,87595214
Rota 4 - Ipiabas 1,967m	7525060,443	615779,071	-22,37655207	-43,87539469
Rota 4 - Ipiabas 1,967m	7525042,746	615775,796	-22,37671214	-43,87542521
Rota 4 - Ipiabas 1,967m	7525026,387	615762,54	-22,3768608	-43,87555277
Rota 4 - Ipiabas 1,967m	7524996,153	615739,899	-22,37713541	-43,87577046
Rota 4 - Ipiabas 1,967m	7524972,435	615719,123	-22,37735104	-43,87597052
Rota 4 - Ipiabas 1,967m	7524971,876	615707,091	-22,37735691	-43,87608733
Rota 4 - Ipiabas 1,967m	7524989,94	615687,817	-22,37719504	-43,87627583
Rota 4 - Ipiabas 1,967m	7525005,242	615669,964	-22,37705803	-43,87645032
Rota 4 - Ipiabas 1,967m	7525011,863	615661,411	-22,37699881	-43,87653387
Rota 4 - Ipiabas 1,967m	7524995,512	615651,369	-22,37714718	-43,87663022
Rota 4 - Ipiabas 1,967m	7524962,773	615628,608	-22,37744442	-43,87684889
Rota 4 - Ipiabas 1,967m	7524931,139	615616,365	-22,37773098	-43,87696551
Rota 4 - Ipiabas 1,967m	7524882,928	615590,639	-22,37816817	-43,87721186
Rota 4 - Ipiabas 1,967m	7524869,162	615583,552	-22,37829299	-43,8772797
Rota 4 - Ipiabas 1,967m	7524848,86	615556,805	-22,37847816	-43,87753799
Rota 4 - Ipiabas 1,967m	7524846,28	615547,445	-22,3785021	-43,87762871
Rota 4 - Ipiabas 1,967m	7524826,075	615508,05	-22,37868725	-43,87800986
Rota 4 - Ipiabas 1,967m	7524818,262	615491,373	-22,37875895	-43,87817126




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LOX
Rota 4 - Ipiabas 1,967m	7524802,658	615454,004	-22,3789024	-43,87853306
Rota 4 - Ipiabas 1,967m	7524796,865	615433,338	-22,37895612	-43,87873335
Rota 4 - Ipiabas 1,967m	7524795,599	615350,251	-22,37897315	-43,87954021
Rota 4 - Ipiabas 1,967m	7524806,551	615303,226	-22,37887738	-43,87999772
Rota 4 - Ipiabas 1,967m	7524812,769	615268,882	-22,37882353	-43,88033171
Rota 4 - Ipiabas 1,967m	7524824,194	615240,055	-22,37872227	-43,88061252
Rota 4 - Ipiabas 1,967m	7524826,862	615234,848	-22,37869853	-43,88066328
Rota 4 - Ipiabas 1,967m	7524830,997	615208,728	-22,37866293	-43,88091725
Rota 4 - Ipiabas 1,967m	7524833,398	615151,41	-22,3786451	-43,88147411
Rota 4 - Ipiabas 1,967m	7524830,453	615111,6	-22,37867437	-43,88186053
Rota 4 - Ipiabas 1,967m	7524822,206	615085,391	-22,37875061	-43,88211448
Rota 4 - Ipiabas 1,967m	7524809,262	615069,309	-22,37886861	-43,88226974
Rota 4 - Ipiabas 1,967m	7524772,443	615045,04	-22,3792028	-43,88250279
Rota 4 - Ipiabas 1,967m	7524748,278	615028,858	-22,37942215	-43,88265821
Rota 4 - Ipiabas 1,967m	7524725,985	615026,694	-22,37962367	-43,88267762
Rota 4 - Ipiabas 1,967m	7524682,146	615021,717	-22,38001997	-43,88272279
Rota 4 - Ipiabas 1,967m	7524652,789	615013,598	-22,38028568	-43,88279953
Rota 4 - Ipiabas 1,967m	7524634,049	615000,951	-22,3804558	-43,882921
Rota 4 - Ipiabas 1,967m	7524613,017	614979,219	-22,38064722	-43,88313056
Rota 4 - Ipiabas 1,967m	7524598,923	614964,831	-22,38077549	-43,88326929
Rota 4 - Ipiabas 1,967m	7524572,98	614927,127	-22,38101234	-43,8836336
Rota 4 - Ipiabas 1,967m	7524538,223	614898,765	-22,38132819	-43,88390656
Rota 4 - Ipiabas 1,967m	7524505,593	614857,628	-22,38162566	-43,88430374
Rota 4 - Ipiabas 1,967m	7524471,897	614818,037	-22,38193268	-43,88468584
Rota 4 - Ipiabas 1,967m	7524449,168	614803,244	-22,38213897	-43,88482788
Rota 4 - Ipiabas 1,967m	7524408,747	614750,346	-22,38250761	-43,88533873
Rota 4 - Ipiabas 1,967m	7524408,112	614749,698	-22,38251339	-43,88534498
Rota 4 - Ipiabas 1,967m	7524393,54	614734,174	-22,38264604	-43,8854947
Rota 4 - Ipiabas 1,967m	7524392,922	614732,897	-22,38265171	-43,88550707
Rota 4 - Ipiabas 1,967m	7524380,024	614705,581	-22,38277004	-43,88577144
Rota 4 - Ipiabas 1,967m	7524361,426	614681,515	-22,38293964	-43,88600384
Rota 4 - Ipiabas 1,967m	7524339,224	614663,954	-22,38314134	-43,88617281
Rota 4 - Ipiabas 1,967m	7524323,774	614655,87	-22,38328144	-43,88625021
Rota 4 - Ipiabas 1,967m	7524305,979	614655,737	-22,38344218	-43,88625023
Rota 4 - Ipiabas 1,967m	7524293,4	614665,529	-22,38355514	-43,88615421
Rota 4 - Ipiabas 1,967m	7524269,7	614689,291	-22,38376762	-43,88592172
Rota 4 - Ipiabas 1,967m	7524257,394	614703,939	-22,3838778	-43,88577856
Rota 4 - Ipiabas 1,967m	7524235,548	614715,075	-22,38407437	-43,88566884
Rota 4 - Ipiabas 243m	7524235,548	614715,075	-22,38407437	-43,88566884
Rota 4 - Ipiabas 243m	7524203,402	614740,145	-22,38436305	-43,88542304
Rota 4 - Ipiabas 243m	7524177,801	614751,077	-22,38459355	-43,88531502
Rota 4 - Ipiabas 243m	7524129,806	614757,833	-22,38502661	-43,88524594
Rota 4 - Ipiabas 243m	7524102,974	614763,382	-22,3852686	-43,88519011

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LOX
Rota 4 - Ipiabas 243m	7524088,62	614776,038	-22,38539741	-43,88506616
Rota 4 - Ipiabas 243m	7524083,403	614779,185	-22,38544432	-43,88503522
Rota 4 - Ipiabas 243m	7524069,938	614789,04	-22,38556528	-43,88493853
Rota 4 - Ipiabas 243m	7524031,661	614811,633	-22,3859095	-43,88471634
Rota 4 - Ipiabas 243m	7524023,018	614820,399	-22,38598698	-43,88463058
Rota 4 - Ipiabas 81,2m	7524971,806	615715,108	-22,37735699	-43,87600946
Rota 4 - Ipiabas 81,2m	7524954,358	615737,722	-22,37751307	-43,87578857
Rota 4 - Ipiabas 81,2m	7524927,145	615763,94	-22,3777571	-43,87553196
Rota 4 - Ipiabas 81,2m	7524916,607	615774,333	-22,37785158	-43,87543026
Rota 4 - Ipiabas 281m	7524828,855	615231,605	-22,37868074	-43,88069492
Rota 4 - Ipiabas 281m	7524837,232	615249,539	-22,37860387	-43,88052135
Rota 4 - Ipiabas 281m	7524840,973	615273,918	-22,37856845	-43,88028485
Rota 4 - Ipiabas 281m	7524848,621	615298,321	-22,37849773	-43,8800484
Rota 4 - Ipiabas 281m	7524858,791	615331,872	-22,37840361	-43,87972328
Rota 4 - Ipiabas 281m	7524868,32	615358,103	-22,37831577	-43,87946921
Rota 4 - Ipiabas 281m	7524874,696	615382,467	-22,37825654	-43,87923304
Rota 4 - Ipiabas 281m	7524884,329	615397,563	-22,37816851	-43,87908713
Rota 4 - Ipiabas 281m	7524890,722	615408,018	-22,37811007	-43,87898606
Rota 4 - Ipiabas 281m	7524900,94	615399,226	-22,37801837	-43,87907218
Rota 4 - Ipiabas 281m	7524914,199	615394,339	-22,37789894	-43,8791206
Rota 4 - Ipiabas 281m	7524930,565	615409,077	-22,37775013	-43,87897866
Rota 4 - Ipiabas 281m	7524944,811	615426,859	-22,37762025	-43,87880698
Rota 4 - Ipiabas 281m	7524956,612	615443,432	-22,37751254	-43,87864688
Rota 4 - Ipiabas 309m	7524242,421	614712,806	-22,38401245	-43,88569137
Rota 4 - Ipiabas 309m	7524253,034	614727,76	-22,38391558	-43,88554689
Rota 4 - Ipiabas 309m	7524272,174	614749,312	-22,38374126	-43,88533894
Rota 4 - Ipiabas 309m	7524288,744	614776,001	-22,38358981	-43,88508093
Rota 4 - Ipiabas 309m	7524306,01	614794,986	-22,38343258	-43,88489777
Rota 4 - Ipiabas 309m	7524324,481	614812,27	-22,38326458	-43,88473123
Rota 4 - Ipiabas 309m	7524339,762	614825,203	-22,38312569	-43,88460672
Rota 4 - Ipiabas 309m	7524375,482	614851,245	-22,38280132	-43,88435637
Rota 4 - Ipiabas 309m	7524399,539	614872,473	-22,3825826	-43,88415192
Rota 4 - Ipiabas 309m	7524418,826	614896,533	-22,38240678	-43,88391964
Rota 4 - Ipiabas 309m	7524458,73	614930,781	-22,38204406	-43,88358988
Rota 4 - Ipiabas 421m	7524747,591	615029,13	-22,37942834	-43,88265551
Rota 4 - Ipiabas 421m	7524791,237	614987,079	-22,37903693	-43,88306707
Rota 4 - Ipiabas 421m	7524839,681	614941,456	-22,37860243	-43,88351366
Rota 4 - Ipiabas 421m	7524953,59	614841,44	-22,37758026	-43,88449322
Rota 4 - Ipiabas 421m	7525063,667	614752,028	-22,37659198	-43,88536952
Rota 4 - Ipiabas 134m	7525282,837	615867,556	-22,37453735	-43,87455148
Rota 4 - Ipiabas 134m	7525308,946	615893,165	-22,37429979	-43,87430467
Rota 4 - Ipiabas 134m	7525344,859	615922,941	-22,3739734	-43,8740181
Rota 4 - Ipiabas 134m	7525385,406	615953,409	-22,3736051	-43,87372515

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - Ipiabas 4,530m	7525385,406	615953,409	-22,3736051	-43,87372515
Rota 4 - Ipiabas 4,530m	7525419,579	615937,551	-22,37329751	-43,87388164
Rota 4 - Ipiabas 4,530m	7525456,24	615914,724	-22,37296792	-43,874106
Rota 4 - Ipiabas 4,530m	7525504,625	615888,135	-22,37253268	-43,87436773
Rota 4 - Ipiabas 4,530m	7525564,469	615856,394	-22,37199428	-43,87468034
Rota 4 - Ipiabas 4,530m	7525596,716	615843,334	-22,37170391	-43,87480951
Rota 4 - Ipiabas 4,530m	7525670,231	615827,581	-22,37104095	-43,87496783
Rota 4 - Ipiabas 4,530m	7525751,451	615820,672	-22,3703078	-43,87504083
Rota 4 - Ipiabas 4,530m	7525795,047	615809,599	-22,36991478	-43,87515152
Rota 4 - Ipiabas 4,530m	7525829,861	615786,348	-22,36960189	-43,87537985
Rota 4 - Ipiabas 4,530m	7525893,655	615723,457	-22,36902992	-43,87599524
Rota 4 - Ipiabas 4,530m	7525933,161	615677,176	-22,3686762	-43,87644755
Rota 4 - Ipiabas 4,530m	7525976,635	615644,14	-22,36828575	-43,87677153
Rota 4 - Ipiabas 4,530m	7526001,072	615616,95	-22,36806686	-43,87703736
Rota 4 - Ipiabas 4,530m	7526047,421	615586,433	-22,36765028	-43,87733707
Rota 4 - Ipiabas 4,530m	7526125,305	615562,054	-22,36694843	-43,87757947
Rota 4 - Ipiabas 4,530m	7526269,584	615529,665	-22,36564742	-43,87790445
Rota 4 - Ipiabas 4,530m	7526329,34	615518,988	-22,3651084	-43,87801246
Rota 4 - Ipiabas 4,530m	7526478,679	615484,358	-22,36376185	-43,87835956
Rota 4 - Ipiabas 4,530m	7526536,605	615472,895	-22,3632394	-43,87847507
Rota 4 - Ipiabas 4,530m	7526585,635	615444,825	-22,36279843	-43,8787512
Rota 4 - Ipiabas 4,530m	7526597,336	615402,803	-22,36269557	-43,87916013
Rota 4 - Ipiabas 4,530m	7526624,952	615350,957	-22,36244961	-43,8796656
Rota 4 - Ipiabas 4,530m	7526636,144	615232,038	-22,36235651	-43,88082122
Rota 4 - Ipiabas 4,530m	7526656,397	615146,019	-22,36217935	-43,88165801
Rota 4 - Ipiabas 4,530m	7526684,215	615087,228	-22,36193203	-43,88223094
Rota 4 - Ipiabas 4,530m	7526697,99	615058,262	-22,36180954	-43,88251321
Rota 4 - Ipiabas 4,530m	7526739,562	614962,805	-22,36144045	-43,88344318
Rota 4 - Ipiabas 4,530m	7526760,775	614891,664	-22,36125361	-43,88413555
Rota 4 - Ipiabas 4,530m	7526786,477	614869,229	-22,36102295	-43,88435527
Rota 4 - Ipiabas 4,530m	7526847,517	614834,744	-22,36047392	-43,88469454
Rota 4 - Ipiabas 4,530m	7526909,004	614799,127	-22,35992092	-43,88504484
Rota 4 - Ipiabas 4,530m	7526940,646	614763,129	-22,35963753	-43,88539667
Rota 4 - Ipiabas 4,530m	7526958,791	614705,811	-22,35947746	-43,88595458
Rota 4 - Ipiabas 4,530m	7526973,685	614652,099	-22,35934652	-43,88647724
Rota 4 - Ipiabas 4,530m	7527002,165	614603,852	-22,3590925	-43,88694779
Rota 4 - Ipiabas 4,530m	7527076,65	614506,705	-22,3584262	-43,88789651
Rota 4 - Ipiabas 4,530m	7527090,301	614462,129	-22,35830587	-43,88833035
Rota 4 - Ipiabas 4,530m	7527097,371	614401,794	-22,35824603	-43,88891675
Rota 4 - Ipiabas 4,530m	7527102,249	614328,775	-22,35820684	-43,88962618
Rota 4 - Ipiabas 4,530m	7527116,779	614255,083	-22,3580805	-43,89034281
Rota 4 - Ipiabas 4,530m	7527143,414	614184,599	-22,35784461	-43,89102916
Rota 4 - Ipiabas 4,530m	7527165,413	614137,931	-22,35764901	-43,89148392

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**


MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA


CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - Ipiabas 4,530m	7527194,751	614058,383	-22,3573893	-43,89225848
Rota 4 - Ipiabas 4,530m	7527216,103	614041,934	-22,35719753	-43,89241973
Rota 4 - Ipiabas 4,530m	7527270,795	614003,852	-22,35670606	-43,89279344
Rota 4 - Ipiabas 4,530m	7527325,367	613978,285	-22,35621484	-43,8930456
Rota 4 - Ipiabas 4,530m	7527400,191	613942,013	-22,3555414	-43,89340317
Rota 4 - Ipiabas 4,530m	7527430,391	613911,37	-22,35527065	-43,89370288
Rota 4 - Ipiabas 4,530m	7527458,653	613870,479	-22,35501808	-43,89410197
Rota 4 - Ipiabas 4,530m	7527484,909	613816,943	-22,35478448	-43,8946237
Rota 4 - Ipiabas 4,530m	7527516,458	613752,687	-22,35450377	-43,89524991
Rota 4 - Ipiabas 4,530m	7527573,107	613639,572	-22,35399958	-43,89635234
Rota 4 - Ipiabas 4,530m	7527642,175	613518,825	-22,35338371	-43,89752975
Rota 4 - Ipiabas 4,530m	7527668,915	613454,359	-22,35314644	-43,89815764
Rota 4 - Ipiabas 4,530m	7527723,326	613251,472	-22,35266836	-43,90013162
Rota 4 - Ipiabas 4,530m	7527749,373	613167,23	-22,35243865	-43,90095148
Rota 4 - Ipiabas 4,530m	7527762,029	613085,338	-22,35232972	-43,90174758
Rota 4 - Ipiabas 4,530m	7527758,148	612870,004	-22,35237895	-43,90383827
Rota 4 - Ipiabas 4,530m	7527766,23	612812,913	-22,3523097	-43,90439322
Rota 4 - Ipiabas 4,530m	7527792,243	612704,895	-22,35208183	-43,90544395
Rota 4 - Ipiabas 4,530m	7527801,209	612672,161	-22,35200299	-43,90576243
Rota 4 - Ipiabas 4,530m	7527799,878	612647,361	-22,35201664	-43,90600316
Rota 4 - Ipiabas 333m	7527557,049	613671,289	-22,35414252	-43,89604322
Rota 4 - Ipiabas 333m	7527560,648	613635,977	-22,35411235	-43,89638636
Rota 4 - Ipiabas 333m	7527565,921	613605,803	-22,35406672	-43,89667974
Rota 4 - Ipiabas 333m	7527572,098	613571,303	-22,35401321	-43,89701519
Rota 4 - Ipiabas 333m	7527572,268	613548,451	-22,35401318	-43,8972371
Rota 4 - Ipiabas 333m	7527538,709	613470,664	-22,35432145	-43,89799007
Rota 4 - Ipiabas 333m	7527526,934	613459,423	-22,35442854	-43,89809839
Rota 4 - Ipiabas 333m	7527503,865	613447,196	-22,35463773	-43,89821548
Rota 4 - Ipiabas 333m	7527472,368	613446,661	-22,35492226	-43,89821844
Rota 4 - Ipiabas 333m	7527439,257	613444,425	-22,35522148	-43,8982378
Rota 4 - Ipiabas 333m	7527423,507	613438,046	-22,35536416	-43,89829862
Rota 4 - Ipiabas 1,257m	7527423,507	613438,046	-22,35536416	-43,89829862
Rota 4 - Ipiabas 1,257m	7527396,366	613403,053	-22,35561163	-43,89863649
Rota 4 - Ipiabas 1,257m	7527386,002	613373,678	-22,35570718	-43,89892101
Rota 4 - Ipiabas 1,257m	7527357,238	613350,594	-22,35596852	-43,89914312
Rota 4 - Ipiabas 1,257m	7527331,253	613347,3	-22,35620344	-43,89917327
Rota 4 - Ipiabas 1,257m	7527302,402	613347,598	-22,35646402	-43,89916833
Rota 4 - Ipiabas 1,257m	7527266,216	613338,541	-22,35679146	-43,89925371
Rota 4 - Ipiabas 1,257m	7527242,444	613326,937	-22,35700695	-43,8993647
Rota 4 - Ipiabas 1,257m	7527205,175	613315,376	-22,35734434	-43,89947433
Rota 4 - Ipiabas 1,257m	7527185,164	613306,972	-22,35752565	-43,89955451
Rota 4 - Ipiabas 1,257m	7527164,035	613289,137	-22,35771767	-43,8997262
Rota 4 - Ipiabas 1,257m	7527162,789	613288,557	-22,35772897	-43,89973175


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - Ipiabas 1,257m	7527145,53	613280,503	-22,35788539	-43,89980873
Rota 4 - Ipiabas 1,257m	7527123,641	613274,706	-22,35808348	-43,89986347
Rota 4 - Ipiabas 1,257m	7527105,24	613267,874	-22,35825015	-43,89992851
Rota 4 - Ipiabas 1,257m	7527077,48	613248,14	-22,35850219	-43,90011818
Rota 4 - Ipiabas 1,257m	7527044,114	613229,008	-22,35880483	-43,90030159
Rota 4 - Ipiabas 1,257m	7527018,518	613215,461	-22,35903692	-43,90043134
Rota 4 - Ipiabas 1,257m	7526990,625	613199,33	-22,35928992	-43,900586
Rota 4 - Ipiabas 1,257m	7526922,83	613169,098	-22,35990427	-43,90087477
Rota 4 - Ipiabas 1,257m	7526899,415	613151,293	-22,36011695	-43,90104601
Rota 4 - Ipiabas 1,257m	7526873,121	613131,808	-22,36035573	-43,90123337
Rota 4 - Ipiabas 1,257m	7526847,361	613112,792	-22,36058966	-43,90141621
Rota 4 - Ipiabas 1,257m	7526823,799	613084,625	-22,36080434	-43,90168806
Rota 4 - Ipiabas 1,257m	7526783,529	613050,797	-22,36117031	-43,90201371
Rota 4 - Ipiabas 1,257m	7526763,023	613030,978	-22,36135683	-43,90220472
Rota 4 - Ipiabas 1,257m	7526747,31	613007,969	-22,36150028	-43,90242706
Rota 4 - Ipiabas 1,257m	7526730,194	612987,56	-22,36165622	-43,90262403
Rota 4 - Ipiabas 1,257m	7526712,066	612955,074	-22,3618221	-43,90293822
Rota 4 - Ipiabas 1,257m	7526700,556	612902,663	-22,36192951	-43,90344637
Rota 4 - Ipiabas 1,257m	7526688,964	612884,826	-22,36203539	-43,90361877
Rota 4 - Ipiabas 1,257m	7526675,459	612859,283	-22,36215905	-43,90386586
Rota 4 - Ipiabas 1,257m	7526660,57	612817,665	-22,36229628	-43,90426896
Rota 4 - Ipiabas 1,257m	7526659,218	612792,648	-22,36231013	-43,90451181
Rota 4 - Ipiabas 1,257m	7526644,248	612763,875	-22,36244723	-43,90479017
Rota 4 - Ipiabas 1,257m	7526629,394	612747,84	-22,36258246	-43,90494484
Rota 4 - Ipiabas 1,257m	7526598,877	612735,745	-22,3628589	-43,90506013
Rota 4 - Ipiabas 1,257m	7526571,206	612737,175	-22,36310874	-43,9050443
Rota 4 - Ipiabas 1,257m	7526544,242	612739,163	-22,36335217	-43,90502309
Rota 4 - Ipiabas 1,257m	7526496,909	612732,541	-22,36378014	-43,90508405
Rota 4 - Ipiabas 1,191m	7527425,038	613438,926	-22,35535028	-43,89829018
Rota 4 - Ipiabas 1,191m	7527407,188	613439,634	-22,35551146	-43,89828204
Rota 4 - Ipiabas 1,191m	7527394,671	613441,172	-22,35562442	-43,89826622
Rota 4 - Ipiabas 1,191m	7527382,926	613446,001	-22,35573018	-43,89821849
Rota 4 - Ipiabas 1,191m	7527387,315	613468,732	-22,35568904	-43,89799807
Rota 4 - Ipiabas 1,191m	7527389,998	613496,506	-22,35566297	-43,89772856
Rota 4 - Ipiabas 1,191m	7527392,22	613516,971	-22,35564154	-43,89753
Rota 4 - Ipiabas 1,191m	7527402,493	613531,671	-22,35554778	-43,89738798
Rota 4 - Ipiabas 1,191m	7527417,115	613544,722	-22,35541485	-43,89726229
Rota 4 - Ipiabas 1,191m	7527427,504	613562,998	-22,3553198	-43,89708556
Rota 4 - Ipiabas 1,191m	7527410,812	613566,552	-22,35547034	-43,89704985
Rota 4 - Ipiabas 1,191m	7527398,611	613553,341	-22,35558142	-43,89717728
Rota 4 - Ipiabas 1,191m	7527382,191	613541,833	-22,35573049	-43,89728786
Rota 4 - Ipiabas 1,191m	7527366,978	613528,844	-22,35586876	-43,89741291
Rota 4 - Ipiabas 1,191m	7527354,392	613519,002	-22,3559831	-43,89750758


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - Ipiabas 1,191m	7527343,017	613515,745	-22,35608605	-43,8975384
Rota 4 - Ipiabas 1,191m	7527282,807	613519,618	-22,35662964	-43,89749651
Rota 4 - Ipiabas 1,191m	7527254,763	613522,45	-22,35688277	-43,89746701
Rota 4 - Ipiabas 1,191m	7527223,895	613531,885	-22,35716096	-43,89737321
Rota 4 - Ipiabas 1,191m	7527195,752	613534,687	-22,35741497	-43,89734399
Rota 4 - Ipiabas 1,191m	7527170,392	613527,78	-22,35764449	-43,89740927
Rota 4 - Ipiabas 1,191m	7527152,274	613526,962	-22,35780819	-43,89741591
Rota 4 - Ipiabas 1,191m	7527132,275	613526,197	-22,35798889	-43,89742193
Rota 4 - Ipiabas 1,191m	7527078,11	613539,943	-22,35847722	-43,89728459
Rota 4 - Ipiabas 1,191m	7527056,307	613541,592	-22,35867405	-43,89726702
Rota 4 - Ipiabas 1,191m	7527042,513	613547,38	-22,35879827	-43,89720984
Rota 4 - Ipiabas 1,191m	7527040,1	613557,395	-22,35881939	-43,89711241
Rota 4 - Ipiabas 1,191m	7527046,45	613576,075	-22,3587608	-43,89693147
Rota 4 - Ipiabas 1,191m	7527054,916	613592,446	-22,35868325	-43,8967731
Rota 4 - Ipiabas 1,191m	7527065,096	613599,369	-22,35859084	-43,8967066
Rota 4 - Ipiabas 1,191m	7527089,693	613603,227	-22,35836841	-43,89667088
Rota 4 - Ipiabas 1,191m	7527116,751	613605,86	-22,35812384	-43,89664724
Rota 4 - Ipiabas 1,191m	7527149,642	613613,124	-22,35782627	-43,89657904
Rota 4 - Ipiabas 1,191m	7527175,851	613619,423	-22,35758912	-43,89651974
Rota 4 - Ipiabas 1,191m	7527205,309	613630,911	-22,35732229	-43,89641027
Rota 4 - Ipiabas 1,191m	7527227,668	613648,799	-22,35711914	-43,89623816
Rota 4 - Ipiabas 1,191m	7527239,148	613667,685	-22,3570142	-43,89605558
Rota 4 - Ipiabas 1,191m	7527239,831	613667,738	-22,35700803	-43,89605512
Rota 4 - Ipiabas 1,191m	7527251,51	613688,063	-22,35690119	-43,89585858
Rota 4 - Ipiabas 1,191m	7527258,913	613716,056	-22,35683247	-43,89558728
Rota 4 - Ipiabas 1,191m	7527261,389	613733,687	-22,35680893	-43,89541625
Rota 4 - Ipiabas 1,191m	7527260,612	613751,212	-22,35681479	-43,89524601
Rota 4 - Ipiabas 1,191m	7527262,8	613766,442	-22,35679402	-43,89509828
Rota 4 - Ipiabas 1,191m	7527269,003	613778,2	-22,35673721	-43,89498453
Rota 4 - Ipiabas 1,191m	7527290,094	613789,971	-22,35654593	-43,89487173
Rota 4 - Ipiabas 1,191m	7527321,024	613794,877	-22,35626623	-43,8948263
Rota 4 - Ipiabas 1,191m	7527351,521	613799,399	-22,35599047	-43,89478456
Rota 4 - Ipiabas 1,191m	7527369,512	613794,283	-22,3558283	-43,89483552
Rota 4 - Ipiabas 1,191m	7527404,115	613796,352	-22,35551561	-43,89481789
Rota 4 - Ipiabas 1,191m	7527432,653	613816,689	-22,35525649	-43,89462244
Rota 4 - Ipiabas 1,191m	7527449,236	613840,43	-22,35510513	-43,89439309
Rota 4 - Ipiabas 1,191m	7527455,072	613862,631	-22,35505095	-43,89417792
Rota 4 - Ipiabas 1,191m	7527458,004	613870,62	-22,35502394	-43,89410055
Rota 4 - Ipiabas 134m	7525386,485	615953,429	-22,37359535	-43,87372503
Rota 4 - Ipiabas 134m	7525344,1	615973,431	-22,37397684	-43,8735277
Rota 4 - Ipiabas 134m	7525311,993	615993,523	-22,37426549	-43,87333023
Rota 4 - Ipiabas 134m	7525268,588	616017,044	-22,37465595	-43,87309865
Rota 4 - Ipiabas 360m	7524989,118	616173,783	-22,37716962	-43,87155608

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - Ipiabas 360m	7524903,017	616205,64	-22,37794516	-43,87124041
Rota 4 - Ipiabas 360m	7524865,756	616216,448	-22,37828098	-43,87113273
Rota 4 - Ipiabas 360m	7524831,951	616226,721	-22,37858563	-43,87103049
Rota 4 - Ipiabas 360m	7524797,213	616236,613	-22,37889872	-43,87093189
Rota 4 - Ipiabas 360m	7524715,378	616261,7	-22,37963619	-43,87068228
Rota 4 - Ipiabas 360m	7524686,425	616274,84	-22,37989682	-43,87055255
Rota 4 - Ipiabas 360m	7524653,233	616298,632	-22,380195	-43,87031906
Rota 4 -Fazenda Taquara 545m	7516243,21	619254,135	-22,45595344	-43,84098467
Rota 4 -Fazenda Taquara 545m	7516242,096	619270,363	-22,45596237	-43,8408269
Rota 4 -Fazenda Taquara 545m	7516252,286	619289,831	-22,45586897	-43,84063848
Rota 4 -Fazenda Taquara 545m	7516264,623	619303,709	-22,45575657	-43,84050455
Rota 4 -Fazenda Taquara 545m	7516294,472	619316,295	-22,45548608	-43,8403845
Rota 4 -Fazenda Taquara 456m	7516294,472	619316,295	-22,45548608	-43,8403845
Rota 4 -Fazenda Taquara 456m	7516326,585	619330,762	-22,45519503	-43,84024632
Rota 4 -Fazenda Taquara 456m	7516339,858	619339,565	-22,45507453	-43,84016178
Rota 4 -Fazenda Taquara 456m	7516359,582	619358,59	-22,45489504	-43,83997839
Rota 4 -Fazenda Taquara 456m	7516374,666	619377,098	-22,45475751	-43,83979968
Rota 4 -Fazenda Taquara 456m	7516392,176	619394,618	-22,45459814	-43,83963075
Rota 4 -Fazenda Taquara 456m	7516401,061	619409,904	-22,45451682	-43,83948288
Rota 4 -Fazenda Taquara 456m	7516408,614	619419,248	-22,45444794	-43,83939265
Rota 4 -Fazenda Taquara 456m	7516424,667	619427,466	-22,45430237	-43,839314
Rota 4 -Fazenda Taquara 456m	7516451,529	619431,867	-22,45405944	-43,83927325
Rota 4 -Fazenda Taquara 456m	7516452,013	619431,506	-22,4540551	-43,8392768
Rota 4 -Fazenda Taquara 456m	7516473,751	619427,695	-22,45385902	-43,83931546
Rota 4 -Fazenda Taquara 456m	7516488,604	619422,864	-22,45372521	-43,83936353
Rota 4 -Fazenda Taquara 456m	7516497,704	619417,196	-22,45364341	-43,83941929
Rota 4 -Fazenda Taquara 456m	7516513,205	619408,266	-22,45350402	-43,83950723
Rota 4 -Fazenda Taquara 456m	7516555,104	619404,682	-22,45312583	-43,8395452
Rota 4 -Fazenda Taquara 456m	7516603,075	619408,168	-22,45269231	-43,83951493
Rota 4 -Fazenda Taquara 456m	7516646,326	619429,604	-22,45230016	-43,83930989
Rota 4 -Fazenda Taquara 456m	7516675,61	619443,887	-22,45203466	-43,8391733
Rota 4 -Fazenda Taquara 456m	7516679,899	619459,293	-22,45199484	-43,83902393
Rota 4 -Fazenda Taquara 103m	7516294,472	619316,295	-22,45548608	-43,8403845
Rota 4 -Fazenda Taquara 103m	7516258,176	619308,857	-22,45581445	-43,84045404
Rota 4 -Fazenda Taquara 103m	7516243,94	619312,084	-22,4559428	-43,84042161
Rota 4 -Fazenda Taquara 103m	7516223,653	619323,387	-22,45612524	-43,84031026
Rota 4 -Fazenda Taquara 103m	7516208,904	619347,102	-22,4562568	-43,8400787
Rota 4 - UGB 10,163m	7516675,009	619443,614	-22,4520401	-43,83917591
Rota 4 - UGB 10,163m	7516708,465	619456,814	-22,451737	-43,83905016
Rota 4 - UGB 10,163m	7516755,534	619477,346	-22,45131043	-43,83885419
Rota 4 - UGB 10,163m	7516825,581	619504,911	-22,45067582	-43,83859161
Rota 4 - UGB 10,163m	7516906,091	619532,866	-22,44994669	-43,83832603
Rota 4 - UGB 10,163m	7516982,81	619557,395	-22,44925203	-43,83809346

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - UGB 10,163m	7517014,187	619561,195	-22,44896836	-43,8380589
Rota 4 - UGB 10,163m	7517041,991	619555,798	-22,44871761	-43,83811343
Rota 4 - UGB 10,163m	7517071,659	619537,084	-22,44845094	-43,8382975
Rota 4 - UGB 10,163m	7517083,426	619514,859	-22,44834622	-43,83851435
Rota 4 - UGB 10,163m	7517102,681	619478,971	-22,44817481	-43,83886451
Rota 4 - UGB 10,163m	7517116,732	619456,55	-22,44804947	-43,83908343
Rota 4 - UGB 10,163m	7517130,096	619431,025	-22,44793055	-43,83933246
Rota 4 - UGB 10,163m	7517139,318	619419,691	-22,44784804	-43,83944328
Rota 4 - UGB 10,163m	7517140,135	619418,546	-22,44784074	-43,83945447
Rota 4 - UGB 10,163m	7517155,467	619402,633	-22,44770338	-43,83961024
Rota 4 - UGB 10,163m	7517189,824	619372,069	-22,44739519	-43,8399098
Rota 4 - UGB 10,163m	7517224,488	619339,422	-22,44708437	-43,84022963
Rota 4 - UGB 10,163m	7517239,548	619314,153	-22,44695012	-43,84047629
Rota 4 - UGB 10,163m	7517255,667	619271,597	-22,4468075	-43,84089101
Rota 4 - UGB 10,163m	7517260,621	619242,409	-22,44676478	-43,84117499
Rota 4 - UGB 10,163m	7517264,627	619212,959	-22,44673066	-43,84146145
Rota 4 - UGB 10,163m	7517274,429	619179,706	-22,44664444	-43,8417853
Rota 4 - UGB 10,163m	7517291,644	619149,994	-22,44649102	-43,84207529
Rota 4 - UGB 10,163m	7517382,315	619103,534	-22,4456753	-43,84253352
Rota 4 - UGB 10,163m	7517420,938	619094,584	-22,44532707	-43,84262338
Rota 4 - UGB 10,163m	7517459,902	619101,814	-22,44497464	-43,84255605
Rota 4 - UGB 10,163m	7517502,869	619127,159	-22,44458478	-43,842313
Rota 4 - UGB 10,163m	7517521,857	619149,761	-22,4444117	-43,84209481
Rota 4 - UGB 10,163m	7517549,591	619187,367	-22,44415858	-43,84173149
Rota 4 - UGB 10,163m	7517606,478	619254,696	-22,44364007	-43,84108156
Rota 4 - UGB 10,163m	7517628,032	619272,764	-22,44344413	-43,84090762
Rota 4 - UGB 10,163m	7517664,661	619290,703	-22,44311204	-43,84073606
Rota 4 - UGB 10,163m	7517730,452	619305,674	-22,44251675	-43,84059554
Rota 4 - UGB 10,163m	7517778,085	619321,975	-22,44208539	-43,84044072
Rota 4 - UGB 10,163m	7517815,606	619344,193	-22,44174494	-43,84022767
Rota 4 - UGB 10,163m	7517849,684	619377,998	-22,44143478	-43,83990177
Rota 4 - UGB 10,163m	7517863,443	619404,548	-22,44130865	-43,83964483
Rota 4 - UGB 10,163m	7517877,963	619451,715	-22,44117421	-43,83918763
Rota 4 - UGB 10,163m	7517886,465	619480,764	-22,44109539	-43,83890603
Rota 4 - UGB 10,163m	7517898,989	619514,106	-22,44097994	-43,838583
Rota 4 - UGB 10,163m	7517919,472	619550,479	-22,44079239	-43,83823114
Rota 4 - UGB 10,163m	7517939,338	619582,797	-22,44061069	-43,83791862
Rota 4 - UGB 10,163m	7517972,595	619617,57	-22,44030788	-43,83758326
Rota 4 - UGB 10,163m	7518006,029	619652,852	-22,44000343	-43,83724296
Rota 4 - UGB 10,163m	7518036,148	619682,824	-22,43972929	-43,83695402
Rota 4 - UGB 10,163m	7518036,609	619683,733	-22,43972506	-43,83694522
Rota 4 - UGB 10,163m	7518066,228	619707,328	-22,43945588	-43,8367182
Rota 4 - UGB 10,163m	7518095,545	619731,3	-22,43918941	-43,83648749




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - UGB 10,163m	7518121,141	619759,576	-22,43895624	-43,83621469
Rota 4 - UGB 10,163m	7518148,035	619792,234	-22,43871104	-43,8358994
Rota 4 - UGB 10,163m	7518161,64	619830,807	-22,43858545	-43,83552565
Rota 4 - UGB 10,163m	7518167,384	619865,352	-22,43853115	-43,83519044
Rota 4 - UGB 10,163m	7518168,736	619883,494	-22,43851767	-43,83501427
Rota 4 - UGB 10,163m	7518168,222	619920,283	-22,43851973	-43,83465679
Rota 4 - UGB 10,163m	7518169,31	619951,531	-22,43850772	-43,83435325
Rota 4 - UGB 10,163m	7518167,62	619973,427	-22,43852144	-43,83414038
Rota 4 - UGB 10,163m	7518168,03	619998,099	-22,438516	-43,8339007
Rota 4 - UGB 10,163m	7518175,192	620023,121	-22,43844956	-43,83365813
Rota 4 - UGB 10,163m	7518202,042	620085,205	-22,43820269	-43,83305694
Rota 4 - UGB 10,163m	7518238,419	620134,885	-22,43787064	-43,832577
Rota 4 - UGB 10,163m	7518280,039	620190,478	-22,4374908	-43,83204
Rota 4 - UGB 10,163m	7518336,423	620260,238	-22,43697663	-43,83136647
Rota 4 - UGB 10,163m	7518381,51	620321,323	-22,4365651	-43,83077638
Rota 4 - UGB 10,163m	7518431,311	620390,102	-22,43611045	-43,8301119
Rota 4 - UGB 10,163m	7518464,615	620427,823	-22,43580699	-43,82974793
Rota 4 - UGB 10,163m	7518505,975	620458,532	-22,43543125	-43,8294527
Rota 4 - UGB 10,163m	7518578,134	620511,458	-22,43477577	-43,82894394
Rota 4 - UGB 10,163m	7518656,198	620569,156	-22,43406662	-43,82838927
Rota 4 - UGB 10,163m	7518734,301	620627,272	-22,43335708	-43,82783056
Rota 4 - UGB 10,163m	7518871,707	620729,065	-22,43210881	-43,826852
Rota 4 - UGB 10,163m	7518956,217	620777,959	-22,43134206	-43,82638339
Rota 4 - UGB 10,163m	7519031,123	620795,797	-22,43066423	-43,82621577
Rota 4 - UGB 10,163m	7519183,855	620794,046	-22,42928485	-43,82624438
Rota 4 - UGB 10,163m	7519387,467	620798,336	-22,42744548	-43,82621816
Rota 4 - UGB 10,163m	7519553,01	620801,342	-22,42595006	-43,82620153
Rota 4 - UGB 10,163m	7519647,34	620819,75	-22,42509675	-43,82602986
Rota 4 - UGB 10,163m	7519809,48	620856,81	-22,42362965	-43,82568213
Rota 4 - UGB 10,163m	7519949,145	620880,697	-22,42236649	-43,82546068
Rota 4 - UGB 10,163m	7520044,613	620904,265	-22,42150253	-43,82523898
Rota 4 - UGB 10,163m	7520141,418	620964,894	-22,42062389	-43,82465732
Rota 4 - UGB 10,163m	7520200,273	621035,555	-22,4200873	-43,82397534
Rota 4 - UGB 10,163m	7520258,116	621168,097	-22,41955548	-43,82269214
Rota 4 - UGB 10,163m	7520272,98	621237,25	-22,41941632	-43,82202146
Rota 4 - UGB 10,163m	7520300,734	621307,788	-22,41916065	-43,82133832
Rota 4 - UGB 10,163m	7520351,99	621330,289	-22,4186961	-43,82112363
Rota 4 - UGB 10,163m	7520426,449	621334,08	-22,41802331	-43,82109249
Rota 4 - UGB 10,163m	7520463,877	621300,763	-22,41768761	-43,821419
Rota 4 - UGB 10,163m	7520500,949	621257,132	-22,41735586	-43,82184568
Rota 4 - UGB 10,163m	7520500,591	621254,431	-22,41735929	-43,8218719
Rota 4 - UGB 10,163m	7520546,674	621189,889	-22,41694763	-43,8225024
Rota 4 - UGB 10,163m	7520604,136	621103,538	-22,41643473	-43,82334563


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LOX
Rota 4 - UGB 10,163m	7520670,683	621055,779	-22,41583704	-43,82381466
Rota 4 - UGB 10,163m	7520822,093	620969,781	-22,41447556	-43,82466159
Rota 4 - UGB 10,163m	7520961,474	620964,088	-22,41321704	-43,82472748
Rota 4 - UGB 10,163m	7520966,629	620960,998	-22,4131707	-43,82475789
Rota 4 - UGB 10,163m	7521128,177	621001,896	-22,41170868	-43,82437288
Rota 4 - UGB 10,163m	7521326,705	621072,727	-22,40991052	-43,82369991
Rota 4 - UGB 10,163m	7521468,026	621112,757	-22,40863126	-43,8233218
Rota 4 - UGB 10,163m	7521501,793	621167,6	-22,40832239	-43,82279162
Rota 4 - UGB 10,163m	7521564,859	621267,338	-22,4077457	-43,82182758
Rota 4 - UGB 10,163m	7521638,724	621333,8	-22,40707383	-43,8211876
Rota 4 - UGB 10,163m	7521741,9	621418,151	-22,40613594	-43,82037609
Rota 4 - UGB 10,163m	7521997,717	621631,618	-22,40381021	-43,81832206
Rota 4 - UGB 10,163m	7522211,391	621834,19	-22,40186587	-43,81637069
Rota 4 - UGB 10,163m	7522284,063	621907,779	-22,40120425	-43,81566144
Rota 4 - UGB 10,163m	7522366,394	622045,049	-22,40045085	-43,81433438
Rota 4 - UGB 10,163m	7522446,71	622079,925	-22,39972293	-43,81400178
Rota 4 - UGB 10,163m	7522577,736	622120,068	-22,39853662	-43,81362189
Rota 4 - UGB 10,163m	7522730,414	622134,424	-22,39715659	-43,81349416
Rota 4 - UGB 10,163m	7522818,745	622134,215	-22,39635878	-43,81350296
Rota 4 - UGB 10,163m	7522910,531	622104,967	-22,39553184	-43,81379407
Rota 4 - UGB 10,163m	7523083,525	622062,813	-22,39397233	-43,81421677
Rota 4 - UGB 10,163m	7523193,815	622069,267	-22,39297571	-43,81416254
Rota 4 - UGB 10,163m	7523282,056	622114,298	-22,39217549	-43,81373191
Rota 4 - UGB 10,163m	7523378,749	622143,475	-22,39130006	-43,81345593
Rota 4 - UGB 10,163m	7523467,651	622152,239	-22,39049645	-43,81337762
Rota 4 - UGB 10,163m	7523542,123	622154,881	-22,38982362	-43,81335767
Rota 4 - UGB 10,163m	7523621,596	622136,943	-22,38910709	-43,81353798
Rota 4 - UGB 10,163m	7523678,986	622103,144	-22,38859114	-43,81387066
Rota 4 - UGB 10,163m	7523734,814	622075,778	-22,38808884	-43,81414073
Rota 4 - UGB 10,163m	7523780,235	622070,623	-22,38767895	-43,81419427
Rota 4 - UGB 10,163m	7523879,827	622094,473	-22,38677772	-43,81397026
Rota 4 - UGB 10,163m	7523931,53	622085,783	-22,38631134	-43,81405862
Rota 4 - UGB 10,163m	7524013,813	622067,076	-22,38556948	-43,81424661
Rota 4 - UGB 10,163m	7524126,036	622038,439	-22,3845579	-43,81453333
Rota 4 - UGB 10,163m	7524203,538	622023,479	-22,38385895	-43,81468456
Rota 4 - UGB 10,163m	7524267,933	622056,334	-22,38327499	-43,81437039
Rota 4 - UGB 10,163m	7524309,784	622103,057	-22,38289365	-43,81391981
Rota 4 - UGB 10,163m	7524334,099	622176,472	-22,38266881	-43,81320865
Rota 4 - UGB 10,163m	7524357,486	622230,667	-22,38245371	-43,8126841
Rota 4 - UGB 10,163m	7524374,413	622281,904	-22,38229716	-43,81218777
Rota 4 - UGB 10,163m	7524376,384	622281,995	-22,38227936	-43,81218705
Rota 4 - UGB 10,163m	7524425,42	622313,591	-22,3818342	-43,81188394
Rota 4 - UGB 10,163m	7524455,579	622334,29	-22,38156032	-43,81168522


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 4 - UGB 10,163m	7524550,453	622324,333	-22,38070411	-43,8117892
Rota 4 - UGB 10,163m	7524558,309	622323,148	-22,38063324	-43,81180132
Rota 4 - UGB 10,163m	7524576,738	622316,204	-22,38046728	-43,81187017
Rota 4 - UGB 10,163m	7524614,673	622336,099	-22,38012322	-43,81167986
Rota 4 - Final 305m	7516201,489	619453,856	-22,45631632	-43,83904077
Rota 4 - Final 305m	7516205,752	619487,074	-22,45627549	-43,8387183
Rota 4 - Final 305m	7516223,993	619540,851	-22,45610697	-43,8381971
Rota 4 - Final 305m	7516243,299	619584,901	-22,45592952	-43,83777051
Rota 4 - Final 305m	7516271,826	619643,125	-22,45566777	-43,83720688
Rota 4 - Final 305m	7516323,814	619730,204	-22,45519211	-43,83636463
ROTA 4 - BR-393 (Final) 9,223m	7516323,752	619730,066	-22,45519268	-43,83636597
ROTA 4 - BR-393 (Final) 9,223m	7516338,869	619752,913	-22,45505454	-43,83614509
ROTA 4 - BR-393 (Final) 9,223m	7516384,944	619828,937	-22,45463305	-43,83540982
ROTA 4 - BR-393 (Final) 9,223m	7516434,908	619894,629	-22,45417716	-43,83477525
ROTA 4 - BR-393 (Final) 9,223m	7516463,891	619957,778	-22,45391094	-43,83416381
ROTA 4 - BR-393 (Final) 9,223m	7516500,455	620023,204	-22,4535761	-43,83353081
ROTA 4 - BR-393 (Final) 9,223m	7516526,124	620079,552	-22,45334029	-43,83298521
ROTA 4 - BR-393 (Final) 9,223m	7516553,729	620121,687	-22,453088	-43,83257787
ROTA 4 - BR-393 (Final) 9,223m	7516585,617	620168,845	-22,45279666	-43,83212204
ROTA 4 - BR-393 (Final) 9,223m	7516631,772	620200,859	-22,45237753	-43,83181445
ROTA 4 - BR-393 (Final) 9,223m	7516668,097	620213,216	-22,45204857	-43,83169713
ROTA 4 - BR-393 (Final) 9,223m	7516745,346	620227,833	-22,45134981	-43,83156094
ROTA 4 - BR-393 (Final) 9,223m	7516835,689	620260,061	-22,45053155	-43,83125463
ROTA 4 - BR-393 (Final) 9,223m	7516875,186	620296,838	-22,45017222	-43,83090025
ROTA 4 - BR-393 (Final) 9,223m	7516902,427	620346,409	-22,44992269	-43,83042064
ROTA 4 - BR-393 (Final) 9,223m	7516918,489	620407,739	-22,44977329	-43,82982593
ROTA 4 - BR-393 (Final) 9,223m	7516929,529	620456,274	-22,44967015	-43,82935515
ROTA 4 - BR-393 (Final) 9,223m	7516937,746	620505,332	-22,44959248	-43,82887908
ROTA 4 - BR-393 (Final) 9,223m	7516937,357	620538,95	-22,44959362	-43,82855239
ROTA 4 - BR-393 (Final) 9,223m	7516922,83	620580,015	-22,44972194	-43,82815227
ROTA 4 - BR-393 (Final) 9,223m	7516886,822	620621,659	-22,45004423	-43,82774489
ROTA 4 - BR-393 (Final) 9,223m	7516771,115	620663,869	-22,45108633	-43,82732594
ROTA 4 - BR-393 (Final) 9,223m	7516718,98	620714,84	-22,45155363	-43,8268267
ROTA 4 - BR-393 (Final) 9,223m	7516701,255	620797,204	-22,4517079	-43,82602502
ROTA 4 - BR-393 (Final) 9,223m	7516711,808	620871,494	-22,45160733	-43,82530395
ROTA 4 - BR-393 (Final) 9,223m	7516713,324	620982,814	-22,45158576	-43,82422238
ROTA 4 - BR-393 (Final) 9,223m	7516713,578	621090,008	-22,45157587	-43,82318079
ROTA 4 - BR-393 (Final) 9,223m	7516700,876	621183,408	-22,45168398	-43,82227225
ROTA 4 - BR-393 (Final) 9,223m	7516682,367	621241,036	-22,45184707	-43,82171087
ROTA 4 - BR-393 (Final) 9,223m	7516640,04	621407,463	-22,45221756	-43,82009047
ROTA 4 - BR-393 (Final) 9,223m	7516620,469	621500,795	-22,45238769	-43,81918206
ROTA 4 - BR-393 (Final) 9,223m	7516593,41	621589,424	-22,45262579	-43,81831879
ROTA 4 - BR-393 (Final) 9,223m	7516572,703	621653,967	-22,45280822	-43,81769003


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
ROTA 4 - BR-393 (Final) 9,223m	7516550,093	621755,131	-22,45300523	-43,81670528
ROTA 4 - BR-393 (Final) 9,223m	7516532,862	621830,958	-22,45315546	-43,81596714
ROTA 4 - BR-393 (Final) 9,223m	7516508,45	621942,592	-22,45336799	-43,81488052
ROTA 4 - BR-393 (Final) 9,223m	7516507,395	622005,201	-22,45337305	-43,81427206
ROTA 4 - BR-393 (Final) 9,223m	7516484,968	622106,313	-22,45356839	-43,81328783
ROTA 4 - BR-393 (Final) 9,223m	7516465,732	622179,314	-22,45373692	-43,81257699
ROTA 4 - BR-393 (Final) 9,223m	7516457,353	622222,374	-22,45380951	-43,81215792
ROTA 4 - BR-393 (Final) 9,223m	7516453,161	622282,405	-22,45384308	-43,81157428
ROTA 4 - BR-393 (Final) 9,223m	7516447,799	622316,535	-22,45388907	-43,81124222
ROTA 4 - BR-393 (Final) 9,223m	7516450,367	622350,406	-22,45386345	-43,81091329
ROTA 4 - BR-393 (Final) 9,223m	7516466,558	622482,53	-22,45370775	-43,80963067
ROTA 4 - BR-393 (Final) 9,223m	7516482,833	622609,344	-22,45355165	-43,80839967
ROTA 4 - BR-393 (Final) 9,223m	7516490,9	622691,441	-22,4534729	-43,80760255
ROTA 4 - BR-393 (Final) 9,223m	7516506,24	622768,372	-22,45332882	-43,8068562
ROTA 4 - BR-393 (Final) 9,223m	7516544,471	623002,011	-22,45296671	-43,80458887
ROTA 4 - BR-393 (Final) 9,223m	7516569,44	623089,785	-22,45273487	-43,80373791
ROTA 4 - BR-393 (Final) 9,223m	7516627,446	623204,462	-22,45220269	-43,80262809
ROTA 4 - BR-393 (Final) 9,223m	7516753,803	623437,428	-22,45104461	-43,8003742
ROTA 4 - BR-393 (Final) 9,223m	7516795,166	623522,226	-22,45066489	-43,79955345
ROTA 4 - BR-393 (Final) 9,223m	7516842,899	623620,555	-22,45022665	-43,79860171
ROTA 4 - BR-393 (Final) 9,223m	7516931,302	623751,275	-22,44941874	-43,79733842
ROTA 4 - BR-393 (Final) 9,223m	7517015,362	623847,411	-22,44865254	-43,79641085
ROTA 4 - BR-393 (Final) 9,223m	7517148,2	623967,14	-22,44744405	-43,79525784
ROTA 4 - BR-393 (Final) 9,223m	7517232,655	624036,246	-22,44667623	-43,79459296
ROTA 4 - BR-393 (Final) 9,223m	7517301,855	624115,282	-22,44604548	-43,79383041
ROTA 4 - BR-393 (Final) 9,223m	7517387,191	624205,548	-22,44526817	-43,79296001
ROTA 4 - BR-393 (Final) 9,223m	7517594,277	624428,069	-22,44338157	-43,79081411
ROTA 4 - BR-393 (Final) 9,223m	7517706,405	624548,972	-22,44236002	-43,78964818
ROTA 4 - BR-393 (Final) 9,223m	7517799,866	624660,476	-22,44150775	-43,78857211
ROTA 4 - BR-393 (Final) 9,223m	7517852,122	624771,673	-22,44102766	-43,78749581
ROTA 4 - BR-393 (Final) 9,223m	7517887,001	624844,939	-22,44070728	-43,78678668
ROTA 4 - BR-393 (Final) 9,223m	7517925,024	624955,339	-22,4403558	-43,78571702
ROTA 4 - BR-393 (Final) 9,223m	7517990,895	625099,843	-22,43975028	-43,78431819
ROTA 4 - BR-393 (Final) 9,223m	7518040,755	625194,702	-22,439293	-43,78340047
ROTA 4 - BR-393 (Final) 9,223m	7518111,566	625299,156	-22,43864578	-43,78239118
ROTA 4 - BR-393 (Final) 9,223m	7518188,571	625387,598	-22,43794378	-43,78153795
ROTA 4 - BR-393 (Final) 9,223m	7518289,678	625493,678	-22,4370228	-43,78051528
ROTA 4 - BR-393 (Final) 9,223m	7518377,76	625645,369	-22,43621611	-43,77904843
ROTA 4 - BR-393 (Final) 9,223m	7518469,696	625796,501	-22,43537463	-43,77758735
ROTA 4 - BR-393 (Final) 9,223m	7518562,341	625959,516	-22,43452586	-43,77601089
ROTA 4 - BR-393 (Final) 9,223m	7518687,751	626152,865	-22,43337891	-43,77414233
ROTA 4 - BR-393 (Final) 9,223m	7518763,036	626247,377	-22,43269195	-43,77323008
ROTA 4 - BR-393 (Final) 9,223m	7518897,426	626393,892	-22,43146733	-43,7718173


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
<b>PONTO</b>	<b>UTMY-N</b>	<b>UTMX-E</b>	<b>LAT</b>	<b>LON</b>
ROTA 4 - BR-393 (Final) 9,223m	7518941,226	626437,108	-22,43106853	-43,77140092
ROTA 4 - BR-393 (Final) 9,223m	7519023,22	626525,335	-22,43032143	-43,77055029
ROTA 4 - BR-393 (Final) 9,223m	7519137,647	626646,427	-22,42927898	-43,76938295
ROTA 4 - BR-393 (Final) 9,223m	7519355,712	626821,321	-22,42729646	-43,7677012
ROTA 4 - BR-393 (Final) 9,223m	7519478,984	626950,377	-22,4261735	-43,76645725
ROTA 4 - BR-393 (Final) 9,223m	7519626,099	627114,659	-22,42483256	-43,764873
ROTA 4 - BR-393 (Final) 9,223m	7519728,884	627230,149	-22,42389562	-43,76375925
ROTA 4 - BR-393 (Final) 9,223m	7519749,402	627283,283	-22,42370635	-43,7632447
ROTA 4 - BR-393 (Final) 9,223m	7519752,884	627318,339	-22,42367229	-43,76290442
ROTA 4 - BR-393 (Final) 9,223m	7519738,012	627379,803	-22,42380204	-43,76230611


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Início da Rota 5	7514355,709	621257,848	-22,47286056	-43,82136979
Rota 5 - Principal 3,230m	7514357,894	621257,543	-22,47284085	-43,82137292
Rota 5 - Principal 3,230m	7514350,656	621270,501	-22,4729053	-43,82124644
Rota 5 - Principal 3,230m	7514342,773	621284,051	-22,47297554	-43,82111415
Rota 5 - Principal 3,230m	7514330,378	621294,846	-22,47308672	-43,82100829
Rota 5 - Principal 3,230m	7514322,347	621302,111	-22,47315875	-43,82093707
Rota 5 - Principal 3,230m	7514311,708	621309,389	-22,47325432	-43,82086553
Rota 5 - Principal 3,230m	7514294,31	621320,83	-22,47341065	-43,82075301
Rota 5 - Principal 3,230m	7514280,17	621328,363	-22,47353783	-43,82067872
Rota 5 - Principal 3,230m	7514256,273	621341,656	-22,47375272	-43,8205477
Rota 5 - Principal 3,230m	7514240,332	621352,448	-22,47389594	-43,8204416
Rota 5 - Principal 3,230m	7514230,547	621361,498	-22,47398368	-43,8203529
Rota 5 - Principal 3,230m	7514215,688	621377,228	-22,47411677	-43,82019889
Rota 5 - Principal 3,230m	7514202,541	621393,957	-22,47423432	-43,8200353
Rota 5 - Principal 3,230m	7514184,662	621413,058	-22,47439445	-43,8198483
Rota 5 - Principal 3,230m	7514168,089	621432,374	-22,47454276	-43,8196593
Rota 5 - Principal 3,230m	7514142,367	621458,331	-22,47477324	-43,81940508
Rota 5 - Principal 3,230m	7514125,75	621473,02	-22,47492228	-43,81926104
Rota 5 - Principal 3,230m	7514109,589	621481,02	-22,47506768	-43,81918205
Rota 5 - Principal 3,230m	7514085,441	621486,654	-22,47528538	-43,81912546
Rota 5 - Principal 3,230m	7514060,001	621487,603	-22,4755151	-43,81911428
Rota 5 - Principal 3,230m	7514035,203	621484,809	-22,47573928	-43,81913954
Rota 5 - Principal 3,230m	7514016,881	621486,22	-22,47590466	-43,81912442
Rota 5 - Principal 3,230m	7513993,89	621485,631	-22,47611236	-43,81912839
Rota 5 - Principal 3,230m	7513966,712	621482,832	-22,47635803	-43,8191535
Rota 5 - Principal 3,230m	7513931,397	621476,214	-22,47667747	-43,81921512
Rota 5 - Principal 3,230m	7513912,626	621469,346	-22,4768475	-43,81928043
Rota 5 - Principal 3,230m	7513884,04	621454,28	-22,47710677	-43,81942466
Rota 5 - Principal 3,230m	7513859,356	621441,477	-22,47733063	-43,8195472
Rota 5 - Principal 3,230m	7513838,738	621432,764	-22,47751747	-43,8196303
Rota 5 - Principal 3,230m	7513817,99	621425,581	-22,47770538	-43,81969853
Rota 5 - Principal 3,230m	7513797,48	621422,785	-22,47789083	-43,81972413
Rota 5 - Principal 3,230m	7513767,389	621420,182	-22,4781628	-43,81974713
Rota 5 - Principal 3,230m	7513734,911	621421,452	-22,47845605	-43,81973229
Rota 5 - Principal 3,230m	7513706,757	621424,459	-22,47871013	-43,81970091
Rota 5 - Principal 3,230m	7513678,255	621426,19	-22,47896744	-43,81968191
Rota 5 - Principal 3,230m	7513657,108	621431,388	-22,47915807	-43,81962978
Rota 5 - Principal 3,230m	7513630,867	621443,056	-22,47939426	-43,81951436
Rota 5 - Principal 3,230m	7513616,443	621457,651	-22,47952349	-43,81937142
Rota 5 - Principal 3,230m	7513590,26	621485,297	-22,47975801	-43,81910071
Rota 5 - Principal 3,230m	7513576,816	621512,336	-22,47987752	-43,8188369
Rota 5 - Principal 3,230m	7513565,273	621547,486	-22,47997927	-43,81849439
Rota 5 - Principal 3,230m	7513554,181	621570,807	-22,48007779	-43,81826688

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 3,230m	7513539,726	621588,479	-22,48020709	-43,81809403
Rota 5 - Principal 3,230m	7513523,249	621598,495	-22,4803552	-43,81799542
Rota 5 - Principal 3,230m	7513507,345	621602,176	-22,48049858	-43,81795842
Rota 5 - Principal 3,230m	7513485,111	621607,334	-22,48069904	-43,81790659
Rota 5 - Principal 3,230m	7513467,826	621606,758	-22,4808552	-43,81791085
Rota 5 - Principal 3,230m	7513453,281	621607,968	-22,48098648	-43,81789798
Rota 5 - Principal 3,230m	7513418,299	621608,083	-22,48130243	-43,81789418
Rota 5 - Principal 3,230m	7513387,468	621608,565	-22,48158087	-43,81788713
Rota 5 - Principal 3,230m	7513366,207	621603,895	-22,48177323	-43,81793089
Rota 5 - Principal 3,230m	7513346,703	621601,193	-22,48194959	-43,81795565
Rota 5 - Principal 3,230m	7513326,406	621597,998	-22,48213314	-43,81798515
Rota 5 - Principal 3,230m	7513315,018	621597,477	-22,48223603	-43,81798934
Rota 5 - Principal 3,230m	7513290,081	621589,203	-22,48246186	-43,81806784
Rota 5 - Principal 3,230m	7513262,885	621583,245	-22,48270793	-43,81812366
Rota 5 - Principal 3,230m	7513236,771	621573,492	-22,48294448	-43,81821646
Rota 5 - Principal 3,230m	7513175,791	621544,792	-22,4834973	-43,81849072
Rota 5 - Principal 3,230m	7513142,402	621528,908	-22,48380001	-43,81864254
Rota 5 - Principal 3,230m	7513110,912	621515,556	-22,48408538	-43,8187699
Rota 5 - Principal 3,230m	7513081,568	621502,283	-22,48435136	-43,81889665
Rota 5 - Principal 3,230m	7513060,453	621493,27	-22,48454272	-43,81898264
Rota 5 - Principal 3,230m	7513037,037	621487,367	-22,48475463	-43,81903821
Rota 5 - Principal 3,230m	7513016,409	621485,625	-22,48494107	-43,81905356
Rota 5 - Principal 3,230m	7512994,376	621487,145	-22,48513997	-43,8190371
Rota 5 - Principal 3,230m	7512978,847	621492,229	-22,48527986	-43,8189865
Rota 5 - Principal 3,230m	7512963,244	621500,064	-22,48542024	-43,81890915
Rota 5 - Principal 3,230m	7512938,692	621514,525	-22,48564096	-43,81876672
Rota 5 - Principal 3,230m	7512925,824	621527,227	-22,48575628	-43,81864228
Rota 5 - Principal 3,230m	7512908,299	621547,318	-22,48591314	-43,81844566
Rota 5 - Principal 3,230m	7512890,994	621567,163	-22,48606803	-43,81825145
Rota 5 - Principal 3,230m	7512868,931	621591,151	-22,48626559	-43,81801662
Rota 5 - Principal 3,230m	7512869,906	621599,195	-22,48625621	-43,81793851
Rota 5 - Principal 3,230m	7512872,106	621604,495	-22,48623596	-43,81788716
Rota 5 - Principal 3,230m	7512883,106	621605,233	-22,48613655	-43,81788084
Rota 5 - Principal 3,230m	7512896,632	621603,718	-22,4860145	-43,8178966
Rota 5 - Principal 3,230m	7512909,821	621601,768	-22,48589551	-43,81791657
Rota 5 - Principal 3,230m	7512925,336	621601,018	-22,48575543	-43,81792504
Rota 5 - Principal 3,230m	7512937,863	621599,47	-22,4856424	-43,81794105
Rota 5 - Principal 3,230m	7512955,918	621599,879	-22,4854793	-43,81793846
Rota 5 - Principal 3,230m	7512987,812	621595,297	-22,48519155	-43,81798544
Rota 5 - Principal 3,230m	7513011,191	621593,995	-22,48498048	-43,81799989
Rota 5 - Principal 3,230m	7513043,356	621589,877	-22,48469025	-43,81804238
Rota 5 - Principal 3,230m	7513068,892	621589,264	-22,48445966	-43,81805029
Rota 5 - Principal 3,230m	7513088,895	621587,209	-22,48427913	-43,8180718

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 3,230m	7513150,503	621581,971	-22,48372306	-43,81812743
Rota 5 - Principal 3,230m	7513187,292	621578,97	-22,48339099	-43,81815942
Rota 5 - Principal 3,230m	7513214,299	621578,723	-22,48314708	-43,81816389
Rota 5 - Principal 3,230m	7513224,059	621574,309	-22,48305924	-43,81820754
Rota 5 - Principal 3,230m	7513218,453	621565,49	-22,4831105	-43,81829282
Rota 5 - Principal 3,230m	7513163,377	621539,029	-22,48360984	-43,81854578
Rota 5 - Principal 3,230m	7513129,839	621523,239	-22,48391388	-43,81869668
Rota 5 - Principal 3,230m	7513092,934	621507,807	-22,48424831	-43,81884383
Rota 5 - Principal 3,230m	7513067,775	621495,807	-22,4844764	-43,81895854
Rota 5 - Principal 3,230m	7513044,079	621488,851	-22,48469092	-43,81902433
Rota 5 - Principal 3,230m	7513022,904	621485,85	-22,48488239	-43,81905187
Rota 5 - Principal 3,230m	7513002,705	621486,156	-22,48506481	-43,81904735
Rota 5 - Principal 3,230m	7512984,944	621490,241	-22,48522494	-43,81900629
Rota 5 - Principal 3,230m	7512969,498	621496,884	-22,48536398	-43,81894054
Rota 5 - Principal 3,230m	7512950,07	621507,088	-22,48553872	-43,81883987
Rota 5 - Principal 3,230m	7512930,205	621521,861	-22,48571709	-43,81869477
Rota 5 - Principal 3,230m	7512915,973	621538,501	-22,48584445	-43,81853195
Rota 5 - Principal 3,230m	7512899,797	621556,208	-22,48598929	-43,8183586
Rota 5 - Principal 3,230m	7512882,032	621577,556	-22,48614823	-43,81814975
Rota 5 - Principal 3,230m	7512862,539	621597,431	-22,48632287	-43,81795508
Rota 5 - Principal 3,230m	7512842,692	621615,903	-22,48650082	-43,81777403
Rota 5 - Principal 3,230m	7512819,895	621635,245	-22,48670535	-43,81758429
Rota 5 - Principal 3,230m	7512805,648	621644,092	-22,48683339	-43,8174972
Rota 5 - Principal 3,230m	7512789,613	621651,028	-22,48697773	-43,81742856
Rota 5 - Principal 3,230m	7512768,021	621658,993	-22,48717218	-43,81734949
Rota 5 - Principal 3,230m	7512751,151	621664,795	-22,48732414	-43,81729181
Rota 5 - Principal 3,230m	7512737,177	621666,309	-22,48745024	-43,81727602
Rota 5 - Principal 3,230m	7512717,024	621670,867	-22,48763195	-43,81723016
Rota 5 - Principal 3,230m	7512708,429	621667,48	-22,48770982	-43,81726242
Rota 5 - Principal 3,230m	7512702,191	621661,188	-22,48776661	-43,81732311
Rota 5 - Principal 3,230m	7512697,309	621652,099	-22,48781135	-43,81741107
Rota 5 - Principal 3,230m	7512687,82	621637,84	-22,48789807	-43,81754893
Rota 5 - Principal 3,230m	7512677,019	621619,178	-22,48799696	-43,81772949
Rota 5 - Principal 3,230m	7512647,01	621568,154	-22,48827164	-43,81822312
Rota 5 - Principal 3,230m	7512634,381	621551,34	-22,4883869	-43,81838557
Rota 5 - Principal 3,230m	7512625,481	621536,668	-22,48846833	-43,81852749
Rota 5 - Principal 3,230m	7512612,084	621521,939	-22,48859039	-43,81866962
Rota 5 - Principal 3,230m	7512603,098	621516,494	-22,48867193	-43,81872186
Rota 5 - Principal 3,230m	7512591,953	621513,749	-22,48877279	-43,81874768
Rota 5 - Principal 3,230m	7512534,121	621504,259	-22,48929582	-43,81883549
Rota 5 - Principal 3,230m	7512513,948	621502,387	-22,48947815	-43,81885214
Rota 5 - Principal 3,230m	7512497,611	621502,113	-22,48962573	-43,81885355
Rota 5 - Principal 3,230m	7512487,084	621503,973	-22,48972068	-43,81883466




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 3,230m	7512490,705	621521,249	-22,48968675	-43,81866702
Rota 5 - Principal 3,230m	7512499,646	621549,032	-22,489604	-43,81839767
Rota 5 - Principal 3,230m	7512507,953	621575,491	-22,4895271	-43,81814114
Rota 5 - Principal 3,230m	7512519,363	621606,74	-22,4894218	-43,81783828
Rota 5 - Principal 3,230m	7512525,755	621626,804	-22,48936264	-43,81764376
Rota 5 - Principal 3,230m	7512527,535	621633,437	-22,4893461	-43,81757943
Rota 5 - Principal 3,230m	7512517,215	621643,123	-22,48943861	-43,81748449
Rota 5 - Principal 3,230m	7512506,306	621651,299	-22,48953656	-43,81740419
Rota 5 - Principal 3,230m	7512493,91	621660,295	-22,48964788	-43,81731579
Rota 5 - Principal 3,230m	7512485,651	621668,84	-22,48972187	-43,81723211
Rota 5 - Principal 3,230m	7512476,107	621673,371	-22,48980775	-43,81718734
Rota 5 - Principal 3,230m	7512468,081	621673,68	-22,48988022	-43,81718372
Rota 5 - Rua EcolÃ³gica 555m	7512665,445	621599,12	-22,48810293	-43,81792355
Rota 5 - Rua EcolÃ³gica 555m	7512661,453	621602,999	-22,48813871	-43,81788554
Rota 5 - Rua EcolÃ³gica 555m	7512655,713	621609,405	-22,48819009	-43,81782284
Rota 5 - Rua EcolÃ³gica 555m	7512646,35	621617,559	-22,48827408	-43,81774287
Rota 5 - Rua EcolÃ³gica 555m	7512636,001	621625,125	-22,48836701	-43,81766854
Rota 5 - Rua EcolÃ³gica 555m	7512618,628	621637,863	-22,48852302	-43,8175434
Rota 5 - Rua EcolÃ³gica 555m	7512596,144	621653,394	-22,48872499	-43,81739071
Rota 5 - Rua EcolÃ³gica 555m	7512576,272	621667,845	-22,48890344	-43,81724874
Rota 5 - Rua EcolÃ³gica 555m	7512561,623	621679,458	-22,48903493	-43,81713474
Rota 5 - Rua EcolÃ³gica 555m	7512550,023	621687,675	-22,48913911	-43,81705399
Rota 5 - Rua EcolÃ³gica 555m	7512538,049	621695,213	-22,48924673	-43,81697979
Rota 5 - Rua EcolÃ³gica 555m	7512520,327	621704,232	-22,48940615	-43,81689077
Rota 5 - Rua EcolÃ³gica 555m	7512504,061	621711,608	-22,48955254	-43,81681783
Rota 5 - Rua EcolÃ³gica 555m	7512494,192	621718,056	-22,48964121	-43,8167544
Rota 5 - Rua EcolÃ³gica 555m	7512471,615	621734,04	-22,48984399	-43,81659731
Rota 5 - Rua EcolÃ³gica 555m	7512453,411	621746,149	-22,49000755	-43,81647822
Rota 5 - Rua EcolÃ³gica 555m	7512435,998	621757,928	-22,49016398	-43,81636239
Rota 5 - Rua EcolÃ³gica 555m	7512421,254	621767,424	-22,49029648	-43,81626896
Rota 5 - Rua EcolÃ³gica 555m	7512411,811	621775,848	-22,49038116	-43,81618636
Rota 5 - Rua EcolÃ³gica 555m	7512395,103	621795,758	-22,49053065	-43,81599155
Rota 5 - Rua EcolÃ³gica 555m	7512380,057	621817,727	-22,49066498	-43,81577687
Rota 5 - Rua EcolÃ³gica 555m	7512364,755	621841,893	-22,49080146	-43,81554081
Rota 5 - Rua EcolÃ³gica 555m	7512356,105	621853,076	-22,49087878	-43,81543145
Rota 5 - Rua EcolÃ³gica 555m	7512343,675	621866,486	-22,4909901	-43,81530015
Rota 5 - Rua EcolÃ³gica 555m	7512328,682	621883,654	-22,49112429	-43,81513213
Rota 5 - Rua EcolÃ³gica 555m	7512316,631	621894,773	-22,49123235	-43,81502313
Rota 5 - Rua EcolÃ³gica 555m	7512298,793	621912,842	-22,49139217	-43,81484613
Rota 5 - Rua EcolÃ³gica 555m	7512280,413	621926,53	-22,49155719	-43,81471168
Rota 5 - Rua EcolÃ³gica 555m	7512264,264	621938,119	-22,49170223	-43,81459778
Rota 5 - Rua EcolÃ³gica 555m	7512252,662	621945,094	-22,49180652	-43,8145291
Rota 5 - Rua EcolÃ³gica 555m	7512242,65	621948,154	-22,49189673	-43,81449859


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Igreja 194m	7512468,094	621673,615	-22,4898801	-43,81718435
Rota 5 - Igreja 194m	7512462,084	621671,124	-22,48993457	-43,8172081
Rota 5 - Igreja 194m	7512449,39	621661,832	-22,49004988	-43,81729744
Rota 5 - Igreja 194m	7512440,537	621653,053	-22,49013047	-43,81738209
Rota 5 - Igreja 194m	7512436,604	621646,772	-22,49016644	-43,81744284
Rota 5 - Igreja 194m	7512427,205	621626,425	-22,49025279	-43,81763988
Rota 5 - Igreja 194m	7512423,143	621616,98	-22,49029014	-43,81773137
Rota 5 - Igreja 194m	7512418,331	621607,729	-22,49033426	-43,81782092
Rota 5 - Igreja 194m	7512415,761	621603,085	-22,49035781	-43,81786586
Rota 5 - Igreja 194m	7512394,528	621573,106	-22,49055173	-43,81815562
Rota 5 - Igreja 194m	7512387,811	621568,307	-22,49061274	-43,81820175
Rota 5 - Igreja 194m	7512373,646	621560,837	-22,49074121	-43,81827326
Rota 5 - Igreja 194m	7512363,975	621557,986	-22,49082876	-43,81830023
Rota 5 - Igreja 194m	7512355,555	621553,073	-22,49090516	-43,81834734
Rota 5 - Igreja 194m	7512343,196	621543,266	-22,49101749	-43,81844171
Rota 5 - Igreja 194m	7512338,351	621539,197	-22,49106154	-43,8184809
Rota 5 - Principal 15,216m	7512527,526	621633,428	-22,48934618	-43,81757951
Rota 5 - Principal 15,216m	7512539,39	621625,991	-22,48923955	-43,81765271
Rota 5 - Principal 15,216m	7512554,288	621614,709	-22,4891058	-43,81776351
Rota 5 - Principal 15,216m	7512565,045	621606,257	-22,48900924	-43,81784648
Rota 5 - Principal 15,216m	7512575,852	621597,961	-22,48891222	-43,81792795
Rota 5 - Principal 15,216m	7512635,565	621552,876	-22,4883761	-43,81837073
Rota 5 - Principal 15,216m	7512649,261	621542,515	-22,48825313	-43,81847248
Rota 5 - Principal 15,216m	7512682,578	621514,956	-22,48795418	-43,8187429
Rota 5 - Principal 15,216m	7512702,143	621501,424	-22,48777843	-43,81887592
Rota 5 - Principal 15,216m	7512726,911	621483,718	-22,48755598	-43,81904992
Rota 5 - Principal 15,216m	7512763,033	621460,096	-22,48723141	-43,81928228
Rota 5 - Principal 15,216m	7512779,554	621453,24	-22,48708268	-43,81935018
Rota 5 - Principal 15,216m	7512838,656	621425,545	-22,48655083	-43,81962388
Rota 5 - Principal 15,216m	7512912,236	621403,679	-22,4858878	-43,81984204
Rota 5 - Principal 15,216m	7512968,016	621394,97	-22,48538462	-43,81993096
Rota 5 - Principal 15,216m	7513011,94	621391,691	-22,48498812	-43,81996619
Rota 5 - Principal 15,216m	7513051,925	621393,734	-22,48462683	-43,8199494
Rota 5 - Principal 15,216m	7513085,513	621394,483	-22,4843234	-43,81994469
Rota 5 - Principal 15,216m	7513100,163	621395,698	-22,484191	-43,819934
Rota 5 - Principal 15,216m	7513128,205	621394,662	-22,48393779	-43,81994622
Rota 5 - Principal 15,216m	7513190,882	621400,94	-22,48337124	-43,81989
Rota 5 - Principal 15,216m	7513251,728	621404,67	-22,4828214	-43,81985841
Rota 5 - Principal 15,216m	7513267,559	621406,752	-22,48267827	-43,81983939
Rota 5 - Principal 15,216m	7513267,559	621406,752	-22,48267827	-43,81983939
Rota 5 - Principal 15,216m	7513268,314	621397,011	-22,48267214	-43,81993411
Rota 5 - Principal 15,216m	7513270,964	621381,367	-22,48264933	-43,82008636
Rota 5 - Principal 15,216m	7513278,034	621369,77	-22,4825863	-43,82019961


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7513278,414	621360,81	-22,4825835	-43,82028674
Rota 5 - Principal 15,216m	7513276,847	621347,855	-22,48259857	-43,82041252
Rota 5 - Principal 15,216m	7513276,546	621342,945	-22,48260164	-43,82046022
Rota 5 - Principal 15,216m	7513279,382	621336,301	-22,4825765	-43,82052502
Rota 5 - Principal 15,216m	7513287,49	621326,77	-22,48250394	-43,82061827
Rota 5 - Principal 15,216m	7513294,345	621316,7	-22,48244274	-43,82071666
Rota 5 - Principal 15,216m	7513292,952	621310,636	-22,48245575	-43,82077549
Rota 5 - Principal 15,216m	7513289,448	621296,953	-22,48248838	-43,82090821
Rota 5 - Principal 15,216m	7513285,268	621286,234	-22,48252689	-43,82101207
Rota 5 - Principal 15,216m	7513278,207	621259,021	-22,4825926	-43,82127602
Rota 5 - Principal 15,216m	7513272,819	621234,504	-22,48264301	-43,82151389
Rota 5 - Principal 15,216m	7513270,033	621218,158	-22,48266933	-43,82167255
Rota 5 - Principal 15,216m	7513268,878	621209,321	-22,4826804	-43,82175834
Rota 5 - Principal 15,216m	7513268,878	621209,321	-22,4826804	-43,82175834
Rota 5 - Principal 15,216m	7513264,675	621200,693	-22,48271897	-43,82184188
Rota 5 - Principal 15,216m	7513263,233	621194,969	-22,4827324	-43,8218974
Rota 5 - Principal 15,216m	7513263,097	621186,447	-22,48273424	-43,82198021
Rota 5 - Principal 15,216m	7513269,381	621183,075	-22,48267771	-43,82201347
Rota 5 - Principal 15,216m	7513277,295	621187,909	-22,48260589	-43,82196709
Rota 5 - Principal 15,216m	7513287,33	621190,781	-22,48251505	-43,82193994
Rota 5 - Principal 15,216m	7513294,368	621192,073	-22,48245139	-43,82192792
Rota 5 - Principal 15,216m	7513299,898	621202,803	-22,48240068	-43,82182406
Rota 5 - Principal 15,216m	7513299,592	621212,643	-22,48240275	-43,82172841
Rota 5 - Principal 15,216m	7513300,738	621222,914	-22,48239167	-43,82162867
Rota 5 - Principal 15,216m	7513303,464	621234,782	-22,4823662	-43,82151352
Rota 5 - Principal 15,216m	7513310,602	621244,303	-22,48230105	-43,82142154
Rota 5 - Principal 15,216m	7513321,904	621267,542	-22,48219732	-43,82119654
Rota 5 - Principal 15,216m	7513327,508	621292,86	-22,4821449	-43,82095091
Rota 5 - Principal 15,216m	7513327,773	621314,9	-22,48214095	-43,82073671
Rota 5 - Principal 15,216m	7513318,206	621331,756	-22,48222616	-43,82057215
Rota 5 - Principal 15,216m	7513311,832	621344,393	-22,48228283	-43,82044885
Rota 5 - Principal 15,216m	7513305,196	621366,828	-22,48234117	-43,82023029
Rota 5 - Principal 15,216m	7513309,974	621387,259	-22,48229657	-43,82003209
Rota 5 - Principal 15,216m	7513316,192	621399,007	-22,48223957	-43,81991838
Rota 5 - Principal 15,216m	7513339,365	621401,873	-22,48203006	-43,8198923
Rota 5 - Principal 15,216m	7513354,701	621402,788	-22,48189148	-43,81988458
Rota 5 - Principal 15,216m	7513374,337	621398,285	-22,48171445	-43,81992985
Rota 5 - Principal 15,216m	7513387,693	621396,524	-22,48159394	-43,81994799
Rota 5 - Principal 15,216m	7513399,217	621394,199	-22,48149002	-43,81997147
Rota 5 - Principal 15,216m	7513412,175	621389,124	-22,48137334	-43,82002178
Rota 5 - Principal 15,216m	7513433,348	621380,09	-22,48118274	-43,8201112
Rota 5 - Principal 15,216m	7513450,312	621375,734	-22,48102984	-43,82015484
Rota 5 - Principal 15,216m	7513468,469	621367,613	-22,48086641	-43,82023516


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7513483,311	621356,537	-22,48073315	-43,82034395
Rota 5 - Principal 15,216m	7513497,969	621347,291	-22,48060142	-43,82043492
Rota 5 - Principal 15,216m	7513507,136	621342,922	-22,48051892	-43,82047809
Rota 5 - Principal 15,216m	7513517,308	621337,969	-22,4804274	-43,82052701
Rota 5 - Principal 15,216m	7513528,214	621329,842	-22,48032948	-43,82060683
Rota 5 - Principal 15,216m	7513554,122	621315,586	-22,48009649	-43,82074736
Rota 5 - Principal 15,216m	7513579,432	621302,639	-22,47986881	-43,82087513
Rota 5 - Principal 15,216m	7513608,352	621286,655	-22,47960873	-43,82103269
Rota 5 - Principal 15,216m	7513630,393	621276,365	-22,47941039	-43,82113438
Rota 5 - Principal 15,216m	7513659,034	621267,007	-22,47915236	-43,82122752
Rota 5 - Principal 15,216m	7513681,949	621264,806	-22,47894555	-43,82125067
Rota 5 - Principal 15,216m	7513712,257	621263,714	-22,47867188	-43,82126359
Rota 5 - Principal 15,216m	7513750,819	621263,756	-22,47832359	-43,82126613
Rota 5 - Principal 15,216m	7513780,706	621270,693	-22,47805314	-43,821201
Rota 5 - Principal 15,216m	7513815,028	621283,343	-22,47774225	-43,82108068
Rota 5 - Principal 15,216m	7513852,071	621300,22	-22,47740647	-43,82091949
Rota 5 - Principal 15,216m	7513879,264	621317,811	-22,47715961	-43,82075061
Rota 5 - Principal 15,216m	7513879,264	621317,811	-22,47715961	-43,82075061
Rota 5 - Principal 15,216m	7513908,114	621338,473	-22,47689756	-43,82055201
Rota 5 - Principal 15,216m	7513935,038	621347,45	-22,47665375	-43,82046682
Rota 5 - Principal 15,216m	7513976,74	621357,505	-22,47627637	-43,82037228
Rota 5 - Principal 15,216m	7513997,682	621357,571	-22,47608722	-43,82037325
Rota 5 - Principal 15,216m	7514023,251	621352,933	-22,47585661	-43,82042029
Rota 5 - Principal 15,216m	7514041,46	621347,539	-22,47569253	-43,8204741
Rota 5 - Principal 15,216m	7514052,037	621341,722	-22,4755974	-43,82053143
Rota 5 - Principal 15,216m	7514059,67	621335,501	-22,47552891	-43,82059248
Rota 5 - Principal 15,216m	7514067,76	621327,014	-22,47545644	-43,82067558
Rota 5 - Principal 15,216m	7514101,991	621297,932	-22,47514933	-43,82096084
Rota 5 - Principal 15,216m	7514127,495	621275,416	-22,47492057	-43,82118161
Rota 5 - Principal 15,216m	7514153,013	621251,738	-22,47469177	-43,82141368
Rota 5 - Principal 15,216m	7514159,868	621245,069	-22,47463033	-43,82147901
Rota 5 - Principal 15,216m	7514160,821	621239,324	-22,47462213	-43,82153493
Rota 5 - Principal 15,216m	7514156,743	621229,827	-22,47465964	-43,82162691
Rota 5 - Principal 15,216m	7514150,553	621212,816	-22,47471675	-43,82179176
Rota 5 - Principal 15,216m	7514157,212	621209,421	-22,47465686	-43,82182526
Rota 5 - Principal 15,216m	7514172,535	621202,607	-22,47451894	-43,82189265
Rota 5 - Principal 15,216m	7514191,695	621190,875	-22,47434672	-43,82200814
Rota 5 - Principal 15,216m	7514205,975	621180,999	-22,47421843	-43,8221052
Rota 5 - Principal 15,216m	7514240,494	621151,275	-22,47390877	-43,82239672
Rota 5 - Principal 15,216m	7514257,295	621135,167	-22,47375816	-43,82255455
Rota 5 - Principal 15,216m	7514272,464	621121,044	-22,47362215	-43,82269296
Rota 5 - Principal 15,216m	7514325,155	621073,374	-22,47314963	-43,82316026
Rota 5 - Principal 15,216m	7514356,372	621052,93	-22,47286912	-43,82336132


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7514383,87	621034,613	-22,47262205	-43,82354144
Rota 5 - Principal 15,216m	7514400,331	621018,765	-22,4724745	-43,82369671
Rota 5 - Principal 15,216m	7514410,04	621010,405	-22,47238739	-43,8237787
Rota 5 - Principal 15,216m	7514417,381	621002,337	-22,47232166	-43,82385767
Rota 5 - Principal 15,216m	7514424,365	620989,646	-22,47225948	-43,82398154
Rota 5 - Principal 15,216m	7514420,525	620982,397	-22,47229468	-43,82405169
Rota 5 - Principal 15,216m	7514412,824	620974,683	-22,47236478	-43,82412607
Rota 5 - Principal 15,216m	7514406,952	620969,948	-22,47241816	-43,82417164
Rota 5 - Principal 15,216m	7514400,658	620960,595	-22,47247566	-43,82426206
Rota 5 - Principal 15,216m	7514400,371	620955,358	-22,47247863	-43,82431293
Rota 5 - Principal 15,216m	7514404,448	620950,609	-22,47244214	-43,8243594
Rota 5 - Principal 15,216m	7514411,608	620942,283	-22,47237806	-43,82444086
Rota 5 - Principal 15,216m	7514420,297	620932,318	-22,47230029	-43,82453837
Rota 5 - Principal 15,216m	7514431,406	620919,236	-22,47220087	-43,82466635
Rota 5 - Principal 15,216m	7514447,842	620899,493	-22,47205383	-43,82485947
Rota 5 - Principal 15,216m	7514456,262	620886,123	-22,47197872	-43,82499005
Rota 5 - Principal 15,216m	7514460,499	620872,814	-22,47194139	-43,82511971
Rota 5 - Principal 15,216m	7514461,187	620867,833	-22,47193553	-43,82516817
Rota 5 - Principal 15,216m	7514459,729	620858,972	-22,47194933	-43,82525418
Rota 5 - Principal 15,216m	7514421,14	620789,53	-22,47230279	-43,82592611
Rota 5 - Principal 15,216m	7514397,715	620759,84	-22,47251646	-43,82621286
Rota 5 - Principal 15,216m	7514362,888	620728,549	-22,47283324	-43,82651431
Rota 5 - Principal 15,216m	7514347,816	620713,443	-22,47297043	-43,82665997
Rota 5 - Principal 15,216m	7514326,991	620703,057	-22,47315927	-43,82675933
Rota 5 - Principal 15,216m	7514314,61	620698,726	-22,4732714	-43,82680048
Rota 5 - Principal 15,216m	7514297,871	620692,471	-22,47342303	-43,82685999
Rota 5 - Principal 15,216m	7514281,15	620686,654	-22,47357446	-43,82691525
Rota 5 - Principal 15,216m	7514258,615	620674,588	-22,47377886	-43,8270308
Rota 5 - Principal 15,216m	7514235,012	620661,236	-22,47399299	-43,82715877
Rota 5 - Principal 15,216m	7514223,609	620656,742	-22,4740963	-43,82720157
Rota 5 - Principal 15,216m	7514212,149	620651,813	-22,47420016	-43,82724861
Rota 5 - Principal 15,216m	7514176,561	620658,344	-22,47452114	-43,82718242
Rota 5 - Principal 15,216m	7514168,901	620660,582	-22,47459016	-43,82716009
Rota 5 - Principal 15,216m	7514156,52	620661,721	-22,4747019	-43,82714808
Rota 5 - Principal 15,216m	7514147,313	620662,855	-22,47478498	-43,82713636
Rota 5 - Principal 15,216m	7514135,103	620661,042	-22,47489539	-43,82715305
Rota 5 - Principal 15,216m	7514117,189	620652,008	-22,47505783	-43,82723949
Rota 5 - Principal 15,216m	7514124,619	620644,246	-22,47499127	-43,82731549
Rota 5 - Principal 15,216m	7514132,298	620636,24	-22,47492248	-43,82739388
Rota 5 - Principal 15,216m	7514138,64	620631,488	-22,47486554	-43,82744055
Rota 5 - Principal 15,216m	7514146,674	620624,129	-22,47479349	-43,82751268
Rota 5 - Principal 15,216m	7514152,773	620615,803	-22,47473899	-43,82759406
Rota 5 - Principal 15,216m	7514159,118	620610,03	-22,47468209	-43,82765065


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7514163,551	620604,396	-22,47464245	-43,82770573
Rota 5 - Principal 15,216m	7514165,971	620600,993	-22,47462083	-43,82773899
Rota 5 - Principal 15,216m	7514157,883	620593,296	-22,47469443	-43,82781318
Rota 5 - Principal 15,216m	7514143,029	620579,738	-22,47482955	-43,82794382
Rota 5 - Principal 15,216m	7514137,378	620579,379	-22,47488061	-43,82794688
Rota 5 - Principal 15,216m	7514129,921	620585,378	-22,47494755	-43,82788801
Rota 5 - Principal 15,216m	7514119,365	620594,175	-22,47504227	-43,82780171
Rota 5 - Principal 15,216m	7514109,339	620602,206	-22,47513225	-43,82772289
Rota 5 - Principal 15,216m	7514099,112	620611,612	-22,47522396	-43,8276307
Rota 5 - Principal 15,216m	7514099,112	620611,612	-22,47522396	-43,8276307
Rota 5 - Principal 15,216m	7514092,998	620618,263	-22,47527872	-43,8275656
Rota 5 - Principal 15,216m	7514084,28	620614,3	-22,47535774	-43,82760345
Rota 5 - Principal 15,216m	7514079,611	620606,988	-22,47540043	-43,82767416
Rota 5 - Principal 15,216m	7514069,262	620589,713	-22,47549512	-43,82784126
Rota 5 - Principal 15,216m	7514054,241	620566,205	-22,47563245	-43,82806859
Rota 5 - Principal 15,216m	7514026,128	620530,938	-22,47588887	-43,82840921
Rota 5 - Principal 15,216m	7514008,828	620509,739	-22,47604662	-43,82861391
Rota 5 - Principal 15,216m	7514001,497	620499,848	-22,47611353	-43,82870948
Rota 5 - Principal 15,216m	7513991,99	620455,32	-22,47620254	-43,82914152
Rota 5 - Principal 15,216m	7513986,875	620446,658	-22,47624935	-43,82922531
Rota 5 - Principal 15,216m	7513968,394	620426,444	-22,47641771	-43,82942036
Rota 5 - Principal 15,216m	7513959,421	620417,383	-22,47649939	-43,82950774
Rota 5 - Principal 15,216m	7513947,463	620404,46	-22,47660831	-43,82963243
Rota 5 - Principal 15,216m	7513942,636	620399,249	-22,47665227	-43,82968271
Rota 5 - Principal 15,216m	7513927,529	620385,113	-22,47678972	-43,82981895
Rota 5 - Principal 15,216m	7513915,693	620373,992	-22,47689741	-43,82992614
Rota 5 - Principal 15,216m	7513896,415	620363,891	-22,47707224	-43,83002284
Rota 5 - Principal 15,216m	7513881,425	620355,04	-22,47720826	-43,83010772
Rota 5 - Principal 15,216m	7513847,694	620333,675	-22,47751443	-43,83031281
Rota 5 - Principal 15,216m	7513831,78	620326,463	-22,47765867	-43,83038169
Rota 5 - Principal 15,216m	7513823,478	620321,011	-22,47773404	-43,83043405
Rota 5 - Principal 15,216m	7513814,524	620309,636	-22,47781572	-43,83054392
Rota 5 - Principal 15,216m	7513807,857	620294,361	-22,47787701	-43,83069186
Rota 5 - Principal 15,216m	7513799,906	620283,712	-22,47794957	-43,83079476
Rota 5 - Principal 15,216m	7513785,354	620261,266	-22,4780826	-43,83101181
Rota 5 - Principal 15,216m	7513769,837	620246,16	-22,47822381	-43,83115744
Rota 5 - Principal 15,216m	7513752,512	620227,41	-22,47838162	-43,83133836
Rota 5 - Principal 15,216m	7513714,248	620188,266	-22,47872997	-43,8317159
Rota 5 - Principal 15,216m	7513657,644	620126,289	-22,4792456	-43,83231395
Rota 5 - Principal 15,216m	7513642,641	620112,863	-22,47938205	-43,83244331
Rota 5 - Principal 15,216m	7513626,856	620097,732	-22,47952568	-43,83258917
Rota 5 - Principal 15,216m	7513610,206	620077,946	-22,47967747	-43,8327802
Rota 5 - Principal 15,216m	7513568,242	620030,376	-22,48005983	-43,83323937

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7513553,588	620006,987	-22,48019384	-43,83346557
Rota 5 - Principal 15,216m	7513523,851	619950,268	-22,48046642	-43,83401457
Rota 5 - Principal 15,216m	7513511,495	619928,24	-22,48057957	-43,83422773
Rota 5 - Principal 15,216m	7513493,969	619906,768	-22,48073937	-43,83443509
Rota 5 - Principal 15,216m	7513467,545	619875,293	-22,48098025	-43,834739
Rota 5 - Principal 15,216m	7513443,968	619829,704	-22,4811964	-43,8351803
Rota 5 - Principal 15,216m	7513429,481	619804,137	-22,48132905	-43,83542769
Rota 5 - Principal 15,216m	7513409,414	619774,239	-22,48151239	-43,83571676
Rota 5 - Principal 15,216m	7513388,205	619742,886	-22,48170616	-43,83601988
Rota 5 - Principal 15,216m	7513366,946	619703,832	-22,48190091	-43,83639785
Rota 5 - Principal 15,216m	7513314,121	619620,955	-22,48238385	-43,83719936
Rota 5 - Principal 15,216m	7513298,545	619595,14	-22,48252635	-43,83744909
Rota 5 - Principal 15,216m	7513284,601	619583,061	-22,48265314	-43,83756543
Rota 5 - Principal 15,216m	7513272,935	619579,588	-22,48275875	-43,83759831
Rota 5 - Principal 15,216m	7513255,565	619586,918	-22,48291512	-43,83752576
Rota 5 - Principal 15,216m	7513242,476	619601,588	-22,48303231	-43,83738218
Rota 5 - Principal 15,216m	7513240,694	619621,498	-22,48304701	-43,83718854
Rota 5 - Principal 15,216m	7513255,306	619629,814	-22,48291445	-43,83710882
Rota 5 - Principal 15,216m	7513278,51	619628,02	-22,48270499	-43,837128
Rota 5 - Principal 15,216m	7513297,857	619627,828	-22,48253027	-43,83713133
Rota 5 - Principal 15,216m	7513313,693	619630,785	-22,48238702	-43,83710379
Rota 5 - Principal 15,216m	7513343,402	619634,916	-22,4821184	-43,83706588
Rota 5 - Principal 15,216m	7513386,051	619642,622	-22,48173264	-43,8369942
Rota 5 - Principal 15,216m	7513406,975	619650,305	-22,48154312	-43,83692111
Rota 5 - Principal 15,216m	7513416,188	619665,685	-22,48145882	-43,83677233
Rota 5 - Principal 15,216m	7513422,618	619681,656	-22,48139963	-43,83661759
Rota 5 - Principal 15,216m	7513423,427	619686,468	-22,48139198	-43,83657087
Rota 5 - Principal 15,216m	7513420,792	619713,805	-22,48141387	-43,83630498
Rota 5 - Principal 15,216m	7513425,224	619750,166	-22,48137128	-43,83595193
Rota 5 - Principal 15,216m	7513449,802	619786,446	-22,48114674	-43,83560117
Rota 5 - Principal 15,216m	7513488,325	619857,222	-22,48079383	-43,83491621
Rota 5 - Principal 15,216m	7513514,143	619891,451	-22,48055824	-43,83458549
Rota 5 - Principal 15,216m	7513547,372	619937,455	-22,48025487	-43,83414088
Rota 5 - Principal 15,216m	7513574,744	619976,652	-22,48000488	-43,833762
Rota 5 - Principal 15,216m	7513618,639	620027,811	-22,47960482	-43,83326811
Rota 5 - Principal 15,216m	7513681,828	620097,912	-22,47902916	-43,83259158
Rota 5 - Principal 15,216m	7513737,685	620158,835	-22,47852037	-43,83200371
Rota 5 - Principal 15,216m	7513796,52	620218,257	-22,47798477	-43,83143065
Rota 5 - Principal 15,216m	7513863,805	620280,31	-22,47737267	-43,83083267
Rota 5 - Principal 15,216m	7513916,56	620338,287	-22,4768921	-43,83027321
Rota 5 - Principal 15,216m	7513999,642	620417,145	-22,47613612	-43,82951311
Rota 5 - Principal 15,216m	7514083,731	620495,99	-22,47537105	-43,82875323
Rota 5 - Principal 15,216m	7514159,478	620570,431	-22,47468164	-43,82803551

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7514217,501	620607,704	-22,47415494	-43,82767769
Rota 5 - Principal 15,216m	7514321,037	620664,083	-22,4732158	-43,82713764
Rota 5 - Principal 15,216m	7514372,598	620692,273	-22,4727481	-43,8268676
Rota 5 - Principal 15,216m	7514475,009	620703,341	-22,47182233	-43,82676782
Rota 5 - Principal 15,216m	7514469,312	620721,315	-22,47187251	-43,82659271
Rota 5 - Principal 15,216m	7514463,297	620738,977	-22,47192559	-43,82642061
Rota 5 - Principal 15,216m	7514452,955	620769,594	-22,47201684	-43,82612228
Rota 5 - Principal 15,216m	7514435,409	620779,184	-22,47217463	-43,82602774
Rota 5 - Principal 15,216m	7514417,83	620786,503	-22,47233289	-43,82595527
Rota 5 - Principal 15,216m	7514405,079	620768,66	-22,47244932	-43,82612771
Rota 5 - Principal 15,216m	7514381,485	620744,134	-22,47266416	-43,82636426
Rota 5 - Principal 15,216m	7514356,007	620721,221	-22,4728959	-43,826585
Rota 5 - Principal 15,216m	7514345,569	620711,097	-22,47299089	-43,8266826
Rota 5 - Principal 15,216m	7514329,857	620704,569	-22,47313327	-43,82674485
Rota 5 - Principal 15,216m	7514285,794	620688,734	-22,47353237	-43,82689538
Rota 5 - Principal 15,216m	7514252,338	620679,789	-22,47383519	-43,82697978
Rota 5 - Principal 15,216m	7514230,098	620673,565	-22,4740365	-43,82703857
Rota 5 - Principal 15,216m	7514213,36	620668,084	-22,47418807	-43,82709057
Rota 5 - Principal 15,216m	7514204,516	620669,827	-22,47426783	-43,82707296
Rota 5 - Principal 15,216m	7514196,216	620678,869	-22,47434215	-43,82698444
Rota 5 - Principal 15,216m	7514194,08	620692,553	-22,47436048	-43,8268513
Rota 5 - Principal 15,216m	7514201,669	620704,965	-22,47429106	-43,82673125
Rota 5 - Principal 15,216m	7514214,404	620717,278	-22,47417516	-43,82661255
Rota 5 - Principal 15,216m	7514225,329	620731,692	-22,47407547	-43,8264733
Rota 5 - Principal 15,216m	7514230,635	620745,016	-22,4740266	-43,82634422
Rota 5 - Principal 15,216m	7514234,353	620759,142	-22,47399202	-43,82620721
Rota 5 - Principal 15,216m	7514227,328	620771,244	-22,47405461	-43,82608907
Rota 5 - Principal 15,216m	7514216,26	620775,75	-22,47415426	-43,82604442
Rota 5 - Principal 15,216m	7514197,973	620776,042	-22,47431941	-43,82604019
Rota 5 - Principal 15,216m	7514180,361	620773,686	-22,47447865	-43,82606176
Rota 5 - Principal 15,216m	7514169,262	620776,983	-22,47457866	-43,82602887
Rota 5 - Principal 15,216m	7514146,029	620785,867	-22,47478788	-43,82594076
Rota 5 - Principal 15,216m	7514146,029	620785,867	-22,47478788	-43,82594076
Rota 5 - Principal 15,216m	7514134,187	620790,715	-22,4748945	-43,82589274
Rota 5 - Principal 15,216m	7514123,601	620786,219	-22,47499043	-43,82593563
Rota 5 - Principal 15,216m	7514112,97	620774,825	-22,47508725	-43,82604555
Rota 5 - Principal 15,216m	7514104,389	620768,729	-22,47516519	-43,82610414
Rota 5 - Principal 15,216m	7514098,18	620768,212	-22,47522131	-43,8261087
Rota 5 - Principal 15,216m	7514087,09	620771,097	-22,47532127	-43,82607981
Rota 5 - Principal 15,216m	7514080,967	620774,887	-22,47537631	-43,82604252
Rota 5 - Principal 15,216m	7514070,605	620786,16	-22,4754691	-43,82593217
Rota 5 - Principal 15,216m	7514058,377	620799,969	-22,47557857	-43,82579703
Rota 5 - Principal 15,216m	7514047,962	620813,295	-22,4756717	-43,82566673




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7514041,074	620819,886	-22,47573344	-43,82560215
Rota 5 - Principal 15,216m	7514031,427	620823,021	-22,47582035	-43,82557095
Rota 5 - Principal 15,216m	7514015,636	620827,98	-22,47596263	-43,82552154
Rota 5 - Principal 15,216m	7514002,466	620824,82	-22,47608181	-43,82555125
Rota 5 - Principal 15,216m	7513993,526	620818,082	-22,47616303	-43,82561606
Rota 5 - Principal 15,216m	7513984,567	620805,982	-22,47624481	-43,82573297
Rota 5 - Principal 15,216m	7513975,505	620791,234	-22,4763277	-43,82587562
Rota 5 - Principal 15,216m	7513969,127	620780,127	-22,47638609	-43,82598307
Rota 5 - Principal 15,216m	7513947,675	620789,058	-22,47657921	-43,82589464
Rota 5 - Principal 15,216m	7513938,141	620796,316	-22,47666482	-43,82582337
Rota 5 - Principal 15,216m	7513910,938	620812,813	-22,47690935	-43,82566098
Rota 5 - Principal 15,216m	7513895,999	620822,84	-22,47704357	-43,82556239
Rota 5 - Principal 15,216m	7513879,777	620832,456	-22,47718941	-43,82546769
Rota 5 - Principal 15,216m	7513867,804	620835,099	-22,47729736	-43,82544411
Rota 5 - Principal 15,216m	7513861,069	620829,068	-22,47735862	-43,8254992
Rota 5 - Principal 15,216m	7513852,445	620815,034	-22,47743751	-43,82563493
Rota 5 - Principal 15,216m	7513836,504	620794,469	-22,47758295	-43,82583358
Rota 5 - Principal 15,216m	7513815,744	620774,603	-22,47777186	-43,82602508
Rota 5 - Principal 15,216m	7513805,647	620759,835	-22,4778641	-43,82616784
Rota 5 - Principal 15,216m	7513790,772	620741,041	-22,47799978	-43,82634937
Rota 5 - Principal 15,216m	7513771,83	620723,646	-22,4781721	-43,82651698
Rota 5 - Principal 15,216m	7513736,976	620705,256	-22,4784882	-43,82669305
Rota 5 - Principal 15,216m	7513722,286	620705,513	-22,47862087	-43,82668944
Rota 5 - Principal 15,216m	7513713,17	620708,637	-22,47870299	-43,82665839
Rota 5 - Principal 15,216m	7513698,49	620714,407	-22,47883517	-43,82660119
Rota 5 - Principal 15,216m	7513681,816	620716,538	-22,47898562	-43,82657921
Rota 5 - Principal 15,216m	7513664,938	620719,814	-22,47913783	-43,82654609
Rota 5 - Principal 15,216m	7513648,997	620725,694	-22,4792814	-43,82648773
Rota 5 - Principal 15,216m	7513635,479	620733,883	-22,47940291	-43,8264071
Rota 5 - Principal 15,216m	7513621,474	620742,245	-22,47952882	-43,82632477
Rota 5 - Principal 15,216m	7513610,183	620752,583	-22,47963007	-43,82622343
Rota 5 - Principal 15,216m	7513597,805	620768,921	-22,47974071	-43,8260637
Rota 5 - Principal 15,216m	7513583,032	620796,83	-22,47987217	-43,82579134
Rota 5 - Principal 15,216m	7513571,214	620818,412	-22,47997738	-43,82558068
Rota 5 - Principal 15,216m	7513558,195	620832,333	-22,48009399	-43,8254444
Rota 5 - Principal 15,216m	7513546,614	620840,374	-22,48019802	-43,82536536
Rota 5 - Principal 15,216m	7513531,395	620839,672	-22,48033553	-43,82537103
Rota 5 - Principal 15,216m	7513512,866	620832,094	-22,48050342	-43,82544326
Rota 5 - Principal 15,216m	7513482,904	620820,892	-22,48077484	-43,82554985
Rota 5 - Principal 15,216m	7513465,712	620813,179	-22,48093066	-43,82562351
Rota 5 - Principal 15,216m	7513452,275	620807,043	-22,48105246	-43,82568211
Rota 5 - Principal 15,216m	7513430,507	620787,548	-22,48125045	-43,82586993
Rota 5 - Principal 15,216m	7513413,306	620775,736	-22,48140665	-43,82598342


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7513407,171	620763,503	-22,48146293	-43,82610184
Rota 5 - Principal 15,216m	7513396,444	620739,986	-22,48156148	-43,82632959
Rota 5 - Principal 15,216m	7513392,205	620721,398	-22,48160108	-43,82650993
Rota 5 - Principal 15,216m	7513400,245	620696,995	-22,48153019	-43,82674772
Rota 5 - Principal 15,216m	7513399,947	620684,442	-22,48153377	-43,8268697
Rota 5 - Principal 15,216m	7513403,471	620675,151	-22,48150259	-43,82696026
Rota 5 - Principal 15,216m	7513411,697	620663,801	-22,4814291	-43,8270712
Rota 5 - Principal 15,216m	7513423,93	620655,025	-22,48131923	-43,82715743
Rota 5 - Principal 15,216m	7513455,922	620646,543	-22,48103087	-43,8272423
Rota 5 - Principal 15,216m	7513468,471	620638,156	-22,48091812	-43,82732477
Rota 5 - Principal 15,216m	7513472,776	620628,869	-22,4808799	-43,82741535
Rota 5 - Principal 15,216m	7513474,479	620618,938	-22,48086521	-43,827512
Rota 5 - Principal 15,216m	7513473,138	620608,091	-22,48087809	-43,82761733
Rota 5 - Principal 15,216m	7513470,858	620601,48	-22,48089916	-43,82768141
Rota 5 - Principal 15,216m	7513485,121	620599,772	-22,48077045	-43,82769909
Rota 5 - Principal 15,216m	7513509,157	620598,454	-22,48055345	-43,82771373
Rota 5 - Principal 15,216m	7513528,53	620597,232	-22,48037855	-43,82772708
Rota 5 - Principal 15,216m	7513548,684	620597,551	-22,4801965	-43,82772551
Rota 5 - Principal 15,216m	7513563,181	620600,844	-22,48006533	-43,82769461
Rota 5 - Principal 15,216m	7513584,265	620614,191	-22,47987395	-43,82756649
Rota 5 - Principal 15,216m	7513603,622	620645,728	-22,47969689	-43,82726146
Rota 5 - Principal 15,216m	7513606,686	620655,011	-22,47966855	-43,82717147
Rota 5 - Principal 15,216m	7513606,686	620655,011	-22,47966855	-43,82717147
Rota 5 - Principal 15,216m	7513615,1	620667,705	-22,47959166	-43,82704873
Rota 5 - Principal 15,216m	7513625,229	620675,125	-22,47949965	-43,82697739
Rota 5 - Principal 15,216m	7513648,922	620679,307	-22,47928535	-43,82693855
Rota 5 - Principal 15,216m	7513666,93	620674,928	-22,47912301	-43,82698248
Rota 5 - Principal 15,216m	7513675,906	620669,325	-22,47904234	-43,82703762
Rota 5 - Principal 15,216m	7513683,578	620658,832	-22,47897379	-43,82714018
Rota 5 - Principal 15,216m	7513697,106	620645,336	-22,47885255	-43,82727238
Rota 5 - Principal 15,216m	7513712,361	620641,221	-22,47871506	-43,82731353
Rota 5 - Principal 15,216m	7513727,232	620642,405	-22,47858066	-43,82730316
Rota 5 - Principal 15,216m	7513739,85	620646,603	-22,47846639	-43,82726331
Rota 5 - Principal 15,216m	7513756,149	620649,87	-22,47831895	-43,82723281
Rota 5 - Principal 15,216m	7513786,81	620644,174	-22,47804242	-43,82729049
Rota 5 - Principal 15,216m	7513802,84	620642,73	-22,47789773	-43,82730575
Rota 5 - Principal 15,216m	7513812,408	620648,592	-22,4778109	-43,82724951
Rota 5 - Principal 15,216m	7513818,431	620659,703	-22,47775571	-43,82714197
Rota 5 - Principal 15,216m	7513818,431	620659,703	-22,47775571	-43,82714197
Rota 5 - Principal 15,216m	7513819,308	620667,424	-22,47774725	-43,827067
Rota 5 - Principal 15,216m	7513809,091	620682,056	-22,47783849	-43,82692402
Rota 5 - Principal 15,216m	7513806,698	620689,798	-22,47785956	-43,8268486
Rota 5 - Principal 15,216m	7513810,631	620698,24	-22,47782344	-43,82676685


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7513819,611	620710,798	-22,47774144	-43,82664549
Rota 5 - Principal 15,216m	7513821,205	620723,479	-22,47772614	-43,82652236
Rota 5 - Principal 15,216m	7513821,433	620739,908	-22,47772292	-43,82636271
Rota 5 - Principal 15,216m	7513830,033	620754,618	-22,47764421	-43,8262204
Rota 5 - Principal 15,216m	7513845,465	620768,26	-22,47750386	-43,82608899
Rota 5 - Principal 15,216m	7513867,295	620794,334	-22,47730485	-43,82583725
Rota 5 - Principal 15,216m	7513879,909	620800,389	-22,47719048	-43,82577936
Rota 5 - Principal 15,216m	7513894,147	620803,987	-22,47706163	-43,82574547
Rota 5 - Principal 15,216m	7513905,953	620803,575	-22,47695503	-43,82575038
Rota 5 - Principal 15,216m	7513934,107	620798,875	-22,47670107	-43,8257982
Rota 5 - Principal 15,216m	7513872,841	620834,446	-22,47725192	-43,82544782
Rota 5 - Principal 15,216m	7513865,765	620833,641	-22,47731588	-43,82545511
Rota 5 - Principal 15,216m	7513858,335	620824,65	-22,47738362	-43,82554192
Rota 5 - Principal 15,216m	7513849,463	620810,739	-22,47746474	-43,82567645
Rota 5 - Principal 15,216m	7513840,098	620799,56	-22,47755012	-43,82578438
Rota 5 - Principal 15,216m	7513831,779	620790,305	-22,47762591	-43,8258737
Rota 5 - Principal 15,216m	7513819,746	620777,967	-22,47773547	-43,82599269
Rota 5 - Principal 15,216m	7513812,321	620768,801	-22,47780318	-43,82608121
Rota 5 - Principal 15,216m	7513802,31	620754,78	-22,4778946	-43,82621671
Rota 5 - Principal 15,216m	7513794,957	620746,571	-22,47796159	-43,82629594
Rota 5 - Principal 15,216m	7513782,144	620733,202	-22,47807827	-43,82642489
Rota 5 - Principal 15,216m	7513771,552	620723,108	-22,47817465	-43,82652219
Rota 5 - Principal 15,216m	7513761,814	620717,916	-22,47826297	-43,82657191
Rota 5 - Principal 15,216m	7513739,126	620705,877	-22,47846874	-43,82668719
Rota 5 - Principal 15,216m	7513724,125	620705,645	-22,47860425	-43,8266883
Rota 5 - Principal 15,216m	7513715,583	620707,847	-22,47868125	-43,82666625
Rota 5 - Principal 15,216m	7513705,075	620712,175	-22,47877585	-43,82662338
Rota 5 - Principal 15,216m	7513689,281	620715,253	-22,47891829	-43,82659227
Rota 5 - Principal 15,216m	7513672,424	620718,047	-22,47907034	-43,82656383
Rota 5 - Principal 15,216m	7513655,241	620723,762	-22,47922514	-43,82650698
Rota 5 - Principal 15,216m	7513639,691	620730,917	-22,47936508	-43,82643626
Rota 5 - Principal 15,216m	7513629,201	620737,932	-22,47945933	-43,82636728
Rota 5 - Principal 15,216m	7513613,725	620749,082	-22,47959833	-43,82625773
Rota 5 - Principal 15,216m	7513603,924	620760,443	-22,47968605	-43,82614657
Rota 5 - Principal 15,216m	7513591,245	620780,614	-22,47979914	-43,82594956
Rota 5 - Principal 15,216m	7513578,443	620806,455	-22,47991293	-43,82569744
Rota 5 - Principal 15,216m	7513569,079	620820,032	-22,47999655	-43,82556477
Rota 5 - Principal 15,216m	7513554,645	620834,556	-22,48012589	-43,82542252
Rota 5 - Principal 15,216m	7513544,262	620839,888	-22,48021929	-43,8253699
Rota 5 - Principal 15,216m	7513529,276	620838,924	-22,48035472	-43,82537813
Rota 5 - Principal 15,216m	7513485,455	620821,802	-22,48075173	-43,8255412
Rota 5 - Principal 15,216m	7513453,525	620808,357	-22,48104108	-43,82566944
Rota 5 - Principal 15,216m	7513431,8	620789,21	-22,48123866	-43,82585388


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7513414,249	620777,297	-22,48139802	-43,82596832
Rota 5 - Principal 15,216m	7513396,575	620741,938	-22,48156016	-43,82631064
Rota 5 - Principal 15,216m	7513392,529	620723,522	-22,48159801	-43,82648931
Rota 5 - Principal 15,216m	7513399,451	620699,371	-22,48153719	-43,82672456
Rota 5 - Principal 15,216m	7513399,611	620686,611	-22,48153665	-43,82684859
Rota 5 - Principal 15,216m	7513402,528	620676,775	-22,481511	-43,82694441
Rota 5 - Principal 15,216m	7513410,398	620665,412	-22,48144072	-43,82705545
Rota 5 - Principal 15,216m	7513421,695	620656,11	-22,48133934	-43,82714671
Rota 5 - Principal 15,216m	7513454,219	620646,877	-22,48104623	-43,82723892
Rota 5 - Principal 15,216m	7513467,042	620639,373	-22,48093094	-43,82731284
Rota 5 - Principal 15,216m	7513471,746	620630,395	-22,48088909	-43,82740044
Rota 5 - Principal 15,216m	7513474,093	620620,922	-22,48086856	-43,82749269
Rota 5 - Principal 15,216m	7513473,144	620609,778	-22,48087792	-43,82760093
Rota 5 - Principal 15,216m	7513462,862	620607,146	-22,48097098	-43,82762573
Rota 5 - Principal 15,216m	7513437,777	620620,599	-22,4811966	-43,82749307
Rota 5 - Principal 15,216m	7513427,529	620626,306	-22,48128875	-43,82743682
Rota 5 - Principal 15,216m	7513419,618	620634,396	-22,48135964	-43,82735759
Rota 5 - Principal 15,216m	7513411,989	620643,313	-22,48142791	-43,82727035
Rota 5 - Principal 15,216m	7513396,994	620651,521	-22,48156277	-43,82718944
Rota 5 - Principal 15,216m	7513381,509	620661,264	-22,48170194	-43,82709357
Rota 5 - Principal 15,216m	7513373,439	620668,713	-22,4817743	-43,82702055
Rota 5 - Principal 15,216m	7513361,895	620669,507	-22,48187852	-43,82701195
Rota 5 - Principal 15,216m	7513348,178	620666,845	-22,4820026	-43,82703679
Rota 5 - Principal 15,216m	7513336,947	620666,722	-22,48210405	-43,82703713
Rota 5 - Principal 15,216m	7513325,958	620669,772	-22,48220308	-43,82700665
Rota 5 - Principal 15,216m	7513313,679	620673,032	-22,48231376	-43,82697403
Rota 5 - Principal 15,216m	7513266,238	620680,279	-22,48274174	-43,82689998
Rota 5 - Principal 15,216m	7513229,332	620681,453	-22,48307499	-43,82688576
Rota 5 - Principal 15,216m	7513184,204	620680,583	-22,48348266	-43,82689078
Rota 5 - Principal 15,216m	7513169,29	620665,536	-22,48361843	-43,82703589
Rota 5 - Principal 15,216m	7513152,946	620651,984	-22,48376701	-43,82716636
Rota 5 - Principal 15,216m	7513140,324	620636,986	-22,48388207	-43,82731117
Rota 5 - Principal 15,216m	7513132,665	620615,966	-22,48395273	-43,82751489
Rota 5 - Principal 15,216m	7513125,666	620595,433	-22,4840174	-43,82771392
Rota 5 - Principal 15,216m	7513129,064	620580,3	-22,48398778	-43,82786126
Rota 5 - Principal 15,216m	7513132,7	620556,329	-22,48395663	-43,82809452
Rota 5 - Principal 15,216m	7513134,766	620540,432	-22,4839391	-43,82824919
Rota 5 - Principal 15,216m	7513115,847	620500,43	-22,4841128	-43,82863653
Rota 5 - Principal 15,216m	7513104,382	620464,306	-22,48421891	-43,82898676
Rota 5 - Principal 15,216m	7513097,889	620453,323	-22,48427833	-43,82909302
Rota 5 - Principal 15,216m	7513091,272	620441,086	-22,48433895	-43,82921144
Rota 5 - Principal 15,216m	7513083,491	620425,219	-22,48441035	-43,82936507
Rota 5 - Principal 15,216m	7513087,012	620404,927	-22,48437998	-43,82956257


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7513096,876	620384,362	-22,48429234	-43,82976319
Rota 5 - Principal 15,216m	7513077,688	620363,439	-22,48446713	-43,82996509
Rota 5 - Principal 15,216m	7513079,314	620355,824	-22,48445298	-43,83003922
Rota 5 - Principal 15,216m	7513084,602	620346,107	-22,48440591	-43,83013407
Rota 5 - Principal 15,216m	7513100,355	620318,881	-22,48426554	-43,83039988
Rota 5 - Principal 15,216m	7513110,684	620301,671	-22,48417346	-43,83056794
Rota 5 - Principal 15,216m	7513121,735	620282,268	-22,48407501	-43,83075736
Rota 5 - Principal 15,216m	7513130,434	620264,802	-22,48399768	-43,83092777
Rota 5 - Principal 15,216m	7513137,289	620242,752	-22,48393731	-43,8311426
Rota 5 - Principal 15,216m	7513144,225	620224,813	-22,48387593	-43,83131749
Rota 5 - Principal 15,216m	7513148,915	620214,293	-22,48383431	-43,83142009
Rota 5 - Principal 15,216m	7513162,693	620196,836	-22,4837111	-43,83159079
Rota 5 - Principal 15,216m	7513195,769	620172,919	-22,48341404	-43,83182576
Rota 5 - Principal 15,216m	7513235,606	620153,255	-22,4830556	-43,8320199
Rota 5 - Principal 15,216m	7513262,235	620140,452	-22,48281599	-43,83214635
Rota 5 - Principal 15,216m	7513264,35	620133,615	-22,48279737	-43,83221296
Rota 5 - Principal 15,216m	7513258,861	620121,537	-22,4828478	-43,83232993
Rota 5 - Principal 15,216m	7513239,908	620095,629	-22,48302081	-43,83258031
Rota 5 - Principal 15,216m	7513217,106	620065,069	-22,48322891	-43,8328756
Rota 5 - Principal 15,216m	7513202,953	620040,409	-22,48335847	-43,8331142
Rota 5 - Principal 15,216m	7513191,778	620016,754	-22,48346107	-43,83334326
Rota 5 - Principal 15,216m	7513185,909	620006,791	-22,48351478	-43,83343965
Rota 5 - Principal 15,216m	7513190,396	619997,007	-22,48347494	-43,83353508
Rota 5 - Principal 15,216m	7513199,455	619987,131	-22,48339382	-43,83363175
Rota 5 - Principal 15,216m	7513215,602	619981,88	-22,48324834	-43,83368402
Rota 5 - Principal 15,216m	7513226,528	619975,474	-22,48315011	-43,8337471
Rota 5 - Principal 15,216m	7513232,051	619983,942	-22,48309963	-43,83366522
Rota 5 - Principal 15,216m	7513236,182	620001,292	-22,4830611	-43,8334969
Rota 5 - Principal 15,216m	7513247,393	620024,778	-22,48295819	-43,83326948
Rota 5 - Principal 15,216m	7513266,374	620061,715	-22,48278415	-43,83291192
Rota 5 - Principal 15,216m	7513272,262	620077,346	-22,48272987	-43,83276045
Rota 5 - Principal 15,216m	7513281,478	620096,83	-22,48264526	-43,83257178
Rota 5 - Principal 15,216m	7513295,633	620106,447	-22,48251673	-43,83247938
Rota 5 - Principal 15,216m	7513312,905	620109,789	-22,48236049	-43,83244821
Rota 5 - Principal 15,216m	7513323,83	620104,98	-22,48226216	-43,83249578
Rota 5 - Principal 15,216m	7513331,905	620101,289	-22,48218948	-43,83253226
Rota 5 - Principal 15,216m	7513341,561	620093,424	-22,48210282	-43,83260943
Rota 5 - Principal 15,216m	7513361,049	620092,783	-22,48192685	-43,83261714
Rota 5 - Principal 15,216m	7513372,126	620093,379	-22,48182675	-43,83261218
Rota 5 - Principal 15,216m	7513384,063	620095,189	-22,48171881	-43,8325955
Rota 5 - Principal 15,216m	7513392,168	620102,585	-22,48164508	-43,83252422
Rota 5 - Principal 15,216m	7513396,846	620108,311	-22,48160242	-43,83246893
Rota 5 - Principal 15,216m	7513391,594	620114,836	-22,4816494	-43,83240511


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7513386,278	620119,431	-22,4816971	-43,83236005
Rota 5 - Principal 15,216m	7513384,648	620125,49	-22,48171139	-43,83230104
Rota 5 - Principal 15,216m	7513389,637	620135,444	-22,48166563	-43,83220468
Rota 5 - Principal 15,216m	7513396,715	620144,414	-22,48160107	-43,83211803
Rota 5 - Principal 15,216m	7513405,339	620149,298	-22,48152283	-43,83207121
Rota 5 - Principal 15,216m	7513414,95	620156,685	-22,4814355	-43,83200015
Rota 5 - Principal 15,216m	7513416,014	620172,709	-22,48142477	-43,83184449
Rota 5 - Principal 15,216m	7513407,341	620182,308	-22,48150242	-43,83175054
Rota 5 - Principal 15,216m	7513391,316	620193,999	-22,48164634	-43,8316357
Rota 5 - Principal 15,216m	7513379,716	620201,791	-22,48175056	-43,83155909
Rota 5 - Principal 15,216m	7513366,046	620207,741	-22,48187362	-43,83150022
Rota 5 - Principal 15,216m	7513353,243	620210,678	-22,48198905	-43,83147071
Rota 5 - Principal 15,216m	7513341,592	620211,016	-22,48209426	-43,83146654
Rota 5 - Principal 15,216m	7513327,581	620205,292	-22,48222121	-43,83152111
Rota 5 - Principal 15,216m	7513317,499	620201,133	-22,48231257	-43,83156077
Rota 5 - Principal 15,216m	7513305,187	620200,834	-22,48242379	-43,83156274
Rota 5 - Principal 15,216m	7513296,701	620202,008	-22,48250035	-43,83155069
Rota 5 - Principal 15,216m	7513278,108	620205,571	-22,48266803	-43,83151465
Rota 5 - Principal 15,216m	7513268,75	620209,395	-22,48275229	-43,83147678
Rota 5 - Principal 15,216m	7513260,032	620213,582	-22,48283074	-43,83143542
Rota 5 - Principal 15,216m	7513248,987	620216,976	-22,48293026	-43,8314016
Rota 5 - Principal 15,216m	7513240,624	620218,488	-22,48300569	-43,83138627
Rota 5 - Principal 15,216m	7513226,723	620215,448	-22,48313146	-43,83141476
Rota 5 - Principal 15,216m	7513214,71	620210,48	-22,48324031	-43,83146213
Rota 5 - Principal 15,216m	7513211,511	620200,141	-22,48326994	-43,83156238
Rota 5 - Principal 15,216m	7513209,475	620194,399	-22,48328873	-43,83161803
Rota 5 - Principal 15,216m	7513205,604	620185,404	-22,48332433	-43,83170516
Rota 5 - Principal 15,216m	7513199,93	620178,839	-22,48337603	-43,83176854
Rota 5 - Principal 15,216m	7513197,117	620171,681	-22,48340194	-43,83183789
Rota 5 - Principal 15,216m	7513233,415	620154,226	-22,48307533	-43,8320103
Rota 5 - Principal 15,216m	7513259,915	620141,885	-22,48283684	-43,83213224
Rota 5 - Principal 15,216m	7513263,425	620135,716	-22,48280558	-43,83219247
Rota 5 - Principal 15,216m	7513259,776	620123,452	-22,4828394	-43,83231139
Rota 5 - Principal 15,216m	7513257,133	620118,71	-22,4828636	-43,83235728
Rota 5 - Principal 15,216m	7513241,384	620097,954	-22,48300732	-43,83255782
Rota 5 - Principal 15,216m	7513217,97	620066,064	-22,48322104	-43,83286599
Rota 5 - Principal 15,216m	7513204,105	620042,003	-22,48334796	-43,83309879
Rota 5 - Principal 15,216m	7513193,388	620018,574	-22,4834464	-43,83332569
Rota 5 - Principal 15,216m	7513187,206	620009,316	-22,48350289	-43,83341521
Rota 5 - Principal 15,216m	7513189,152	619999,931	-22,48348598	-43,83350657
Rota 5 - Principal 15,216m	7513193,582	619993,371	-22,48344643	-43,83357066
Rota 5 - Principal 15,216m	7513181,975	619982,122	-22,48355206	-43,83367911
Rota 5 - Principal 15,216m	7513168,184	619974,165	-22,48367718	-43,83375541

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7513157,129	619969,231	-22,48377737	-43,83380253
Rota 5 - Principal 15,216m	7513146,658	619962,081	-22,48387245	-43,83387122
Rota 5 - Principal 15,216m	7513143,722	619956,846	-22,48389934	-43,83392189
Rota 5 - Principal 15,216m	7513177,904	619931,951	-22,48359235	-43,83416643
Rota 5 - Principal 15,216m	7513198,682	619922,465	-22,48340535	-43,83426021
Rota 5 - Principal 15,216m	7513217,641	619903,416	-22,48323545	-43,83444678
Rota 5 - Principal 15,216m	7513230,151	619893,271	-22,48312316	-43,83454633
Rota 5 - Principal 15,216m	7513232,634	619876,008	-22,48310195	-43,83471143
Rota 5 - Principal 15,216m	7513226,608	619855,928	-22,48315779	-43,834909
Rota 5 - Principal 15,216m	7513218,377	619837,756	-22,48323341	-43,835085
Rota 5 - Principal 15,216m	7513209,825	619813,116	-22,48331238	-43,83532383
Rota 5 - Principal 15,216m	7513213,96	619793,264	-22,48327643	-43,83551709
Rota 5 - Principal 15,216m	7513223,258	619781,855	-22,48319325	-43,83562868
Rota 5 - Principal 15,216m	7513240,969	619766,714	-22,48303434	-43,83577718
Rota 5 - Principal 15,216m	7513256,265	619756,957	-22,48289687	-43,83587316
Rota 5 - Principal 15,216m	7513272,731	619741,196	-22,48274925	-43,83602759
Rota 5 - Principal 15,216m	7513277,841	619733,517	-22,48270364	-43,83610261
Rota 5 - Principal 15,216m	7513287,572	619705,762	-22,48261769	-43,8363731
Rota 5 - Principal 15,216m	7513286,033	619693,308	-22,48263247	-43,83649402
Rota 5 - Principal 15,216m	7513279,771	619679,875	-22,48268997	-43,83662411
Rota 5 - Principal 15,216m	7513271,133	619665,182	-22,48276902	-43,83676627
Rota 5 - Principal 15,216m	7513255,275	619653,923	-22,48291304	-43,83687449
Rota 5 - Principal 15,216m	7513239,515	619644,679	-22,48305604	-43,83696316
Rota 5 - Principal 15,216m	7513230,347	619636,436	-22,48313942	-43,83704258
Rota 5 - Principal 15,216m	7513243,329	619632,478	-22,48302244	-43,83708202
Rota 5 - Principal 15,216m	7513275,312	619628,81	-22,48273383	-43,83712009
Rota 5 - Principal 15,216m	7513292,838	619627,627	-22,48257561	-43,83713291
Rota 5 - Principal 15,216m	7513309,029	619630,416	-22,48242917	-43,83710702
Rota 5 - Principal 15,216m	7513337,287	619634,512	-22,48217366	-43,83706934
Rota 5 - Principal 15,216m	7513377,021	619640,586	-22,48181435	-43,83701331
Rota 5 - Principal 15,216m	7513397,822	619646,445	-22,48162606	-43,83695793
Rota 5 - Principal 15,216m	7513405,206	619650,11	-22,48155911	-43,83692287
Rota 5 - Principal 15,216m	7513414,317	619663,077	-22,48147591	-43,83679753
Rota 5 - Principal 15,216m	7513421,954	619678,918	-22,48140582	-43,83664414
Rota 5 - Principal 15,216m	7513423,413	619691,742	-22,48139174	-43,83651961
Rota 5 - Principal 15,216m	7513420,358	619719,153	-22,48141741	-43,83625297
Rota 5 - Principal 15,216m	7513425,167	619747,946	-22,48137195	-43,8359735
Rota 5 - Principal 15,216m	7513447,222	619783,98	-22,48117022	-43,83562495
Rota 5 - Principal 15,216m	7513487,453	619854,94	-22,48080187	-43,83493832
Rota 5 - Principal 15,216m	7513512,203	619888,487	-22,48057597	-43,83461415
Rota 5 - Principal 15,216m	7513546,203	619935,029	-22,4802656	-43,83416438
Rota 5 - Principal 15,216m	7513572,951	619973,414	-22,48002131	-43,83379333
Rota 5 - Principal 15,216m	7513615,396	620023,249	-22,47963444	-43,8333122

## ANEXO III


	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7513679,432	620094,475	-22,47905104	-43,83262481
Rota 5 - Principal 15,216m	7513735,385	620155,75	-22,47854135	-43,83203352
Rota 5 - Principal 15,216m	7513793,267	620215,899	-22,47801432	-43,83145333
Rota 5 - Principal 15,216m	7513861,67	620278,004	-22,47739211	-43,83085493
Rota 5 - Principal 15,216m	7513914,206	620335,934	-22,47691352	-43,8302959
Rota 5 - Principal 15,216m	7513996,389	620413,905	-22,47616573	-43,82954435
Rota 5 - Principal 15,216m	7514081,167	620493,739	-22,47539437	-43,82877491
Rota 5 - Principal 15,216m	7514157,064	620567,808	-22,47470363	-43,82806083
Rota 5 - Principal 15,216m	7514213,651	620605,186	-22,47418989	-43,82770186
Rota 5 - Principal 15,216m	7514317,757	620662,415	-22,47324554	-43,8271536
Rota 5 - Principal 15,216m	7514370,085	620691,22	-22,47277087	-43,82687764
Rota 5 - Principal 15,216m	7514471,124	620702,535	-22,47185748	-43,82677536
Rota 5 - Principal 15,216m	7514611,339	620715,16	-22,47059014	-43,82666334
Rota 5 - Principal 15,216m	7514589,338	620787,974	-22,4707837	-43,82595403
Rota 5 - Principal 15,216m	7514573,02	620837,052	-22,47092762	-43,82547583
Rota 5 - Principal 15,216m	7514559,249	620873,719	-22,4710494	-43,82511844
Rota 5 - Principal 15,216m	7514559,249	620873,719	-22,4710494	-43,82511844
Rota 5 - Principal 15,216m	7514555,209	620893,022	-22,47108453	-43,82493054
Rota 5 - Principal 15,216m	7514571,515	620906,888	-22,47093627	-43,82479703
Rota 5 - Principal 15,216m	7514608,637	620923,919	-22,47059977	-43,82463434
Rota 5 - Principal 15,216m	7514617,732	620944,068	-22,4705162	-43,82443922
Rota 5 - Principal 15,216m	7514606,993	620952,73	-22,47061258	-43,82435423
Rota 5 - Principal 15,216m	7514550,552	620970,087	-22,47112113	-43,82418124
Rota 5 - Principal 15,216m	7514530,641	620980,111	-22,47130026	-43,8240823
Rota 5 - Principal 15,216m	7514513,704	620995,003	-22,47145218	-43,82393629
Rota 5 - Principal 15,216m	7514487,993	621009,021	-22,47168341	-43,82379809
Rota 5 - Principal 15,216m	7514465,603	621028,142	-22,47188429	-43,82361056
Rota 5 - Principal 15,216m	7514447,003	621045,477	-22,47205106	-43,82344068
Rota 5 - Principal 15,216m	7514417,743	621085,973	-22,47231247	-43,82304488
Rota 5 - Principal 15,216m	7514418,624	621100,264	-22,47230349	-43,82290607
Rota 5 - Principal 15,216m	7514416,308	621116,676	-22,47232325	-43,82274639
Rota 5 - Principal 15,216m	7514412,07	621126,147	-22,47236085	-43,82265402
Rota 5 - Principal 15,216m	7514398,795	621139,177	-22,47247983	-43,82252638
Rota 5 - Principal 15,216m	7514384,546	621155,551	-22,47260736	-43,82236616
Rota 5 - Principal 15,216m	7514381,757	621184,51	-22,4726305	-43,82208451
Rota 5 - Principal 15,216m	7514371,747	621220,162	-22,47271838	-43,82173727
Rota 5 - Principal 15,216m	7514362,328	621256,475	-22,47280088	-43,82138365
Rota 5 - Principal 15,216m	7514366,728	621264,925	-22,47276053	-43,82130186
Rota 5 - Principal 15,216m	7514376,015	621265,57	-22,47267661	-43,8212963
Rota 5 - Principal 15,216m	7514393,289	621253,714	-22,47252143	-43,82141284
Rota 5 - Principal 15,216m	7514421,308	621236,994	-22,47226955	-43,82157747
Rota 5 - Principal 15,216m	7514527,598	621173,062	-22,47131406	-43,8222069
Rota 5 - Principal 15,216m	7514527,598	621173,062	-22,47131406	-43,8222069




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Principal 15,216m	7514608,754	621128,649	-22,4705842	-43,82264473
Rota 5 - Principal 15,216m	7514658,709	621103,125	-22,47013481	-43,82289659
Rota 5 - Principal 15,216m	7514665,778	621098,52	-22,47007129	-43,82294188
Rota 5 - 311m	7513012,676	621391,812	-22,48498147	-43,81996507
Rota 5 - 311m	7513008,728	621379,561	-22,485018	-43,82008384
Rota 5 - 311m	7513000,602	621352,287	-22,48509333	-43,8203483
Rota 5 - 311m	7512992,101	621334,38	-22,48517139	-43,8205217
Rota 5 - 311m	7512981,058	621314,366	-22,48527255	-43,82071537
Rota 5 - 311m	7512948,724	621262,463	-22,48556828	-43,82121736
Rota 5 - 311m	7512922,838	621233,848	-22,48580412	-43,8214935
Rota 5 - 311m	7512917,734	621198,973	-22,4858527	-43,82183207
Rota 5 - 311m	7512908,472	621164,581	-22,4859388	-43,82216564
Rota 5 - 311m	7512901,226	621123,035	-22,4860072	-43,82256888
Rota 5 - 311m	7512898,915	621109,507	-22,48602903	-43,82270019
Rota 5 - 291m	7513294,117	621192,348	-22,48245364	-43,82192523
Rota 5 - 291m	7513300,692	621180,998	-22,48239506	-43,82203605
Rota 5 - 291m	7513302,322	621159,764	-22,48238184	-43,82224255
Rota 5 - 291m	7513304,798	621140,415	-22,48236086	-43,82243079
Rota 5 - 291m	7513305,352	621121,551	-22,48235719	-43,82261418
Rota 5 - 291m	7513303,976	621109,547	-22,48237047	-43,82273074
Rota 5 - 291m	7513301,005	621094,231	-22,48239839	-43,82287937
Rota 5 - 291m	7513297,124	621078,406	-22,48243457	-43,82303288
Rota 5 - 291m	7513290,201	621049,776	-22,48249913	-43,82331061
Rota 5 - 291m	7513292,376	621042,144	-22,48248003	-43,82338496
Rota 5 - 291m	7513296,232	621028,462	-22,48244617	-43,82351822
Rota 5 - 291m	7513298,64	621020,733	-22,48242497	-43,82359353
Rota 5 - 291m	7513299,481	621016,131	-22,4824177	-43,82363832
Rota 5 - 291m	7513298,284	621009,014	-22,48242901	-43,82370741
Rota 5 - 291m	7513291,438	621004,557	-22,48249117	-43,82375019
Rota 5 - 291m	7513283,528	621002,345	-22,48256277	-43,82377109
Rota 5 - 291m	7513269,674	621001,215	-22,48268797	-43,82378101
Rota 5 - 291m	7513262,382	620999,372	-22,48275397	-43,82379837
Rota 5 - 291m	7513254,96	620993,781	-22,4828214	-43,82385215
Rota 5 - 291m	7513244,774	620983,435	-22,48291414	-43,82395192
Rota 5 - 291m	7513237,538	620975,806	-22,48298003	-43,82402552
Rota 5 - 291m	7513228,277	620956,72	-22,48306504	-43,82421031
Rota 5 - 291m	7513224,54	620948,339	-22,48309938	-43,82429148
Rota 5 - Escola 154m	7513532,885	621327,154	-22,48028748	-43,82063331
Rota 5 - Escola 154m	7513528,25	621320,264	-22,48032983	-43,82069991
Rota 5 - Escola 154m	7513519,587	621304,41	-22,4804092	-43,82085334
Rota 5 - Escola 154m	7513511,631	621289,035	-22,48048216	-43,82100216
Rota 5 - Escola 154m	7513505,013	621273,939	-22,48054301	-43,82114837
Rota 5 - Escola 154m	7513498,029	621264,635	-22,48060675	-43,82123826


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Escola 154m	7513491,111	621254,953	-22,48066992	-43,82133183
Rota 5 - Escola 154m	7513475,828	621236,902	-22,48080924	-43,8215061
Rota 5 - Escola 154m	7513463,745	621229,504	-22,4809189	-43,82157708
Rota 5 - Escola 154m	7513455,915	621225,317	-22,48098992	-43,82161717
Rota 5 - Escola 154m	7513450,699	621219,98	-22,48103741	-43,82166865
Rota 5 - Escola 154m	7513444,145	621214,016	-22,48109703	-43,82172611
Rota 5 - Escola 154m	7513439,833	621208,136	-22,48113639	-43,82178293
Rota 5 - Igreja 151m	7514150,496	621213,428	-22,47471723	-43,82178581
Rota 5 - Igreja 151m	7514140,159	621200,925	-22,47481148	-43,82190652
Rota 5 - Igreja 151m	7514113,024	621167,023	-22,47505897	-43,8223393
Rota 5 - Igreja 151m	7514098,889	621149,887	-22,47518786	-43,82239939
Rota 5 - Igreja 151m	7514059,038	621093,22	-22,47555182	-43,82294708
Rota 5 - Medianeira 48,9m	7514424,156	620989,494	-22,47226138	-43,82398299
Rota 5 - Medianeira 48,9m	7514432,616	620981,342	-22,47218555	-43,82406287
Rota 5 - Medianeira 48,9m	7514440,182	620974,186	-22,47211771	-43,82413299
Rota 5 - Medianeira 48,9m	7514445,799	620966,287	-22,47206754	-43,82421018
Rota 5 - Medianeira 48,9m	7514454,055	620951,393	-22,47199403	-43,82435556
Rota 5 - Duque de Caxias 96,2m	7514420,454	620788,872	-22,47230903	-43,82593244
Rota 5 - Duque de Caxias 96,2m	7514414,616	620791,999	-22,47236153	-43,82590161
Rota 5 - Duque de Caxias 96,2m	7514404,778	620797,726	-22,47244998	-43,8258452
Rota 5 - Duque de Caxias 96,2m	7514400,443	620801,703	-22,47248886	-43,82580623
Rota 5 - Duque de Caxias 96,2m	7514395,662	620807,394	-22,47253164	-43,82575055
Rota 5 - Duque de Caxias 96,2m	7514389,08	620817,291	-22,47259039	-43,82565387
Rota 5 - Duque de Caxias 96,2m	7514383,236	620825,522	-22,47264259	-43,82557343
Rota 5 - Duque de Caxias 96,2m	7514377,142	620830,374	-22,47269729	-43,82552581
Rota 5 - Duque de Caxias 96,2m	7514367,788	620835,726	-22,4727814	-43,82547308
Rota 5 - Duque de Caxias 96,2m	7514360,066	620840,672	-22,47285079	-43,82542443
Rota 5 - Duque de Caxias 96,2m	7514354,662	620846,004	-22,47289922	-43,8253722
Rota 5 - Duque de Caxias 96,2m	7514352,387	620853,159	-22,47291927	-43,82530249
Rota 5 - Padaria 96,4m	7514171,398	620659,644	-22,47456767	-43,8271694
Rota 5 - Padaria 96,4m	7514172,169	620670,48	-22,47455995	-43,82706415
Rota 5 - Padaria 96,4m	7514170,927	620687,024	-22,47456999	-43,82690327
Rota 5 - Padaria 96,4m	7514168,483	620696,889	-22,47459137	-43,82680721
Rota 5 - Padaria 96,4m	7514136,944	620696,756	-22,47487624	-43,8268061
Rota 5 - Padaria 96,4m	7514128,583	620698,927	-22,4749516	-43,82678437
Rota 5 - Padaria 96,4m	7514120,989	620701,819	-22,47501999	-43,82675568
Rota 5 - Padaria 96,4m	7514114,255	620709,884	-22,47508024	-43,82667679
Rota 5 - Azilo 74,4m	7514084,351	620614,031	-22,47535712	-43,82760607
Rota 5 - Azilo 74,4m	7514073,827	620624,121	-22,47545146	-43,82750721
Rota 5 - Azilo 74,4m	7514058,975	620634,911	-22,47558484	-43,82740122
Rota 5 - Azilo 74,4m	7514024,062	620657,17	-22,47589861	-43,82718224
Rota 5 - Bar do Tom 448m	7513775,01	621009,69	-22,47812312	-43,82373721
Rota 5 - Bar do Tom 448m	7513787,496	621004,521	-22,47801071	-43,8237884


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Bar do Tom 448m	7513806,509	620997,662	-22,47783947	-43,82385651
Rota 5 - Bar do Tom 448m	7513823,518	620995,646	-22,47768598	-43,8238774
Rota 5 - Bar do Tom 448m	7513840,166	620993,023	-22,4775358	-43,82390416
Rota 5 - Bar do Tom 448m	7513853,72	620992,453	-22,47741342	-43,82391073
Rota 5 - Bar do Tom 448m	7513880,047	620983,893	-22,47717624	-43,82399593
Rota 5 - Bar do Tom 448m	7513899,02	620976,353	-22,47700541	-43,82407066
Rota 5 - Bar do Tom 448m	7513911,381	620971,05	-22,47689414	-43,82412314
Rota 5 - Bar do Tom 448m	7513925,602	620960,674	-22,47676643	-43,82422506
Rota 5 - Bar do Tom 448m	7513934,98	620952,991	-22,47668227	-43,82430046
Rota 5 - Bar do Tom 448m	7513937,119	620943,842	-22,4766636	-43,82438953
Rota 5 - Bar do Tom 448m	7513930,99	620933,421	-22,47671969	-43,82449034
Rota 5 - Bar do Tom 448m	7513924,637	620921,978	-22,47677788	-43,82460107
Rota 5 - Bar do Tom 448m	7513909,072	620899,682	-22,47692005	-43,82481658
Rota 5 - Bar do Tom 448m	7513895,031	620872,362	-22,47704881	-43,82508102
Rota 5 - Bar do Tom 448m	7513884,331	620858,736	-22,47714641	-43,82521263
Rota 5 - Bar do Tom 448m	7513868,072	620835,722	-22,4772949	-43,82543506
Rota 5 - Bar do Tom 448m	7513844,47	620853,766	-22,4775068	-43,8252579
Rota 5 - Bar do Tom 448m	7513830,458	620862,717	-22,47763272	-43,82516983
Rota 5 - Bar do Tom 448m	7513811,32	620876,97	-22,47780457	-43,82502986
Rota 5 - Bar do Tom 448m	7513791,029	620891,847	-22,47798679	-43,82488372
Rota 5 - Bar do Tom 448m	7513776,564	620899,313	-22,47811691	-43,82481006
Rota 5 - Bar do Tom 448m	7513754,059	620912,345	-22,47831925	-43,82468169
Rota 5 - Bar do Arilsom 212m	7513471,649	620601,166	-22,48089203	-43,82768452
Rota 5 - Bar do Arilsom 212m	7513471,601	620589,416	-22,4808933	-43,82779871
Rota 5 - Bar do Arilsom 212m	7513468,357	620579,152	-22,48092332	-43,82789822
Rota 5 - Bar do Arilsom 212m	7513473,978	620558,859	-22,48087399	-43,82809587
Rota 5 - Bar do Arilsom 212m	7513482,788	620536,399	-22,480796	-43,82831484
Rota 5 - Bar do Arilsom 212m	7513495,858	620522,844	-22,48067891	-43,82844757
Rota 5 - Bar do Arilsom 212m	7513511,376	620507,286	-22,48053984	-43,82859996
Rota 5 - Bar do Arilsom 212m	7513548,581	620484,436	-22,48020542	-43,82882487
Rota 5 - Bar do Arilsom 212m	7513570,207	620476,789	-22,48001063	-43,82890083
Rota 5 - Bar do Arilsom 212m	7513570,231	620477,177	-22,48001038	-43,82889706
Rota 5 - Bar do Arilsom 212m	7513587,171	620467,237	-22,47985808	-43,82899496
Rota 5 - Bar do Arilsom 212m	7513601,738	620458,633	-22,47972712	-43,82907968
Rota 5 - Torre 56,9m	7513563,941	620601,181	-22,48005844	-43,82769139
Rota 5 - Torre 56,9m	7513578,011	620592,161	-22,479932	-43,82778012
Rota 5 - Torre 56,9m	7513592,11	620585,631	-22,47980511	-43,82784466
Rota 5 - Torre 56,9m	7513613,188	620572,916	-22,47961563	-43,82796984
Rota 5 - Campo de terra Batida 674n	7513434,874	620622,451	-22,48122269	-43,82747485
Rota 5 - Campo de terra Batida 674n	7513421,604	620616,178	-22,48134299	-43,82753481
Rota 5 - Campo de terra Batida 674n	7513406,024	620607,886	-22,48148429	-43,82761422
Rota 5 - Campo de terra Batida 674n	7513389,098	620596,475	-22,48163798	-43,82772383
Rota 5 - Campo de terra Batida 674n	7513378,877	620581,57	-22,48173135	-43,82786792


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - Campo de terra Batida 674n	7513374,178	620568,895	-22,48177469	-43,82799074
Rota 5 - Campo de terra Batida 674n	7513373,384	620558,608	-22,48178259	-43,82809067
Rota 5 - Campo de terra Batida 674n	7513379,211	620547,039	-22,48173077	-43,82820355
Rota 5 - Campo de terra Batida 674n	7513397,716	620524,516	-22,48156522	-43,82842386
Rota 5 - Campo de terra Batida 674n	7513425,276	620511,793	-22,48131719	-43,82854961
Rota 5 - Campo de terra Batida 674n	7513439,329	620503,641	-22,48119084	-43,82862991
Rota 5 - Campo de terra Batida 674n	7513449,971	620496,957	-22,48109519	-43,82869568
Rota 5 - Campo de terra Batida 674n	7513457,791	620483,201	-22,48102553	-43,82882997
Rota 5 - Campo de terra Batida 674n	7513498,507	620426,277	-22,4806618	-43,82938631
Rota 5 - Campo de terra Batida 674n	7513514,65	620408,947	-22,48051722	-43,82955597
Rota 5 - Campo de terra Batida 674n	7513522,994	620397,892	-22,48044263	-43,82966404
Rota 5 - Campo de terra Batida 674n	7513521,668	620382,887	-22,48045567	-43,82980978
Rota 5 - Campo de terra Batida 674n	7513513,044	620348,058	-22,48053601	-43,83014762
Rota 5 - Campo de terra Batida 674n	7513501,816	620353,228	-22,48063706	-43,83009652
Rota 5 - Campo de terra Batida 674n	7513485,756	620359,92	-22,48078165	-43,83003026
Rota 5 - Campo de terra Batida 674n	7513473,02	620368,484	-22,48089608	-43,82994607
Rota 5 - Campo de terra Batida 674n	7513462,726	620370,823	-22,48098889	-43,82992255
Rota 5 - Campo de terra Batida 674n	7513453,853	620374,891	-22,48106875	-43,82988234
Rota 5 - Campo de terra Batida 674n	7513439,566	620381,264	-22,48119734	-43,82981932
Rota 5 - Campo de terra Batida 674n	7513421,855	620388,188	-22,48135682	-43,82975068
Rota 5 - Campo de terra Batida 674n	7513402,014	620392,543	-22,48153572	-43,82970685
Rota 5 - Campo de terra Batida 674n	7513386,328	620395,707	-22,48167717	-43,82967491
Rota 5 - Campo de terra Batida 674n	7513376,961	620400,805	-22,48176142	-43,82962464
Rota 5 - Campo de terra Batida 674n	7513358,71	620406,114	-22,48192589	-43,82957166
Rota 5 - Campo de terra Batida 674n	7513332,346	620415,6	-22,48216334	-43,82947746
Rota 5 - Campo de terra Batida 674n	7513322,799	620422,526	-22,48224908	-43,82940942
Rota 5 - Campo de terra Batida 674n	7513313,562	620431,707	-22,48233187	-43,82931949
Rota 5 - Campo de terra Batida 674n	7513303,686	620451,499	-22,48241967	-43,82912638
Rota 5 - Campo de terra Batida 674n	7513299,862	620474,662	-22,48245258	-43,82890096
Rota 5 - Campo de terra Batida 674n	7513294,433	620513,445	-22,48249887	-43,82852361
Rota 5 - 46m	7513512,137	620348,26	-22,4805442	-43,83014559
Rota 5 - 46m	7513507,506	620335,735	-22,4805869	-43,83026697
Rota 5 - 46m	7513503,526	620318,638	-22,48062406	-43,83043284
Rota 5 - 46m	7513494,843	620306,299	-22,48070336	-43,8305521
Rota 5 - 98,6m	7513183,324	620680,962	-22,48349058	-43,82688703
Rota 5 - 98,6m	7513185,205	620703,514	-22,48347199	-43,82666798
Rota 5 - 98,6m	7513185,204	620719,713	-22,48347086	-43,82651055
Rota 5 - 98,6m	7513178,592	620737,262	-22,48352934	-43,82633948
Rota 5 - 98,6m	7513168,652	620750,941	-22,48361815	-43,82620578
Rota 5 - 98,6m	7513154,051	620770,16	-22,48374867	-43,82601787
Rota 5 - azilo 237m	7513077,87	620363,753	-22,48446546	-43,82996206
Rota 5 - azilo 237m	7513069,212	620371,813	-22,4845431	-43,82988306
Rota 5 - azilo 237m	7513058,644	620386,746	-22,48463749	-43,82973712


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - azilo 237m	7513051,281	620396,098	-22,48470334	-43,82964566
Rota 5 - azilo 237m	7513040,644	620405,853	-22,48479872	-43,82955004
Rota 5 - azilo 237m	7513023,502	620419,884	-22,48495256	-43,82941237
Rota 5 - azilo 237m	7513010,925	620428,08	-22,48506558	-43,82933176
Rota 5 - azilo 237m	7512996,051	620436,791	-22,48519931	-43,82924596
Rota 5 - azilo 237m	7512984,099	620442,852	-22,48530683	-43,82918614
Rota 5 - azilo 237m	7512968,959	620453,58	-22,48544283	-43,82908073
Rota 5 - azilo 237m	7512959,398	620463,469	-22,48552848	-43,82898388
Rota 5 - azilo 237m	7512949,261	620474,277	-22,48561928	-43,82887806
Rota 5 - azilo 237m	7512938,01	620490,777	-22,48571973	-43,82871684
Rota 5 - azilo 237m	7512925,408	620503,932	-22,48583262	-43,82858802
Rota 5 - azilo 237m	7512913,231	620512,29	-22,48594202	-43,82850586
Rota 5 - azilo 237m	7512902,044	620517,731	-22,48604268	-43,82845213
Rota 5 - 58m	7513396,99	620109,17	-22,48160107	-43,83246059
Rota 5 - 58m	7513408,54	620104,71	-22,48149706	-43,83250481
Rota 5 - 58m	7513419,101	620096,057	-22,48140228	-43,83258971
Rota 5 - 58m	7513433,502	620086,441	-22,48127288	-43,83268426
Rota 5 - 58m	7513445,868	620078,596	-22,48116174	-43,83276145
Rota 5 - Deposito de coco 223m	7514665,748	621098,685	-22,47007155	-43,82294028
Rota 5 - Deposito de coco 223m	7514676,771	621106,552	-22,46997143	-43,82286466
Rota 5 - Deposito de coco 223m	7514686,241	621115,154	-22,46988529	-43,82278179
Rota 5 - Deposito de coco 223m	7514691,844	621142,509	-22,46983273	-43,82251637
Rota 5 - Deposito de coco 223m	7514691,844	621142,509	-22,46983273	-43,82251637
Rota 5 - Deposito de coco 223m	7514699,798	621177,335	-22,46975843	-43,82217853
Rota 5 - Deposito de coco 223m	7514703,517	621192,734	-22,46972374	-43,82202917
Rota 5 - Deposito de coco 223m	7514704,76	621206,713	-22,46971152	-43,82189341
Rota 5 - Deposito de coco 223m	7514695,536	621214,386	-22,46979429	-43,82181814
Rota 5 - Deposito de coco 223m	7514683,388	621223,071	-22,46990339	-43,8217328
Rota 5 - Deposito de coco 223m	7514666,127	621232,744	-22,47005861	-43,82163748
Rota 5 - Deposito de coco 223m	7514646,267	621247,139	-22,47023697	-43,82149607
Rota 5 - Deposito de coco 223m	7514633,861	621256,541	-22,47034835	-43,82140375
Rota 5 - Deposito de coco 223m	7514628,746	621271,768	-22,47039347	-43,82125538
5 - Final atã trevo Matadouro 3,3	7514665,676	621098,766	-22,47007219	-43,82293948
5 - Final atã trevo Matadouro 3,3	7514675,723	621067,105	-22,46998369	-43,82324794
5 - Final atã trevo Matadouro 3,3	7514678,24	621048,908	-22,46996225	-43,82342497
5 - Final atã trevo Matadouro 3,3	7514678,351	621016,013	-22,46996357	-43,82374466
5 - Final atã trevo Matadouro 3,3	7514681,168	620973,908	-22,46994112	-43,82415406
5 - Final atã trevo Matadouro 3,3	7514689,838	620940,36	-22,46986519	-43,82448076
5 - Final atã trevo Matadouro 3,3	7514706,069	620898,959	-22,46972152	-43,82488434
5 - Final atã trevo Matadouro 3,3	7514732,962	620852,32	-22,46948192	-43,82533963
5 - Final atã trevo Matadouro 3,3	7514743,99	620848,958	-22,46938256	-43,82537314
5 - Final atã trevo Matadouro 3,3	7514767,648	620845,305	-22,46916913	-43,82541045
5 - Final atã trevo Matadouro 3,3	7514789,462	620855,649	-22,46897136	-43,82531159


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
5 - Final atÃ© trevo Matadouro 3,3	7514808,921	620873,404	-22,46879436	-43,82514052
5 - Final atÃ© trevo Matadouro 3,3	7514829,007	620898,394	-22,46861117	-43,82489919
5 - Final atÃ© trevo Matadouro 3,3	7514850,33	620923,393	-22,46841681	-43,82465787
5 - Final atÃ© trevo Matadouro 3,3	7514861,587	620925,833	-22,46831495	-43,82463502
5 - Final atÃ© trevo Matadouro 3,3	7514872,203	620926,156	-22,46821905	-43,82463269
5 - Final atÃ© trevo Matadouro 3,3	7514992,841	620934,076	-22,46712887	-43,82456492
5 - Final atÃ© trevo Matadouro 3,3	7514992,841	620934,076	-22,46712887	-43,82456492
5 - Final atÃ© trevo Matadouro 3,3	7515042,069	620944,781	-22,46668348	-43,82446463
5 - Final atÃ© trevo Matadouro 3,3	7515090,15	620965,63	-22,46624773	-43,82426569
5 - Final atÃ© trevo Matadouro 3,3	7515112,376	620978,362	-22,46604607	-43,82414365
5 - Final atÃ© trevo Matadouro 3,3	7515120,564	620982,631	-22,46597182	-43,82410279
5 - Final atÃ© trevo Matadouro 3,3	7515215,304	620913,266	-22,46512103	-43,82478409
5 - Final atÃ© trevo Matadouro 3,3	7515217,798	620901,714	-22,46509932	-43,82489655
5 - Final atÃ© trevo Matadouro 3,3	7515207,606	620882,722	-22,46519272	-43,82508034
5 - Final atÃ© trevo Matadouro 3,3	7515173,269	620819,591	-22,46550732	-43,82569123
5 - Final atÃ© trevo Matadouro 3,3	7515146,229	620770,306	-22,46575504	-43,82616811
5 - Final atÃ© trevo Matadouro 3,3	7515117,763	620714,312	-22,4660161	-43,8267101
5 - Final atÃ© trevo Matadouro 3,3	7515127,039	620703,578	-22,46593308	-43,82681511
5 - Final atÃ© trevo Matadouro 3,3	7515153,126	620692,47	-22,46569824	-43,82692504
5 - Final atÃ© trevo Matadouro 3,3	7515178,906	620679,713	-22,4654663	-43,82705097
5 - Final atÃ© trevo Matadouro 3,3	7515281,57	620625,983	-22,46454281	-43,82758093
5 - Final atÃ© trevo Matadouro 3,3	7515297,002	620631,542	-22,46440304	-43,82752807
5 - Final atÃ© trevo Matadouro 3,3	7515320,43	620657,792	-22,46418958	-43,82727476
5 - Final atÃ© trevo Matadouro 3,3	7515347,181	620687,542	-22,46394586	-43,82698769
5 - Final atÃ© trevo Matadouro 3,3	7515380,938	620715,779	-22,46363897	-43,82671586
5 - Final atÃ© trevo Matadouro 3,3	7515434,397	620761,466	-22,46315289	-43,82627594
5 - Final atÃ© trevo Matadouro 3,3	7515434,397	620761,466	-22,46315289	-43,82627594
5 - Final atÃ© trevo Matadouro 3,3	7515488,995	620809,738	-22,46265634	-43,825811
5 - Final atÃ© trevo Matadouro 3,3	7515530,817	620860,031	-22,46227504	-43,82532545
5 - Final atÃ© trevo Matadouro 3,3	7515556,675	620899,894	-22,46203866	-43,82494004
5 - Final atÃ© trevo Matadouro 3,3	7515565,063	620943,124	-22,46195984	-43,82452058
5 - Final atÃ© trevo Matadouro 3,3	7515580,353	621030,11	-22,46181557	-43,82367645
5 - Final atÃ© trevo Matadouro 3,3	7515601,871	621069,982	-22,4616184	-43,82329062
5 - Final atÃ© trevo Matadouro 3,3	7515626,041	621094,119	-22,46139838	-43,82305791
5 - Final atÃ© trevo Matadouro 3,3	7515676,88	621141,184	-22,46093585	-43,82260443
5 - Final atÃ© trevo Matadouro 3,3	7515744,834	621199,49	-22,46031795	-43,82204302
5 - Final atÃ© trevo Matadouro 3,3	7515817,596	621252,946	-22,45965696	-43,82152911
5 - Final atÃ© trevo Matadouro 3,3	7515871,228	621303,906	-22,45916893	-43,821038
5 - Final atÃ© trevo Matadouro 3,3	7515941,559	621391,372	-22,45852748	-43,82019344
5 - Final atÃ© trevo Matadouro 3,3	7516021,132	621503,314	-22,4578008	-43,81911173
5 - Final atÃ© trevo Matadouro 3,3	7516056,976	621560,195	-22,45747301	-43,81856174
5 - Final atÃ© trevo Matadouro 3,3	7516056,976	621560,195	-22,45747301	-43,81856174
5 - Final atÃ© trevo Matadouro 3,3	7516079,579	621632,989	-22,45726367	-43,81785611

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
5 - Final atã trevo Matadouro 3,3	7516089,994	621767,291	-22,45716004	-43,81655185
5 - Final atã trevo Matadouro 3,3	7516101,095	621914,914	-22,45704924	-43,8151182
5 - Final atã trevo Matadouro 3,3	7516115,091	621975,457	-22,45691851	-43,81453095
5 - Final atã trevo Matadouro 3,3	7516153,349	622050,426	-22,4565676	-43,8138054
5 - Final atã trevo Matadouro 3,3	7516199,087	622151,623	-22,45614726	-43,81282556
5 - Final atã trevo Matadouro 3,3	7516242,326	622181,824	-22,45575456	-43,81253541
5 - Final atã trevo Matadouro 3,3	7516318,202	622210,808	-22,45506717	-43,8122596
5 - Final atã trevo Matadouro 3,3	7516400,412	622238,812	-22,45432263	-43,81199381
Rota 5 - BR393 Vazador 6,293m	7516400,185	622238,746	-22,45432469	-43,81199443
Rota 5 - BR393 Vazador 6,293m	7516423,628	622268,489	-22,45411083	-43,81170722
Rota 5 - BR393 Vazador 6,293m	7516432,529	622296,937	-22,4540284	-43,81143148
Rota 5 - BR393 Vazador 6,293m	7516442,714	622349,868	-22,45393261	-43,81091793
Rota 5 - BR393 Vazador 6,293m	7516453,367	622423,016	-22,45383115	-43,81020796
Rota 5 - BR393 Vazador 6,293m	7516453,367	622423,016	-22,45383115	-43,81020796
Rota 5 - BR393 Vazador 6,293m	7516464,504	622487,717	-22,45372593	-43,80958011
Rota 5 - BR393 Vazador 6,293m	7516477,271	622571,824	-22,45360459	-43,80876382
Rota 5 - BR393 Vazador 6,293m	7516487,123	622637,695	-22,45351087	-43,80812451
Rota 5 - BR393 Vazador 6,293m	7516500,443	622722,066	-22,4533845	-43,8073057
Rota 5 - BR393 Vazador 6,293m	7516514,191	622826,132	-22,45325286	-43,80629555
Rota 5 - BR393 Vazador 6,293m	7516528,531	622920,332	-22,45311656	-43,80538132
Rota 5 - BR393 Vazador 6,293m	7516541,874	622993,257	-22,4529908	-43,80467374
Rota 5 - BR393 Vazador 6,293m	7516549,953	623027,944	-22,45291533	-43,80433731
Rota 5 - BR393 Vazador 6,293m	7516572,67	623088,984	-22,45270575	-43,80374594
Rota 5 - BR393 Vazador 6,293m	7516635,071	623214,393	-22,4521331	-43,80253218
Rota 5 - BR393 Vazador 6,293m	7516705,279	623352,573	-22,45148901	-43,80119495
Rota 5 - BR393 Vazador 6,293m	7516763,712	623463,014	-22,45095327	-43,80012635
Rota 5 - BR393 Vazador 6,293m	7516832,105	623596,551	-22,45032589	-43,79883412
Rota 5 - BR393 Vazador 6,293m	7516863,317	623654,822	-22,45003976	-43,79827033
Rota 5 - BR393 Vazador 6,293m	7516917,815	623737,753	-22,44954153	-43,79746876
Rota 5 - BR393 Vazador 6,293m	7516950,895	623780,013	-22,44923968	-43,79706071
Rota 5 - BR393 Vazador 6,293m	7516978,6	623809,13	-22,44898734	-43,79677994
Rota 5 - BR393 Vazador 6,293m	7517089,227	623909,518	-22,44798088	-43,79581313
Rota 5 - BR393 Vazador 6,293m	7517171,129	623984,075	-22,44723572	-43,79509508
Rota 5 - BR393 Vazador 6,293m	7517244,7	624055,57	-22,44656604	-43,79440614
Rota 5 - BR393 Vazador 6,293m	7517313,117	624128,854	-22,44594277	-43,79369942
Rota 5 - BR393 Vazador 6,293m	7517387,217	624206,568	-22,44526785	-43,7929501
Rota 5 - BR393 Vazador 6,293m	7517463,809	624288,573	-22,44457011	-43,7921593
Rota 5 - BR393 Vazador 6,293m	7517466,994	624291,855	-22,44454111	-43,79212766
Rota 5 - BR393 Vazador 6,293m	7517538,063	624366,745	-22,44389376	-43,79140556
Rota 5 - BR393 Vazador 6,293m	7517665,407	624502,443	-22,44273371	-43,79009705
Rota 5 - BR393 Vazador 6,293m	7517745,823	624591,246	-22,44200091	-43,78924052
Rota 5 - BR393 Vazador 6,293m	7517783,207	624634,66	-22,44166009	-43,78882164
Rota 5 - BR393 Vazador 6,293m	7517820,914	624694,094	-22,4413152	-43,78824712

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 5 - BR393 Vazador 6,293m	7517848,619	624760,989	-22,44106008	-43,78759934
Rota 5 - BR393 Vazador 6,293m	7517917,204	624924,274	-22,4404287	-43,78601823
Rota 5 - BR393 Vazador 6,293m	7517989,569	625104,78	-22,43976189	-43,78427012
Rota 5 - BR393 Vazador 6,293m	7518023,278	625176,227	-22,4394522	-43,7835786
Rota 5 - BR393 Vazador 6,293m	7518066,327	625241,341	-22,43905861	-43,78294934
Rota 5 - BR393 Vazador 6,293m	7518133,139	625319,122	-22,43844947	-43,78219889
Rota 5 - BR393 Vazador 6,293m	7518191,693	625382,605	-22,43791595	-43,78158671
Rota 5 - BR393 Vazador 6,293m	7518264,551	625458,265	-22,43725235	-43,78085736
Rota 5 - BR393 Vazador 6,293m	7518297,508	625503,964	-22,43695133	-43,78041595
Rota 5 - BR393 Vazador 6,293m	7518328,799	625550,039	-22,43666532	-43,77997077
Rota 5 - BR393 Vazador 6,293m	7518371,17	625625,519	-22,43627709	-43,77924078
Rota 5 - BR393 Vazador 6,293m	7518423,669	625713,81	-22,43579642	-43,77838711
Rota 5 - BR393 Vazador 6,293m	7518486,107	625818,118	-22,43522481	-43,77737862
Rota 5 - BR393 Vazador 6,293m	7518486,107	625818,118	-22,43522481	-43,77737862
Rota 5 - BR393 Vazador 6,293m	7518531,998	625898,444	-22,43480442	-43,77660184
Rota 5 - BR393 Vazador 6,293m	7518586,019	625985,141	-22,43431011	-43,7757638
Rota 5 - BR393 Vazador 6,293m	7518653,681	626097,44	-22,43369071	-43,77467811
Rota 5 - BR393 Vazador 6,293m	7518700,863	626171,752	-22,43325908	-43,77395988
Rota 5 - BR393 Vazador 6,293m	7518769,878	626251,869	-22,43262982	-43,77318698
Rota 5 - BR393 Vazador 6,293m	7518904,378	626392,751	-22,43140462	-43,77182893
Rota 5 - BR393 Vazador 6,293m	7519000,31	626495,965	-22,43053053	-43,7708338
Rota 5 - BR393 Vazador 6,293m	7519129,61	626634,42	-22,42935245	-43,76949896
Rota 5 - BR393 Vazador 6,293m	7519167,892	626671,782	-22,42900393	-43,76913903
Rota 5 - BR393 Vazador 6,293m	7519208,774	626706,139	-22,42863213	-43,7688085
Rota 5 - BR393 Vazador 6,293m	7519262,111	626747,87	-22,42814731	-43,76840733
Rota 5 - BR393 Vazador 6,293m	7519322,615	626794,052	-22,42759741	-43,76796348
Rota 5 - BR393 Vazador 6,293m	7519377,564	626839,241	-22,42709776	-43,76752885
Rota 5 - BR393 Vazador 6,293m	7519440,525	626904,49	-22,42652426	-43,76689997
Rota 5 - BR393 Vazador 6,293m	7519512,464	626987,217	-22,42586837	-43,76610202
Rota 5 - BR393 Vazador 6,293m	7519607,274	627094,996	-22,42500405	-43,76506253
Rota 5 - BR393 Vazador 6,293m	7519693,442	627193,042	-22,42421849	-43,76411691
Rota 5 - BR393 Vazador 6,293m	7519721,911	627225,864	-22,42395892	-43,76380032
Rota 5 - BR393 Vazador 6,293m	7519736,426	627248,172	-22,42382616	-43,76358476
Rota 5 - BR393 Vazador 6,293m	7519749,43	627280,936	-22,42370627	-43,76326751
Rota 5 - BR393 Vazador 6,293m	7519752,967	627306,792	-22,4236724	-43,76301661
Rota 5 - BR393 Vazador 6,293m	7519752,741	627330,7	-22,42367266	-43,76278432
Rota 5 - BR393 Vazador 6,293m	7519748,315	627349,051	-22,42371128	-43,76260569
Rota 5 - BR393 Vazador 6,293m	7519737,652	627379,695	-22,4238053	-43,76230714



## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Início da Rota 6	7514848,585	620947,158	-22,46843088	-43,82442679
Rota 6 - Principal 13,768m	7514848,585	620947,158	-22,46843088	-43,82442679
Rota 6 - Principal 13,768m	7514892,636	620949,388	-22,46803285	-43,82440847
Rota 6 - Principal 13,768m	7514939,955	620952,498	-22,46760524	-43,82438185
Rota 6 - Principal 13,768m	7514976,286	620956,405	-22,46727681	-43,82434666
Rota 6 - Principal 13,768m	7515024,186	620967,915	-22,46684336	-43,82423845
Rota 6 - Principal 13,768m	7515069,788	620985,324	-22,46643024	-43,82407275
Rota 6 - Principal 13,768m	7515110,963	621014,364	-22,46605628	-43,82379368
Rota 6 - Principal 13,768m	7515133,562	621041,255	-22,46585026	-43,82353407
Rota 6 - Principal 13,768m	7515146,649	621072,34	-22,46572985	-43,82323299
Rota 6 - Principal 13,768m	7515153,397	621095,713	-22,46566725	-43,82300636
Rota 6 - Principal 13,768m	7515164,257	621136,5	-22,46556627	-43,82261082
Rota 6 - Principal 13,768m	7515176,76	621174,307	-22,46545066	-43,82224438
Rota 6 - Principal 13,768m	7515194,026	621219,1	-22,46529153	-43,8218104
Rota 6 - Principal 13,768m	7515216,944	621261,395	-22,46508153	-43,82140113
Rota 6 - Principal 13,768m	7515213,905	621271,386	-22,46510827	-43,82130381
Rota 6 - Principal 13,768m	7515203,278	621276,042	-22,46520393	-43,82125775
Rota 6 - Principal 13,768m	7515186,362	621283,279	-22,46535619	-43,82118612
Rota 6 - Principal 13,768m	7515171,435	621289,769	-22,46549055	-43,82112192
Rota 6 - Principal 13,768m	7515154,165	621298,151	-22,46564595	-43,82103914
Rota 6 - Principal 13,768m	7515140,8	621305,33	-22,46576615	-43,82096835
Rota 6 - Principal 13,768m	7515124,115	621320,328	-22,46591579	-43,82082133
Rota 6 - Principal 13,768m	7515100,695	621349,735	-22,46612523	-43,82053376
Rota 6 - Principal 13,768m	7515086,818	621378,281	-22,46624854	-43,82025529
Rota 6 - Principal 13,768m	7515077,847	621426,573	-22,46632614	-43,81978531
Rota 6 - Principal 13,768m	7515082,336	621442,897	-22,46628442	-43,81962701
Rota 6 - Principal 13,768m	7515098,142	621459,963	-22,46614045	-43,81946237
Rota 6 - Principal 13,768m	7515131,901	621469,135	-22,46583488	-43,81937583
Rota 6 - Principal 13,768m	7515159,95	621473,958	-22,46558119	-43,8193311
Rota 6 - Principal 13,768m	7515177,033	621465,231	-22,46542752	-43,81941722
Rota 6 - Principal 13,768m	7515198,691	621454,459	-22,46523267	-43,81952356
Rota 6 - Principal 13,768m	7515217,348	621446,954	-22,4650647	-43,81959791
Rota 6 - Principal 13,768m	7515233,069	621438,838	-22,46492327	-43,81967799
Rota 6 - Principal 13,768m	7515245,976	621466,042	-22,46480476	-43,81941462
Rota 6 - Principal 13,768m	7515260,347	621499,391	-22,46467259	-43,81909163
Rota 6 - Principal 13,768m	7515248,755	621507,746	-22,46477669	-43,81900955
Rota 6 - Principal 13,768m	7515222,648	621518,621	-22,46501172	-43,81890187
Rota 6 - Principal 13,768m	7515208,937	621518,147	-22,4651356	-43,81890542
Rota 6 - Principal 13,768m	7515190,604	621499,798	-22,46530249	-43,81908233
Rota 6 - Principal 13,768m	7515176,465	621488,156	-22,46543102	-43,81919439
Rota 6 - Principal 13,768m	7515159,906	621474,107	-22,46558159	-43,81932965
Rota 6 - Principal 13,768m	7515135,128	621469,22	-22,46580573	-43,81937525
Rota 6 - Principal 13,768m	7515099,968	621460,046	-22,46612395	-43,81946171
Rota 6 - Principal 13,768m	7515077,586	621455,919	-22,4663264	-43,8195001
Rota 6 - Principal 13,768m	7515059,728	621457,378	-22,4664876	-43,81948456
Rota 6 - Principal 13,768m	7515044,389	621467,392	-22,46662542	-43,81938606

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Principal 13,768m	7515029,363	621474,553	-22,46676064	-43,81931532
Rota 6 - Principal 13,768m	7515020,203	621479,643	-22,46684301	-43,81926516
Rota 6 - Principal 13,768m	7515004,833	621489,04	-22,46698116	-43,81917266
Rota 6 - Principal 13,768m	7514993,497	621495,24	-22,46708311	-43,81911154
Rota 6 - Principal 13,768m	7514983,355	621500,077	-22,46717437	-43,81906376
Rota 6 - Principal 13,768m	7514957,9	621512,584	-22,46740339	-43,81894027
Rota 6 - Principal 13,768m	7514946,544	621517,476	-22,46750561	-43,81889186
Rota 6 - Principal 13,768m	7514934,478	621523,136	-22,46761419	-43,81883592
Rota 6 - Principal 13,768m	7514922,479	621526,344	-22,46772234	-43,81880384
Rota 6 - Principal 13,768m	7514912,109	621527,033	-22,46781595	-43,81879634
Rota 6 - Principal 13,768m	7514907,812	621525,777	-22,46785485	-43,81880822
Rota 6 - Principal 13,768m	7514905,788	621521,912	-22,4678734	-43,81884562
Rota 6 - Principal 13,768m	7514899,233	621516,58	-22,467933	-43,81889694
Rota 6 - Principal 13,768m	7514891,887	621508,88	-22,46799989	-43,81897121
Rota 6 - Principal 13,768m	7514887,131	621505,632	-22,46804308	-43,81900241
Rota 6 - Principal 13,768m	7514882,501	621503,274	-22,46808507	-43,81902497
Rota 6 - Principal 13,768m	7514865,425	621495,605	-22,46823984	-43,81909819
Rota 6 - Principal 13,768m	7514855,789	621492,664	-22,46832708	-43,81912603
Rota 6 - Principal 13,768m	7514848,308	621491,473	-22,46839474	-43,81913703
Rota 6 - Principal 13,768m	7514839,105	621490,902	-22,46847791	-43,81914188
Rota 6 - Principal 13,768m	7514832,705	621490,964	-22,4685357	-43,81914079
Rota 6 - Principal 13,768m	7514826,002	621492,141	-22,46859616	-43,81912884
Rota 6 - Principal 13,768m	7514817,317	621492,941	-22,46867455	-43,8191204
Rota 6 - Principal 13,768m	7514812,797	621494,879	-22,46871523	-43,81910122
Rota 6 - Principal 13,768m	7514803,998	621500,469	-22,46879432	-43,81904622
Rota 6 - Principal 13,768m	7514798,063	621504,605	-22,46884763	-43,81900556
Rota 6 - Principal 13,768m	7514792,958	621507,982	-22,46889349	-43,81897236
Rota 6 - Principal 13,768m	7514788,093	621510,871	-22,46893723	-43,81894391
Rota 6 - Principal 13,768m	7514781,205	621513,835	-22,46899924	-43,81891458
Rota 6 - Principal 13,768m	7514774,67	621515,234	-22,46905815	-43,81890048
Rota 6 - Principal 13,768m	7514763,407	621511,346	-22,46916016	-43,8189374
Rota 6 - Principal 13,768m	7514753,891	621503,653	-22,46924666	-43,81901144
Rota 6 - Principal 13,768m	7514743,956	621493,474	-22,46933711	-43,8191096
Rota 6 - Principal 13,768m	7514731,102	621484,859	-22,46945383	-43,81919234
Rota 6 - Principal 13,768m	7514723,635	621479,502	-22,46952166	-43,81924383
Rota 6 - Principal 13,768m	7514711,383	621470,491	-22,46963296	-43,81933046
Rota 6 - Principal 13,768m	7514706,078	621466,294	-22,46968117	-43,81937084
Rota 6 - Principal 13,768m	7514686,927	621439,606	-22,46985604	-43,81962874
Rota 6 - Principal 13,768m	7514669,606	621417,63	-22,47001405	-43,81984098
Rota 6 - Principal 13,768m	7514654,271	621397,373	-22,470154	-43,82003667
Rota 6 - Principal 13,768m	7514644,396	621383,289	-22,4702442	-43,82017278
Rota 6 - Principal 13,768m	7514622,089	621350,027	-22,47044803	-43,82049433
Rota 6 - Principal 13,768m	7514610,778	621331,421	-22,47055152	-43,82067428
Rota 6 - Principal 13,768m	7514609,258	621320,612	-22,47056602	-43,82077921
Rota 6 - Principal 13,768m	7514633,086	621265,283	-22,47035473	-43,82131874
Rota 6 - Principal 13,768m	7514638,799	621252,808	-22,47030402	-43,82144041

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Principal 13,768m	7514655,628	621239,947	-22,47015293	-43,82156667
Rota 6 - Principal 13,768m	7514705,781	621205,863	-22,46970236	-43,82190175
Rota 6 - Principal 13,768m	7514703,372	621193,055	-22,46972503	-43,82202603
Rota 6 - Principal 13,768m	7514698,527	621173,841	-22,46977015	-43,82221239
Rota 6 - Principal 13,768m	7514687,014	621117,79	-22,46987812	-43,82275623
Rota 6 - Principal 13,768m	7514681,734	621103,425	-22,46992683	-43,82289543
Rota 6 - Principal 13,768m	7514681,042	621073,174	-22,46993522	-43,82318937
Rota 6 - Principal 13,768m	7514688,852	621046,831	-22,46986655	-43,82344597
Rota 6 - Principal 13,768m	7514689,978	621008,203	-22,46985912	-43,82382145
Rota 6 - Principal 13,768m	7514692,123	620992,699	-22,46984084	-43,82397228
Rota 6 - Principal 13,768m	7514693,384	620983,18	-22,46983013	-43,82406489
Rota 6 - Principal 13,768m	7514700,722	620964,059	-22,46976521	-43,82425127
Rota 6 - Principal 13,768m	7514710,434	620950,398	-22,46967845	-43,82438477
Rota 6 - Principal 13,768m	7514724,159	620946,417	-22,46955477	-43,8244245
Rota 6 - Principal 13,768m	7514744,075	620947,455	-22,4693748	-43,82441594
Rota 6 - Principal 13,768m	7514825,554	620948,889	-22,46863878	-43,82440821
Rota 6 - Principal 13,768m	7514836,531	620947,69	-22,46853972	-43,8244207
Rota 6 - Principal 13,768m	7514845,813	620956,606	-22,46845525	-43,82433476
Rota 6 - Principal 13,768m	7514861,783	620984,673	-22,46830902	-43,82406322
Rota 6 - Principal 13,768m	7514873,342	621005,907	-22,46820311	-43,82385774
Rota 6 - Principal 13,768m	7514881,147	621017,408	-22,4681318	-43,82374657
Rota 6 - Principal 13,768m	7514893,579	621027,326	-22,46801881	-43,82365114
Rota 6 - Principal 13,768m	7514907,618	621023,435	-22,46789228	-43,82369002
Rota 6 - Principal 13,768m	7514923,096	621016,186	-22,46775299	-43,82376165
Rota 6 - Principal 13,768m	7514939,209	621007,736	-22,46760806	-43,823845
Rota 6 - Principal 13,768m	7514960,149	621002,513	-22,4674193	-43,82389735
Rota 6 - Principal 13,768m	7514976,263	621003,096	-22,46727371	-43,82389291
Rota 6 - Principal 13,768m	7515048,069	621016,617	-22,46662419	-43,82376699
Rota 6 - Principal 13,768m	7515064,371	621034,515	-22,46647568	-43,8235943
Rota 6 - Principal 13,768m	7515081,154	621055,749	-22,46632259	-43,82338923
Rota 6 - Principal 13,768m	7515092,112	621073,529	-22,46622236	-43,82321727
Rota 6 - Principal 13,768m	7515095,661	621085,465	-22,46618946	-43,82310155
Rota 6 - Principal 13,768m	7515094,076	621098,582	-22,46620285	-43,82297396
Rota 6 - Principal 13,768m	7515090,245	621109,186	-22,46623669	-43,82287061
Rota 6 - Principal 13,768m	7515082,884	621116,677	-22,46630264	-43,82279725
Rota 6 - Principal 13,768m	7515075,728	621127,016	-22,46636655	-43,82269624
Rota 6 - Principal 13,768m	7515068,665	621133,257	-22,4664299	-43,82263505
Rota 6 - Principal 13,768m	7515079,504	621154,26	-22,4663305	-43,82243177
Rota 6 - Principal 13,768m	7515090,677	621175,343	-22,4662281	-43,82222773
Rota 6 - Principal 13,768m	7515106,122	621207,735	-22,46608629	-43,82191413
Rota 6 - Principal 13,768m	7515122,742	621234,81	-22,46593426	-43,82165229
Rota 6 - Principal 13,768m	7515148,847	621285,718	-22,46569486	-43,82115955
Rota 6 - Principal 13,768m	7515155,418	621297,637	-22,46563467	-43,82104423
Rota 6 - Principal 13,768m	7515184,409	621284,1	-22,46537377	-43,82117799
Rota 6 - Principal 13,768m	7515201,307	621276,903	-22,46522166	-43,82124923
Rota 6 - Principal 13,768m	7515211,854	621272,093	-22,46512674	-43,82129678

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Principal 13,768m	7515216,883	621262,451	-22,465082	-43,82139086
Rota 6 - Principal 13,768m	7515194,724	621220,373	-22,46528514	-43,82179808
Rota 6 - Principal 13,768m	7515176,962	621175,9	-22,46544872	-43,82222891
Rota 6 - Principal 13,768m	7515165,138	621138,019	-22,4655582	-43,82259613
Rota 6 - Principal 13,768m	7515153,678	621097,412	-22,46566459	-43,82298988
Rota 6 - Principal 13,768m	7515147,361	621074,611	-22,46572326	-43,82321097
Rota 6 - Principal 13,768m	7515134,295	621043,572	-22,46584348	-43,82351161
Rota 6 - Principal 13,768m	7515111,891	621015,919	-22,4660478	-43,82377863
Rota 6 - Principal 13,768m	7515071,517	620986,526	-22,46641454	-43,8240612
Rota 6 - Principal 13,768m	7515025,403	620968,639	-22,46683232	-43,82423151
Rota 6 - Principal 13,768m	7514978,063	620956,937	-22,46726072	-43,82434163
Rota 6 - Principal 13,768m	7514941,657	620952,817	-22,46758984	-43,82437889
Rota 6 - Principal 13,768m	7514894,045	620949,084	-22,46802015	-43,82441154
Rota 6 - Principal 13,768m	7514849,708	620947,323	-22,46842073	-43,82442527
Rota 6 - Principal 13,768m	7514839,107	620939,073	-22,46851706	-43,82450463
Rota 6 - Principal 13,768m	7514837,751	620930,314	-22,46852992	-43,82458965
Rota 6 - Principal 13,768m	7514835,642	620924,912	-22,46854936	-43,824642
Rota 6 - Principal 13,768m	7514825,931	620928,3	-22,46863683	-43,82460833
Rota 6 - Principal 13,768m	7514804,271	620926,081	-22,46883263	-43,82462824
Rota 6 - Principal 13,768m	7514784,897	620926,943	-22,46900756	-43,82461839
Rota 6 - Principal 13,768m	7514771,01	620925,551	-22,46913308	-43,82463086
Rota 6 - Principal 13,768m	7514767,315	620918,479	-22,46916696	-43,8246993
Rota 6 - Principal 13,768m	7514771,044	620909,451	-22,46913391	-43,82478732
Rota 6 - Principal 13,768m	7514780,719	620898,933	-22,46904727	-43,82489027
Rota 6 - Principal 13,768m	7514791,119	620889,722	-22,46895399	-43,82498058
Rota 6 - Principal 13,768m	7514802,131	620881,639	-22,4688551	-43,82505998
Rota 6 - Principal 13,768m	7514805,67	620875,89	-22,46882355	-43,82511611
Rota 6 - Principal 13,768m	7514790,63	620856,209	-22,46896078	-43,82530623
Rota 6 - Principal 13,768m	7514778,55	620845,833	-22,46907062	-43,82540615
Rota 6 - Principal 13,768m	7514769,543	620842,905	-22,46915218	-43,82543392
Rota 6 - Principal 13,768m	7514754,098	620844,208	-22,46929159	-43,82542008
Rota 6 - Principal 13,768m	7514740,686	620847,243	-22,46941251	-43,82538957
Rota 6 - Principal 13,768m	7514730,449	620854,593	-22,46950446	-43,82531735
Rota 6 - Principal 13,768m	7514721,054	620865,995	-22,4695885	-43,82520583
Rota 6 - Principal 13,768m	7514698,427	620912,431	-22,46978959	-43,82475283
Rota 6 - Principal 13,768m	7514688,787	620938,464	-22,46987482	-43,8244991
Rota 6 - Principal 13,768m	7514683,412	620968,755	-22,46992122	-43,82420432
Rota 6 - Principal 13,768m	7514676,972	621041,271	-22,46997424	-43,8234991
Rota 6 - Principal 13,768m	7514676,066	621056,337	-22,46998136	-43,82335261
Rota 6 - Principal 13,768m	7514672,51	621079,02	-22,47001187	-43,8231319
Rota 6 - Principal 13,768m	7514667,106	621094,03	-22,47005962	-43,82298562
Rota 6 - Principal 13,768m	7514659,11	621101,881	-22,47013127	-43,82290871
Rota 6 - Principal 13,768m	7514636,395	621110,259	-22,47033585	-43,82282555
Rota 6 - Principal 13,768m	7514625,285	621116,931	-22,47043572	-43,82275987
Rota 6 - Principal 13,768m	7514587,59	621139,34	-22,4707746	-43,82253921
Rota 6 - Principal 13,768m	7514564,162	621152,791	-22,47098525	-43,8224067

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Principal 13,768m	7514550,9	621160,687	-22,47110447	-43,82232895
Rota 6 - Principal 13,768m	7514409,118	621245,279	-22,47237906	-43,82149603
Rota 6 - Principal 13,768m	7514376,401	621263,744	-22,47267325	-43,82131407
Rota 6 - Principal 13,768m	7514358,853	621272,569	-22,47283112	-43,82122697
Rota 6 - Principal 13,768m	7514334,886	621293,292	-22,47304612	-43,82102373
Rota 6 - Principal 13,768m	7514316,027	621308,743	-22,47321536	-43,82087213
Rota 6 - Principal 13,768m	7514300,556	621320,944	-22,47335423	-43,82075238
Rota 6 - Principal 13,768m	7514269,778	621335,741	-22,47363116	-43,82060622
Rota 6 - Principal 13,768m	7514243,557	621350,418	-22,47386696	-43,82046158
Rota 6 - Principal 13,768m	7514229,156	621364,493	-22,47399603	-43,82032369
Rota 6 - Principal 13,768m	7514208,776	621386,774	-22,47417851	-43,82010559
Rota 6 - Principal 13,768m	7514198,362	621399,476	-22,47427167	-43,81998135
Rota 6 - Principal 13,768m	7514170,565	621425,524	-22,47452089	-43,81972607
Rota 6 - Principal 13,768m	7514157,777	621439,311	-22,47463541	-43,8195911
Rota 6 - Principal 13,768m	7514143,201	621454,212	-22,474766	-43,81944517
Rota 6 - Principal 13,768m	7514128,561	621468,609	-22,47489721	-43,81930413
Rota 6 - Principal 13,768m	7514128,561	621468,609	-22,47489721	-43,81930413
Rota 6 - Principal 13,768m	7514121,42	621475,486	-22,47496122	-43,81923675
Rota 6 - Principal 13,768m	7514107,708	621481,801	-22,47508461	-43,81917433
Rota 6 - Principal 13,768m	7514093,206	621487,438	-22,4752152	-43,81911843
Rota 6 - Principal 13,768m	7514072,863	621487,125	-22,47539896	-43,81911992
Rota 6 - Principal 13,768m	7514052,21	621487,776	-22,47558545	-43,81911201
Rota 6 - Principal 13,768m	7513987,037	621485,897	-22,47617424	-43,81912528
Rota 6 - Principal 13,768m	7513964,589	621489,921	-22,4763767	-43,81908445
Rota 6 - Principal 13,768m	7513951,03	621513,284	-22,47649751	-43,81885635
Rota 6 - Principal 13,768m	7513942,107	621533,979	-22,47657663	-43,81865454
Rota 6 - Principal 13,768m	7513931,204	621559,628	-22,47667327	-43,81840443
Rota 6 - Principal 13,768m	7513920,346	621592,85	-22,47676898	-43,81808072
Rota 6 - Principal 13,768m	7513910,46	621615,363	-22,47685667	-43,81786117
Rota 6 - Principal 13,768m	7513891,825	621663,846	-22,47702153	-43,81738855
Rota 6 - Principal 13,768m	7513902,081	621694,025	-22,47692674	-43,81709603
Rota 6 - Principal 13,768m	7513913,207	621715,347	-22,47682473	-43,81688966
Rota 6 - Principal 13,768m	7513938,322	621745,611	-22,47659573	-43,81659746
Rota 6 - Principal 13,768m	7513955,448	621753,18	-22,47644051	-43,81652522
Rota 6 - Principal 13,768m	7513968,19	621755,807	-22,47632523	-43,81650066
Rota 6 - Principal 13,768m	7513968,19	621755,807	-22,47632523	-43,81650066
Rota 6 - Principal 13,768m	7513986,044	621761,003	-22,4761636	-43,81645153
Rota 6 - Principal 13,768m	7513999,727	621762,759	-22,47603989	-43,81643552
Rota 6 - Principal 13,768m	7514010,951	621769,525	-22,47593803	-43,81637062
Rota 6 - Principal 13,768m	7514016,746	621792,446	-22,47588405	-43,81614831
Rota 6 - Principal 13,768m	7514035,817	621842,903	-22,4757082	-43,8156594
Rota 6 - Principal 13,768m	7513997,285	621857,171	-22,47605521	-43,81551777
Rota 6 - Principal 13,768m	7513986,966	621816,449	-22,47615132	-43,81591274
Rota 6 - Principal 13,768m	7513981,197	621795,345	-22,47620493	-43,81611741
Rota 6 - Principal 13,768m	7513972,547	621781,34	-22,47628406	-43,81625285
Rota 6 - Principal 13,768m	7513957,454	621764,12	-22,47642161	-43,81641905

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Principal 13,768m	7513944,004	621750,958	-22,47654403	-43,81654593
Rota 6 - Principal 13,768m	7513926,888	621732,551	-22,47669993	-43,81672351
Rota 6 - Principal 13,768m	7513895,091	621703,864	-22,47698917	-43,81699987
Rota 6 - Principal 13,768m	7513873,146	621690,318	-22,47718835	-43,81712984
Rota 6 - Principal 13,768m	7513852,736	621683,014	-22,47737322	-43,81719925
Rota 6 - Principal 13,768m	7513829,734	621675,355	-22,47758152	-43,81727193
Rota 6 - Principal 13,768m	7513817,785	621675,551	-22,47768943	-43,81726911
Rota 6 - Principal 13,768m	7513767,319	621679,916	-22,47814493	-43,81722282
Rota 6 - Principal 13,768m	7513743,103	621682,959	-22,47836344	-43,81719138
Rota 6 - Principal 13,768m	7513731,161	621683,844	-22,47847123	-43,81718186
Rota 6 - Principal 13,768m	7513724,679	621679,925	-22,47853006	-43,81721945
Rota 6 - Principal 13,768m	7513721,864	621664,625	-22,47855658	-43,81736793
Rota 6 - Principal 13,768m	7513720,043	621654,073	-22,47857377	-43,81747035
Rota 6 - Principal 13,768m	7513714,472	621652,375	-22,47862421	-43,81748642
Rota 6 - Principal 13,768m	7513710,255	621649,844	-22,47866249	-43,8175107
Rota 6 - Principal 13,768m	7513621,785	621626,094	-22,47946324	-43,81773474
Rota 6 - Principal 13,768m	7513606,043	621623,612	-22,4796056	-43,81775765
Rota 6 - Principal 13,768m	7513579,014	621608,899	-22,47985078	-43,81789858
Rota 6 - Principal 13,768m	7513566,61	621595,562	-22,47996377	-43,81802724
Rota 6 - Principal 13,768m	7513561,98	621576,797	-22,48000692	-43,81820927
Rota 6 - Principal 13,768m	7513558,868	621572,093	-22,48003537	-43,81825475
Rota 6 - Principal 13,768m	7513543,985	621583,287	-22,48016899	-43,81814481
Rota 6 - Principal 13,768m	7513533,091	621594,579	-22,48026658	-43,81803423
Rota 6 - Principal 13,768m	7513513,25	621601,417	-22,48044531	-43,81796625
Rota 6 - Principal 13,768m	7513499,376	621605,064	-22,48057036	-43,81792974
Rota 6 - Principal 13,768m	7513486,299	621609,718	-22,48068814	-43,81788351
Rota 6 - Principal 13,768m	7513448,641	621610,088	-22,48102824	-43,81787702
Rota 6 - Principal 13,768m	7513410,252	621607,219	-22,48137518	-43,81790196
Rota 6 - Principal 13,768m	7513371,532	621605,567	-22,48172502	-43,81791505
Rota 6 - Principal 13,768m	7513358,077	621605,381	-22,48184656	-43,81791583
Rota 6 - Principal 13,768m	7513352,008	621603,811	-22,48190149	-43,81793062
Rota 6 - Principal 13,768m	7513329,584	621601,82	-22,48210416	-43,81794825
Rota 6 - Principal 13,768m	7513276,332	621586,208	-22,48258625	-43,8180959
Rota 6 - Principal 13,768m	7513251,843	621577,646	-22,48280805	-43,81817724
Rota 6 - Principal 13,768m	7513197,865	621555,879	-22,48329714	-43,81838466
Rota 6 - Principal 13,768m	7513165,795	621539,912	-22,48358793	-43,81853738
Rota 6 - Principal 13,768m	7513133,643	621526,004	-22,48387933	-43,8186701
Rota 6 - Principal 13,768m	7513067,813	621496,569	-22,48447601	-43,81895114
Rota 6 - Principal 13,768m	7513047,358	621490,65	-22,48466118	-43,81900709
Rota 6 - Principal 13,768m	7513015,524	621486,773	-22,48494898	-43,81904234
Rota 6 - Principal 13,768m	7512984,682	621491,473	-22,48522722	-43,81899429
Rota 6 - Principal 13,768m	7512973,592	621496,185	-22,48532704	-43,81894764
Rota 6 - Principal 13,768m	7512967,747	621498,686	-22,48537966	-43,81892289
Rota 6 - Principal 13,768m	7512923,526	621528,745	-22,48577693	-43,81862735
Rota 6 - Principal 13,768m	7512913,201	621543,216	-22,48586915	-43,8184859
Rota 6 - Principal 13,768m	7512912,474	621544,443	-22,48587563	-43,81847392

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Principal 13,768m	7512894,463	621563,687	-22,48603694	-43,81828551
Rota 6 - Principal 13,768m	7512866,009	621591,09	-22,48629198	-43,81801698
Rota 6 - Principal 13,768m	7512866,553	621600,575	-22,48628639	-43,81792484
Rota 6 - Principal 13,768m	7512875,593	621604,01	-22,4862045	-43,81789214
Rota 6 - Principal 13,768m	7512897,081	621604,384	-22,48601039	-43,81789016
Rota 6 - Principal 13,768m	7512929,07	621602,094	-22,48572162	-43,81791487
Rota 6 - Principal 13,768m	7512949,041	621601,763	-22,48554127	-43,81791962
Rota 6 - Principal 13,768m	7512967,052	621599,849	-22,48537873	-43,8179396
Rota 6 - Principal 13,768m	7513064,45	621590,471	-22,48449969	-43,81803822
Rota 6 - Principal 13,768m	7513112,613	621586,442	-22,48406496	-43,81808107
Rota 6 - Principal 13,768m	7513188,609	621580,123	-22,48337901	-43,81814832
Rota 6 - Principal 13,768m	7513213,27	621578,132	-22,48315641	-43,81816956
Rota 6 - Principal 13,768m	7513220,445	621573,186	-22,48309196	-43,81821818
Rota 6 - Principal 13,768m	7513220,328	621567,436	-22,48309343	-43,81827405
Rota 6 - Principal 13,768m	7513200,535	621557,364	-22,48327291	-43,81837043
Rota 6 - Principal 13,768m	7513168,325	621541,212	-22,48356499	-43,81852495
Rota 6 - Principal 13,768m	7513135,848	621527,057	-22,48385934	-43,81866003
Rota 6 - Principal 13,768m	7513069,752	621497,648	-22,48445841	-43,8189408
Rota 6 - Principal 13,768m	7513050,175	621491,462	-22,48463568	-43,81899942
Rota 6 - Principal 13,768m	7513018,197	621487,107	-22,48492481	-43,8190393
Rota 6 - Principal 13,768m	7512986,889	621490,969	-22,48520731	-43,81899936
Rota 6 - Principal 13,768m	7512965,876	621500,049	-22,48539647	-43,8189095
Rota 6 - Principal 13,768m	7512922,281	621530,762	-22,48578803	-43,81860765
Rota 6 - Principal 13,768m	7512910,941	621546,491	-22,48588933	-43,8184539
Rota 6 - Principal 13,768m	7512891,527	621565,759	-22,48606331	-43,81826514
Rota 6 - Principal 13,768m	7512866,006	621592,794	-22,48629189	-43,81800042
Rota 6 - Principal 13,768m	7512831,469	621625,467	-22,48660151	-43,81768021
Rota 6 - Principal 13,768m	7512823,453	621631,14	-22,4866735	-43,81762446
Rota 6 - Principal 13,768m	7512800,668	621646,896	-22,48687817	-43,81746957
Rota 6 - Principal 13,768m	7512786,618	621652,812	-22,48700465	-43,81741099
Rota 6 - Principal 13,768m	7512768,152	621659,393	-22,48717097	-43,81734561
Rota 6 - Principal 13,768m	7512748,116	621665,903	-22,48735147	-43,8172808
Rota 6 - Principal 13,768m	7512706,276	621675,348	-22,4877287	-43,81718579
Rota 6 - Principal 13,768m	7512694,311	621653,792	-22,48783831	-43,81739438
Rota 6 - Principal 13,768m	7512677,703	621621,051	-22,48799065	-43,81771133
Rota 6 - Principal 13,768m	7512663,334	621598,891	-22,48812201	-43,81792562
Rota 6 - Principal 13,768m	7512642,804	621564,028	-22,48830992	-43,8182629
Rota 6 - Principal 13,768m	7512634,688	621551,388	-22,48838413	-43,81838513
Rota 6 - Principal 13,768m	7512690,354	621506,343	-22,48788456	-43,81882721
Rota 6 - Principal 13,768m	7512730,604	621482,148	-22,48752274	-43,81906545
Rota 6 - Principal 13,768m	7512738,257	621475,894	-22,48745406	-43,81912683
Rota 6 - Principal 13,768m	7512812,165	621436,438	-22,48678932	-43,81951598
Rota 6 - Principal 13,768m	7512868,092	621413,901	-22,48628579	-43,81973931
Rota 6 - Principal 13,768m	7512917,284	621403,889	-22,4858422	-43,81984039
Rota 6 - Principal 13,768m	7512981,585	621396,063	-22,48526198	-43,81992138
Rota 6 - Principal 13,768m	7513068,088	621393,724	-22,48448084	-43,81995073

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Principal 13,768m	7513156,385	621397,798	-22,48368304	-43,8199179
Rota 6 - Principal 13,768m	7513249,885	621406,967	-22,48283789	-43,81983595
Rota 6 - Principal 13,768m	7513308,933	621410,047	-22,48230434	-43,81981053
Rota 6 - Principal 13,768m	7513360,256	621404,998	-22,48184114	-43,81986353
Rota 6 - Principal 13,768m	7513361,849	621404,982	-22,48182676	-43,81986381
Rota 6 - Principal 13,768m	7513433,683	621384,132	-22,48117943	-43,82007195
Rota 6 - Principal 13,768m	7513462,87	621372,004	-22,48091668	-43,82019206
Rota 6 - Principal 13,768m	7513490,939	621353,385	-22,48066448	-43,82037516
Rota 6 - Principal 13,768m	7513553,233	621317,067	-22,48010442	-43,8207329
Rota 6 - Principal 13,768m	7513595,064	621296,616	-22,47972804	-43,82093486
Rota 6 - Principal 13,768m	7513597,925	621292,888	-22,47970246	-43,82097131
Rota 6 - Principal 13,768m	7513653,467	621271,573	-22,47920232	-43,82118272
Rota 6 - Principal 13,768m	7513701,35	621263,481	-22,47877041	-43,82126503
Rota 6 - Principal 13,768m	7513773,206	621266,326	-22,4781212	-43,82124287
Rota 6 - Principal 13,768m	7513838,96	621289,727	-22,47752564	-43,82102047
Rota 6 - Principal 13,768m	7513880,077	621319,623	-22,47715214	-43,82073306
Rota 6 - Principal 13,768m	7513908,975	621336,354	-22,47688994	-43,82057267
Rota 6 - Principal 13,768m	7513973,634	621357,283	-22,47630444	-43,82037421
Rota 6 - Principal 13,768m	7514013,73	621354,55	-22,47594248	-43,82040383
Rota 6 - Principal 13,768m	7514049,217	621342,784	-22,4756228	-43,8205209
Rota 6 - Principal 13,768m	7514071,871	621324,144	-22,47541951	-43,82070379
Rota 6 - Principal 13,768m	7514115,204	621286,551	-22,4750308	-43,82107245
Rota 6 - Principal 13,768m	7514155,296	621247,791	-22,47467143	-43,82145221
Rota 6 - Principal 13,768m	7514157,848	621228,534	-22,47464975	-43,82163956
Rota 6 - Principal 13,768m	7514152,375	621214,044	-22,47470021	-43,82177996
Rota 6 - Principal 13,768m	7514197,257	621189,785	-22,47429655	-43,82201915
Rota 6 - Principal 13,768m	7514217,837	621172,795	-22,47411188	-43,82218584
Rota 6 - Principal 13,768m	7514285,658	621108,66	-22,47350386	-43,82281432
Rota 6 - Principal 13,768m	7514332,89	621071,687	-22,47307988	-43,82317725
Rota 6 - Principal 13,768m	7514376,035	621044,257	-22,47269213	-43,82344712
Rota 6 - Principal 13,768m	7514421,283	621003,06	-22,47228637	-43,82385093
Rota 6 - Principal 13,768m	7514424,953	620987,78	-22,47225431	-43,82399972
Rota 6 - Principal 13,768m	7514398,536	620960,341	-22,47249485	-43,82426437
Rota 6 - Principal 13,768m	7514445,625	620903,853	-22,47207354	-43,82481693
Rota 6 - Principal 13,768m	7514460,151	620877,552	-22,4719442	-43,82507364
Rota 6 - Principal 13,768m	7514462,431	620859,583	-22,47192488	-43,82524844
Rota 6 - Principal 13,768m	7514422,191	620789,378	-22,4722933	-43,82592766
Rota 6 - Principal 13,768m	7514422,191	620789,378	-22,4722933	-43,82592766
Rota 6 - Principal 13,768m	7514361,317	620727,538	-22,47284749	-43,82652402
Rota 6 - Principal 13,768m	7514335,789	620708,05	-22,47307945	-43,82671147
Rota 6 - Principal 13,768m	7514295,513	620691,617	-22,47344438	-43,82686811
Rota 6 - Principal 13,768m	7514263,757	620677,084	-22,47373224	-43,82700694
Rota 6 - Principal 13,768m	7514242,093	620665,236	-22,47392875	-43,82712043
Rota 6 - Principal 13,768m	7514220,67	620657,213	-22,47412282	-43,82719677
Rota 6 - Principal 13,768m	7514201,004	620651,298	-22,47430085	-43,82725276
Rota 6 - Principal 13,768m	7514181,172	620657,654	-22,47447954	-43,82718948



## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Principal 13,768m	7514163,623	620660,897	-22,47463781	-43,82715663
Rota 6 - Principal 13,768m	7514149,413	620662,464	-22,47476604	-43,82714032
Rota 6 - Principal 13,768m	7514123,911	620660,101	-22,47499655	-43,82716134
Rota 6 - Principal 13,768m	7514109,273	620641,799	-22,47513006	-43,8273381
Rota 6 - Principal 13,768m	7514071,892	620589,945	-22,47547135	-43,82783921
Rota 6 - Principal 13,768m	7514001,191	620499,442	-22,47611632	-43,82871341
Rota 6 - Principal 13,768m	7513989,792	620451,236	-22,47622268	-43,82918105
Rota 6 - Principal 13,768m	7513954,26	620414,693	-22,47654619	-43,82953349
Rota 6 - Principal 13,768m	7513918,324	620374,128	-22,47687363	-43,82992501
Rota 6 - Principal 13,768m	7513918,324	620374,128	-22,47687363	-43,82992501
Rota 6 - Principal 13,768m	7513824,423	620319,354	-22,47772562	-43,83045022
Rota 6 - Principal 13,768m	7513804,359	620293,195	-22,47790868	-43,83070294
Rota 6 - Principal 13,768m	7513721,028	620193,58	-22,47866836	-43,83166476
Rota 6 - Principal 13,768m	7513616,453	620088,24	-22,47962031	-43,83268063
Rota 6 - Principal 13,768m	7513560,111	620022,605	-22,48013382	-43,83331428
Rota 6 - Principal 13,768m	7513542,711	619984,018	-22,48029369	-43,83368798
Rota 6 - Principal 13,768m	7513519,582	619938,255	-22,48050582	-43,83413101
Rota 6 - Principal 13,768m	7513464,65	619866,547	-22,48100702	-43,83482378
Rota 6 - Principal 13,768m	7513438,571	619820,287	-22,48124581	-43,83527142
Rota 6 - Principal 13,768m	7513407,714	619766,243	-22,48152831	-43,83579435
Rota 6 - Principal 13,768m	7513288,287	619586,959	-22,48261957	-43,83752782
Rota 6 - Principal 13,768m	7513276,395	619581,973	-22,48272733	-43,83757539
Rota 6 - Principal 13,768m	7513267,867	619581,466	-22,48280439	-43,83757968
Rota 6 - Principal 13,768m	7513260,704	619584,713	-22,48286886	-43,83754757
Rota 6 - Principal 13,768m	7513241,004	619603,201	-22,4830455	-43,8373664
Rota 6 - Principal 13,768m	7513228,281	619627,408	-22,48315871	-43,83713017
Rota 6 - Principal 13,768m	7513242,839	619632,181	-22,48302689	-43,83708488
Rota 6 - Principal 13,768m	7513263	619629,426	-22,48284498	-43,83711317
Rota 6 - Principal 13,768m	7513271,601	619620,536	-22,48276793	-43,83720022
Rota 6 - Principal 13,768m	7513274,122	619611,198	-22,48274581	-43,83729118
Rota 6 - Principal 13,768m	7513269,722	619589,384	-22,48278708	-43,83750285
Rota 6 - Principal 13,768m	7513264,114	619573,871	-22,48283882	-43,8376532
Rota 6 - Principal 13,768m	7513259,603	619543,587	-22,48288168	-43,8379472
Rota 6 - Principal 13,768m	7513257,162	619519,821	-22,48290539	-43,83817801
Rota 6 - Principal 13,768m	7513222,394	619404,023	-22,48322753	-43,83930085
Rota 6 - Principal 13,768m	7513208,974	619355,127	-22,48335216	-43,83977508
Rota 6 - Principal 13,768m	7513187,296	619324,849	-22,48355008	-43,84006772
Rota 6 - Principal 13,768m	7513163,445	619298,182	-22,48376737	-43,84032511
Rota 6 - Principal 13,768m	7513115,168	619261,649	-22,48420597	-43,84067655
Rota 6 - Principal 13,768m	7513113,873	619260,574	-22,48421775	-43,8406869
Rota 6 - Principal 13,768m	7513089,958	619239,089	-22,48443526	-43,84089392
Rota 6 - Principal 13,768m	7513025,396	619163,28	-22,48502368	-43,84162589
Rota 6 - Principal 13,768m	7513003,084	619117,314	-22,48522842	-43,84207097
Rota 6 - Principal 13,768m	7512981,467	619098,115	-22,48542501	-43,84225595
Rota 6 - Principal 13,768m	7512955,926	619083,181	-22,48565674	-43,84239918
Rota 6 - Principal 13,768m	7512932,394	619063,415	-22,48587067	-43,84258953

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Principal 13,768m	7512924,666	619033,326	-22,48594257	-43,84288139
Rota 6 - Principal 13,768m	7512901,551	618981,169	-22,48615499	-43,8433866
Rota 6 - Principal 13,768m	7512882,514	618961,424	-22,48632831	-43,84357708
Rota 6 - Principal 13,768m	7512866,297	618952,809	-22,48647539	-43,8436596
Rota 6 - Principal 13,768m	7512866,297	618952,809	-22,48647539	-43,8436596
Rota 6 - Principal 13,768m	7512824,729	618944,153	-22,48685144	-43,84374061
Rota 6 - Principal 13,768m	7512797,937	618939,689	-22,48709374	-43,84378199
Rota 6 - Principal 13,768m	7512757,617	618935,105	-22,48745823	-43,84382352
Rota 6 - Principal 13,768m	7512705,318	618932,404	-22,4879308	-43,84384585
Rota 6 - Principal 13,768m	7512673,121	618916,63	-22,48822271	-43,84399674
Rota 6 - Principal 13,768m	7512637,348	618872,056	-22,48854892	-43,84442731
Rota 6 - Principal 13,768m	7512630,06	618858,518	-22,4886157	-43,84455835
Rota 6 - Principal 13,768m	7512568,956	618755,825	-22,48917474	-43,84555191
Rota 6 - Principal 13,768m	7512555,459	618731,126	-22,48929838	-43,84579096
Rota 6 - Principal 13,768m	7512520,453	618675,877	-22,4896184	-43,84632534
Rota 6 - Principal 13,768m	7512493,487	618631,952	-22,48986502	-43,84675026
Rota 6 - Principal 13,768m	7512464,317	618596,07	-22,49013098	-43,84709684
Rota 6 - Principal 13,768m	7512464,317	618596,07	-22,49013098	-43,84709684
Rota 6 - Principal 13,768m	7512412,732	618566,06	-22,49059899	-43,84738468
Rota 6 - Principal 13,768m	7512386,836	618559,926	-22,49083332	-43,84744236
Rota 6 - Principal 13,768m	7512360,28	618555,729	-22,49107346	-43,84748117
Rota 6 - Principal 13,768m	7512304,492	618545,348	-22,49157808	-43,84757789
Rota 6 - Principal 13,768m	7512262,388	618535,896	-22,49195902	-43,84766662
Rota 6 - Principal 13,768m	7512238,327	618524,104	-22,49217717	-43,84777943
Rota 6 - Principal 13,768m	7512229,951	618504,767	-22,49225416	-43,84796676
Rota 6 - Principal 13,768m	7512223,274	618494,497	-22,49231518	-43,84806609
Rota 6 - Principal 13,768m	7512201,935	618434,514	-22,49251209	-43,84864752
Rota 6 - Principal 13,768m	7512201,811	618414,765	-22,49251458	-43,84883947
Rota 6 - 95,7m	7515232,842	621439,662	-22,46492526	-43,81966997
Rota 6 - 95,7m	7515320,083	621400,391	-22,46414009	-43,82005827
Rota 6 - 395m	7515279,786	621616,604	-22,46448867	-43,81795405
Rota 6 - 395m	7515295,973	621609,837	-22,46434295	-43,81802106
Rota 6 - 395m	7515312,207	621603,437	-22,46419678	-43,8180845
Rota 6 - 395m	7515336,926	621593,114	-22,46397425	-43,81818671
Rota 6 - 395m	7515352,303	621584,819	-22,46383596	-43,8182685
Rota 6 - 395m	7515374,267	621575,164	-22,46363826	-43,818364
Rota 6 - 395m	7515390,603	621564,082	-22,4634915	-43,81847295
Rota 6 - 395m	7515404,848	621556,177	-22,4633634	-43,81855086
Rota 6 - 395m	7515414,433	621547,975	-22,46327741	-43,8186313
Rota 6 - 395m	7515413,488	621540,83	-22,46328645	-43,81870065
Rota 6 - 395m	7515409,144	621529,472	-22,4633265	-43,8188107
Rota 6 - 395m	7515392,856	621511,695	-22,46347488	-43,8189822
Rota 6 - 395m	7515376,489	621489,99	-22,46362425	-43,81919188
Rota 6 - 395m	7515365,201	621476,537	-22,46372716	-43,81932175
Rota 6 - 395m	7515352,643	621463,381	-22,46384153	-43,81944863
Rota 6 - 395m	7515340,959	621462,854	-22,46394709	-43,81945286

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - 395m	7515325,192	621466,612	-22,46408923	-43,81941513
Rota 6 - 395m	7515310,399	621473,196	-22,46422238	-43,81935002
Rota 6 - 395m	7515299,285	621479,546	-22,46432231	-43,81928746
Rota 6 - 395m	7515284,649	621486,171	-22,46445403	-43,81922196
Rota 6 - 395m	7515270,197	621493,613	-22,46458403	-43,81914853
Rota 6 - 395m	7515260,377	621499,387	-22,46467232	-43,81909167
Rota 6 - 395m	7515266,878	621514,426	-22,46461253	-43,81894602
Rota 6 - 395m	7515275,171	621532,387	-22,46453635	-43,81877211
Rota 6 - Rua dos Pracinhas 160m	7514705,984	621466,075	-22,46968203	-43,81937297
Rota 6 - Rua dos Pracinhas 160m	7514713,3	621480,004	-22,46961496	-43,81923816
Rota 6 - Rua dos Pracinhas 160m	7514724,809	621505,057	-22,46950924	-43,81899556
Rota 6 - Rua dos Pracinhas 160m	7514733,215	621526,54	-22,46943178	-43,81878743
Rota 6 - Rua dos Pracinhas 160m	7514756,652	621552,55	-22,46921824	-43,81853646
Rota 6 - Rua dos Pracinhas 160m	7514785,276	621586,903	-22,46895726	-43,8182048
Rota 6 - Rua dos Pracinhas 160m	7514794,353	621597,085	-22,46887455	-43,81810655
Rota 6 - ColÃ©gio 185m	7514633,642	621264,149	-22,47034979	-43,8213298
Rota 6 - ColÃ©gio 185m	7514619,055	621261,175	-22,47048175	-43,82135758
Rota 6 - ColÃ©gio 185m	7514615,389	621265,499	-22,47051456	-43,82131528
Rota 6 - ColÃ©gio 185m	7514609,563	621281,303	-22,47056605	-43,82116125
Rota 6 - ColÃ©gio 185m	7514604,166	621291,147	-22,4706141	-43,82106517
Rota 6 - ColÃ©gio 185m	7514597,187	621297,974	-22,47067666	-43,82099829
Rota 6 - ColÃ©gio 185m	7514582,914	621302,973	-22,47080522	-43,82094861
Rota 6 - ColÃ©gio 185m	7514575,528	621306,625	-22,47087167	-43,82091256
Rota 6 - ColÃ©gio 185m	7514570,395	621315,067	-22,47091743	-43,82083013
Rota 6 - ColÃ©gio 185m	7514565,301	621332,063	-22,47096223	-43,82066456
Rota 6 - ColÃ©gio 185m	7514566,477	621340,174	-22,47095103	-43,82058583
Rota 6 - ColÃ©gio 185m	7514581,714	621363,556	-22,47081175	-43,82035976
Rota 6 - ColÃ©gio 185m	7514603,484	621390,483	-22,4706132	-43,82009974
Rota 6 - ColÃ©gio 185m	7514606,184	621394,567	-22,47058853	-43,82006026
Rota 6 - 143m	7514121,706	621475,17	-22,47495866	-43,81923984
Rota 6 - 143m	7514129,381	621484,641	-22,47488865	-43,81914838
Rota 6 - 143m	7514139,032	621502,058	-22,47480025	-43,81897985
Rota 6 - 143m	7514150,766	621520,41	-22,47469296	-43,8188024
Rota 6 - 143m	7514159,494	621542,262	-22,47461257	-43,81859069
Rota 6 - 143m	7514167,042	621562,471	-22,47454296	-43,81839488
Rota 6 - 143m	7514180,458	621579,887	-22,47442055	-43,81822664
Rota 6 - 143m	7514199,644	621590,476	-22,4742465	-43,8181252
Rota 6 - 428m	7514100,926	621484,531	-22,47514567	-43,81914727
Rota 6 - 428m	7514106,981	621506,421	-22,47508942	-43,81893499
Rota 6 - 428m	7514115,039	621534,918	-22,47501462	-43,81865867
Rota 6 - 428m	7514121,023	621562,127	-22,47495864	-43,81839469
Rota 6 - 428m	7514123,708	621589,831	-22,47493241	-43,81812565
Rota 6 - 428m	7514131,576	621633,344	-22,47485824	-43,81770337
Rota 6 - 428m	7514135,424	621644,94	-22,47482266	-43,81759097
Rota 6 - 428m	7514169,989	621661,841	-22,47450927	-43,81742936
Rota 6 - 428m	7514207,401	621662,464	-22,47417131	-43,81742618

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - 428m	7514224,714	621658,673	-22,4740152	-43,81746435
Rota 6 - 428m	7514234,633	621649,174	-22,47392629	-43,81755743
Rota 6 - 428m	7514240,93	621644,081	-22,47386978	-43,81760741
Rota 6 - 428m	7514253,655	621647,621	-22,47375459	-43,81757398
Rota 6 - 428m	7514275,07	621666,801	-22,4735598	-43,81738922
Rota 6 - 428m	7514302,419	621711,618	-22,47330959	-43,81695577
Rota 6 - 428m	7514328,394	621758,338	-22,47307165	-43,81650371
Rota 6 - 428m	7514328,394	621758,338	-22,47307165	-43,81650371
Rota 6 - 2x 206m	7513964,802	621490,331	-22,47637475	-43,81908048
Rota 6 - 2x 206m	7513933,806	621479,805	-22,47665546	-43,8191804
Rota 6 - 2x 206m	7513903,233	621466,257	-22,47693256	-43,81930973
Rota 6 - 2x 206m	7513864,257	621446,268	-22,47728602	-43,81950102
Rota 6 - 2x 206m	7513864,257	621446,268	-22,47728602	-43,81950102
Rota 6 - 2x 206m	7513852,451	621439,978	-22,4773931	-43,81956125
Rota 6 - 2x 206m	7513857,238	621433,019	-22,47735036	-43,81962924
Rota 6 - 2x 206m	7513860,522	621426,3	-22,47732118	-43,8196948
Rota 6 - 2x 206m	7513856,051	621416,459	-22,47736225	-43,8197901
Rota 6 - 2x 206m	7513833,052	621396,727	-22,47757139	-43,8199801
Rota 6 - 2x 206m	7513810,191	621384,959	-22,47777871	-43,82009272
Rota 6 - 2x 67,8m	7513853,203	621440,662	-22,47738626	-43,81955465
Rota 6 - 2x 67,8m	7513821,883	621425,62	-22,47767021	-43,81969845
Rota 6 - 2x 67,8m	7513798,263	621417,717	-22,47788412	-43,81977345
Rota 6 - 2x 67,8m	7513790,449	621415,438	-22,47795486	-43,81979499
Rota 6 - 45,7m	7514035,611	621843,138	-22,47571005	-43,8156571
Rota 6 - 45,7m	7514072,739	621816,435	-22,47537661	-43,81591947
Rota 6 - 99,6m	7513997,028	621856,873	-22,47605756	-43,81552065
Rota 6 - 99,6m	7514012,205	621955,242	-22,47591344	-43,81456581
Rota 6 - 205m	7513776,812	622228,402	-22,47801999	-43,81189292
Rota 6 - 205m	7513764,432	622254,237	-22,47812996	-43,81164088
Rota 6 - 205m	7513759,937	622279,703	-22,47816873	-43,81139303
Rota 6 - 205m	7513759,078	622299,103	-22,4781751	-43,81120443
Rota 6 - 205m	7513774,763	622328,552	-22,47803133	-43,81091942
Rota 6 - 205m	7513795,97	622363,616	-22,47783727	-43,81058028
Rota 6 - 205m	7513799,489	622375,908	-22,4778046	-43,81046109
Rota 6 - 205m	7513789,97	622386,485	-22,47788982	-43,81035756
Rota 6 - 205m	7513788,534	622415,75	-22,47790069	-43,81007303
Rota 6 - 153m	7513789,425	622387,18	-22,4778947	-43,81035076
Rota 6 - 153m	7513779,448	622387,237	-22,4779848	-43,81034945
Rota 6 - 153m	7513770,185	622391,627	-22,47806816	-43,81030606
Rota 6 - 153m	7513758,373	622395,273	-22,47817458	-43,81026972
Rota 6 - 153m	7513742,723	622400,261	-22,47831558	-43,81022003
Rota 6 - 153m	7513729,367	622406,359	-22,47843577	-43,81015973
Rota 6 - 153m	7513715,307	622411,89	-22,47856237	-43,81010489
Rota 6 - 153m	7513694,239	622422,301	-22,47875191	-43,81000208
Rota 6 - 153m	7513666,531	622433,941	-22,47900133	-43,80988682
Rota 6 - 153m	7513653,294	622440,003	-22,47912045	-43,80982688

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - 153m	7513648,034	622442,512	-22,47916778	-43,80980209
Rota 6 - 181m	7513759,079	622299,776	-22,47817505	-43,81119788
Rota 6 - 181m	7513745,03	622316,302	-22,47830076	-43,81103619
Rota 6 - 181m	7513742,343	622326,115	-22,47832432	-43,81094061
Rota 6 - 181m	7513731,738	622336,946	-22,47841933	-43,81083452
Rota 6 - 181m	7513718,982	622344,997	-22,47853397	-43,8107553
Rota 6 - 181m	7513703,431	622353,765	-22,4786738	-43,81066888
Rota 6 - 181m	7513684,777	622364,984	-22,47884148	-43,81055841
Rota 6 - 181m	7513664,072	622376,775	-22,47902764	-43,81044221
Rota 6 - 181m	7513651,597	622386,699	-22,4791396	-43,8103448
Rota 6 - 181m	7513628,037	622391,998	-22,47935202	-43,81029149
Rota 6 - 181m	7513613,142	622396,848	-22,4794862	-43,8102432
Rota 6 - Chalezinho 2,531m #####	7513731,327	621683,658	-22,47846974	-43,81718369
Rota 6 - Chalezinho 2,531m #####	7513731,192	621706,349	-22,47846935	-43,81696315
Rota 6 - Chalezinho 2,531m #####	7513736,961	621724,916	-22,47841592	-43,81678314
Rota 6 - Chalezinho 2,531m #####	7513744,813	621748,961	-22,47834328	-43,81655005
Rota 6 - Chalezinho 2,531m #####	7513749,504	621765,326	-22,47829975	-43,81639136
Rota 6 - Chalezinho 2,531m #####	7513750,492	621775,652	-22,47829008	-43,81629108
Rota 6 - Chalezinho 2,531m #####	7513750,492	621775,652	-22,47829008	-43,81629108
Rota 6 - Chalezinho 2,531m #####	7513747,71	621784,327	-22,47831459	-43,81620655
Rota 6 - Chalezinho 2,531m #####	7513736,821	621790,807	-22,47841248	-43,81614274
Rota 6 - Chalezinho 2,531m #####	7513724,25	621801,117	-22,47852529	-43,81604158
Rota 6 - Chalezinho 2,531m #####	7513712,915	621809,105	-22,4786271	-43,81596307
Rota 6 - Chalezinho 2,531m #####	7513698,218	621822,062	-22,47875892	-43,81583602
Rota 6 - Chalezinho 2,531m #####	7513680,193	621840,535	-22,4789204	-43,81565509
Rota 6 - Chalezinho 2,531m #####	7513662,904	621858,26	-22,4790753	-43,8154815
Rota 6 - Chalezinho 2,531m #####	7513652,081	621882,802	-22,4791713	-43,81524215
Rota 6 - Chalezinho 2,531m #####	7513646,611	621903,026	-22,47921926	-43,81504517
Rota 6 - Chalezinho 2,531m #####	7513642,768	621917,959	-22,4792529	-43,81489974
Rota 6 - Chalezinho 2,531m #####	7513640,453	621938,849	-22,47927232	-43,81469654
Rota 6 - Chalezinho 2,531m #####	7513642,838	621971,551	-22,47924843	-43,81437889
Rota 6 - Chalezinho 2,531m #####	7513659,76	621983,936	-22,47909471	-43,81425983
Rota 6 - Chalezinho 2,531m #####	7513678,236	621998,991	-22,47892676	-43,81411494
Rota 6 - Chalezinho 2,531m #####	7513697,268	622007,061	-22,47875428	-43,81403797
Rota 6 - Chalezinho 2,531m #####	7513720,471	622019,942	-22,47854379	-43,81391456
Rota 6 - Chalezinho 2,531m #####	7513732,525	622036,552	-22,47843373	-43,81375406
Rota 6 - Chalezinho 2,531m #####	7513743,13	622069,801	-22,47833557	-43,81343173
Rota 6 - Chalezinho 2,531m #####	7513756,655	622101,388	-22,47821115	-43,81312579
Rota 6 - Chalezinho 2,531m #####	7513764,441	622120,636	-22,47813945	-43,81293932
Rota 6 - Chalezinho 2,531m #####	7513770,549	622144,052	-22,4780826	-43,81271221
Rota 6 - Chalezinho 2,531m #####	7513772,377	622173,218	-22,478064	-43,8124289
Rota 6 - Chalezinho 2,531m #####	7513774,855	622190,173	-22,47804041	-43,81226431
Rota 6 - Chalezinho 2,531m #####	7513776,237	622211,875	-22,47802637	-43,8120535
Rota 6 - Chalezinho 2,531m #####	7513776,61	622228,708	-22,4780218	-43,81188993
Rota 6 - Chalezinho 2,531m #####	7513804,146	622253,481	-22,47777131	-43,81165129
Rota 6 - Chalezinho 2,531m #####	7513804,146	622253,481	-22,47777131	-43,81165129

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Chalezinho 2,531m #####	7513813,352	622266,264	-22,47768725	-43,81152776
Rota 6 - Chalezinho 2,531m #####	7513813,256	622266,359	-22,47768812	-43,81152683
Rota 6 - Chalezinho 2,531m #####	7513829,217	622305,803	-22,47754112	-43,81114472
Rota 6 - Chalezinho 2,531m #####	7513858,114	622345,203	-22,4772773	-43,81076403
Rota 6 - Chalezinho 2,531m #####	7513867,041	622357,853	-22,47719577	-43,81064178
Rota 6 - Chalezinho 2,531m #####	7513867,891	622366,66	-22,47718746	-43,81055625
Rota 6 - Chalezinho 2,531m #####	7513858,713	622387,023	-22,47726889	-43,81035764
Rota 6 - Chalezinho 2,531m #####	7513857,051	622392,958	-22,47728348	-43,81029983
Rota 6 - Chalezinho 2,531m #####	7513858,548	622419,302	-22,47726807	-43,81004391
Rota 6 - Chalezinho 2,531m #####	7513854,061	622457,079	-22,47730588	-43,80967642
Rota 6 - Chalezinho 2,531m #####	7513848,961	622498,036	-22,47734901	-43,80927798
Rota 6 - Chalezinho 2,531m #####	7513849,558	622520,149	-22,47734203	-43,80906312
Rota 6 - Chalezinho 2,531m #####	7513859,254	622535,805	-22,47725333	-43,80891171
Rota 6 - Chalezinho 2,531m #####	7513874,138	622547,126	-22,47711809	-43,80880283
Rota 6 - Chalezinho 2,531m #####	7513874,487	622547,419	-22,47711491	-43,80880001
Rota 6 - Chalezinho 2,531m #####	7513881,632	622558,143	-22,4770496	-43,80869634
Rota 6 - Chalezinho 2,531m #####	7513888,261	622578,089	-22,4769883	-43,808503
Rota 6 - Chalezinho 2,531m #####	7513906,409	622630,819	-22,4768206	-43,80799194
Rota 6 - Chalezinho 2,531m #####	7513908,189	622660,204	-22,47680241	-43,80770649
Rota 6 - Chalezinho 2,531m #####	7513920,093	622676,456	-22,47669372	-43,80754947
Rota 6 - Chalezinho 2,531m #####	7513933,246	622706,238	-22,47657279	-43,80726104
Rota 6 - Chalezinho 2,531m #####	7513946,358	622750,515	-22,47645117	-43,80683174
Rota 6 - Chalezinho 2,531m #####	7513957,41	622806,47	-22,47634732	-43,80628879
Rota 6 - Chalezinho 2,531m #####	7513958,497	622819,007	-22,47633661	-43,80616703
Rota 6 - Chalezinho 2,531m #####	7513954,243	622834,968	-22,47637388	-43,80601158
Rota 6 - Chalezinho 2,531m #####	7513964,923	622865,187	-22,47627524	-43,80571873
Rota 6 - Chalezinho 2,531m #####	7513984,592	622892,348	-22,47609563	-43,80545629
Rota 6 - Chalezinho 2,531m #####	7513981,798	622911,752	-22,47611948	-43,80526748
Rota 6 - Chalezinho 2,531m #####	7513965,007	622934,387	-22,4762695	-43,8050462
Rota 6 - Chalezinho 2,531m #####	7513946,835	622945,009	-22,47643287	-43,80494156
Rota 6 - Chalezinho 2,531m #####	7513928,751	622956,9	-22,47659535	-43,8048246
Rota 6 - Chalezinho 2,531m #####	7513887,834	622968,846	-22,47696405	-43,80470533
Rota 6 - Chalezinho 2,531m #####	7513873,192	622979,36	-22,47709554	-43,80460201
Rota 6 - Chalezinho 2,531m #####	7513862,14	622993,169	-22,47719436	-43,80446695
Rota 6 - Chalezinho 2,531m #####	7513846,836	623009,01	-22,47733145	-43,8043118
Rota 6 - Chalezinho 2,531m #####	7513837,219	623011,51	-22,47741813	-43,80428676
Rota 6 - Chalezinho 2,531m #####	7513822,145	623011,443	-22,47755429	-43,80428624
Rota 6 - Chalezinho 2,531m #####	7513805,625	623002,806	-22,47770412	-43,8043689
Rota 6 - Chalezinho 2,531m #####	7513725,793	622984,028	-22,47842652	-43,80454521
Rota 6 - Chalezinho 2,531m #####	7513686,558	622976,74	-22,47878142	-43,804613
Rota 6 - Chalezinho 2,531m #####	7513658,157	622958,463	-22,47903926	-43,80478843
Rota 6 - Chalezinho 2,531m #####	7513642,915	622958,651	-22,4791769	-43,80478542
Rota 6 - Chalezinho 2,531m #####	7513642,517	622958,46	-22,47918051	-43,80478725
Rota 6 - Chalezinho 2,531m #####	7513625,713	622959,077	-22,47933225	-43,80477995
Rota 6 - Chalezinho 2,531m #####	7513625,112	622959,152	-22,47933767	-43,80477917
Rota 6 - Chalezinho 2,531m #####	7513607,784	622963,887	-22,47949383	-43,80473181

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Chalezinho 2,531m #####	7513590,872	622991,411	-22,4796446	-43,804463
Rota 6 - Chalezinho 2,531m #####	7513584,238	623012,681	-22,47970299	-43,80425576
Rota 6 - Chalezinho 2,531m #####	7513584,546	623030,798	-22,4796989	-43,80407971
Rota 6 - Chalezinho 2,531m #####	7513577,309	623034,589	-22,47976399	-43,8040423
Rota 6 - Chalezinho 2,531m #####	7513560,835	623037,544	-22,47991257	-43,80401231
Rota 6 - Chalezinho 2,531m #####	7513546,213	623050,61	-22,4800437	-43,80388419
Rota 6 - Chalezinho 2,531m #####	7513532,877	623084,861	-22,48016168	-43,80355026
Rota 6 - Chalezinho 2,531m #####	7513531,241	623119,653	-22,48017394	-43,803212
Rota 6 - Chalezinho 2,531m #####	7513529,204	623137,583	-22,48019105	-43,80303758
Rota 6 - Chalezinho 2,531m #####	7513522,28	623145,581	-22,48025301	-43,80295931
Rota 6 - Chalezinho 2,531m #####	7513496,483	623150,228	-22,48048568	-43,80291214
Rota 6 - Chalezinho 2,531m #####	7513479,546	623156,208	-22,48063822	-43,80285271
Rota 6 - Chalezinho 2,531m #####	7513465,84	623170,851	-22,48076096	-43,80270933
Rota 6 - Chalezinho 2,531m #####	7513455,874	623195,053	-22,48084923	-43,80247334
Rota 6 - Chalezinho 2,531m #####	7513448,812	623203,129	-22,48091243	-43,8023943
Rota 6 - Chalezinho 2,531m #####	7513436,588	623222,309	-22,48102145	-43,80220695
Rota 6 - Chalezinho 2,531m #####	7513432,366	623251,311	-22,48105748	-43,80192474
Rota 6 - Chalezinho 2,531m #####	7513433,427	623264,569	-22,48104695	-43,80179597
Rota 6 - Chalezinho 2,531m #####	7513433,001	623265,349	-22,48105074	-43,80178836
Rota 6 - Chalezinho 2,531m #####	7513431,543	623280,415	-22,48106282	-43,80164182
Rota 6 - Chalezinho 2,531m #####	7513424,499	623290,414	-22,48112571	-43,80154409
Rota 6 - Chalezinho 2,531m #####	7513413,792	623296,87	-22,48122195	-43,80148052
Rota 6 - Chalezinho 2,531m #####	7513404,342	623303,868	-22,48130681	-43,80141176
Rota 6 - Chalezinho 2,531m #####	7513386,614	623318,748	-22,48146585	-43,80126577
Rota 6 - Chalezinho 2,531m #####	7513379,786	623332,957	-22,48152649	-43,80112714
Rota 6 - Chalezinho 2,531m #####	7513373,492	623350,885	-22,48158205	-43,80095241
Rota 6 - Chalezinho 2,531m #####	7513370,622	623362,067	-22,48160715	-43,80084351
Rota 6 - Chalezinho 2,531m #####	7513378,897	623390,491	-22,48153036	-43,8005679
Rota 6 - Chalezinho 2,531m #####	7513381,986	623409,933	-22,48150106	-43,80037918
Rota 6 - Chalezinho 2,531m #####	7513392,42	623444,117	-22,48140434	-43,80004776
Rota 6 - Chalezinho 2,531m #####	7513405,451	623468,891	-22,48128485	-43,799808
Rota 6 - Chalezinho 2,531m #####	7513425,201	623489,289	-22,48110499	-43,79961129
Rota 6 - Chalezinho 2,531m #####	7513432,696	623501,273	-22,48103643	-43,79949541
Rota 6 - Chalezinho 2,531m #####	7513445,436	623525,908	-22,48091958	-43,79925696
Rota 6 - Chalezinho 2,531m #####	7513452,687	623547,188	-22,48085255	-43,79905071
Rota 6 - 81,3m	7513425,455	623489,422	-22,4811027	-43,79961002
Rota 6 - 81,3m	7513425,455	623489,422	-22,4811027	-43,79961002
Rota 6 - 81,3m	7513416,612	623493,254	-22,48118228	-43,79957208
Rota 6 - 81,3m	7513406,103	623500,013	-22,48127671	-43,79950558
Rota 6 - 81,3m	7513395,291	623505,469	-22,48137398	-43,79945171
Rota 6 - 81,3m	7513386,228	623508,555	-22,4814556	-43,79942101
Rota 6 - 81,3m	7513350,368	623519,26	-22,48177872	-43,79931417
Rota 6 - Torre 249m	7513746,407	621486,998	-22,47834756	-43,81909614
Rota 6 - Torre 249m	7513726,429	621491,589	-22,47852767	-43,81905
Rota 6 - Torre 249m	7513713,579	621494,486	-22,47864353	-43,81902086
Rota 6 - Torre 249m	7513688,941	621497,055	-22,47886588	-43,818994

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Torre 249m	7513674,967	621503,057	-22,47899166	-43,8189346
Rota 6 - Torre 249m	7513673,952	621503,365	-22,47900081	-43,81893153
Rota 6 - Torre 249m	7513656,143	621506,333	-22,47916145	-43,81890132
Rota 6 - Torre 249m	7513643,997	621511,776	-22,47927077	-43,81884748
Rota 6 - Torre 249m	7513628,992	621514,646	-22,47940609	-43,81881844
Rota 6 - Torre 249m	7513622,014	621519,787	-22,47946875	-43,81876794
Rota 6 - Torre 249m	7513615,153	621526,704	-22,47953023	-43,81870019
Rota 6 - Torre 249m	7513611,257	621534,923	-22,47956483	-43,81862001
Rota 6 - Torre 249m	7513610,478	621551,978	-22,47957065	-43,81845419
Rota 6 - Torre 249m	7513615,095	621563,084	-22,47952816	-43,81834661
Rota 6 - Torre 249m	7513622,764	621568,15	-22,47945853	-43,81829797
Rota 6 - Torre 249m	7513629,595	621573,617	-22,47939645	-43,81824536
Rota 6 - Torre 249m	7513651,647	621574,829	-22,47919719	-43,81823527
Rota 6 - Torre 249m	7513682,144	621571,783	-22,47892195	-43,81826721
Rota 6 - 83,5m	7513800,708	621577,593	-22,47785065	-43,81821983
Rota 6 - 83,5m	7513788,197	621569,953	-22,4779642	-43,81829313
Rota 6 - 83,5m	7513771,302	621560,678	-22,47811746	-43,81838197
Rota 6 - 83,5m	7513756,315	621556,12	-22,47825314	-43,81842512
Rota 6 - 83,5m	7513744,013	621587,651	-22,47836201	-43,81811773
Rota 6 - 2x 412m	7513559,112	621571,928	-22,48003318	-43,81825637
Rota 6 - 2x 412m	7513571,174	621530,782	-22,47992716	-43,81865719
Rota 6 - 2x 412m	7513583,903	621503,153	-22,47981416	-43,81892669
Rota 6 - 2x 412m	7513621,308	621455,36	-22,47947971	-43,81939405
Rota 6 - 2x 412m	7513655,374	621435,707	-22,47917342	-43,81958767
Rota 6 - 2x 412m	7513691,862	621425,979	-22,47884455	-43,819685
Rota 6 - 2x 412m	7513738,608	621420,517	-22,47842272	-43,81974167
Rota 6 - 2x 412m	7513754,134	621421,616	-22,47828242	-43,81973217
Rota 6 - 2x 412m	7513759,534	621431,244	-22,47823295	-43,81963902
Rota 6 - 2x 412m	7513755,938	621454,361	-22,47826379	-43,81941406
Rota 6 - 2x 412m	7513749,77	621471,122	-22,47831831	-43,8192507
Rota 6 - 2x 412m	7513747,042	621484,32	-22,47834201	-43,81912222
Rota 6 - 2x 412m	7513746,265	621487,501	-22,4783488	-43,81909124
Rota 6 - 2x 412m	7513749,467	621503,185	-22,47831877	-43,81893907
Rota 6 - 2x 412m	7513751,929	621523,342	-22,47829509	-43,81874335
Rota 6 - 2x 412m	7513756,397	621556,282	-22,47825239	-43,81842356
Rota 6 - Pre laje 2x 3,481m #####	7512706,594	621675,365	-22,48772583	-43,81718564
Rota 6 - Pre laje 2x 3,481m #####	7512668,291	621686,443	-22,48807099	-43,81707503
Rota 6 - Pre laje 2x 3,481m #####	7512644,244	621695,947	-22,48828751	-43,81698081
Rota 6 - Pre laje 2x 3,481m #####	7512624,052	621705,019	-22,48846924	-43,81689108
Rota 6 - Pre laje 2x 3,481m #####	7512602,586	621722,073	-22,48866191	-43,81672368
Rota 6 - Pre laje 2x 3,481m #####	7512556,454	621757,75	-22,48907603	-43,81637338
Rota 6 - Pre laje 2x 3,481m #####	7512495,761	621804,357	-22,48962088	-43,81591572
Rota 6 - Pre laje 2x 3,481m #####	7512406,929	621868,018	-22,49041868	-43,81529012
Rota 6 - Pre laje 2x 3,481m #####	7512371,806	621897,999	-22,49073376	-43,81499602
Rota 6 - Pre laje 2x 3,481m #####	7512356,551	621915,284	-22,49087031	-43,81482684
Rota 6 - Pre laje 2x 3,481m #####	7512344,577	621944,008	-22,49097641	-43,81454673



## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Pre laje 2x 3,481m #####	7512335,457	621965,71	-22,49105723	-43,81433509
Rota 6 - Pre laje 2x 3,481m #####	7512335,145	621966,653	-22,49105998	-43,8143259
Rota 6 - Pre laje 2x 3,481m #####	7512320,224	621984,737	-22,49119345	-43,81414898
Rota 6 - Pre laje 2x 3,481m #####	7512294,629	622008,519	-22,49142293	-43,81391586
Rota 6 - Pre laje 2x 3,481m #####	7512218,184	622026,701	-22,49211209	-43,81373324
Rota 6 - Pre laje 2x 3,481m #####	7512107,105	622037,927	-22,49311456	-43,81361558
Rota 6 - Pre laje 2x 3,481m #####	7512000,628	622048,895	-22,49407548	-43,81350077
Rota 6 - Pre laje 2x 3,481m #####	7511971,424	622049,127	-22,49433924	-43,81349626
Rota 6 - Pre laje 2x 3,481m #####	7511971,424	622049,127	-22,49433924	-43,81349626
Rota 6 - Pre laje 2x 3,481m #####	7511942,334	622039,797	-22,49460264	-43,81358471
Rota 6 - Pre laje 2x 3,481m #####	7511909,916	622041,915	-22,4948953	-43,81356163
Rota 6 - Pre laje 2x 3,481m #####	7511880,051	622053,745	-22,49516419	-43,81344435
Rota 6 - Pre laje 2x 3,481m #####	7511840,338	622082,117	-22,49552086	-43,81316551
Rota 6 - Pre laje 2x 3,481m #####	7511805,516	622106,172	-22,49583365	-43,81292901
Rota 6 - Pre laje 2x 3,481m #####	7511754,37	622135,526	-22,4962935	-43,81263975
Rota 6 - Pre laje 2x 3,481m #####	7511713,308	622147,56	-22,49666351	-43,8125196
Rota 6 - Pre laje 2x 3,481m #####	7511645,265	622153,295	-22,49727767	-43,81245862
Rota 6 - Pre laje 2x 3,481m #####	7511618,444	622158,837	-22,49751952	-43,81240268
Rota 6 - Pre laje 2x 3,481m #####	7511588,72	622170,866	-22,49778712	-43,81228346
Rota 6 - Pre laje 2x 3,481m #####	7511558,196	622189,48	-22,49806149	-43,81210018
Rota 6 - Pre laje 2x 3,481m #####	7511541,065	622215,38	-22,49821436	-43,8118471
Rota 6 - Pre laje 2x 3,481m #####	7511540,802	622215,64	-22,49821672	-43,81184456
Rota 6 - Pre laje 2x 3,481m #####	7511524,071	622238,317	-22,49836621	-43,81162284
Rota 6 - Pre laje 2x 3,481m #####	7511515,332	622252,39	-22,49844413	-43,81148537
Rota 6 - Pre laje 2x 3,481m #####	7511480,105	622267,098	-22,49876125	-43,81133969
Rota 6 - Pre laje 2x 3,481m #####	7511430,676	622259,845	-22,49920821	-43,81140638
Rota 6 - Pre laje 2x 3,481m #####	7511360,393	622238,819	-22,49984452	-43,81160533
Rota 6 - Pre laje 2x 3,481m #####	7511316,797	622234,788	-22,50023858	-43,81164115
Rota 6 - Pre laje 2x 3,481m #####	7511296,306	622241,421	-22,50042317	-43,81157509
Rota 6 - Pre laje 2x 3,481m #####	7511274,896	622253,53	-22,50061568	-43,81145574
Rota 6 - Pre laje 2x 3,481m #####	7511227,695	622278,198	-22,50104024	-43,81121232
Rota 6 - Pre laje 2x 3,481m #####	7511200,575	622285,33	-22,50128467	-43,81114089
Rota 6 - Pre laje 2x 3,481m #####	7511177,726	622284,798	-22,50149108	-43,8111443
Rota 6 - Pre laje 2x 3,481m #####	7511147,698	622271,644	-22,50176324	-43,81126985
Rota 6 - Pre laje 2x 3,481m #####	7511115,486	622223,552	-22,50205763	-43,81173484
Rota 6 - Pre laje 2x 3,481m #####	7511100,62	622160,613	-22,50219641	-43,81234549
Rota 6 - Pre laje 2x 3,481m #####	7511100,036	622087,957	-22,50220689	-43,81305169
Rota 6 - Pre laje 2x 3,481m #####	7511094,29	622007,879	-22,50226453	-43,81382964
Rota 6 - Pre laje 2x 3,481m #####	7511077,535	621948,674	-22,5024201	-43,81440386
Rota 6 - Pre laje 2x 3,481m #####	7511042,418	621886,648	-22,50274171	-43,81500408
Rota 6 - Pre laje 2x 3,481m #####	7511002,067	621861,093	-22,50310799	-43,81524938
Rota 6 - Pre laje 2x 3,481m #####	7510958,255	621849,23	-22,50350455	-43,81536132
Rota 6 - Pre laje 2x 3,481m #####	7510920,525	621837,842	-22,50384614	-43,81546912
Rota 6 - Pre laje 2x 3,481m #####	7510879,432	621815,348	-22,50421891	-43,81568461
Rota 6 - Pre laje 2x 3,481m #####	7510770,339	621717,777	-22,50521122	-43,81662468
Rota 6 - Pre laje 2x 3,481m #####	7510735,701	621661,387	-22,50552809	-43,81717017

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Pre laje 2x 3,481m #####	7510729,239	621632,108	-22,50558855	-43,81745428
Rota 6 - Pre laje 2x 3,481m #####	7510728,355	621601,423	-22,50559872	-43,8177525
Rota 6 - Pre laje 2x 3,481m #####	7510728,095	621579,13	-22,50560266	-43,81796918
Rota 6 - Pre laje 2x 3,481m #####	7510727,536	621556,059	-22,50560935	-43,81819341
Rota 6 - Pre laje 2x 3,481m #####	7510721,874	621541,036	-22,50566156	-43,81833901
Rota 6 - Pre laje 2x 3,481m #####	7510712,969	621525,219	-22,50574313	-43,81849207
Rota 6 - Pre laje 2x 3,481m #####	7510698,413	621503,849	-22,50587612	-43,8186987
Rota 6 - Pre laje 2x 3,481m #####	7510650,74	621483,86	-22,50630813	-43,81888934
Rota 6 - Pre laje 2x 3,481m #####	7510621,578	621481,922	-22,50657166	-43,81890594
Rota 6 - Pre laje 2x 3,481m #####	7510600,257	621487,048	-22,50676386	-43,81885448
Rota 6 - Pre laje 2x 3,481m #####	7510589,464	621495,255	-22,50686076	-43,81877387
Rota 6 - Pre laje 2x 3,481m #####	7510574,914	621511,835	-22,506991	-43,81861159
Rota 6 - Pre laje 2x 3,481m #####	7510564,721	621525,881	-22,50708207	-43,81847426
Rota 6 - Pre laje 2x 3,481m #####	7510551,446	621560,609	-22,50719949	-43,81813566
Rota 6 - Pre laje 2x 3,481m #####	7510551,499	621595,785	-22,5071965	-43,81779373
Rota 6 - Pre laje 2x 3,481m #####	7510563,434	621650,69	-22,50708479	-43,81726092
Rota 6 - Pre laje 2x 3,481m #####	7510566,214	621688,363	-22,50705699	-43,81689492
Rota 6 - Pre laje 2x 3,481m #####	7510577,777	621732,362	-22,5069494	-43,8164681
Rota 6 - Pre laje 2x 3,481m #####	7510593,469	621761,905	-22,50680556	-43,81618213
Rota 6 - Pre laje 2x 3,481m #####	7510645,796	621823,224	-22,50632856	-43,81559008
Rota 6 - Pre laje 2x 3,481m #####	7510664,489	621848,528	-22,50615791	-43,81534554
Rota 6 - Pre laje 2x 3,481m #####	7510679,732	621880,045	-22,50601799	-43,81504035
Rota 6 - Pre laje 2x 3,481m #####	7510685,356	621904,489	-22,50596544	-43,81480316
Rota 6 - Pre laje 2x 3,481m #####	7510693,684	621944,199	-22,50588738	-43,8144178
Rota 6 - Pre laje 2x 3,481m #####	7510695,296	621970,009	-22,50587097	-43,81416703
Rota 6 - Pre laje 2x 3,481m #####	7510684,154	622032,075	-22,50596717	-43,81356285
Rota 6 - Pre laje 2x 3,481m #####	7510675,556	622056,725	-22,50604306	-43,81332257
Rota 6 - Morro da Light 655m	7513227,984	619627,453	-22,4831614	-43,8371297
Rota 6 - Morro da Light 655m	7513203,267	619641,646	-22,48338365	-43,83698989
Rota 6 - Morro da Light 655m	7513179,123	619646,774	-22,48360136	-43,83693823
Rota 6 - Morro da Light 655m	7513157,984	619651,599	-22,48379195	-43,83688974
Rota 6 - Morro da Light 655m	7513100,218	619665,393	-22,48431274	-43,83675131
Rota 6 - Morro da Light 655m	7513075,374	619667,717	-22,48453697	-43,83672685
Rota 6 - Morro da Light 655m	7513067,846	619660,559	-22,48460546	-43,83679585
Rota 6 - Morro da Light 655m	7513054,55	619618,876	-22,48472848	-43,83719998
Rota 6 - Morro da Light 655m	7513014,49	619549,019	-22,48509521	-43,83787592
Rota 6 - Morro da Light 655m	7512981,46	619468,424	-22,48539919	-43,83865676
Rota 6 - Morro da Light 655m	7512980,036	619446,853	-22,48541356	-43,83886632
Rota 6 - Morro da Light 655m	7512952,59	619330,647	-22,48566959	-43,8399937
Rota 6 - Morro da Light 655m	7512958,345	619282,3	-22,48562099	-43,84046405
Rota 6 - Morro da Light 655m	7512952,286	619256,06	-22,48567755	-43,84071862
Rota 6 - Morro da Light 655m	7512942,736	619244,725	-22,4857646	-43,84082808
Rota 6 - Morro da Light 655m	7512931,778	619231,325	-22,4858645	-43,84095749
Rota 6 - Morro da Light 655m	7512917,922	619210,84	-22,48599109	-43,84115555
Rota 6 - 74,6m	7512901,454	618979,935	-22,48615595	-43,84339859
Rota 6 - 74,6m	7512895,743	618955,776	-22,48620921	-43,84363296

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - 74,6m	7512886,453	618906,861	-22,48629654	-43,8441077
Rota 6 - Cantão 1,136m	7512633,814	618864,419	-22,48858138	-43,84450127
Rota 6 - Cantão 1,136m	7512663,724	618846,122	-22,4883125	-43,84468136
Rota 6 - Cantão 1,136m	7512701,051	618824,838	-22,48797684	-43,84489102
Rota 6 - Cantão 1,136m	7512735,599	618793,595	-22,48766697	-43,84519728
Rota 6 - Cantão 1,136m	7512760,39	618765,703	-22,48744499	-43,84547024
Rota 6 - Cantão 1,136m	7512798,961	618723,284	-22,48709956	-43,84588542
Rota 6 - Cantão 1,136m	7512825,102	618703,664	-22,48686482	-43,84607807
Rota 6 - Cantão 1,136m	7512825,102	618703,664	-22,48686482	-43,84607807
Rota 6 - Cantão 1,136m	7512903,792	618652,296	-22,48615765	-43,84658324
Rota 6 - Cantão 1,136m	7512961,531	618623,206	-22,48563816	-43,8468703
Rota 6 - Cantão 1,136m	7512989,684	618603,875	-22,48538523	-43,84706029
Rota 6 - Cantão 1,136m	7513017,202	618579,774	-22,48513835	-43,8472966
Rota 6 - Cantão 1,136m	7513051,274	618563,331	-22,48483175	-43,84745896
Rota 6 - Cantão 1,136m	7513070,052	618565,212	-22,48466202	-43,84744208
Rota 6 - Cantão 1,136m	7513091,719	618578,716	-22,48446537	-43,84731245
Rota 6 - Cantão 1,136m	7513106,719	618601,052	-22,48432833	-43,84709648
Rota 6 - Cantão 1,136m	7513123,475	618614,553	-22,48417606	-43,84696651
Rota 6 - Cantão 1,136m	7513156,794	618636,879	-22,48387356	-43,84675201
Rota 6 - Cantão 1,136m	7513176,728	618647,523	-22,48369277	-43,84665005
Rota 6 - Cantão 1,136m	7513246,597	618584,188	-22,48306611	-43,84727084
Rota 6 - Cantão 1,136m	7513269,112	618564,159	-22,48286414	-43,8474672
Rota 6 - Cantão 1,136m	7513308,174	618532,675	-22,48251351	-43,84777612
Rota 6 - Cantão 1,136m	7513340,767	618498,638	-22,48222149	-43,84810937
Rota 6 - Cantão 1,136m	7513429,593	618426,115	-22,48142423	-43,84882087
Rota 6 - Cantão 1,136m	7513499,743	618354,274	-22,4807956	-43,84952434
Rota 6 - Cantão 1,136m	7513518,591	618338,604	-22,48062645	-43,84967804
Rota 6 - 55,2m	7512798,944	618722,837	-22,48709975	-43,84588976
Rota 6 - 55,2m	7512780,897	618670,661	-22,48726638	-43,84639554
Rota 6 - 23,8m	7513176,814	618647,938	-22,48369197	-43,84664602
Rota 6 - 23,8m	7513165,354	618668,745	-22,48379402	-43,84644294
Rota 6 - 232m	7513206,568	618619,72	-22,48342519	-43,84692251
Rota 6 - 232m	7513194,934	618592,075	-22,48353218	-43,84719032
Rota 6 - 232m	7513182,131	618559,636	-22,48365008	-43,84750466
Rota 6 - 232m	7513159,109	618494,172	-22,48386257	-43,8481392
Rota 6 - 232m	7513142,893	618464,711	-22,48401108	-43,84842433
Rota 6 - 232m	7513130,874	618442,069	-22,48412121	-43,8486435
Rota 6 - 232m	7513107,149	618412,266	-22,48433756	-43,84893139
Rota 6 - Aterro Sanitário 692m	7512239,127	618523,935	-22,49216995	-43,84778113
Rota 6 - Aterro Sanitário 692m	7512227,401	618524,212	-22,49227585	-43,84777757
Rota 6 - Aterro Sanitário 692m	7512210,704	618525,77	-22,49242654	-43,84776117
Rota 6 - Aterro Sanitário 692m	7512198,955	618524,998	-22,49253272	-43,8477678
Rota 6 - Aterro Sanitário 692m	7512177,477	618518,2	-22,49272719	-43,84783227
Rota 6 - Aterro Sanitário 692m	7512156,783	618503,494	-22,49291512	-43,84797366
Rota 6 - Aterro Sanitário 692m	7512143,045	618497,097	-22,49303965	-43,84803481
Rota 6 - Aterro Sanitário 692m	7512113,414	618485,449	-22,49330809	-43,84814582

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Aterro Sanitário 692m	7512089,814	618480,352	-22,4935216	-43,8481936
Rota 6 - Aterro Sanitário 692m	7512069,385	618487,133	-22,49370565	-43,84812616
Rota 6 - Aterro Sanitário 692m	7512042,959	618493,631	-22,49394388	-43,84806102
Rota 6 - Aterro Sanitário 692m	7512031,675	618500,895	-22,4940453	-43,84798957
Rota 6 - Aterro Sanitário 692m	7512007,531	618539,52	-22,49426069	-43,84761233
Rota 6 - Aterro Sanitário 692m	7511999,962	618552,404	-22,49432816	-43,84748653
Rota 6 - Aterro Sanitário 692m	7511988,019	618562,532	-22,49443532	-43,84738719
Rota 6 - Aterro Sanitário 692m	7511974,723	618565,966	-22,49455518	-43,84735282
Rota 6 - Aterro Sanitário 692m	7511962,08	618558,654	-22,49466987	-43,84742294
Rota 6 - Aterro Sanitário 692m	7511953,384	618543,628	-22,49474947	-43,84756834
Rota 6 - Aterro Sanitário 692m	7511952,199	618531,014	-22,49476105	-43,84769087
Rota 6 - Aterro Sanitário 692m	7511946,518	618483,486	-22,49481567	-43,84815242
Rota 6 - Aterro Sanitário 692m	7511940,292	618468,828	-22,49487291	-43,84829443
Rota 6 - Aterro Sanitário 692m	7511930,422	618468,819	-22,49496207	-43,84829378
Rota 6 - Aterro Sanitário 692m	7511915,261	618471,008	-22,49509884	-43,84827137
Rota 6 - Aterro Sanitário 692m	7511904,717	618481,092	-22,49519338	-43,84817257
Rota 6 - Aterro Sanitário 692m	7511898,927	618489,175	-22,49524512	-43,84809356
Rota 6 - Aterro Sanitário 692m	7511864,044	618503,048	-22,49555922	-43,84795611
Rota 6 - Aterro Sanitário 692m	7511841,008	618510,06	-22,4957668	-43,84788622
Rota 6 - Aterro Sanitário 692m	7511829,764	618514,793	-22,49586803	-43,84783938
Rota 6 - Aterro Sanitário 692m	7511814,152	618520,588	-22,49600864	-43,84778188
Rota 6 - Aterro Sanitário 692m	7511786,828	618538,025	-22,49625422	-43,84761035
Rota 6 - Aterro Sanitário 692m	7511774,154	618546,543	-22,4963681	-43,84752661
Rota 6 - Aterro Sanitário 692m	7511761,159	618547,286	-22,49648543	-43,84751841
Rota 6 - Aterro Sanitário 692m	7511741,411	618553,465	-22,49666336	-43,84745687
Rota 6 - Aterro Sanitário 692m	7511732,138	618553,637	-22,49674711	-43,84745451
Rota 6 - Aterro Sanitário 692m	7511713,546	618545,857	-22,49691557	-43,84752874
Rota 6 - Aterro Sanitário 692m	7511695,722	618533,974	-22,49707739	-43,8476429
Rota 6 - BRMetals 3,418m	7512321,798	618455,203	-22,49142803	-43,84845538
Rota 6 - BRMetals 3,418m	7512304,191	618458,604	-22,49158682	-43,84842101
Rota 6 - BRMetals 3,418m	7512284,036	618456,841	-22,49176898	-43,84843664
Rota 6 - BRMetals 3,418m	7512247,008	618446,901	-22,49210412	-43,84853048
Rota 6 - BRMetals 3,418m	7512225,105	618439,099	-22,4923025	-43,84860468
Rota 6 - BRMetals 3,418m	7512206,034	618422,301	-22,49247591	-43,84876654
Rota 6 - BRMetals 3,418m	7512201,337	618414,263	-22,4925189	-43,84884431
Rota 6 - BRMetals 3,418m	7512205,127	618372,343	-22,49248758	-43,84925205
Rota 6 - BRMetals 3,418m	7512207,88	618333,577	-22,4924654	-43,84962907
Rota 6 - BRMetals 3,418m	7512206,929	618300,272	-22,4924763	-43,84995272
Rota 6 - BRMetals 3,418m	7512207,063	618245,191	-22,49247891	-43,85048811
Rota 6 - BRMetals 3,418m	7512216,251	618202,396	-22,49239889	-43,85090476
Rota 6 - BRMetals 3,418m	7512242,711	618146,494	-22,49216377	-43,85145009
Rota 6 - BRMetals 3,418m	7512263,811	618116,685	-22,49197526	-43,8517414
Rota 6 - BRMetals 3,418m	7512280,801	618062,467	-22,49182556	-43,85226966
Rota 6 - BRMetals 3,418m	7512272,143	618022,95	-22,49190649	-43,85265312
Rota 6 - BRMetals 3,418m	7512267,653	617967,326	-22,4919509	-43,85319344
Rota 6 - BRMetals 3,418m	7512270,297	617891,253	-22,49193227	-43,85393306

## ANEXO III



PREFEITURA MUNICIPAL DE BARRA DO PIRAI

SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP

ROTAS E ETINERÁRIOS RSU

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - BRMetals 3,418m	7512287,637	617828,558	-22,49177998	-43,85454374
Rota 6 - BRMetals 3,418m	7512297,478	617811,078	-22,4916923	-43,85471438
Rota 6 - BRMetals 3,418m	7512321,233	617774,087	-22,4914803	-43,85507569
Rota 6 - BRMetals 3,418m	7512339,049	617746,183	-22,49132131	-43,85534823
Rota 6 - BRMetals 3,418m	7512374,825	617692,976	-22,49100185	-43,85586806
Rota 6 - BRMetals 3,418m	7512399,425	617670,056	-22,49078123	-43,85609267
Rota 6 - BRMetals 3,418m	7512426,719	617639,929	-22,49053679	-43,85638752
Rota 6 - BRMetals 3,418m	7512462,899	617608,883	-22,49021214	-43,85669196
Rota 6 - BRMetals 3,418m	7512531,618	617552,854	-22,48959532	-43,85724165
Rota 6 - BRMetals 3,418m	7512581,905	617511,729	-22,48914396	-43,85764511
Rota 6 - BRMetals 3,418m	7512628,971	617461,235	-22,48872232	-43,85813938
Rota 6 - BRMetals 3,418m	7512657,317	617431,554	-22,48846833	-43,85842997
Rota 6 - BRMetals 3,418m	7512698,596	617397,305	-22,48809785	-43,85876591
Rota 6 - BRMetals 3,418m	7512772,484	617361,056	-22,48743297	-43,85912371
Rota 6 - BRMetals 3,418m	7512863,835	617333,299	-22,48660978	-43,85940026
Rota 6 - BRMetals 3,418m	7512977,057	617297,738	-22,48558957	-43,85975428
Rota 6 - BRMetals 3,418m	7513019,436	617275,357	-22,48520834	-43,85997495
Rota 6 - BRMetals 3,418m	7513048,445	617244,336	-22,48494846	-43,86027859
Rota 6 - BRMetals 3,418m	7513076,276	617179,092	-22,48470156	-43,86091479
Rota 6 - BRMetals 3,418m	7513074,414	617103,282	-22,48472358	-43,86165148
Rota 6 - BRMetals 3,418m	7513057,551	617063,101	-22,48487865	-43,86204077
Rota 6 - BRMetals 3,418m	7513042,897	617021,605	-22,48501386	-43,86244301
Rota 6 - BRMetals 3,418m	7513026,588	616941,343	-22,48516667	-43,86322191
Rota 6 - BRMetals 3,418m	7513024,307	616878,55	-22,48519157	-43,86383205
Rota 6 - BRMetals 3,418m	7513047,994	616796,861	-22,48498322	-43,86462776
Rota 6 - BRMetals 3,418m	7513082,873	616689,017	-22,48467556	-43,86567852
Rota 6 - BRMetals 3,418m	7513118,226	616617,577	-22,48436113	-43,86637548
Rota 6 - BRMetals 3,418m	7513182,375	616549,269	-22,48378639	-43,86704411
Rota 6 - BRMetals 3,418m	7513240,552	616529,345	-22,48326228	-43,86724203
Rota 6 - BRMetals 3,418m	7513354,39	616507,268	-22,48223558	-43,86746497
Rota 6 - BRMetals 3,418m	7513467,279	616492,696	-22,48121692	-43,86761489
Rota 6 - BRMetals 3,418m	7513514,068	616504,398	-22,48079351	-43,86750459
Rota 6 - BRMetals 3,418m	7513552,518	616528,5	-22,48044458	-43,86727316
Rota 6 - BRMetals 3,418m	7513590,055	616569,647	-22,48010273	-43,86687601
Rota 6 - BRMetals 3,418m	7513610,294	616614,392	-22,47991687	-43,86644262
Rota 6 - BRMetals 3,418m	7513630,512	616660,065	-22,47973113	-43,86600021
Rota 6 - BRMetals 3,418m	7513646,661	616753,222	-22,47957889	-43,86509599
Rota 6 - BRMetals 3,418m	7513653,078	616809,412	-22,47951709	-43,86455035
Rota 6 - BRMetals 3,418m	7513647,573	616858,557	-22,47956345	-43,8640723
Rota 6 - BRMetals 3,418m	7513625,972	616921,567	-22,47975424	-43,86345831
Rota 6 - BRMetals 3,418m	7513597,925	616965,921	-22,48000453	-43,86302516
Rota 6 - BRMetals 3,418m	7513579,137	616991,464	-22,48017247	-43,86277552
Rota 6 - BRMetals 3,418m	7513558,497	617007,869	-22,48035777	-43,86261456
Rota 6 - BRMetals 3,418m	7513557,371	617028,882	-22,4803665	-43,86241025
Rota 6 - Final Matadouro 8,235m	7512321,296	618455,708	-22,49143253	-43,84845044
Rota 6 - Final Matadouro 8,235m	7512363,848	618420,712	-22,49105062	-43,84879377

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Final Matadouro 8,235m	7512442,857	618355,241	-22,49034154	-43,84943604
Rota 6 - Final Matadouro 8,235m	7512508,194	618318,662	-22,48975394	-43,84979645
Rota 6 - Final Matadouro 8,235m	7512573,383	618301,332	-22,48916635	-43,84996977
Rota 6 - Final Matadouro 8,235m	7512652,806	618303,141	-22,48844885	-43,84995811
Rota 6 - Final Matadouro 8,235m	7512755,689	618299,91	-22,48751982	-43,84999719
Rota 6 - Final Matadouro 8,235m	7512852,578	618319,311	-22,48664335	-43,84981585
Rota 6 - Final Matadouro 8,235m	7512926,588	618324	-22,48597456	-43,8497758
Rota 6 - Final Matadouro 8,235m	7513106,134	618266,715	-22,48435683	-43,85034598
Rota 6 - Final Matadouro 8,235m	7513333,063	618194,327	-22,48231218	-43,85106645
Rota 6 - Final Matadouro 8,235m	7513454,963	618129,346	-22,48121565	-43,8517071
Rota 6 - Final Matadouro 8,235m	7513583,172	618048,351	-22,48006324	-43,85250384
Rota 6 - Final Matadouro 8,235m	7513758,41	617932,89	-22,47848844	-43,85363905
Rota 6 - Final Matadouro 8,235m	7513870,789	617852,976	-22,47747893	-43,85442408
Rota 6 - Final Matadouro 8,235m	7513963,638	617780,292	-22,47664532	-43,85513738
Rota 6 - Final Matadouro 8,235m	7513973,455	617757,394	-22,47655823	-43,85536066
Rota 6 - Final Matadouro 8,235m	7513973,425	617756,409	-22,47655856	-43,85537023
Rota 6 - Final Matadouro 8,235m	7513973,828	617729,834	-22,47655675	-43,85562854
Rota 6 - Final Matadouro 8,235m	7513964,961	617683,808	-22,47664002	-43,85607519
Rota 6 - Final Matadouro 8,235m	7513940,3	617666,728	-22,47686394	-43,85623936
Rota 6 - Final Matadouro 8,235m	7513940,3	617666,728	-22,47686394	-43,85623936
Rota 6 - Final Matadouro 8,235m	7513919,014	617659,376	-22,4770567	-43,85630924
Rota 6 - Final Matadouro 8,235m	7513891,691	617659,391	-22,47730349	-43,85630707
Rota 6 - Final Matadouro 8,235m	7513868,792	617663,418	-22,47751004	-43,85626623
Rota 6 - Final Matadouro 8,235m	7513847,927	617676,614	-22,47769759	-43,85613643
Rota 6 - Final Matadouro 8,235m	7513834,863	617689,923	-22,47781467	-43,85600611
Rota 6 - Final Matadouro 8,235m	7513823,305	617712,86	-22,47791749	-43,85578233
Rota 6 - Final Matadouro 8,235m	7513817,366	617748,067	-22,4779687	-43,85543972
Rota 6 - Final Matadouro 8,235m	7513823,739	617777,389	-22,47790911	-43,85515521
Rota 6 - Final Matadouro 8,235m	7513840,07	617820,552	-22,47775863	-43,85473693
Rota 6 - Final Matadouro 8,235m	7513850,519	617849,115	-22,47766228	-43,8544601
Rota 6 - Final Matadouro 8,235m	7513857,935	617880,842	-22,47759311	-43,8541523
Rota 6 - Final Matadouro 8,235m	7513868,191	617923,465	-22,47749753	-43,85373881
Rota 6 - Final Matadouro 8,235m	7513876,581	617961,456	-22,47741912	-43,85337021
Rota 6 - Final Matadouro 8,235m	7513880,959	618006,994	-22,47737642	-43,85292795
Rota 6 - Final Matadouro 8,235m	7513885,608	618198,117	-22,47732121	-43,8510708
Rota 6 - Final Matadouro 8,235m	7513882,698	618251,44	-22,47734381	-43,85055235
Rota 6 - Final Matadouro 8,235m	7513866,715	618303,298	-22,47748457	-43,85004715
Rota 6 - Final Matadouro 8,235m	7513823,604	618403,756	-22,47786699	-43,84906759
Rota 6 - Final Matadouro 8,235m	7513813,113	618446,464	-22,47795878	-43,84865173
Rota 6 - Final Matadouro 8,235m	7513802,108	618476,349	-22,47805611	-43,84836046
Rota 6 - Final Matadouro 8,235m	7513778,789	618519,896	-22,4782637	-43,84793549
Rota 6 - Final Matadouro 8,235m	7513761,394	618572,939	-22,47841714	-43,84741867
Rota 6 - Final Matadouro 8,235m	7513750,701	618610,392	-22,47851112	-43,84705387
Rota 6 - Final Matadouro 8,235m	7513706,1	618730,322	-22,47890562	-43,84588494
Rota 6 - Final Matadouro 8,235m	7513692,708	618753,989	-22,47902493	-43,84565392
Rota 6 - Final Matadouro 8,235m	7513675,126	618775,468	-22,47918225	-43,84544385

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**


MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Final Matadouro 8,235m	7513647,014	618798,17	-22,47943458	-43,8452211
Rota 6 - Final Matadouro 8,235m	7513615,871	618829,194	-22,47971371	-43,84491724
Rota 6 - Final Matadouro 8,235m	7513586,112	618855,46	-22,47998067	-43,84465974
Rota 6 - Final Matadouro 8,235m	7513549,787	618899,424	-22,4803057	-43,84422972
Rota 6 - Final Matadouro 8,235m	7513538,056	618922,44	-22,48041005	-43,84400515
Rota 6 - Final Matadouro 8,235m	7513529,932	618950,57	-22,48048147	-43,84373114
Rota 6 - Final Matadouro 8,235m	7513522,704	618997,636	-22,48054347	-43,84327317
Rota 6 - Final Matadouro 8,235m	7513522,399	619031,38	-22,48054388	-43,84294518
Rota 6 - Final Matadouro 8,235m	7513522,588	619064,493	-22,48053986	-43,84262337
Rota 6 - Final Matadouro 8,235m	7513543,55	619145,157	-22,4803449	-43,84184097
Rota 6 - Final Matadouro 8,235m	7513554,539	619209,193	-22,48024117	-43,84121942
Rota 6 - Final Matadouro 8,235m	7513571,353	619272,522	-22,48008487	-43,84060519
Rota 6 - Final Matadouro 8,235m	7513587,028	619327,419	-22,47993946	-43,84007283
Rota 6 - Final Matadouro 8,235m	7513595,064	619385,594	-22,47986281	-43,83950803
Rota 6 - Final Matadouro 8,235m	7513590,369	619429,279	-22,47990216	-43,8390831
Rota 6 - Final Matadouro 8,235m	7513596,426	619484,727	-22,47984357	-43,83854465
Rota 6 - Final Matadouro 8,235m	7513600,774	619541,354	-22,47980033	-43,83799462
Rota 6 - Final Matadouro 8,235m	7513604,403	619580,464	-22,47976481	-43,83761479
Rota 6 - Final Matadouro 8,235m	7513621,451	619643,768	-22,47960639	-43,83700082
Rota 6 - Final Matadouro 8,235m	7513653,303	619695,31	-22,47931509	-43,83650229
Rota 6 - Final Matadouro 8,235m	7513693,288	619753,716	-22,47894984	-43,83593766
Rota 6 - Final Matadouro 8,235m	7513714,696	619774,854	-22,478755	-43,83573384
Rota 6 - Final Matadouro 8,235m	7513759,754	619801,652	-22,47834615	-43,8354768
Rota 6 - Final Matadouro 8,235m	7513783,981	619818,509	-22,47812613	-43,8353148
Rota 6 - Final Matadouro 8,235m	7513813,404	619845,199	-22,47785851	-43,83505762
Rota 6 - Final Matadouro 8,235m	7513851,119	619878,061	-22,47751555	-43,8347411
Rota 6 - Final Matadouro 8,235m	7513884,435	619919,074	-22,47721176	-43,83434502
Rota 6 - Final Matadouro 8,235m	7513916,047	619972,231	-22,4769225	-43,83383078
Rota 6 - Final Matadouro 8,235m	7513944,62	620009,215	-22,47666182	-43,83347351
Rota 6 - Final Matadouro 8,235m	7513989,133	620054,14	-22,47625662	-43,83304026
Rota 6 - Final Matadouro 8,235m	7514026,586	620078,567	-22,47591662	-43,83280569
Rota 6 - Final Matadouro 8,235m	7514061,241	620096,442	-22,47560234	-43,8326346
Rota 6 - Final Matadouro 8,235m	7514128,11	620115,337	-22,47499704	-43,83245602
Rota 6 - Final Matadouro 8,235m	7514179,233	620126,331	-22,47453452	-43,83235305
Rota 6 - Final Matadouro 8,235m	7514244,224	620133,533	-22,473947	-43,83228797
Rota 6 - Final Matadouro 8,235m	7514289,248	620142,896	-22,47353968	-43,83220039
Rota 6 - Final Matadouro 8,235m	7514290,38	620142,996	-22,47352945	-43,83219951
Rota 6 - Final Matadouro 8,235m	7514327,008	620163,73	-22,47319716	-43,83200078
Rota 6 - Final Matadouro 8,235m	7514362,331	620187,28	-22,47287646	-43,83177458
Rota 6 - Final Matadouro 8,235m	7514394,56	620195,602	-22,47258478	-43,83169615
Rota 6 - Final Matadouro 8,235m	7514462,458	620201,936	-22,47197107	-43,83163973
Rota 6 - Final Matadouro 8,235m	7514523,758	620215,382	-22,47141645	-43,8315137
Rota 6 - Final Matadouro 8,235m	7514585,963	620244,274	-22,47085257	-43,83123763
Rota 6 - Final Matadouro 8,235m	7514772,888	620325,96	-22,46915848	-43,83045795
Rota 6 - Final Matadouro 8,235m	7514811,247	620357,706	-22,46880977	-43,83015235
Rota 6 - Final Matadouro 8,235m	7514839,639	620375,489	-22,46855208	-43,82998168

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - Final Matadouro 8,235m	7514943,568	620415,53	-22,46761055	-43,82960044
Rota 6 - Final Matadouro 8,235m	7515062,577	620451,353	-22,46653312	-43,82926134
Rota 6 - Final Matadouro 8,235m	7515107,448	620473,141	-22,4661263	-43,82905302
Rota 6 - Final Matadouro 8,235m	7515186,827	620519,78	-22,46540605	-43,8286058
Rota 6 - Final Matadouro 8,235m	7515234,923	620560,856	-22,46496874	-43,82821028
Rota 6 - Final Matadouro 8,235m	7515295,588	620626,376	-22,46441618	-43,82757817
Rota 6 - Final Matadouro 8,235m	7515344,442	620679,201	-22,46397118	-43,82706854
Rota 6 - Final Matadouro 8,235m	7515408,502	620745,917	-22,46338787	-43,82642507
Rota 6 - Final Matadouro 8,235m	7515471,448	620790,012	-22,46281622	-43,82600136
Rota 6 - Final Matadouro 8,235m	7515526,483	620855,884	-22,46231447	-43,82536542
Rota 6 - Final Matadouro 8,235m	7515544,981	620895,145	-22,46214461	-43,8249853
Rota 6 - Final Matadouro 8,235m	7515561,087	620945,148	-22,46199561	-43,82450061
Rota 6 - Final Matadouro 8,235m	7515575,005	621003,146	-22,46186579	-43,82393807
Rota 6 - Final Matadouro 8,235m	7515589,845	621042,009	-22,461729	-43,82356154
Rota 6 - Final Matadouro 8,235m	7515618,632	621086,255	-22,46146586	-43,82313377
Rota 6 - Final Matadouro 8,235m	7515667,679	621136,748	-22,46101927	-43,82264683
Rota 6 - Final Matadouro 8,235m	7515724,404	621184,513	-22,46050354	-43,82218701
Rota 6 - Final Matadouro 8,235m	7515785,023	621229,507	-22,45995282	-43,8217544
Rota 6 - Final Matadouro 8,235m	7515841,47	621277,055	-22,45943961	-43,82129666
Rota 6 - Final Matadouro 8,235m	7515895,02	621331,189	-22,45895209	-43,8207747
Rota 6 - Final Matadouro 8,235m	7515948,574	621398,503	-22,45846361	-43,82012468
Rota 6 - Final Matadouro 8,235m	7516031,034	621522,362	-22,45771002	-43,81892739
Rota 6 - Final Matadouro 8,235m	7516059,9	621562,915	-22,45744641	-43,81853553
Rota 6 - Final Matadouro 8,235m	7516076,184	621612,856	-22,45729577	-43,81805149
Rota 6 - Final Matadouro 8,235m	7516076,184	621612,856	-22,45729577	-43,81805149
Rota 6 - Final Matadouro 8,235m	7516085,862	621707,641	-22,45720161	-43,81713117
Rota 6 - Final Matadouro 8,235m	7516090,937	621766,004	-22,45715161	-43,81656443
Rota 6 - Final Matadouro 8,235m	7516090,937	621766,004	-22,45715161	-43,81656443
Rota 6 - Final Matadouro 8,235m	7516098,917	621828,345	-22,45707509	-43,81595925
Rota 6 - Final Matadouro 8,235m	7516113,213	621968,287	-22,45693599	-43,81460049
Rota 6 - Final Matadouro 8,235m	7516136,009	622006,638	-22,45672735	-43,81422956
Rota 6 - Final Matadouro 8,235m	7516177,507	622097,083	-22,45634607	-43,81335388
Rota 6 - Final Matadouro 8,235m	7516211,005	622156,678	-22,45603926	-43,81277735
Rota 6 - Final Matadouro 8,235m	7516251,504	622181,918	-22,45567166	-43,8125352
Rota 6 - Final Matadouro 8,235m	7516251,504	622181,918	-22,45567166	-43,8125352
Rota 6 - Final Matadouro 8,235m	7516339,495	622221,433	-22,45487409	-43,812158
Rota 6 - Final Matadouro 8,235m	7516400,426	622238,935	-22,4543225	-43,81199262
Rota 6 - BR393 Vazador 6,293m	7516400,185	622238,746	-22,45432469	-43,81199443
Rota 6 - BR393 Vazador 6,293m	7516423,628	622268,489	-22,45411083	-43,81170722
Rota 6 - BR393 Vazador 6,293m	7516432,529	622296,937	-22,4540284	-43,81143148
Rota 6 - BR393 Vazador 6,293m	7516442,714	622349,868	-22,45393261	-43,81091793
Rota 6 - BR393 Vazador 6,293m	7516453,367	622423,016	-22,45383115	-43,81020796
Rota 6 - BR393 Vazador 6,293m	7516453,367	622423,016	-22,45383115	-43,81020796
Rota 6 - BR393 Vazador 6,293m	7516464,504	622487,717	-22,45372593	-43,80958011
Rota 6 - BR393 Vazador 6,293m	7516477,271	622571,824	-22,45360459	-43,80876382
Rota 6 - BR393 Vazador 6,293m	7516487,123	622637,695	-22,45351087	-43,80812451



## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**


MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - BR393 Vazador 6,293m	7516500,443	622722,066	-22,4533845	-43,8073057
Rota 6 - BR393 Vazador 6,293m	7516514,191	622826,132	-22,45325286	-43,80629555
Rota 6 - BR393 Vazador 6,293m	7516528,531	622920,332	-22,45311656	-43,80538132
Rota 6 - BR393 Vazador 6,293m	7516541,874	622993,257	-22,4529908	-43,80467374
Rota 6 - BR393 Vazador 6,293m	7516549,953	623027,944	-22,45291533	-43,80433731
Rota 6 - BR393 Vazador 6,293m	7516572,67	623088,984	-22,45270575	-43,80374594
Rota 6 - BR393 Vazador 6,293m	7516635,071	623214,393	-22,4521331	-43,80253218
Rota 6 - BR393 Vazador 6,293m	7516705,279	623352,573	-22,45148901	-43,80119495
Rota 6 - BR393 Vazador 6,293m	7516763,712	623463,014	-22,45095327	-43,80012635
Rota 6 - BR393 Vazador 6,293m	7516832,105	623596,551	-22,45032589	-43,79883412
Rota 6 - BR393 Vazador 6,293m	7516863,317	623654,822	-22,45003976	-43,79827033
Rota 6 - BR393 Vazador 6,293m	7516917,815	623737,753	-22,44954153	-43,79746876
Rota 6 - BR393 Vazador 6,293m	7516950,895	623780,013	-22,44923968	-43,79706071
Rota 6 - BR393 Vazador 6,293m	7516978,6	623809,13	-22,44898734	-43,79677994
Rota 6 - BR393 Vazador 6,293m	7517089,227	623909,518	-22,44798088	-43,79581313
Rota 6 - BR393 Vazador 6,293m	7517171,129	623984,075	-22,44723572	-43,79509508
Rota 6 - BR393 Vazador 6,293m	7517244,7	624055,57	-22,44656604	-43,79440614
Rota 6 - BR393 Vazador 6,293m	7517313,117	624128,854	-22,44594277	-43,79369942
Rota 6 - BR393 Vazador 6,293m	7517387,217	624206,568	-22,44526785	-43,7929501
Rota 6 - BR393 Vazador 6,293m	7517463,809	624288,573	-22,44457011	-43,7921593
Rota 6 - BR393 Vazador 6,293m	7517466,994	624291,855	-22,44454111	-43,79212766
Rota 6 - BR393 Vazador 6,293m	7517538,063	624366,745	-22,44389376	-43,79140556
Rota 6 - BR393 Vazador 6,293m	7517665,407	624502,443	-22,44273371	-43,79009705
Rota 6 - BR393 Vazador 6,293m	7517745,823	624591,246	-22,44200091	-43,78924052
Rota 6 - BR393 Vazador 6,293m	7517783,207	624634,66	-22,44166009	-43,78882164
Rota 6 - BR393 Vazador 6,293m	7517820,914	624694,094	-22,4413152	-43,78824712
Rota 6 - BR393 Vazador 6,293m	7517848,619	624760,989	-22,44106008	-43,78759934
Rota 6 - BR393 Vazador 6,293m	7517917,204	624924,274	-22,4404287	-43,78601823
Rota 6 - BR393 Vazador 6,293m	7517989,569	625104,78	-22,43976189	-43,78427012
Rota 6 - BR393 Vazador 6,293m	7518023,278	625176,227	-22,4394522	-43,7835786
Rota 6 - BR393 Vazador 6,293m	7518066,327	625241,341	-22,43905861	-43,78294934
Rota 6 - BR393 Vazador 6,293m	7518133,139	625319,122	-22,43844947	-43,78219889
Rota 6 - BR393 Vazador 6,293m	7518191,693	625382,605	-22,43791595	-43,78158671
Rota 6 - BR393 Vazador 6,293m	7518264,551	625458,265	-22,43725235	-43,78085736
Rota 6 - BR393 Vazador 6,293m	7518297,508	625503,964	-22,43695133	-43,78041595
Rota 6 - BR393 Vazador 6,293m	7518328,799	625550,039	-22,43666532	-43,77997077
Rota 6 - BR393 Vazador 6,293m	7518371,17	625625,519	-22,43627709	-43,77924078
Rota 6 - BR393 Vazador 6,293m	7518423,669	625713,81	-22,43579642	-43,77838711
Rota 6 - BR393 Vazador 6,293m	7518486,107	625818,118	-22,43522481	-43,77737862
Rota 6 - BR393 Vazador 6,293m	7518486,107	625818,118	-22,43522481	-43,77737862
Rota 6 - BR393 Vazador 6,293m	7518531,998	625898,444	-22,43480442	-43,77660184
Rota 6 - BR393 Vazador 6,293m	7518586,019	625985,141	-22,43431011	-43,7757638
Rota 6 - BR393 Vazador 6,293m	7518653,681	626097,44	-22,43369071	-43,77467811
Rota 6 - BR393 Vazador 6,293m	7518700,863	626171,752	-22,43325908	-43,77395988
Rota 6 - BR393 Vazador 6,293m	7518769,878	626251,869	-22,43262982	-43,77318698
Rota 6 - BR393 Vazador 6,293m	7518904,378	626392,751	-22,43140462	-43,77182893

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				
PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 6 - BR393 Vazador 6,293m	7519000,31	626495,965	-22,43053053	-43,7708338
Rota 6 - BR393 Vazador 6,293m	7519129,61	626634,42	-22,42935245	-43,76949896
Rota 6 - BR393 Vazador 6,293m	7519167,892	626671,782	-22,42900393	-43,76913903
Rota 6 - BR393 Vazador 6,293m	7519208,774	626706,139	-22,42863213	-43,7688085
Rota 6 - BR393 Vazador 6,293m	7519262,111	626747,87	-22,42814731	-43,76840733
Rota 6 - BR393 Vazador 6,293m	7519322,615	626794,052	-22,42759741	-43,76796348
Rota 6 - BR393 Vazador 6,293m	7519377,564	626839,241	-22,42709776	-43,76752885
Rota 6 - BR393 Vazador 6,293m	7519440,525	626904,49	-22,42652426	-43,76689997
Rota 6 - BR393 Vazador 6,293m	7519512,464	626987,217	-22,42586837	-43,76610202
Rota 6 - BR393 Vazador 6,293m	7519607,274	627094,996	-22,42500405	-43,76506253
Rota 6 - BR393 Vazador 6,293m	7519693,442	627193,042	-22,42421849	-43,76411691
Rota 6 - BR393 Vazador 6,293m	7519721,911	627225,864	-22,42395892	-43,76380032
Rota 6 - BR393 Vazador 6,293m	7519736,426	627248,172	-22,42382616	-43,76358476
Rota 6 - BR393 Vazador 6,293m	7519749,43	627280,936	-22,42370627	-43,76326751
Rota 6 - BR393 Vazador 6,293m	7519752,967	627306,792	-22,4236724	-43,76301661
Rota 6 - BR393 Vazador 6,293m	7519752,741	627330,7	-22,42367266	-43,76278432
Rota 6 - BR393 Vazador 6,293m	7519748,315	627349,051	-22,42371128	-43,76260569
Rota 6 - BR393 Vazador 6,293m	7519737,652	627379,695	-22,4238053	-43,76230714

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Início da Rota 7	7514675,193	620281,998	-22,47004398	-43,83087778
Rota 7 - Metalurgica 442m	7514671,155	620278,377	-22,4700807	-43,83091267
Rota 7 - Metalurgica 442m	7514634,627	620261,534	-22,47041181	-43,83107358
Rota 7 - Metalurgica 442m	7514588,56	620240,745	-22,47082936	-43,83127213
Rota 7 - Metalurgica 442m	7514569,642	620232,144	-22,47100083	-43,83135428
Rota 7 - Metalurgica 442m	7514563,517	620221,141	-22,47105694	-43,83146075
Rota 7 - Metalurgica 442m	7514566,047	620176,076	-22,47103726	-43,8318989
Rota 7 - Metalurgica 442m	7514566,896	620146,079	-22,4710317	-43,83219048
Rota 7 - Metalurgica 442m	7514564,487	620130,416	-22,47105456	-43,83234252
Rota 7 - Metalurgica 442m	7514563,885	620111,982	-22,47106129	-43,83252162
Rota 7 - Metalurgica 442m	7514565,638	620096,735	-22,47104653	-43,83266993
Rota 7 - Metalurgica 442m	7514567,399	620085,329	-22,47103143	-43,83278092
Rota 7 - Metalurgica 442m	7514578,863	620060,884	-22,4709296	-43,83301935
Rota 7 - Metalurgica 442m	7514577,89	620075,381	-22,47093737	-43,83287838
Rota 7 - Metalurgica 442m	7514575,447	620081,653	-22,470959	-43,83281724
Rota 7 - Metalurgica 442m	7514573,997	620090,54	-22,47097147	-43,83273077
Rota 7 - Metalurgica 442m	7514575,754	620101,215	-22,47095484	-43,83262716
Rota 7 - Metalurgica 442m	7514581,147	620112,993	-22,47090531	-43,8325131
Rota 7 - Metalurgica 442m	7514594,169	620125,851	-22,47078679	-43,83238914
Rota 7 - Metalurgica 442m	7514604,468	620140,065	-22,47069277	-43,83225177
Rota 7 - Metalurgica 442m	7514612,792	620154,213	-22,47061659	-43,83211491
Rota 7 - Metalurgica 442m	7514622,062	620170,591	-22,4705317	-43,83195644
Rota 7 - Metalurgica 442m	7514644,002	620182,104	-22,47033273	-43,83184622
Rota 7 - Metalurgica 442m	7514647,181	620178,616	-22,47030426	-43,83188035
Rota 7 - Principal 9,064m	7514671,283	620278,673	-22,47007952	-43,8309098
Rota 7 - Principal 9,064m	7514716,387	620304,18	-22,46967034	-43,83066533
Rota 7 - Principal 9,064m	7514768,628	620322,533	-22,4691972	-43,83049094
Rota 7 - Principal 9,064m	7514794,925	620346,584	-22,46895799	-43,83025919
Rota 7 - Principal 9,064m	7514814,218	620364,509	-22,46878246	-43,83008646
Rota 7 - Principal 9,064m	7514816,044	620386,196	-22,46876444	-43,82987584
Rota 7 - Principal 9,064m	7514821,365	620424,796	-22,46871366	-43,82950113
Rota 7 - Principal 9,064m	7514829,948	620466,642	-22,46863318	-43,82909511
Rota 7 - Principal 9,064m	7514837,63	620534,4	-22,46855901	-43,82843721
Rota 7 - Principal 9,064m	7514845,201	620575,309	-22,46848774	-43,82804022
Rota 7 - Principal 9,064m	7514847,235	620605,353	-22,46846725	-43,8277484
Rota 7 - Principal 9,064m	7514849,016	620624,382	-22,46844982	-43,82756361
Rota 7 - Principal 9,064m	7514844,514	620653,413	-22,46848843	-43,82728114
Rota 7 - Principal 9,064m	7514830,764	620670,241	-22,46861143	-43,82711655
Rota 7 - Principal 9,064m	7514808,915	620687,02	-22,46880759	-43,82695184
Rota 7 - Principal 9,064m	7514788,416	620707,917	-22,46899127	-43,82674719
Rota 7 - Principal 9,064m	7514770,872	620723,973	-22,46914859	-43,82658982
Rota 7 - Principal 9,064m	7514738,049	620729,693	-22,46944465	-43,82653174
Rota 7 - Principal 9,064m	7514720,309	620726,613	-22,46960509	-43,82656032

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Principal 9,064m	7514687,366	620725,079	-22,46990275	-43,82657273
Rota 7 - Principal 9,064m	7514662,913	620720,393	-22,47012395	-43,8266164
Rota 7 - Principal 9,064m	7514621,777	620716,306	-22,47049578	-43,82665299
Rota 7 - Principal 9,064m	7514613,099	620715,602	-22,47057421	-43,82665917
Rota 7 - Principal 9,064m	7514605,316	620729,549	-22,47064352	-43,82652304
Rota 7 - Principal 9,064m	7514598,133	620753,058	-22,47070674	-43,82629403
Rota 7 - Principal 9,064m	7514592,615	620769,727	-22,4707554	-43,82613161
Rota 7 - Principal 9,064m	7514586,501	620790,771	-22,47080913	-43,82592663
Rota 7 - Principal 9,064m	7514577,065	620819,153	-22,47089235	-43,82565009
Rota 7 - Principal 9,064m	7514563,078	620862,094	-22,47101565	-43,82523171
Rota 7 - Principal 9,064m	7514555,092	620884,156	-22,47108621	-43,82501669
Rota 7 - Principal 9,064m	7514551,966	620901,745	-22,4711132	-43,82484552
Rota 7 - Principal 9,064m	7514603,137	620915,468	-22,47065005	-43,82471605
Rota 7 - Principal 9,064m	7514616,612	620921,152	-22,47052793	-43,82466185
Rota 7 - Principal 9,064m	7514617,453	620936,841	-22,47051923	-43,82450944
Rota 7 - Principal 9,064m	7514609,929	620948,838	-22,47058634	-43,82439228
Rota 7 - Principal 9,064m	7514592,459	620954,173	-22,47074375	-43,8243391
Rota 7 - Principal 9,064m	7514566,956	620959,728	-22,4709737	-43,82428316
Rota 7 - Principal 9,064m	7514542,432	620969,812	-22,47119449	-43,8241833
Rota 7 - Principal 9,064m	7514531,812	620978,685	-22,47128979	-43,82409626
Rota 7 - Principal 9,064m	7514487,894	621012,87	-22,47168403	-43,82376069
Rota 7 - Principal 9,064m	7514467,444	621030,548	-22,47186749	-43,82358732
Rota 7 - Principal 9,064m	7514449,107	621048,936	-22,47203181	-43,82340722
Rota 7 - Principal 9,064m	7514434,198	621065,3	-22,47216531	-43,82324705
Rota 7 - Principal 9,064m	7514422,625	621080,684	-22,47226875	-43,82309666
Rota 7 - Principal 9,064m	7514420,98	621091,882	-22,47228281	-43,82298771
Rota 7 - Principal 9,064m	7514418,281	621104,574	-22,47230629	-43,82286415
Rota 7 - Principal 9,064m	7514412,596	621118,129	-22,47235667	-43,82273199
Rota 7 - Principal 9,064m	7514405,338	621126,408	-22,47242164	-43,82265097
Rota 7 - Principal 9,064m	7514392,123	621139,348	-22,47254008	-43,82252421
Rota 7 - Principal 9,064m	7514387,11	621148,929	-22,47258468	-43,82243071
Rota 7 - Principal 9,064m	7514381,144	621172,264	-22,4726369	-43,82220348
Rota 7 - Principal 9,064m	7514366,789	621236,905	-22,47276198	-43,82157417
Rota 7 - Principal 9,064m	7514360,365	621258,14	-22,47281849	-43,82136731
Rota 7 - Principal 9,064m	7514350,022	621273,784	-22,47291079	-43,82121448
Rota 7 - Principal 9,064m	7514338,202	621287,298	-22,4730166	-43,82108225
Rota 7 - Principal 9,064m	7514319,806	621302,303	-22,47318169	-43,82093501
Rota 7 - Principal 9,064m	7514312,092	621309,875	-22,47325083	-43,82086084
Rota 7 - Principal 9,064m	7514285,661	621326,149	-22,47348839	-43,82070065
Rota 7 - Principal 9,064m	7514270,745	621333,66	-22,47362258	-43,82062652
Rota 7 - Principal 9,064m	7514245,38	621347,653	-22,47385068	-43,82048858
Rota 7 - Principal 9,064m	7514228,148	621362,82	-22,47400525	-43,82033986
Rota 7 - Principal 9,064m	7514194,961	621404,326	-22,47430204	-43,81993395

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Principal 9,064m	7514172,108	621432,421	-22,47450646	-43,81965915
Rota 7 - Principal 9,064m	7514147,835	621454,636	-22,47472412	-43,81944141
Rota 7 - Principal 9,064m	7514130,733	621474,124	-22,47487772	-43,8192507
Rota 7 - Principal 9,064m	7514110,904	621483,305	-22,47505564	-43,81915995
Rota 7 - Principal 9,064m	7514078,947	621492,685	-22,47534361	-43,81906634
Rota 7 - Principal 9,064m	7514046,104	621488,365	-22,47564056	-43,81910582
Rota 7 - Principal 9,064m	7514013,071	621487,08	-22,47593901	-43,81911578
Rota 7 - Principal 9,064m	7513953,254	621482,546	-22,47647961	-43,81915525
Rota 7 - Principal 9,064m	7513913,034	621464,572	-22,47684416	-43,81932686
Rota 7 - Principal 9,064m	7513867,686	621447,576	-22,47725496	-43,81948857
Rota 7 - Principal 9,064m	7513835,113	621433,836	-22,47755013	-43,81961961
Rota 7 - Principal 9,064m	7513790,464	621424,433	-22,47795408	-43,81970758
Rota 7 - Principal 9,064m	7513732,27	621422,686	-22,47847982	-43,8197201
Rota 7 - Principal 9,064m	7513679,819	621423,543	-22,4789535	-43,81970775
Rota 7 - Principal 9,064m	7513630,615	621442,25	-22,47939659	-43,81952218
Rota 7 - Principal 9,064m	7513590,291	621489,785	-22,47975741	-43,8190571
Rota 7 - Principal 9,064m	7513569,587	621534,423	-22,47994124	-43,81862168
Rota 7 - Principal 9,064m	7513552,701	621568,522	-22,48009132	-43,81828898
Rota 7 - Principal 9,064m	7513538,942	621589,637	-22,48021409	-43,81808271
Rota 7 - Principal 9,064m	7513510,495	621600,752	-22,48047023	-43,81797251
Rota 7 - Principal 9,064m	7513469,758	621614,235	-22,48083721	-43,81783833
Rota 7 - Principal 9,064m	7513406,986	621608,651	-22,48140457	-43,8178878
Rota 7 - Principal 9,064m	7513327,932	621603,927	-22,48211893	-43,81792765
Rota 7 - Principal 9,064m	7513243,617	621576,057	-22,48288246	-43,81819205
Rota 7 - Principal 9,064m	7513121,991	621516,286	-22,48398526	-43,81876365
Rota 7 - Principal 9,064m	7513079,63	621499,021	-22,4843691	-43,81892821
Rota 7 - Principal 9,064m	7513048,496	621489,724	-22,48465097	-43,81901618
Rota 7 - Principal 9,064m	7512998,414	621490,054	-22,48510329	-43,81900914
Rota 7 - Principal 9,064m	7512948,96	621509,506	-22,48554858	-43,81881629
Rota 7 - Principal 9,064m	7512907,306	621545,844	-22,48592221	-43,81845991
Rota 7 - Principal 9,064m	7512906,488	621546,581	-22,48592955	-43,81845268
Rota 7 - Principal 9,064m	7512885,065	621567,56	-22,48612155	-43,81824714
Rota 7 - Principal 9,064m	7512834,531	621619,387	-22,48657428	-43,81773954
Rota 7 - Principal 9,064m	7512814,552	621641,357	-22,48675317	-43,81752448
Rota 7 - Principal 9,064m	7512791,182	621650,876	-22,48696357	-43,81743016
Rota 7 - Principal 9,064m	7512772,625	621661,639	-22,48713041	-43,81732413
Rota 7 - Principal 9,064m	7512703,093	621674,558	-22,4877575	-43,81719322
Rota 7 - Principal 9,064m	7512689,75	621643,588	-22,48788023	-43,81749322
Rota 7 - Principal 9,064m	7512634,188	621553,279	-22,48838851	-43,81836671
Rota 7 - Principal 9,064m	7512624,475	621534,069	-22,4884776	-43,81855267
Rota 7 - Principal 9,064m	7512610,899	621521,077	-22,48860115	-43,81867792
Rota 7 - Principal 9,064m	7512597,439	621515,27	-22,48872313	-43,81873332
Rota 7 - Principal 9,064m	7512584,083	621512,422	-22,48884398	-43,81875998

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Principal 9,064m	7512527,379	621504,02	-22,48935673	-43,81883729
Rota 7 - Principal 9,064m	7512485,12	621502,598	-22,48973852	-43,81884788
Rota 7 - Principal 9,064m	7512466,381	621499,817	-22,48990797	-43,81887347
Rota 7 - Principal 9,064m	7512428,806	621492,869	-22,49024784	-43,81893812
Rota 7 - Principal 9,064m	7512397,682	621489,202	-22,49052922	-43,81897138
Rota 7 - Principal 9,064m	7512371,775	621486,483	-22,4907634	-43,81899582
Rota 7 - Principal 9,064m	7512328,669	621461,175	-22,49115455	-43,8192385
Rota 7 - Principal 9,064m	7512314,675	621437,851	-22,4912826	-43,81946413
Rota 7 - Principal 9,064m	7512306,566	621408,69	-22,49135792	-43,81974695
Rota 7 - Principal 9,064m	7512299,602	621390,462	-22,49142212	-43,81992359
Rota 7 - Principal 9,064m	7512292,371	621383,476	-22,49148793	-43,81999093
Rota 7 - Principal 9,064m	7512245,425	621355,811	-22,49191392	-43,82025624
Rota 7 - Principal 9,064m	7512238,644	621347,021	-22,49197579	-43,82034116
Rota 7 - Principal 9,064m	7512236,333	621298,799	-22,49200009	-43,82080968
Rota 7 - Principal 9,064m	7512243,615	621286,934	-22,49193516	-43,82092557
Rota 7 - Principal 9,064m	7512246,193	621270,755	-22,49191303	-43,82108302
Rota 7 - Principal 9,064m	7512241,421	621263,802	-22,49195662	-43,82115024
Rota 7 - Principal 9,064m	7512235,643	621259,149	-22,49200914	-43,82119503
Rota 7 - Principal 9,064m	7512220,631	621254,453	-22,49214507	-43,82123952
Rota 7 - Principal 9,064m	7512208,606	621242,609	-22,49225451	-43,82135372
Rota 7 - Principal 9,064m	7512188,427	621226,188	-22,49243794	-43,82151179
Rota 7 - Principal 9,064m	7512171,668	621212,223	-22,4925903	-43,82164624
Rota 7 - Principal 9,064m	7512150,561	621197,005	-22,49278203	-43,82179255
Rota 7 - Principal 9,064m	7512141,676	621191,568	-22,49286267	-43,82184471
Rota 7 - Principal 9,064m	7512134,822	621192,129	-22,49292454	-43,82183874
Rota 7 - Principal 9,064m	7512127,433	621194,147	-22,49299113	-43,82181856
Rota 7 - Principal 9,064m	7512104,991	621202,551	-22,49319323	-43,82173515
Rota 7 - Principal 9,064m	7512093,931	621202,994	-22,49329309	-43,82173
Rota 7 - Principal 9,064m	7512084,681	621201,614	-22,49337673	-43,82174271
Rota 7 - Principal 9,064m	7512074,878	621188,114	-22,49346623	-43,82187318
Rota 7 - Principal 9,064m	7512066,19	621153,959	-22,49354713	-43,82220449
Rota 7 - Principal 9,064m	7512059,736	621134,821	-22,49360679	-43,82239002
Rota 7 - Principal 9,064m	7512049,618	621113,291	-22,4936997	-43,82259851
Rota 7 - Principal 9,064m	7512033,623	621089,354	-22,49384587	-43,82282996
Rota 7 - Principal 9,064m	7512021,628	621074,649	-22,49395526	-43,82297197
Rota 7 - Principal 9,064m	7512004,323	621053,922	-22,49411303	-43,82317212
Rota 7 - Principal 9,064m	7511993,623	621043,563	-22,49421041	-43,82327199
Rota 7 - Principal 9,064m	7511980,237	621041,999	-22,49433142	-43,82328617
Rota 7 - Principal 9,064m	7511972,646	621040,312	-22,49440011	-43,82330199
Rota 7 - Principal 9,064m	7511947,484	621016,484	-22,49462906	-43,82353167
Rota 7 - Principal 9,064m	7511916,846	620974,589	-22,49490876	-43,82393655
Rota 7 - Principal 9,064m	7511896,435	620957,685	-22,49509431	-43,8240993
Rota 7 - Principal 9,064m	7511870,907	620930,736	-22,4953268	-43,8243593

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Principal 9,064m	7511855,05	620910,183	-22,49547148	-43,82455786
Rota 7 - Principal 9,064m	7511841,889	620884,848	-22,49559214	-43,82480311
Rota 7 - Principal 9,064m	7511855,257	620863,357	-22,49547292	-43,82501303
Rota 7 - Principal 9,064m	7511883,045	620838,682	-22,49522369	-43,82525499
Rota 7 - Principal 9,064m	7511883,045	620838,682	-22,49522369	-43,82525499
Rota 7 - Principal 9,064m	7511912,888	620814,228	-22,49495588	-43,82549496
Rota 7 - Principal 9,064m	7511926,675	620796,655	-22,4948326	-43,82566682
Rota 7 - Principal 9,064m	7511931,764	620778,178	-22,49478794	-43,82584681
Rota 7 - Principal 9,064m	7511928,031	620756,788	-22,49482318	-43,82605443
Rota 7 - Principal 9,064m	7511920,96	620739,615	-22,49488825	-43,82622081
Rota 7 - Principal 9,064m	7511867,741	620699,471	-22,49537178	-43,82660696
Rota 7 - Principal 9,064m	7511808,27	620654,364	-22,49591211	-43,82704088
Rota 7 - Principal 9,064m	7511797,015	620591,693	-22,49601821	-43,82764918
Rota 7 - Principal 9,064m	7511794,708	620557,4	-22,49604147	-43,82798235
Rota 7 - Principal 9,064m	7511794,538	620527,669	-22,49604511	-43,82827131
Rota 7 - Principal 9,064m	7511815,325	620484,488	-22,49586041	-43,82869262
Rota 7 - Principal 9,064m	7511819,729	620474,347	-22,49582134	-43,82879153
Rota 7 - Principal 9,064m	7511809,592	620478,7	-22,49591259	-43,82874844
Rota 7 - Principal 9,064m	7511799,475	620490,116	-22,49600317	-43,82863671
Rota 7 - Principal 9,064m	7511790,612	620508,094	-22,49608195	-43,82846128
Rota 7 - Principal 9,064m	7511784,351	620521,565	-22,49613754	-43,82832987
Rota 7 - Principal 9,064m	7511780,537	620525,835	-22,49617169	-43,82828808
Rota 7 - Principal 9,064m	7511769,592	620515,938	-22,49627125	-43,82838344
Rota 7 - Principal 9,064m	7511755,189	620503,137	-22,49640224	-43,82850677
Rota 7 - Principal 9,064m	7511742,434	620493,337	-22,49651815	-43,82860107
Rota 7 - Principal 9,064m	7511728,423	620486,168	-22,4966452	-43,82866968
Rota 7 - Principal 9,064m	7511707,6	620479,003	-22,49683378	-43,82873774
Rota 7 - Principal 9,064m	7511685,89	620473,127	-22,49703029	-43,82879321
Rota 7 - Principal 9,064m	7511666,049	620467,525	-22,49720989	-43,82884615
Rota 7 - Principal 9,064m	7511647,422	620455,319	-22,49737899	-43,82896338
Rota 7 - Principal 9,064m	7511638,671	620444,151	-22,49745882	-43,82907127
Rota 7 - Principal 9,064m	7511603,704	620397,659	-22,49777793	-43,82952053
Rota 7 - Principal 9,064m	7511589,644	620347,971	-22,49790843	-43,83000243
Rota 7 - Principal 9,064m	7511597,049	620318,944	-22,49784359	-43,83028514
Rota 7 - Principal 9,064m	7511616,064	620280,429	-22,49767456	-43,83066097
Rota 7 - Principal 9,064m	7511657,934	620278,903	-22,4972965	-43,83067898
Rota 7 - Principal 9,064m	7511672,822	620278,514	-22,49716206	-43,83068389
Rota 7 - Principal 9,064m	7511716,55	620270,693	-22,49676764	-43,83076323
Rota 7 - Principal 9,064m	7511726,727	620266,131	-22,49667605	-43,83080834
Rota 7 - Principal 9,064m	7511725,299	620280,887	-22,49668791	-43,8306648
Rota 7 - Principal 9,064m	7511709,114	620296,65	-22,49683298	-43,83051036
Rota 7 - Principal 9,064m	7511690,311	620312,142	-22,49700172	-43,83035835
Rota 7 - Principal 9,064m	7511678,511	620320,787	-22,49710769	-43,83027342

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Principal 9,064m	7511668,039	620334,792	-22,49720129	-43,83013649
Rota 7 - Principal 9,064m	7511662,226	620353,531	-22,49725247	-43,82995391
Rota 7 - Principal 9,064m	7511665,996	620373,457	-22,49721701	-43,82976051
Rota 7 - Principal 9,064m	7511682,192	620400,155	-22,49706884	-43,82950223
Rota 7 - Principal 9,064m	7511702,029	620418,485	-22,49688837	-43,82932557
Rota 7 - Principal 9,064m	7511727,476	620429,297	-22,49665777	-43,82922241
Rota 7 - Principal 9,064m	7511787,12	620444,089	-22,49611801	-43,82908316
Rota 7 - Principal 9,064m	7511790,016	620426,932	-22,49609307	-43,82925015
Rota 7 - Principal 9,064m	7511792,103	620387,126	-22,49607703	-43,82963722
Rota 7 - Principal 9,064m	7511793,382	620355,607	-22,4960677	-43,82994369
Rota 7 - Principal 9,064m	7511793,905	620346,214	-22,49606364	-43,83003503
Rota 7 - Principal 9,064m	7511806,617	620323,64	-22,49595042	-43,83025542
Rota 7 - Principal 9,064m	7511823,145	620298,709	-22,49580289	-43,830499
Rota 7 - Principal 9,064m	7511834,704	620286,527	-22,49569935	-43,83061829
Rota 7 - Principal 9,064m	7511837,954	620273,825	-22,49567089	-43,830742
Rota 7 - Principal 9,064m	7511841,24	620256,752	-22,49564241	-43,8309082
Rota 7 - Principal 9,064m	7511841,24	620256,752	-22,49564241	-43,8309082
Rota 7 - Principal 9,064m	7511836,601	620240,7	-22,49568545	-43,83106387
Rota 7 - Principal 9,064m	7511828,599	620229,141	-22,49575854	-43,83117563
Rota 7 - Principal 9,064m	7511793,464	620210,659	-22,49607719	-43,8313526
Rota 7 - Principal 9,064m	7511757,982	620198,029	-22,49639855	-43,83147268
Rota 7 - Principal 9,064m	7511736,552	620187,59	-22,49659285	-43,83157252
Rota 7 - Principal 9,064m	7511719,47	620177,083	-22,49674788	-43,83167336
Rota 7 - Principal 9,064m	7511696,618	620159,858	-22,49695549	-43,83183905
Rota 7 - Principal 9,064m	7511665,079	620146,624	-22,49724129	-43,8319653
Rota 7 - Principal 9,064m	7511635,984	620133,363	-22,49750502	-43,83209199
Rota 7 - Principal 9,064m	7511588,075	620103,195	-22,49793986	-43,8323816
Rota 7 - Principal 9,064m	7511591,253	620082,244	-22,49791263	-43,83258549
Rota 7 - Principal 9,064m	7511609,794	620076,777	-22,49774555	-43,83264003
Rota 7 - Principal 9,064m	7511636,141	620083,537	-22,49750711	-43,83257632
Rota 7 - Principal 9,064m	7511677,978	620091,498	-22,49712866	-43,83250211
Rota 7 - Principal 9,064m	7511696,42	620098,999	-22,49696157	-43,83243059
Rota 7 - Principal 9,064m	7511732,405	620115,522	-22,49663539	-43,83227271
Rota 7 - Principal 9,064m	7511762,042	620128,166	-22,49636681	-43,83215206
Rota 7 - Principal 9,064m	7511779,073	620130,225	-22,49621283	-43,83213334
Rota 7 - Principal 9,064m	7511843,288	620118,683	-22,49563365	-43,8322504
Rota 7 - Principal 9,064m	7511852,335	620117,43	-22,49555203	-43,83226327
Rota 7 - Principal 9,064m	7511857,525	620119,956	-22,49550497	-43,83223911
Rota 7 - Principal 9,064m	7511874,016	620139,31	-22,49535466	-43,83205223
Rota 7 - Principal 9,064m	7511896,79	620167,313	-22,49514699	-43,83178176
Rota 7 - Principal 9,064m	7511918,707	620193,829	-22,49494716	-43,83152569
Rota 7 - Principal 9,064m	7511928,818	620206,649	-22,49485494	-43,83140185
Rota 7 - Principal 9,064m	7511948,225	620216,362	-22,49467896	-43,83130891



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Principal 9,064m	7511951,747	620220,923	-22,49464683	-43,83126485
Rota 7 - Principal 9,064m	7511947,766	620230,776	-22,49468209	-43,83116878
Rota 7 - Principal 9,064m	7511917,391	620285,609	-22,49495257	-43,83063349
Rota 7 - Principal 9,064m	7511909,388	620305,906	-22,49502343	-43,83043559
Rota 7 - Principal 9,064m	7511895,891	620333,909	-22,49514336	-43,83016238
Rota 7 - Principal 9,064m	7511890,639	620350,509	-22,49518962	-43,83000063
Rota 7 - Principal 9,064m	7511880,99	620368,932	-22,49527548	-43,82982082
Rota 7 - Principal 9,064m	7511868,98	620392,699	-22,49538227	-43,8295889
Rota 7 - Principal 9,064m	7511855,095	620414,693	-22,49550613	-43,82937406
Rota 7 - Principal 9,064m	7511841,142	620442,322	-22,4956302	-43,82910444
Rota 7 - Principal 9,064m	7511831,609	620454,585	-22,49571544	-43,82898452
Rota 7 - Principal 9,064m	7511838,996	620453,378	-22,49564881	-43,82899681
Rota 7 - Principal 9,064m	7511844,167	620445,128	-22,49560268	-43,82907739
Rota 7 - Principal 9,064m	7511844,169	620444,735	-22,49560269	-43,82908122
Rota 7 - Principal 9,064m	7511848,554	620435,698	-22,49556372	-43,82916939
Rota 7 - Principal 9,064m	7511848,559	620434,911	-22,49556374	-43,82917704
Rota 7 - Principal 9,064m	7511860,119	620412,926	-22,49546088	-43,82939161
Rota 7 - Principal 9,064m	7511872,795	620394,119	-22,49534771	-43,82957538
Rota 7 - Principal 9,064m	7511884,707	620376,39	-22,49524137	-43,82974862
Rota 7 - Principal 9,064m	7511899,46	620346,514	-22,49511023	-43,83004013
Rota 7 - Principal 9,064m	7511909,774	620324,652	-22,49501862	-43,83025341
Rota 7 - Principal 9,064m	7511923,32	620301,792	-22,49489788	-43,83047664
Rota 7 - Principal 9,064m	7511946,669	620260,235	-22,49468992	-43,83088235
Rota 7 - Principal 9,064m	7511978,276	620228,454	-22,49440668	-43,83119366
Rota 7 - Principal 9,064m	7512007,247	620214,832	-22,49414598	-43,83132826
Rota 7 - Principal 9,064m	7512020,981	620204,802	-22,49402263	-43,8314268
Rota 7 - Principal 9,064m	7512043,998	620182,42	-22,49381632	-43,83164609
Rota 7 - Principal 9,064m	7512064,92	620170,519	-22,49362819	-43,83176335
Rota 7 - Principal 9,064m	7512100,162	620151,926	-22,49331119	-43,83194675
Rota 7 - Principal 9,064m	7512131,219	620130,303	-22,4930322	-43,83215928
Rota 7 - Principal 9,064m	7512141,023	620121,617	-22,49294426	-43,83224445
Rota 7 - Principal 9,064m	7512135,675	620115,332	-22,49299301	-43,83230513
Rota 7 - Principal 9,064m	7512118,502	620101,668	-22,49314908	-43,83243664
Rota 7 - Principal 9,064m	7512104,242	620101,126	-22,49327792	-43,83244083
Rota 7 - Principal 9,064m	7512078,771	620098,412	-22,49350817	-43,83246528
Rota 7 - Principal 9,064m	7512078,113	620098,435	-22,49351411	-43,83246501
Rota 7 - Principal 9,064m	7512058,305	620098,059	-22,49369304	-43,83246716
Rota 7 - Principal 9,064m	7512040,018	620101,323	-22,49385798	-43,83243405
Rota 7 - Principal 9,064m	7512040,018	620101,323	-22,49385798	-43,83243405
Rota 7 - Principal 9,064m	7512028,425	620106,251	-22,49396235	-43,83238527
Rota 7 - Principal 9,064m	7512023,823	620119,729	-22,49400296	-43,83225392
Rota 7 - Principal 9,064m	7512027,326	620133,071	-22,49397038	-43,8321245
Rota 7 - Principal 9,064m	7512032,727	620154,752	-22,49392007	-43,83191417

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Principal 9,064m	7512042,358	620167,365	-22,49383219	-43,8317923
Rota 7 - Principal 9,064m	7512046,337	620174,688	-22,49379573	-43,83172142
Rota 7 - Principal 9,064m	7512051,274	620179,302	-22,49375082	-43,83167695
Rota 7 - Principal 9,064m	7512058,432	620180,969	-22,49368605	-43,83166129
Rota 7 - Principal 9,064m	7512079,076	620168,087	-22,4935005	-43,83178807
Rota 7 - Principal 9,064m	7512097,976	620157,91	-22,49333051	-43,83188843
Rota 7 - Principal 9,064m	7512119,78	620141,124	-22,49313476	-43,83205323
Rota 7 - Principal 9,064m	7512132,874	620132,283	-22,49301712	-43,83214016
Rota 7 - Principal 9,064m	7512146,913	620124,249	-22,49289088	-43,83221932
Rota 7 - Principal 9,064m	7512161,646	620123,141	-22,49275788	-43,8322312
Rota 7 - Principal 9,064m	7512190,664	620117,959	-22,49249616	-43,83228377
Rota 7 - Principal 9,064m	7512218,512	620108,001	-22,49224533	-43,83238266
Rota 7 - Principal 9,064m	7512236,493	620099,083	-22,49208355	-43,83247071
Rota 7 - Principal 9,064m	7512262,184	620083,704	-22,49185258	-43,83262214
Rota 7 - Principal 9,064m	7512286,494	620054,836	-22,49163505	-43,83290458
Rota 7 - Principal 9,064m	7512311,685	620033,779	-22,491409	-43,83311115
Rota 7 - Principal 9,064m	7512344,521	620017,86	-22,49111354	-43,83326837
Rota 7 - Principal 9,064m	7512372,232	620018,051	-22,49086324	-43,83326861
Rota 7 - Principal 9,064m	7512404,266	620018,835	-22,49057385	-43,83326341
Rota 7 - Principal 9,064m	7512433,509	620017,39	-22,49030982	-43,83327968
Rota 7 - Principal 9,064m	7512467,476	620006,408	-22,4900038	-43,83338898
Rota 7 - Principal 9,064m	7512491,584	619998,311	-22,48978662	-43,83346952
Rota 7 - Principal 9,064m	7512556,033	620000,618	-22,48920435	-43,83345197
Rota 7 - Principal 9,064m	7512585,467	620025,472	-22,48893675	-43,83321263
Rota 7 - Principal 9,064m	7512627,531	620046,119	-22,48855537	-43,83301513
Rota 7 - Principal 9,064m	7512685,093	620047,358	-22,48803538	-43,83300745
Rota 7 - Principal 9,064m	7512732,357	620037,777	-22,48760915	-43,83310415
Rota 7 - Principal 9,064m	7512776,515	620027,725	-22,48721102	-43,83320519
Rota 7 - Principal 9,064m	7512802,96	620024,934	-22,48697236	-43,83323433
Rota 7 - Principal 9,064m	7512820,478	620021,65	-22,48681436	-43,83326756
Rota 7 - Principal 9,064m	7512886,424	620003,156	-22,48622003	-43,83345231
Rota 7 - Principal 9,064m	7512970,299	619988,034	-22,48546352	-43,83360564
Rota 7 - Principal 9,064m	7513015,152	619986,411	-22,48505852	-43,83362481
Rota 7 - Principal 9,064m	7513095,356	619975,577	-22,48433486	-43,83373617
Rota 7 - Principal 9,064m	7513144,274	619957,986	-22,48389427	-43,83391085
Rota 7 - Parque Santana 5,495m	7512703,258	621674,516	-22,48775602	-43,81719365
Rota 7 - Parque Santana 5,495m	7512680,65	621685,625	-22,48795943	-43,81708394
Rota 7 - Parque Santana 5,495m	7512654,568	621691,899	-22,48819455	-43,81702095
Rota 7 - Parque Santana 5,495m	7512630,751	621699,608	-22,48840912	-43,8169442
Rota 7 - Parque Santana 5,495m	7512615,271	621713,868	-22,48854792	-43,81680441
Rota 7 - Parque Santana 5,495m	7512599,137	621725,448	-22,48869281	-43,81669061
Rota 7 - Parque Santana 5,495m	7512481,567	621815,864	-22,48974826	-43,81580278
Rota 7 - Parque Santana 5,495m	7512444	621844,108	-22,49008556	-43,81552537

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Parque Santana 5,495m	7512382,85	621888,872	-22,49063467	-43,81508558
Rota 7 - Parque Santana 5,495m	7512355,647	621915,699	-22,49087845	-43,81482274
Rota 7 - Parque Santana 5,495m	7512336,823	621960,063	-22,4910453	-43,81439008
Rota 7 - Parque Santana 5,495m	7512324,236	621982,12	-22,49115741	-43,81417472
Rota 7 - Parque Santana 5,495m	7512296,393	622006,369	-22,49140716	-43,81393689
Rota 7 - Parque Santana 5,495m	7512256,76	622025,131	-22,49176378	-43,81375148
Rota 7 - Parque Santana 5,495m	7512204,419	622028,566	-22,49223628	-43,81371406
Rota 7 - Parque Santana 5,495m	7512158,46	622032,663	-22,4926511	-43,8136707
Rota 7 - Parque Santana 5,495m	7512092,446	622038,71	-22,4932469	-43,81360684
Rota 7 - Parque Santana 5,495m	7512026,202	622049,511	-22,49384445	-43,81349675
Rota 7 - Parque Santana 5,495m	7511987,452	622049,333	-22,49419446	-43,8134955
Rota 7 - Parque Santana 5,495m	7511951,159	622043,661	-22,49452267	-43,81354783
Rota 7 - Parque Santana 5,495m	7511918,486	622038,066	-22,49481817	-43,8135997
Rota 7 - Parque Santana 5,495m	7511892,996	622043,972	-22,49504798	-43,81354033
Rota 7 - Parque Santana 5,495m	7511872,774	622059,855	-22,49522949	-43,81338439
Rota 7 - Parque Santana 5,495m	7511819,637	622093,376	-22,49570702	-43,81305447
Rota 7 - Parque Santana 5,495m	7511797,924	622113,375	-22,4959017	-43,81285841
Rota 7 - Parque Santana 5,495m	7511776,861	622124,698	-22,49609114	-43,81274673
Rota 7 - Parque Santana 5,495m	7511753,69	622135,748	-22,49629962	-43,81263753
Rota 7 - Parque Santana 5,495m	7511730,059	622140,544	-22,49651272	-43,81258909
Rota 7 - Parque Santana 5,495m	7511686,646	622150,089	-22,49690414	-43,81249297
Rota 7 - Parque Santana 5,495m	7511648,718	622159,691	-22,49724602	-43,81239672
Rota 7 - Parque Santana 5,495m	7511618,682	622158,961	-22,49751736	-43,8124015
Rota 7 - Parque Santana 5,495m	7511586,455	622173,098	-22,49780742	-43,81226159
Rota 7 - Parque Santana 5,495m	7511558,804	622192,899	-22,49805575	-43,81206699
Rota 7 - Parque Santana 5,495m	7511534,737	622219,9	-22,4982712	-43,81180268
Rota 7 - Parque Santana 5,495m	7511513,18	622251,937	-22,4984636	-43,81148961
Rota 7 - Parque Santana 5,495m	7511491,531	622265,381	-22,49865817	-43,81135726
Rota 7 - Parque Santana 5,495m	7511459,07	622264,982	-22,49895139	-43,81135864
Rota 7 - Parque Santana 5,495m	7511415,335	622256,664	-22,499347	-43,81143611
Rota 7 - Parque Santana 5,495m	7511381,702	622246,806	-22,49965149	-43,81152934
Rota 7 - Parque Santana 5,495m	7511341,16	622239,688	-22,50001817	-43,81159541
Rota 7 - Parque Santana 5,495m	7511306,171	622244,663	-22,50033384	-43,81154435
Rota 7 - Parque Santana 5,495m	7511257,843	622263,821	-22,50076897	-43,81135439
Rota 7 - Parque Santana 5,495m	7511227,992	622278,398	-22,50103753	-43,81121039
Rota 7 - Parque Santana 5,495m	7511198,939	622287,323	-22,5012993	-43,8111214
Rota 7 - Parque Santana 5,495m	7511175,098	622283,583	-22,5015149	-43,81115591
Rota 7 - Parque Santana 5,495m	7511148,883	622273,027	-22,50175244	-43,81125649
Rota 7 - Parque Santana 5,495m	7511128,421	622244,761	-22,50193928	-43,81152967
Rota 7 - Parque Santana 5,495m	7511113,579	622208,822	-22,50207591	-43,81187787
Rota 7 - Parque Santana 5,495m	7511100,881	622168,949	-22,50219346	-43,81226447
Rota 7 - Parque Santana 5,495m	7511101,35	622093,172	-22,50219465	-43,8130011
Rota 7 - Parque Santana 5,495m	7511095,277	622026,724	-22,50225427	-43,81364654

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Parque Santana 5,495m	7511087,24	621979,955	-22,5023302	-43,81410054
Rota 7 - Parque Santana 5,495m	7511072,768	621942,519	-22,50246359	-43,81446332
Rota 7 - Parque Santana 5,495m	7511041,071	621886,878	-22,50275386	-43,81500174
Rota 7 - Parque Santana 5,495m	7511022,306	621876,4	-22,50292409	-43,81510215
Rota 7 - Parque Santana 5,495m	7510981,105	621857,776	-22,50329755	-43,81528001
Rota 7 - Parque Santana 5,495m	7510939,059	621844,548	-22,50367826	-43,81540536
Rota 7 - Parque Santana 5,495m	7510905,513	621831,289	-22,5039822	-43,81553166
Rota 7 - Parque Santana 5,495m	7510857,724	621796,359	-22,50441633	-43,81586753
Rota 7 - Parque Santana 5,495m	7510763,312	621714,215	-22,50527494	-43,81665876
Rota 7 - Parque Santana 5,495m	7510739,404	621668,748	-22,50549412	-43,8170989
Rota 7 - Parque Santana 5,495m	7510729,358	621644,997	-22,50558655	-43,81732901
Rota 7 - Parque Santana 5,495m	7510725,84	621615,539	-22,50562043	-43,81761509
Rota 7 - Parque Santana 5,495m	7510725,081	621573,346	-22,50563029	-43,81802518
Rota 7 - Parque Santana 5,495m	7510722,204	621542,868	-22,50565846	-43,81832122
Rota 7 - Parque Santana 5,495m	7510713,514	621521,461	-22,50573846	-43,81852865
Rota 7 - Parque Santana 5,495m	7510694,517	621495,736	-22,50591189	-43,81877726
Rota 7 - Parque Santana 5,495m	7510672,842	621485,427	-22,50610839	-43,81887581
Rota 7 - Parque Santana 5,495m	7510628,776	621482,069	-22,50650664	-43,81890507
Rota 7 - Parque Santana 5,495m	7510605,884	621487,688	-22,506713	-43,81884869
Rota 7 - Parque Santana 5,495m	7510583,191	621499,39	-22,50691713	-43,8187332
Rota 7 - Parque Santana 5,495m	7510561,802	621520,975	-22,50710878	-43,81852173
Rota 7 - Parque Santana 5,495m	7510549,476	621557,189	-22,50721752	-43,81816875
Rota 7 - Parque Santana 5,495m	7510549,263	621578,432	-22,50721793	-43,81796224
Rota 7 - Parque Santana 5,495m	7510556,977	621640,09	-22,50714386	-43,81736346
Rota 7 - Parque Santana 5,495m	7510573,488	621715,764	-22,50698933	-43,81662912
Rota 7 - Parque Santana 5,495m	7510601,595	621771,269	-22,5067315	-43,81609172
Rota 7 - Parque Santana 5,495m	7510628,573	621802,723	-22,50648559	-43,81578804
Rota 7 - Parque Santana 5,495m	7510654,799	621837,503	-22,50624622	-43,81545197
Rota 7 - Parque Santana 5,495m	7510671,028	621865,717	-22,50609763	-43,81517896
Rota 7 - Parque Santana 5,495m	7510682,828	621897,147	-22,5059888	-43,81487435
Rota 7 - Parque Santana 5,495m	7510693,103	621954,927	-22,50589186	-43,81431347
Rota 7 - Parque Santana 5,495m	7510692,836	621986,781	-22,505892	-43,8140038
Rota 7 - Parque Santana 5,495m	7510686,514	622021,253	-22,50594662	-43,81366822
Rota 7 - Parque Santana 5,495m	7510676,046	622068,844	-22,50603776	-43,8132048
Rota 7 - Parque Santana 5,495m	7510647,866	622135,676	-22,5062875	-43,81255296
Rota 7 - Parque Santana 5,495m	7510624,414	622181,022	-22,50649607	-43,81211036
Rota 7 - Parque Santana 5,495m	7510604,122	622199,677	-22,50667801	-43,81192746
Rota 7 - Parque Santana 5,495m	7510567,634	622220,967	-22,50700604	-43,81171768
Rota 7 - Parque Santana 5,495m	7510528,84	622237,195	-22,50735527	-43,81155694
Rota 7 - Parque Santana 5,495m	7510481,467	622256,043	-22,5077818	-43,81137007
Rota 7 - Parque Santana 5,495m	7510431,612	622266,342	-22,50823135	-43,8112661
Rota 7 - Parque Santana 5,495m	7510382,269	622269,545	-22,50867679	-43,81123115
Rota 7 - Parque Santana 5,495m	7510380,714	622269,53	-22,50869083	-43,81123117

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Parque Santana 5,495m	7510353,959	622279,05	-22,5089318	-43,81113657
Rota 7 - Parque Santana 5,495m	7510160,983	622312,907	-22,51067234	-43,81079254
Rota 7 - Parque Santana 5,495m	7510012,473	622338,069	-22,51201188	-43,81053646
Rota 7 - Parque Santana 5,495m	7509930,074	622374,644	-22,51275349	-43,81017454
Rota 7 - Parque Santana 5,495m	7509930,074	622374,644	-22,51275349	-43,81017454
Rota 7 - Parque Santana 5,495m	7509725,714	622491,106	-22,5145909	-43,80902658
Rota 7 - Parque Santana 5,495m	7509635,016	622535,745	-22,51540688	-43,8085856
Rota 7 - Parque Santana 5,495m	7509478,716	622627,941	-22,51681196	-43,80767722
Rota 7 - Parque Santana 5,495m	7509342,404	622727,595	-22,51803596	-43,80669787
Rota 7 - Parque Santana 5,495m	7509325,2	622752,905	-22,51818951	-43,80645048
Rota 7 - Parque Santana 5,495m	7509321,424	622772,101	-22,51822223	-43,80626357
Rota 7 - Parque Santana 5,495m	7509331,806	622784,352	-22,51812758	-43,80614528
Rota 7 - Parque Santana 5,495m	7509321,888	622795,184	-22,51821638	-43,8060392
Rota 7 - Parque Santana 5,495m	7509307,28	622811,146	-22,51834717	-43,80588289
Rota 7 - Parque Santana 5,495m	7509290,62	622829,548	-22,51849632	-43,80570271
Rota 7 - Parque Santana 5,495m	7509274,085	622854,681	-22,51864385	-43,80545709
Rota 7 - Parque Santana 5,495m	7509261,789	622867,874	-22,51875396	-43,80532787
Rota 7 - Parque Santana 5,495m	7509248,526	622881,776	-22,51887274	-43,8051917
Rota 7 - Parque Santana 5,495m	7509232,651	622893,648	-22,51901527	-43,80507505
Rota 7 - Parque Santana 5,495m	7509214,068	622908,052	-22,51918207	-43,80493358
Rota 7 - Parque Santana 5,495m	7509199,529	622919,034	-22,5193126	-43,80482569
Rota 7 - Parque Santana 5,495m	7509193,284	622928,272	-22,51936834	-43,80473539
Rota 7 - Parque Santana 5,495m	7509200,396	622951,666	-22,51930241	-43,80450852
Rota 7 - Parque Santana 5,495m	7509202,953	622967,885	-22,51927814	-43,80435104
Rota 7 - Parque Santana 5,495m	7509199,88	622982,06	-22,51930488	-43,80421299
Rota 7 - Parque Santana 5,495m	7509195,815	622997,582	-22,51934047	-43,80406178
Rota 7 - Parque Santana 5,495m	7509215,207	623007,6	-22,5191646	-43,80396589
Rota 7 - Parque Santana 5,495m	7509242,464	623014,912	-22,51891788	-43,80389693
Rota 7 - Parque Santana 5,495m	7509260,178	623020,212	-22,51875751	-43,80384678
Rota 7 - Parque Santana 5,495m	7509269,147	623028,538	-22,5186759	-43,80376654
Rota 7 - Parque Santana 5,495m	7509276,954	623047,151	-22,51860405	-43,8035862
Rota 7 - Parque Santana 5,495m	7509278,495	623070,667	-22,51858842	-43,8033577
Rota 7 - 319m	7511513,106	622252,122	-22,49846426	-43,81148781
Rota 7 - 319m	7511519,475	622273,837	-22,49840517	-43,81127723
Rota 7 - 319m	7511523,685	622296,639	-22,49836551	-43,81105591
Rota 7 - 319m	7511529,017	622324,275	-22,49831537	-43,81078769
Rota 7 - 319m	7511535,19	622354,722	-22,49825743	-43,81049222
Rota 7 - 319m	7511540,1	622382,44	-22,49821109	-43,81022318
Rota 7 - 319m	7511549,159	622406,753	-22,49812753	-43,80998755
Rota 7 - 319m	7511551,755	622424,844	-22,49810278	-43,80981191
Rota 7 - 319m	7511554,416	622460,876	-22,49807616	-43,80946187
Rota 7 - 319m	7511553,681	622512,784	-22,49807907	-43,80895726
Rota 7 - 319m	7511555,998	622539,452	-22,49805623	-43,80869822

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - 319m	7511554,074	622566,384	-22,49807167	-43,80843629
Rota 7 - Parque Santana 4,518m	7509278,385	623070,841	-22,51858941	-43,803356
Rota 7 - Parque Santana 4,518m	7509279,346	623090,528	-22,5185793	-43,80316469
Rota 7 - Parque Santana 4,518m	7509275,289	623124,487	-22,51861349	-43,80283423
Rota 7 - Parque Santana 4,518m	7509272,882	623152,638	-22,51863319	-43,80256038
Rota 7 - Parque Santana 4,518m	7509262,53	623180,757	-22,51872466	-43,80228621
Rota 7 - Parque Santana 4,518m	7509249,077	623190,61	-22,51884546	-43,80218938
Rota 7 - Parque Santana 4,518m	7509234,003	623203,227	-22,51898069	-43,80206554
Rota 7 - Parque Santana 4,518m	7509222,832	623215,888	-22,51908068	-43,80194159
Rota 7 - Parque Santana 4,518m	7509213,003	623225,264	-22,51916877	-43,80184968
Rota 7 - Parque Santana 4,518m	7509203,979	623234,738	-22,51924959	-43,80175687
Rota 7 - Parque Santana 4,518m	7509191,602	623243,156	-22,51936077	-43,80167407
Rota 7 - Parque Santana 4,518m	7509177,974	623241,707	-22,51948396	-43,8016871
Rota 7 - Parque Santana 4,518m	7509177,974	623241,707	-22,51948396	-43,8016871
Rota 7 - Parque Santana 4,518m	7509151,628	623243,286	-22,51972181	-43,8016697
Rota 7 - Parque Santana 4,518m	7509144,982	623250,816	-22,51978129	-43,80159597
Rota 7 - Parque Santana 4,518m	7509149,146	623264,302	-22,5197427	-43,80146519
Rota 7 - Parque Santana 4,518m	7509164,083	623283,697	-22,51960639	-43,8012778
Rota 7 - Parque Santana 4,518m	7509180,409	623284,578	-22,51945887	-43,80127051
Rota 7 - Parque Santana 4,518m	7509202,31	623276,792	-22,51926162	-43,8013479
Rota 7 - Parque Santana 4,518m	7509230,106	623258,459	-22,51901189	-43,8015283
Rota 7 - Parque Santana 4,518m	7509256,915	623243,617	-22,51877083	-43,80167467
Rota 7 - Parque Santana 4,518m	7509278,174	623231,199	-22,51857972	-43,80179705
Rota 7 - Parque Santana 4,518m	7509303,042	623226,509	-22,51835545	-43,80184458
Rota 7 - Parque Santana 4,518m	7509329,779	623212,875	-22,51811495	-43,80197921
Rota 7 - Parque Santana 4,518m	7509352,725	623215,803	-22,51790749	-43,80195253
Rota 7 - Parque Santana 4,518m	7509368,794	623216,535	-22,51776229	-43,80194667
Rota 7 - Parque Santana 4,518m	7509380,339	623208,126	-22,51765863	-43,80202932
Rota 7 - Parque Santana 4,518m	7509382,089	623198,323	-22,51764353	-43,80212475
Rota 7 - Parque Santana 4,518m	7509378,702	623181,177	-22,51767537	-43,80229117
Rota 7 - Parque Santana 4,518m	7509370,744	623159,553	-22,51774881	-43,80250077
Rota 7 - Parque Santana 4,518m	7509372,369	623133,4	-22,51773602	-43,80275514
Rota 7 - Parque Santana 4,518m	7509385,207	623107,456	-22,51762194	-43,80300836
Rota 7 - Parque Santana 4,518m	7509410,896	623094,564	-22,51739085	-43,80313569
Rota 7 - Parque Santana 4,518m	7509428,195	623103,935	-22,51723392	-43,80304593
Rota 7 - Parque Santana 4,518m	7509438,443	623125,514	-22,51713981	-43,80283695
Rota 7 - Parque Santana 4,518m	7509438,007	623142,87	-22,51714249	-43,80266819
Rota 7 - Parque Santana 4,518m	7509437,583	623151,95	-22,51714567	-43,80257989
Rota 7 - Parque Santana 4,518m	7509456,105	623160,882	-22,51697773	-43,80249449
Rota 7 - Parque Santana 4,518m	7509474,096	623183,686	-22,51681358	-43,8022742
Rota 7 - Parque Santana 4,518m	7509497,585	623195,397	-22,51660058	-43,80216218
Rota 7 - Parque Santana 4,518m	7509514,874	623206,229	-22,51644365	-43,80205823
Rota 7 - Parque Santana 4,518m	7509535,224	623226,951	-22,51625834	-43,80185836

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Parque Santana 4,518m	7509554,079	623235,262	-22,51608745	-43,80177904
Rota 7 - Parque Santana 4,518m	7509564,409	623272,502	-22,51599145	-43,80141782
Rota 7 - Parque Santana 4,518m	7509569,387	623283,016	-22,51594573	-43,801316
Rota 7 - Parque Santana 4,518m	7509589,42	623285,815	-22,51576459	-43,80129034
Rota 7 - Parque Santana 4,518m	7509594,109	623284,224	-22,51572235	-43,80130618
Rota 7 - Parque Santana 4,518m	7509630,062	623286,247	-22,51539748	-43,80128931
Rota 7 - Parque Santana 4,518m	7509671,97	623294,702	-22,51501835	-43,80121039
Rota 7 - Parque Santana 4,518m	7509691,361	623304,246	-22,51484252	-43,80111911
Rota 7 - Parque Santana 4,518m	7509711,473	623320,606	-22,51465969	-43,80096164
Rota 7 - Parque Santana 4,518m	7509717,348	623308,656	-22,51460748	-43,80107827
Rota 7 - Parque Santana 4,518m	7509705,02	623301,283	-22,51471937	-43,80114899
Rota 7 - Parque Santana 4,518m	7509681,899	623278,83	-22,51492982	-43,80136545
Rota 7 - Parque Santana 4,518m	7509662,887	623266,909	-22,5151024	-43,80147986
Rota 7 - Parque Santana 4,518m	7509662,887	623266,909	-22,5151024	-43,80147986
Rota 7 - Parque Santana 4,518m	7509642,406	623252,903	-22,5152884	-43,80161443
Rota 7 - Parque Santana 4,518m	7509621,688	623230,568	-22,51547714	-43,80182994
Rota 7 - Parque Santana 4,518m	7509611,431	623204,818	-22,51557164	-43,80207946
Rota 7 - Parque Santana 4,518m	7509599,615	623170,189	-22,51568087	-43,80241518
Rota 7 - Parque Santana 4,518m	7509579,948	623138,275	-22,51586081	-43,8027239
Rota 7 - Parque Santana 4,518m	7509545,168	623099,57	-22,51617774	-43,80309747
Rota 7 - Parque Santana 4,518m	7509523,898	623066,956	-22,51637221	-43,80341286
Rota 7 - Parque Santana 4,518m	7509512,652	623049,648	-22,51647504	-43,80358025
Rota 7 - Parque Santana 4,518m	7509479,65	623002,344	-22,51677652	-43,80403754
Rota 7 - Parque Santana 4,518m	7509459,071	622985,1	-22,51696364	-43,80420359
Rota 7 - Parque Santana 4,518m	7509425,637	622956,519	-22,51726768	-43,80447883
Rota 7 - Parque Santana 4,518m	7509400,652	622921,367	-22,51749588	-43,80481863
Rota 7 - Parque Santana 4,518m	7509374,415	622865,547	-22,51773688	-43,80535924
Rota 7 - Parque Santana 4,518m	7509349,721	622815,442	-22,51796353	-43,80584443
Rota 7 - Parque Santana 4,518m	7509339,582	622797,794	-22,51805638	-43,8060152
Rota 7 - Parque Santana 4,518m	7509339,582	622797,794	-22,51805638	-43,8060152
Rota 7 - Parque Santana 4,518m	7509321,874	622771,618	-22,5182182	-43,8062683
Rota 7 - Parque Santana 4,518m	7509315,745	622766,539	-22,51827393	-43,8063172
Rota 7 - Parque Santana 4,518m	7509295,875	622782,583	-22,51845224	-43,80615969
Rota 7 - Parque Santana 4,518m	7509270,119	622811,095	-22,51868281	-43,80588051
Rota 7 - Parque Santana 4,518m	7509255,682	622834,222	-22,51881154	-43,80565456
Rota 7 - Parque Santana 4,518m	7509234,708	622864,188	-22,51899881	-43,80536161
Rota 7 - Parque Santana 4,518m	7509211,535	622887,119	-22,51920646	-43,80513688
Rota 7 - Parque Santana 4,518m	7509164,378	622911,691	-22,51963061	-43,80489433
Rota 7 - Parque Santana 4,518m	7509116,23	622921,692	-22,52006476	-43,80479337
Rota 7 - Parque Santana 4,518m	7509058,509	622929,204	-22,52058556	-43,80471586
Rota 7 - Parque Santana 4,518m	7509030,841	622932,231	-22,52083524	-43,80468428
Rota 7 - Parque Santana 4,518m	7508982,286	622950,227	-22,52127249	-43,80450555
Rota 7 - Parque Santana 4,518m	7508943,746	622968,123	-22,52161928	-43,80432858

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Parque Santana 4,518m	7508914,715	622981,478	-22,52188053	-43,80419649
Rota 7 - Parque Santana 4,518m	7508897,772	622990,96	-22,52203287	-43,80410299
Rota 7 - Parque Santana 4,518m	7508871,056	623003,918	-22,52227324	-43,80397494
Rota 7 - Parque Santana 4,518m	7508797,835	623017,712	-22,52293357	-43,80383514
Rota 7 - Parque Santana 4,518m	7508765,408	623011,514	-22,52322691	-43,80389287
Rota 7 - Parque Santana 4,518m	7508724,033	622993,444	-22,5236019	-43,80406534
Rota 7 - Parque Santana 4,518m	7508704,23	622985,694	-22,52378133	-43,80413914
Rota 7 - Parque Santana 4,518m	7508645,127	622917,881	-22,52432004	-43,80479382
Rota 7 - Parque Santana 4,518m	7508637,615	622912,523	-22,52438828	-43,80484533
Rota 7 - Parque Santana 4,518m	7508628,091	622920,098	-22,52447376	-43,80477095
Rota 7 - Parque Santana 4,518m	7508620,138	622930,162	-22,52454486	-43,80467248
Rota 7 - Parque Santana 4,518m	7508615,95	622947,84	-22,52458141	-43,8045003
Rota 7 - Parque Santana 4,518m	7508615,351	622962,68	-22,52458574	-43,80435597
Rota 7 - Parque Santana 4,518m	7508615,873	622975,76	-22,52458008	-43,80422884
Rota 7 - Parque Santana 4,518m	7508610,985	622992,418	-22,52462303	-43,80406652
Rota 7 - Parque Santana 4,518m	7508604,416	623015,618	-22,52468069	-43,80384046
Rota 7 - Parque Santana 4,518m	7508598,927	623034,963	-22,52472887	-43,80365196
Rota 7 - Parque Santana 4,518m	7508594,822	623048,36	-22,52476497	-43,80352139
Rota 7 - Parque Santana 4,518m	7508603,348	623051,67	-22,52468773	-43,80348988
Rota 7 - Parque Santana 4,518m	7508617,246	623052,817	-22,52456212	-43,80347981
Rota 7 - Parque Santana 4,518m	7508632,565	623042,136	-22,52442453	-43,80358484
Rota 7 - Parque Santana 4,518m	7508645,836	623034,029	-22,52430525	-43,80366469
Rota 7 - Parque Santana 4,518m	7508672,684	623015,986	-22,52406407	-43,80384219
Rota 7 - Parque Santana 4,518m	7508685,721	623002,777	-22,52394727	-43,80397162
Rota 7 - Parque Santana 4,518m	7508694,544	622998,22	-22,52386791	-43,8040166
Rota 7 - Parque Santana 4,518m	7508702,445	622995,495	-22,52379674	-43,80404372
Rota 7 - Parque Santana 4,518m	7508716,56	623008,097	-22,52366835	-43,8039223
Rota 7 - Parque Santana 4,518m	7508736,429	623031,316	-22,52348721	-43,80369811
Rota 7 - Parque Santana 4,518m	7508736,429	623031,316	-22,52348721	-43,80369811
Rota 7 - Parque Santana 4,518m	7508759,855	623058,616	-22,52327365	-43,80343452
Rota 7 - Parque Santana 4,518m	7508778,815	623080,349	-22,52310084	-43,80322471
Rota 7 - Parque Santana 4,518m	7508790,755	623111,028	-22,52299078	-43,80292738
Rota 7 - Parque Santana 4,518m	7508792,587	623124,038	-22,52297329	-43,80280104
Rota 7 - Parque Santana 4,518m	7508782,874	623147,063	-22,52305936	-43,80257644
Rota 7 - Parque Santana 4,518m	7508762,338	623170,061	-22,52324317	-43,80235126
Rota 7 - Parque Santana 4,518m	7508724,938	623204,582	-22,52357847	-43,80201274
Rota 7 - Parque Santana 4,518m	7508704,289	623235,566	-22,52376273	-43,8017099
Rota 7 - Parque Santana 4,518m	7508693,437	623256,068	-22,52385926	-43,80150973
Rota 7 - Parque Santana 4,518m	7508682,579	623273,422	-22,52395608	-43,80134018
Rota 7 - Parque Santana 4,518m	7508668,736	623285,057	-22,52408026	-43,80122598
Rota 7 - Parque Santana 4,518m	7508639,922	623285,698	-22,52434046	-43,80121751
Rota 7 - Parque Santana 4,518m	7508639,025	623285,69	-22,52434856	-43,80121752
Rota 7 - Parque Santana 4,518m	7508609,582	623281,363	-22,52461481	-43,80125728



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Parque Santana 4,518m	7508589,262	623279,389	-22,52479848	-43,8012749
Rota 7 - Parque Santana 4,518m	7508568,477	623281,889	-22,52498603	-43,80124897
Rota 7 - Parque Santana 4,518m	7508557,094	623288,536	-22,52508836	-43,80118346
Rota 7 - Parque Santana 4,518m	7508547,01	623294,337	-22,52517902	-43,80112628
Rota 7 - Parque Santana 4,518m	7508530,052	623299,13	-22,52533184	-43,80107836
Rota 7 - Parque Santana 4,518m	7508515,243	623306,753	-22,52546504	-43,80100309
Rota 7 - Parque Santana 4,518m	7508503,535	623316,096	-22,52557011	-43,80091134
Rota 7 - Parque Santana 4,518m	7508490,927	623325,431	-22,52568331	-43,80081961
Rota 7 - Parque Santana 4,518m	7508456,485	623334,159	-22,52599375	-43,80073207
Rota 7 - Parque Santana 4,518m	7508453,363	623334,586	-22,52602192	-43,80072767
Rota 7 - Parque Santana 4,518m	7508432,849	623343,372	-22,52620657	-43,80064065
Rota 7 - Parque Santana 4,518m	7508431,957	623344,256	-22,52621456	-43,80063199
Rota 7 - Parque Santana 4,518m	7508417,648	623358,867	-22,52634274	-43,80048882
Rota 7 - Parque Santana 4,518m	7508404,631	623379,276	-22,52645884	-43,80028939
Rota 7 - Parque Santana 4,518m	7508393,38	623397,945	-22,5265591	-43,800107
Rota 7 - Parque Santana 4,518m	7508370,157	623416,61	-22,5267675	-43,79992373
Rota 7 - Parque Santana 4,518m	7508346,231	623431,817	-22,52698249	-43,79977403
Rota 7 - Parque Santana 4,518m	7508291,32	623451,96	-22,52747699	-43,79957391
Rota 7 - Parque Santana 4,518m	7508236,953	623473,345	-22,52796648	-43,79936175
Rota 7 - Parque Santana 4,518m	7508165,597	623487,293	-22,52860996	-43,79922057
Rota 7 - Parque Santana 4,518m	7508143,053	623489,965	-22,52881338	-43,79919284
Rota 7 - Parque Santana 4,518m	7508124,483	623498,216	-22,5289805	-43,79911116
Rota 7 - Parque Santana 4,518m	7508102,105	623509,728	-22,52918178	-43,79899749
Rota 7 - Parque Santana 4,518m	7508084,842	623528,129	-22,52933637	-43,79881725
Rota 7 - Parque Santana 4,518m	7508058,769	623559,313	-22,5295696	-43,79851203
Rota 7 - Parque Santana 4,518m	7508039,727	623576,203	-22,52974036	-43,79834633
Rota 7 - Parque Santana 4,518m	7508025,863	623574,201	-22,52986573	-43,79836472
Rota 7 - Parque Santana 4,518m	7507986,817	623560,855	-22,53021935	-43,79849142
Rota 7 - Parque Santana 4,518m	7507947,665	623551,708	-22,53057364	-43,79857729
Rota 7 - Parque Santana 4,518m	7507884,649	623528,07	-22,53114451	-43,79880219
Rota 7 - Parque Santana 4,518m	7507837,918	623522,846	-22,53156697	-43,79884932
Rota 7 - Parque Santana 4,518m	7507797,944	623523,467	-22,53192797	-43,79884016
Rota 7 - Parque Santana 4,518m	7507765,614	623528,567	-22,5322196	-43,79878805
Rota 7 - Parque Santana 4,518m	7507734,834	623539,679	-22,5324968	-43,79867761
Rota 7 - Parque Santana 4,518m	7507724,106	623558,781	-22,53259231	-43,79849105
Rota 7 - Parque Santana 4,518m	7507720,707	623579,93	-22,53262147	-43,79828516
Rota 7 - Parque Santana 4,518m	7507712,561	623611,444	-22,53269276	-43,79797813
Rota 7 - Parque Santana 4,518m	7507707,906	623632,359	-22,53273328	-43,79777442
Rota 7 - Parque Santana 4,518m	7507713,706	623646,777	-22,53267985	-43,79763469
Rota 7 - Parque Santana 4,518m	7507726,809	623672,585	-22,53255963	-43,79738479
Rota 7 - Parque Santana 4,518m	7507735,877	623694,316	-22,53247615	-43,79717423
Rota 7 - Parque Santana 4,518m	7507742,672	623711,242	-22,53241355	-43,7970102
Rota 7 - Parque Santana 4,518m	7507748,974	623738,41	-22,53235465	-43,79674655

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Parque Santana 4,518m	7507753,5	623755,143	-22,53231255	-43,79658422
Rota 7 - Parque Santana 4,518m	7507752,038	623764,246	-22,5323251	-43,7964956
Rota 7 - Parque Santana 4,518m	7507737,201	623768,372	-22,5324588	-43,79645432
Rota 7 - 357m	7509438,53	623151,083	-22,51713717	-43,80258839
Rota 7 - 357m	7509429,887	623155,615	-22,51721491	-43,80254365
Rota 7 - 357m	7509417,494	623160,037	-22,51732652	-43,8024997
Rota 7 - 357m	7509411,888	623168,236	-22,51737656	-43,80241956
Rota 7 - 357m	7509411,707	623185,864	-22,51737692	-43,80224818
Rota 7 - 357m	7509415,457	623213,447	-22,51734106	-43,80198032
Rota 7 - 357m	7509419,708	623233,435	-22,51730122	-43,80178634
Rota 7 - 357m	7509409,744	623243,628	-22,51739048	-43,80168647
Rota 7 - 357m	7509389,212	623259,299	-22,51757479	-43,80153252
Rota 7 - 357m	7509378,777	623267,363	-22,51766845	-43,80145332
Rota 7 - 357m	7509366,529	623279,659	-22,51777819	-43,80133283
Rota 7 - 357m	7509355,733	623298,544	-22,51787433	-43,8011484
Rota 7 - 357m	7509351,377	623317,848	-22,51791227	-43,80096039
Rota 7 - 357m	7509344,9	623330,114	-22,51796989	-43,80084065
Rota 7 - 357m	7509335,003	623339,569	-22,51805859	-43,80074796
Rota 7 - 357m	7509312,447	623342,337	-22,51826211	-43,80071929
Rota 7 - 357m	7509292,712	623340,761	-22,51844048	-43,80073307
Rota 7 - 357m	7509277,133	623345,885	-22,51858082	-43,80068205
Rota 7 - 357m	7509264,991	623354,691	-22,51868985	-43,80059549
Rota 7 - 357m	7509251,408	623362,358	-22,51881198	-43,80051989
Rota 7 - 357m	7509234,036	623385,39	-22,51896721	-43,80029463
Rota 7 - 252m	7509419,685	623232,998	-22,51730146	-43,80179058
Rota 7 - 252m	7509436,691	623253,213	-22,5171464	-43,80159539
Rota 7 - 252m	7509451,278	623272,141	-22,51701328	-43,80141251
Rota 7 - 252m	7509465,003	623295,056	-22,51688765	-43,80119082
Rota 7 - 252m	7509478,538	623309,529	-22,51676436	-43,80105118
Rota 7 - 252m	7509489,405	623326,028	-22,51666501	-43,80089163
Rota 7 - 252m	7509519,065	623343,057	-22,5163959	-43,80072839
Rota 7 - 252m	7509550,66	623358,689	-22,51610939	-43,80057889
Rota 7 - 252m	7509576,814	623370,905	-22,51587228	-43,80046217
Rota 7 - 252m	7509611,572	623383,981	-22,5155574	-43,80033776
Rota 7 - Boca do Mato 1,206m	7507752,256	623763,925	-22,53232316	-43,79649874
Rota 7 - Boca do Mato 1,206m	7507763,658	623782,001	-22,53221885	-43,79632389
Rota 7 - Boca do Mato 1,206m	7507777,301	623817,739	-22,53209303	-43,79597748
Rota 7 - Boca do Mato 1,206m	7507786,691	623851,941	-22,53200574	-43,79564569
Rota 7 - Boca do Mato 1,206m	7507790,736	623881,931	-22,53196701	-43,79535444
Rota 7 - Boca do Mato 1,206m	7507785,329	623902,14	-22,53201438	-43,79515753
Rota 7 - Boca do Mato 1,206m	7507759,131	623925,364	-22,53224931	-43,79492968
Rota 7 - Boca do Mato 1,206m	7507728,717	623940,129	-22,53252294	-43,79478374
Rota 7 - Boca do Mato 1,206m	7507701,738	623947,106	-22,5327661	-43,79471379

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Boca do Mato 1,206m	7507671,359	623946,801	-22,5330405	-43,79471437
Rota 7 - Boca do Mato 1,206m	7507639,905	623936,996	-22,53332531	-43,79480724
Rota 7 - Boca do Mato 1,206m	7507598,843	623935,376	-22,5336963	-43,79481977
Rota 7 - Boca do Mato 1,206m	7507553,192	623943,243	-22,53410805	-43,79473971
Rota 7 - Boca do Mato 1,206m	7507529	623950,986	-22,53432598	-43,79466253
Rota 7 - Boca do Mato 1,206m	7507494,648	623954,247	-22,53463601	-43,79462813
Rota 7 - Boca do Mato 1,206m	7507464,448	623963,075	-22,53490813	-43,79453993
Rota 7 - Boca do Mato 1,206m	7507448,114	623970,572	-22,53505512	-43,79446575
Rota 7 - Boca do Mato 1,206m	7507425,085	623978,644	-22,53526252	-43,79438548
Rota 7 - Boca do Mato 1,206m	7507410,029	623973,16	-22,53539891	-43,79443761
Rota 7 - Boca do Mato 1,206m	7507388,799	623944,836	-22,53559272	-43,79471133
Rota 7 - Boca do Mato 1,206m	7507376,038	623927,44	-22,53570925	-43,79487947
Rota 7 - Boca do Mato 1,206m	7507355,945	623910,676	-22,53589195	-43,79504088
Rota 7 - Boca do Mato 1,206m	7507336,508	623906,294	-22,53606782	-43,79508197
Rota 7 - Boca do Mato 1,206m	7507284,478	623915,575	-22,53653708	-43,79498765
Rota 7 - Boca do Mato 1,206m	7507276,349	623924,278	-22,53660986	-43,7949024
Rota 7 - Boca do Mato 1,206m	7507267,064	623932,206	-22,53669315	-43,79482459
Rota 7 - Boca do Mato 1,206m	7507249,795	623935,402	-22,53684889	-43,79479216
Rota 7 - Boca do Mato 1,206m	7507234,129	623941,769	-22,53698992	-43,79472902
Rota 7 - Boca do Mato 1,206m	7507220,849	623952,517	-22,53710908	-43,79462349
Rota 7 - Boca do Mato 1,206m	7507205,038	623959,846	-22,53725135	-43,79455098
Rota 7 - Boca do Mato 1,206m	7507180,348	623964,365	-22,53747402	-43,79450511
Rota 7 - Boca do Mato 1,206m	7507157,325	623960,853	-22,53768222	-43,79453745
Rota 7 - Boca do Mato 1,206m	7507134,373	623953,281	-22,53789007	-43,79460927
Rota 7 - Boca do Mato 1,206m	7507122,464	623954,156	-22,53799757	-43,79459983
Rota 7 - Boca do Mato 1,206m	7507105,435	623964,163	-22,53815065	-43,7945012
Rota 7 - Boca do Mato 1,206m	7507096,83	623974,096	-22,53822765	-43,79440395
Rota 7 - Boca do Mato 1,206m	7507077,633	623977,732	-22,53840077	-43,79436709
Rota 7 - Boca do Mato 1,206m	7507028,569	623988,94	-22,53884309	-43,79425426
Rota 7 - Boca do Mato 1,206m	7506999,128	623993,288	-22,53910868	-43,79420968
Rota 7 - Boca do Mato 1,206m	7506966,883	623994,713	-22,53939982	-43,7941933
Rota 7 - Boca do Mato 1,206m	7506906,45	623992,932	-22,53994577	-43,79420587
Rota 7 - Boca do Mato 1,206m	7506872,488	623985,504	-22,54025306	-43,79427543
Rota 7 - Boca do Mato 1,206m	7506853,552	623969,226	-22,54042528	-43,79443222
Rota 7 - Boca do Mato 1,206m	7506819,067	623941,501	-22,54073876	-43,79469909
Rota 7 - Boca do Mato 2,352m	7507737,565	623768,679	-22,5324555	-43,79645137
Rota 7 - Boca do Mato 2,352m	7507720,734	623771,178	-22,53260733	-43,79642575
Rota 7 - Boca do Mato 2,352m	7507693,478	623774,086	-22,5328533	-43,79639535
Rota 7 - Boca do Mato 2,352m	7507672,357	623773,032	-22,53304414	-43,79640394
Rota 7 - Boca do Mato 2,352m	7507657,531	623769,03	-22,53317834	-43,79644168
Rota 7 - Boca do Mato 2,352m	7507639,602	623761,942	-22,53334079	-43,7965092
Rota 7 - Boca do Mato 2,352m	7507627,135	623756,404	-22,53345379	-43,79656206
Rota 7 - Boca do Mato 2,352m	7507612,609	623750,073	-22,53358545	-43,79662249

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Boca do Mato 2,352m	7507589,389	623747,69	-22,53379534	-43,79664384
Rota 7 - Boca do Mato 2,352m	7507572,078	623742,144	-22,5339521	-43,7966964
Rota 7 - Boca do Mato 2,352m	7507556,881	623731,458	-22,53409014	-43,79679911
Rota 7 - Boca do Mato 2,352m	7507548,741	623713,643	-22,53416495	-43,79697168
Rota 7 - Boca do Mato 2,352m	7507544,412	623693,086	-22,53420555	-43,79717121
Rota 7 - Boca do Mato 2,352m	7507549,972	623654,13	-22,53415815	-43,7975504
Rota 7 - Boca do Mato 2,352m	7507554,632	623648,931	-22,53411644	-43,79760131
Rota 7 - Boca do Mato 2,352m	7507573,91	623652,947	-22,53394203	-43,79756377
Rota 7 - Boca do Mato 2,352m	7507614,901	623655,029	-22,53357166	-43,79754674
Rota 7 - Boca do Mato 2,352m	7507635,283	623651,818	-22,5333878	-43,79757955
Rota 7 - Boca do Mato 2,352m	7507658,549	623644,12	-22,53317822	-43,79765621
Rota 7 - Boca do Mato 2,352m	7507686,841	623638,949	-22,53292306	-43,7977087
Rota 7 - Boca do Mato 2,352m	7507686,342	623629,44	-22,53292826	-43,79780111
Rota 7 - Boca do Mato 2,352m	7507674,678	623620,135	-22,53303429	-43,79789067
Rota 7 - Boca do Mato 2,352m	7507653,601	623594,252	-22,53322653	-43,79814068
Rota 7 - Boca do Mato 2,352m	7507638,294	623577,108	-22,53336603	-43,79830616
Rota 7 - Boca do Mato 2,352m	7507621,625	623570,913	-22,53351703	-43,79836509
Rota 7 - Boca do Mato 2,352m	7507603,412	623565,863	-22,5336819	-43,79841277
Rota 7 - Boca do Mato 2,352m	7507584,323	623569,404	-22,53385405	-43,79837684
Rota 7 - Boca do Mato 2,352m	7507564,274	623577,738	-22,53403453	-43,79829425
Rota 7 - Boca do Mato 2,352m	7507548,369	623586,581	-22,53417755	-43,79820703
Rota 7 - Boca do Mato 2,352m	7507537,509	623591,616	-22,53427527	-43,79815722
Rota 7 - Boca do Mato 2,352m	7507526,398	623591,532	-22,53437563	-43,79815717
Rota 7 - Boca do Mato 2,352m	7507515,474	623583,335	-22,53447488	-43,79823602
Rota 7 - Boca do Mato 2,352m	7507506,858	623571,418	-22,53455357	-43,79835121
Rota 7 - Boca do Mato 2,352m	7507502,072	623566,997	-22,53459712	-43,79839382
Rota 7 - Boca do Mato 2,352m	7507492,137	623549,713	-22,53468811	-43,79856109
Rota 7 - Boca do Mato 2,352m	7507486,581	623535	-22,53473936	-43,7987037
Rota 7 - Boca do Mato 2,352m	7507488,891	623511,447	-22,5347202	-43,79893288
Rota 7 - Boca do Mato 2,352m	7507499,304	623488,816	-22,53462779	-43,79915373
Rota 7 - Boca do Mato 2,352m	7507517,835	623470,727	-22,53446174	-43,79933106
Rota 7 - Boca do Mato 2,352m	7507538,726	623456,752	-22,53427406	-43,79946856
Rota 7 - Boca do Mato 2,352m	7507569,958	623434,335	-22,5339936	-43,79968895
Rota 7 - Boca do Mato 2,352m	7507570,922	623421,595	-22,53398582	-43,79981289
Rota 7 - Boca do Mato 2,352m	7507569,939	623383,368	-22,53399746	-43,80018448
Rota 7 - Boca do Mato 2,352m	7507567,194	623359,411	-22,53402399	-43,8004172
Rota 7 - Boca do Mato 2,352m	7507564,099	623345,158	-22,53405298	-43,80055553
Rota 7 - Boca do Mato 2,352m	7507572,099	623332,264	-22,53398166	-43,80068151
Rota 7 - Boca do Mato 2,352m	7507589,986	623314,53	-22,53382139	-43,80085533
Rota 7 - Boca do Mato 2,352m	7507608,294	623299,561	-22,53365712	-43,8010023
Rota 7 - Boca do Mato 2,352m	7507621,236	623289,807	-22,53354093	-43,80109814
Rota 7 - Boca do Mato 2,352m	7507625,093	623277,062	-22,53350702	-43,80122236
Rota 7 - Boca do Mato 2,352m	7507618,996	623269,056	-22,53356267	-43,80129973

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Boca do Mato 2,352m	7507609,285	623268,367	-22,53365043	-43,80130567
Rota 7 - Boca do Mato 2,352m	7507589,13	623266,923	-22,53383257	-43,80131814
Rota 7 - Boca do Mato 2,352m	7507577,4	623265,412	-22,53393862	-43,80133191
Rota 7 - Boca do Mato 2,352m	7507568,146	623257,467	-22,53402278	-43,80140843
Rota 7 - Boca do Mato 2,352m	7507539,276	623208,85	-22,53428706	-43,80187887
Rota 7 - Boca do Mato 2,352m	7507529,373	623180,998	-22,53437851	-43,8021489
Rota 7 - Boca do Mato 2,352m	7507532,501	623167,827	-22,53435122	-43,8022772
Rota 7 - Boca do Mato 2,352m	7507533,638	623160,635	-22,53434146	-43,80234721
Rota 7 - Boca do Mato 2,352m	7507528,988	623158,028	-22,53438366	-43,8023722
Rota 7 - Boca do Mato 2,352m	7507521,288	623155,277	-22,5344534	-43,80239834
Rota 7 - Boca do Mato 2,352m	7507509,124	623149,892	-22,53456366	-43,80244975
Rota 7 - Boca do Mato 2,352m	7507501,996	623142,353	-22,53462858	-43,8025225
Rota 7 - Boca do Mato 2,352m	7507477,93	623118,081	-22,5348477	-43,80275661
Rota 7 - Boca do Mato 2,352m	7507455,677	623104,54	-22,53504967	-43,80288654
Rota 7 - Boca do Mato 2,352m	7507442,468	623099,936	-22,5351693	-43,80293027
Rota 7 - Boca do Mato 2,352m	7507417,856	623089,813	-22,53539233	-43,80302678
Rota 7 - Boca do Mato 2,352m	7507408,377	623082,465	-22,53547848	-43,80309749
Rota 7 - Boca do Mato 2,352m	7507404,262	623077,521	-22,535516	-43,80314523
Rota 7 - Boca do Mato 2,352m	7507401,367	623067,084	-22,5355429	-43,80324648
Rota 7 - Boca do Mato 2,352m	7507402,343	623060,04	-22,5355346	-43,80331505
Rota 7 - Boca do Mato 2,352m	7507404,065	623054,576	-22,53551944	-43,8033683
Rota 7 - Boca do Mato 2,352m	7507394,054	623030,02	-22,53561164	-43,80360627
Rota 7 - Boca do Mato 2,352m	7507390,331	623023,4	-22,53564574	-43,80367035
Rota 7 - Boca do Mato 2,352m	7507392,406	623013,716	-22,5356277	-43,80376467
Rota 7 - Boca do Mato 2,352m	7507397,621	623005,228	-22,53558121	-43,8038476
Rota 7 - Boca do Mato 2,352m	7507397,877	623004,163	-22,53557898	-43,80385798
Rota 7 - Boca do Mato 2,352m	7507400,021	622998,96	-22,53555999	-43,80390873
Rota 7 - Boca do Mato 2,352m	7507400,294	622997,918	-22,5355576	-43,80391888
Rota 7 - Boca do Mato 2,352m	7507399,321	622990,051	-22,53556695	-43,8039953
Rota 7 - Boca do Mato 2,352m	7507397,527	622985,574	-22,53558349	-43,80403869
Rota 7 - Boca do Mato 2,352m	7507397,272	622984,784	-22,53558584	-43,80404635
Rota 7 - Boca do Mato 2,352m	7507395,528	622975,07	-22,53560229	-43,80414066
Rota 7 - Boca do Mato 2,352m	7507395,016	622973,754	-22,53560701	-43,80415342
Rota 7 - Boca do Mato 2,352m	7507393,77	622966,925	-22,53561877	-43,80421971
Rota 7 - Boca do Mato 2,352m	7507393,568	622960,629	-22,53562105	-43,80428091
Rota 7 - Boca do Mato 2,352m	7507393,575	622959,842	-22,53562103	-43,80428857
Rota 7 - Boca do Mato 2,352m	7507394,442	622951,711	-22,5356138	-43,80436769
Rota 7 - Boca do Mato 2,352m	7507394,452	622950,661	-22,53561378	-43,8043779
Rota 7 - Boca do Mato 2,352m	7507396,359	622942,79	-22,53559712	-43,80445457
Rota 7 - Boca do Mato 2,352m	7507396,361	622942,004	-22,53559716	-43,80446222
Rota 7 - Boca do Mato 2,352m	7507396,379	622934,413	-22,53559754	-43,80453603
Rota 7 - Boca do Mato 2,352m	7507395,862	622932,84	-22,53560233	-43,80455127
Rota 7 - Boca do Mato 2,352m	7507396,168	622922,13	-22,53560034	-43,80465544

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Boca do Mato 2,352m	7507390,982	622917,394	-22,53564752	-43,80470108
Rota 7 - Boca do Mato 2,352m	7507387,117	622909,81	-22,53568297	-43,80477451
Rota 7 - Boca do Mato 2,352m	7507386,083	622908,761	-22,5356924	-43,80478463
Rota 7 - Boca do Mato 2,352m	7507373,194	622897,982	-22,53580958	-43,80488843
Rota 7 - Boca do Mato 2,352m	7507354,927	622888,195	-22,53597528	-43,80498217
Rota 7 - Boca do Mato 2,352m	7507343,589	622881,458	-22,53607817	-43,8050468
Rota 7 - Boca do Mato 2,352m	7507320,73	622867,358	-22,53628565	-43,80518211
Rota 7 - Boca do Mato 2,352m	7507308,037	622857,675	-22,53640099	-43,80527527
Rota 7 - Boca do Mato 2,352m	7507278,787	622839,725	-22,53666648	-43,80544752
Rota 7 - Boca do Mato 2,352m	7507260,58	622826,259	-22,5368319	-43,80557703
Rota 7 - Boca do Mato 2,352m	7507239,062	622792,719	-22,53702866	-43,80590147
Rota 7 - Boca do Mato 2,352m	7507223,862	622771,142	-22,5371675	-43,80611008
Rota 7 - Boca do Mato 2,352m	7507224,878	622754,874	-22,5371595	-43,80626833
Rota 7 - Boca do Mato 2,352m	7507228,047	622731,679	-22,53713255	-43,80649409
Rota 7 - Boca do Mato 2,352m	7507230,982	622709,583	-22,53710764	-43,80670916
Rota 7 - Boca do Mato 2,352m	7507231,945	622698,658	-22,53709973	-43,80681546
Rota 7 - Boca do Mato 2,352m	7507244,814	622663,339	-22,53698605	-43,80715986
Rota 7 - Boca do Mato 2,352m	7507249,026	622624,792	-22,53695078	-43,80753498
Rota 7 - Boca do Mato 2,352m	7507239,44	622610,077	-22,53703842	-43,8076773
Rota 7 - Boca do Mato 2,352m	7507235,291	622599,427	-22,53707666	-43,80778053
Rota 7 - Boca do Mato 2,352m	7507235,313	622585,668	-22,53707746	-43,80791431
Rota 7 - Boca do Mato 2,352m	7507242,641	622571,784	-22,53701227	-43,80804987
Rota 7 - Boca do Mato 2,352m	7507243,203	622571,239	-22,53700723	-43,80805521
Rota 7 - Boca do Mato 2,352m	7507254,131	622559,588	-22,53690937	-43,80816934
Rota 7 - Boca do Mato 2,352m	7507265,804	622545,631	-22,53680494	-43,80830595
Rota 7 - Boca do Mato 2,352m	7507286,219	622504,357	-22,53662353	-43,80870884
Rota 7 - Boca do Mato 2,352m	7507303,798	622486,077	-22,53646607	-43,80888793
Rota 7 - Boca do Mato 2,352m	7507323,543	622470,214	-22,53628887	-43,80904369
Rota 7 - Boca do Mato 2,352m	7507342,299	622454,741	-22,53612058	-43,80919559
Rota 7 - Boca do Mato 2,352m	7507383,784	622424,098	-22,53574809	-43,80949674
Rota 7 - Boca do Mato 2,352m	7507427,673	622405,643	-22,53535301	-43,80967956
Rota 7 - Boca do Mato 2,352m	7507439,345	622397,652	-22,53524817	-43,80975817
Rota 7 - Boca do Mato 2,352m	7507453,396	622392,064	-22,53512166	-43,80981359
Rota 7 - Boca do Mato 2,352m	7507480,403	622382,606	-22,53487842	-43,80990763
Rota 7 - Boca do Mato 2,352m	7507481,132	622381,176	-22,53487193	-43,80992159
Rota 7 - Boca do Mato 2,352m	7507499,462	622375,479	-22,53470678	-43,8099784
Rota 7 - Boca do Mato 2,352m	7507543,377	622351,677	-22,53431185	-43,81021322
Rota 7 - Boca do Mato 2,352m	7507548,043	622349,054	-22,5342699	-43,81023908
Rota 7 - Boca do Mato 2,352m	7507572,536	622335,21	-22,53404967	-43,81037558
Rota 7 - Boca do Mato 837m	7507502,28	623567,004	-22,53459524	-43,79839376
Rota 7 - Boca do Mato 837m	7507490,184	623572,334	-22,5347041	-43,798341
Rota 7 - Boca do Mato 837m	7507479,092	623581,833	-22,53480359	-43,79824778
Rota 7 - Boca do Mato 837m	7507468,618	623579,7	-22,53489835	-43,7982677

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Boca do Mato 837m	7507449,653	623576,859	-22,53506984	-43,79829384
Rota 7 - Boca do Mato 837m	7507437,356	623583,057	-22,53518047	-43,79823262
Rota 7 - Boca do Mato 837m	7507427,059	623587,252	-22,53527316	-43,79819102
Rota 7 - Boca do Mato 837m	7507414,791	623587,013	-22,53538399	-43,79819238
Rota 7 - Boca do Mato 837m	7507398,394	623578,006	-22,53553274	-43,79827868
Rota 7 - Boca do Mato 837m	7507383,301	623570,356	-22,53566961	-43,79835188
Rota 7 - Boca do Mato 837m	7507369,568	623567,716	-22,53579383	-43,79837648
Rota 7 - Boca do Mato 837m	7507358,322	623560,191	-22,53589596	-43,79844876
Rota 7 - Boca do Mato 837m	7507345,687	623550,738	-22,53601076	-43,79853968
Rota 7 - Boca do Mato 837m	7507326,358	623544,679	-22,53618579	-43,79859708
Rota 7 - Boca do Mato 837m	7507289,847	623539,031	-22,53651596	-43,79864914
Rota 7 - Boca do Mato 837m	7507268,11	623538,402	-22,53671234	-43,79865356
Rota 7 - Boca do Mato 837m	7507258,059	623532,506	-22,53680354	-43,7987101
Rota 7 - Boca do Mato 837m	7507249,466	623516,931	-22,53688229	-43,79886086
Rota 7 - Boca do Mato 837m	7507237,656	623498,449	-22,5369903	-43,79903964
Rota 7 - Boca do Mato 837m	7507223,092	623485,164	-22,5371228	-43,79916767
Rota 7 - Boca do Mato 837m	7507211,441	623470,416	-22,5372291	-43,79931015
Rota 7 - Boca do Mato 837m	7507180,466	623423,969	-22,53751223	-43,79975933
Rota 7 - Boca do Mato 837m	7507165,579	623414,101	-22,53764741	-43,79985411
Rota 7 - Boca do Mato 837m	7507136,729	623408,438	-22,5379084	-43,79990692
Rota 7 - Boca do Mato 837m	7507104,967	623404,174	-22,53819558	-43,7999459
Rota 7 - Boca do Mato 837m	7507085,836	623383,718	-22,53836985	-43,80014329
Rota 7 - Boca do Mato 837m	7507071,09	623368,205	-22,53850416	-43,80029298
Rota 7 - Boca do Mato 837m	7507044,915	623358,461	-22,53874128	-43,80038567
Rota 7 - Boca do Mato 837m	7507037,791	623358,438	-22,53880563	-43,80038534
Rota 7 - Boca do Mato 837m	7507020,806	623347,833	-22,53895981	-43,80048713
Rota 7 - Boca do Mato 837m	7506998,385	623311,903	-22,53916491	-43,80083473
Rota 7 - Boca do Mato 837m	7506986,572	623305,612	-22,53927206	-43,80089498
Rota 7 - Boca do Mato 837m	7506942,886	623305,27	-22,53966666	-43,80089489
Rota 7 - Boca do Mato 837m	7506934,019	623300,58	-22,53974708	-43,8009398
Rota 7 - Boca do Mato 837m	7506927,747	623293,245	-22,53980426	-43,80101063
Rota 7 - Boca do Mato 837m	7506920,81	623287,564	-22,53986733	-43,80106533
Rota 7 - Boca do Mato 837m	7506904,047	623287,039	-22,54001878	-43,80106912
Rota 7 - Boca do Mato 837m	7506888,929	623292,798	-22,5401549	-43,80101195
Rota 7 - Boca do Mato 837m	7506874,107	623300,091	-22,54028825	-43,80093988
Rota 7 - Boca do Mato 837m	7506854,726	623309,506	-22,54046261	-43,80084683
Rota 7 - Boca do Mato 837m	7506830,63	623315,483	-22,54067981	-43,80078683
Rota 7 - Boca do Mato 837m	7506812,855	623313,472	-22,5408405	-43,800805
Rota 7 - Boca do Mato 837m	7506800,489	623309,959	-22,54095244	-43,80083819
Rota 7 - Boca do Mato 34,4m	7507621,35	623289,896	-22,53353989	-43,80109728
Rota 7 - Boca do Mato 34,4m	7507650,233	623308,605	-22,53327767	-43,80091764
Rota 7 - ColÃ©gio 27,6m	7507550,121	622347,812	-22,53425122	-43,81025133
Rota 7 - ColÃ©gio 27,6m	7507555,224	622359,025	-22,53420433	-43,8101427

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - ColÃ©gio 27,6m	7507557,769	622374,058	-22,53418025	-43,80999673
Rota 7 - Guararema 1,578m	7507572,244	622335,509	-22,53405229	-43,81037265
Rota 7 - Guararema 1,578m	7507591,793	622320,868	-22,53387677	-43,81051651
Rota 7 - Guararema 1,578m	7507602,462	622307,988	-22,53378133	-43,81064256
Rota 7 - Guararema 1,578m	7507619,873	622286,955	-22,53362559	-43,81084841
Rota 7 - Guararema 1,578m	7507636,74	622264,906	-22,53347483	-43,81106409
Rota 7 - Guararema 1,578m	7507663,116	622233,65	-22,53323885	-43,81137002
Rota 7 - Guararema 1,578m	7507685,94	622215,168	-22,53303403	-43,81155147
Rota 7 - Guararema 1,578m	7507706,535	622206,899	-22,53284861	-43,81163347
Rota 7 - Guararema 1,578m	7507723,999	622193,417	-22,53269184	-43,81176589
Rota 7 - Guararema 1,578m	7507737,811	622175,766	-22,53256836	-43,81193858
Rota 7 - Guararema 1,578m	7507790,052	622128,176	-22,53209993	-43,81240531
Rota 7 - Guararema 1,578m	7507808,039	622108,599	-22,53193887	-43,81259704
Rota 7 - Guararema 1,578m	7507827,4	622086,534	-22,53176559	-43,81281306
Rota 7 - Guararema 1,578m	7507827,4	622086,534	-22,53176559	-43,81281306
Rota 7 - Guararema 1,578m	7507834,842	622080,09	-22,53169884	-43,81287628
Rota 7 - Guararema 1,578m	7507840,542	622062,178	-22,53164864	-43,81305088
Rota 7 - Guararema 1,578m	7507848,36	622056,52	-22,53157843	-43,8131065
Rota 7 - Guararema 1,578m	7507884,979	622064,495	-22,53124712	-43,81303178
Rota 7 - Guararema 1,578m	7507920,776	622083,082	-22,53092247	-43,81285383
Rota 7 - Guararema 1,578m	7507960,991	622117,307	-22,53055679	-43,81252419
Rota 7 - Guararema 1,578m	7507994,931	622147,754	-22,53024805	-43,81223079
Rota 7 - Guararema 1,578m	7508089,494	622238,137	-22,52938747	-43,81135935
Rota 7 - Guararema 1,578m	7508174,171	622313,585	-22,52861725	-43,81063237
Rota 7 - Guararema 1,578m	7508220,736	622369,117	-22,52819268	-43,81009607
Rota 7 - Guararema 1,578m	7508253,196	622422,949	-22,52789563	-43,80957522
Rota 7 - Guararema 1,578m	7508285,196	622473,496	-22,52760297	-43,80908626
Rota 7 - Guararema 1,578m	7508308,06	622512,052	-22,52739369	-43,80871318
Rota 7 - Guararema 1,578m	7508335,878	622549,541	-22,52713974	-43,80835086
Rota 7 - Guararema 1,578m	7508395,605	622629,109	-22,52659455	-43,80758191
Rota 7 - Guararema 1,578m	7508440,409	622682,904	-22,52618601	-43,80706239
Rota 7 - Guararema 1,578m	7508561,487	622824,595	-22,52508221	-43,80569425
Rota 7 - Guararema 1,578m	7508610,077	622876,301	-22,52463962	-43,80519534
Rota 7 - Guararema 1,578m	7508637,864	622912,719	-22,52438602	-43,80484344
Rota 7 - Guararema 120m	7507840,777	622062,526	-22,53164649	-43,81304751
Rota 7 - Guararema 120m	7507828,566	622065,261	-22,53175658	-43,81301997
Rota 7 - Guararema 120m	7507814,506	622067,881	-22,53188338	-43,81299342
Rota 7 - Guararema 120m	7507792,188	622074,338	-22,5320845	-43,81292892
Rota 7 - Guararema 120m	7507773,794	622079,202	-22,53225029	-43,81288021
Rota 7 - Guararema 120m	7507752,907	622087,839	-22,53243832	-43,81279462
Rota 7 - Guararema 120m	7507736,995	622093,756	-22,53258161	-43,81273587
Rota 7 - Guararema 120m	7507726,478	622098,159	-22,53267628	-43,81269224
Rota 7 - Guararema 582m	7507847,121	622057,598	-22,53158954	-43,81309592



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Guararema 582m	7507828,069	622056,959	-22,53176167	-43,81310066
Rota 7 - Guararema 582m	7507799,556	622060,232	-22,53201897	-43,81306663
Rota 7 - Guararema 582m	7507775,777	622064,628	-22,53223342	-43,81302206
Rota 7 - Guararema 582m	7507754,693	622066,905	-22,53242369	-43,81299829
Rota 7 - Guararema 582m	7507714,111	622077,741	-22,53278945	-43,8128898
Rota 7 - Guararema 582m	7507683,674	622080,706	-22,53306415	-43,81285862
Rota 7 - Guararema 582m	7507667,44	622081,164	-22,53321073	-43,81285292
Rota 7 - Guararema 582m	7507611,795	622079,101	-22,53371348	-43,81286869
Rota 7 - Guararema 582m	7507583,505	622071,882	-22,53396951	-43,81293669
Rota 7 - Guararema 582m	7507549,446	622044,474	-22,53427909	-43,81320054
Rota 7 - Guararema 582m	7507524,106	622026,966	-22,53450922	-43,81336881
Rota 7 - Guararema 582m	7507508,12	622018,102	-22,53465425	-43,81345376
Rota 7 - Guararema 582m	7507470,709	621995,194	-22,53499379	-43,8136736
Rota 7 - Guararema 582m	7507448,742	621983,194	-22,53519305	-43,81378858
Rota 7 - Guararema 582m	7507403,567	621967,992	-22,53560217	-43,8139329
Rota 7 - Guararema 582m	7507356,714	621918,528	-22,53602888	-43,81441021
Rota 7 - Guararema 582m	7507370,034	621882,932	-22,53591112	-43,81475734
Rota 7 - Chalet 153m	7508565,665	622829,42	-22,52504413	-43,80564767
Rota 7 - Chalet 153m	7508543,344	622831,075	-22,52524561	-43,80562985
Rota 7 - Chalet 153m	7508519,18	622830,651	-22,52546389	-43,80563209
Rota 7 - Chalet 153m	7508494,131	622832,225	-22,52569003	-43,80561484
Rota 7 - Chalet 153m	7508471,592	622835,7	-22,52589335	-43,80557931
Rota 7 - Chalet 153m	7508454,697	622839,899	-22,52604564	-43,80553718
Rota 7 - Chalet 153m	7508438,287	622852,469	-22,52619295	-43,80541369
Rota 7 - Chalet 153m	7508421,231	622862,969	-22,52634624	-43,80531028
Rota 7 - Torre 58,2m	7511592,134	620358,045	-22,49788522	-43,8299047
Rota 7 - Torre 58,2m	7511578,379	620347,192	-22,49801023	-43,83000915
Rota 7 - Torre 58,2m	7511549,355	620318,753	-22,49827439	-43,83028338
Rota 7 - Areal 169m	7511726,679	620267,477	-22,49667639	-43,83079526
Rota 7 - Areal 169m	7511723,117	620260,037	-22,49670909	-43,83086731
Rota 7 - Areal 169m	7511716,639	620249,242	-22,49676836	-43,83097174
Rota 7 - Areal 169m	7511701,072	620241,86	-22,49690949	-43,83104231
Rota 7 - Areal 169m	7511661,993	620223,578	-22,49726374	-43,83121705
Rota 7 - Areal 169m	7511584,175	620182,505	-22,49796949	-43,83161039
Rota 7 - Areal 140m	7511588,461	620103,513	-22,49793635	-43,83237854
Rota 7 - Areal 140m	7511572,759	620097,116	-22,49807863	-43,83243953
Rota 7 - Areal 140m	7511549,531	620095,333	-22,49828855	-43,8324551
Rota 7 - Areal 140m	7511535,158	620102,099	-22,49841789	-43,83238824
Rota 7 - Areal 140m	7511512,762	620100,807	-22,49862026	-43,8323991
Rota 7 - Areal 140m	7511493,367	620095,699	-22,4987958	-43,83244729
Rota 7 - Areal 140m	7511481,462	620086,347	-22,49890399	-43,83253728
Rota 7 - Areal 140m	7511457,304	620075,204	-22,49912297	-43,83264377
Rota 7 - Areal 154m	7511601,603	620078,209	-22,49781943	-43,83262549

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Areal 154m	7511581,832	620068,587	-22,49799868	-43,83271752
Rota 7 - Areal 154m	7511560,019	620062,518	-22,49819613	-43,83277486
Rota 7 - Areal 154m	7511525,219	620052,435	-22,49851116	-43,83287023
Rota 7 - Areal 154m	7511501,253	620045,978	-22,49872808	-43,83293118
Rota 7 - Areal 154m	7511456,965	620026,048	-22,49912949	-43,83312155
Rota 7 - Areal 1,319m	7511857,804	620120,13	-22,49550244	-43,83223743
Rota 7 - Areal 1,319m	7511840,638	620086,014	-22,49565989	-43,83256774
Rota 7 - Areal 1,319m	7511809,574	620044,965	-22,49594335	-43,83296439
Rota 7 - Areal 1,319m	7511785,521	620014,776	-22,49616272	-43,83325601
Rota 7 - Areal 1,319m	7511770,057	619982,705	-22,49630466	-43,83356657
Rota 7 - Areal 1,319m	7511754,802	619952,065	-22,49644446	-43,83386324
Rota 7 - Areal 1,319m	7511741,664	619933,307	-22,49656458	-43,83404457
Rota 7 - Areal 1,319m	7511723,945	619917,104	-22,49672576	-43,83420073
Rota 7 - Areal 1,319m	7511715,011	619905,321	-22,49680729	-43,83431459
Rota 7 - Areal 1,319m	7511715,011	619905,321	-22,49680729	-43,83431459
Rota 7 - Areal 1,319m	7511711,161	619884,779	-22,4968435	-43,83451397
Rota 7 - Areal 1,319m	7511704,648	619866,678	-22,4969036	-43,83468942
Rota 7 - Areal 1,319m	7511687,295	619830,799	-22,49706286	-43,83503685
Rota 7 - Areal 1,319m	7511678,318	619817,886	-22,49714485	-43,8351617
Rota 7 - Areal 1,319m	7511658,169	619806,211	-22,49732766	-43,83527365
Rota 7 - Areal 1,319m	7511624,298	619796,667	-22,49763425	-43,83536387
Rota 7 - Areal 1,319m	7511570,933	619794,781	-22,49811639	-43,83537816
Rota 7 - Areal 1,319m	7511542,447	619791,734	-22,49837388	-43,83540562
Rota 7 - Areal 1,319m	7511535,247	619777,299	-22,49843993	-43,8355454
Rota 7 - Areal 1,319m	7511537,225	619759,555	-22,49842331	-43,83571802
Rota 7 - Areal 1,319m	7511532,817	619736,924	-22,49846471	-43,83593766
Rota 7 - Areal 1,319m	7511514,659	619702,807	-22,49863112	-43,83626792
Rota 7 - Areal 1,319m	7511500,841	619674,137	-22,49875794	-43,83654556
Rota 7 - Areal 1,319m	7511498,936	619658,955	-22,49877621	-43,83669299
Rota 7 - Areal 1,319m	7511492,477	619643,134	-22,49883566	-43,83684629
Rota 7 - Areal 1,319m	7511481,5	619639,89	-22,49893503	-43,83687699
Rota 7 - Areal 1,319m	7511450,191	619620,338	-22,49921919	-43,83706468
Rota 7 - Areal 1,319m	7511436,183	619611,106	-22,49934636	-43,83715336
Rota 7 - Areal 1,319m	7511415,433	619600,505	-22,49953452	-43,83725483
Rota 7 - Areal 1,319m	7511401,767	619599,991	-22,49965799	-43,8372588
Rota 7 - Areal 1,319m	7511382,401	619596,983	-22,49983312	-43,83728658
Rota 7 - Areal 1,319m	7511358,438	619592,855	-22,50004985	-43,8373249
Rota 7 - Areal 1,319m	7511347,57	619591,214	-22,50014812	-43,83734002
Rota 7 - Areal 1,319m	7511340,448	619591,278	-22,50021244	-43,83733887
Rota 7 - Areal 1,319m	7511334,902	619596,509	-22,50026217	-43,8372876
Rota 7 - Areal 1,319m	7511331,273	619606,06	-22,50029427	-43,83719448
Rota 7 - Areal 1,319m	7511328,477	619619,181	-22,50031861	-43,83706673
Rota 7 - Areal 1,319m	7511326,165	619632,932	-22,50033853	-43,83693289

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Areal 1,319m	7511324,417	619647,018	-22,50035332	-43,83679584
Rota 7 - Areal 1,319m	7511329,631	619662,165	-22,50030517	-43,836649
Rota 7 - Areal 1,319m	7511341,602	619673,037	-22,50019628	-43,83654423
Rota 7 - Areal 1,319m	7511360,058	619687,212	-22,5000286	-43,83640783
Rota 7 - Areal 1,319m	7511374,27	619694,616	-22,4998997	-43,83633693
Rota 7 - Areal 1,319m	7511390,281	619696,75	-22,49975494	-43,8363174
Rota 7 - Areal 1,319m	7511409,096	619694,085	-22,49958519	-43,83634472
Rota 7 - Areal 1,319m	7511429,621	619695,602	-22,4993997	-43,83633153
Rota 7 - Areal 1,319m	7511446,707	619705,169	-22,4992447	-43,83623983
Rota 7 - Areal 1,319m	7511462,353	619714,289	-22,49910275	-43,83615236
Rota 7 - Areal 1,319m	7511471,935	619729,444	-22,49901514	-43,83600577
Rota 7 - Areal 1,319m	7511479,97	619745,118	-22,49894146	-43,83585403
Rota 7 - Areal 1,319m	7511478,516	619759,559	-22,49895359	-43,83571355
Rota 7 - Areal 1,319m	7511472,35	619777,89	-22,49900799	-43,83553489
Rota 7 - Areal 1,319m	7511468,188	619789,69	-22,49904475	-43,83541988
Rota 7 - Areal 1,319m	7511464,661	619809,762	-22,49907519	-43,83522451
Rota 7 - Areal 1,319m	7511476,803	619832,752	-22,49896391	-43,83500195
Rota 7 - Areal 1,319m	7511496,288	619851,395	-22,49878661	-43,83482221
Rota 7 - Areal 1,319m	7511517,472	619854,152	-22,49859508	-43,83479701
Rota 7 - Areal 1,319m	7511545,531	619852,192	-22,49834179	-43,83481819
Rota 7 - Areal 1,319m	7511562,566	619846,256	-22,49818834	-43,83487718
Rota 7 - Areal 1,319m	7511584,496	619848,726	-22,49799009	-43,83485482
Rota 7 - Areal 1,319m	7511604,498	619870,349	-22,49780791	-43,83464616
Rota 7 - Areal 283m	7511604,013	619870,069	-22,49781231	-43,83464884
Rota 7 - Areal 283m	7511607,692	619878,61	-22,49777848	-43,83456611
Rota 7 - Areal 283m	7511607,266	619886,841	-22,49778175	-43,83448607
Rota 7 - Areal 283m	7511609,51	619906,537	-22,49776009	-43,83429478
Rota 7 - Areal 283m	7511620,084	619925,867	-22,49766323	-43,8341077
Rota 7 - Areal 283m	7511620,883	619926,655	-22,49765596	-43,83410009
Rota 7 - Areal 283m	7511638,043	619964,899	-22,49749828	-43,83372966
Rota 7 - Areal 283m	7511651,838	619973,276	-22,49737309	-43,83364927
Rota 7 - Areal 283m	7511668,918	619970,504	-22,49721902	-43,8336775
Rota 7 - Areal 283m	7511677,445	619958,264	-22,49714286	-43,83379713
Rota 7 - Areal 283m	7511673,84	619946,06	-22,49717628	-43,83391548
Rota 7 - Areal 283m	7511673,807	619944,015	-22,49717672	-43,83393536
Rota 7 - Areal 283m	7511667,672	619923,407	-22,49723358	-43,8341352
Rota 7 - Areal 283m	7511651,734	619883,19	-22,49738036	-43,83452492
Rota 7 - Areal 283m	7511641,24	619876,196	-22,49747564	-43,8345921
Rota 7 - Areal 283m	7511625,2	619876,451	-22,4976205	-43,83458842
Rota 7 - Areal 283m	7511611,473	619876,669	-22,49774446	-43,83458526
Rota 7 - Areal 283m	7511604,013	619870,069	-22,49781231	-43,83464884
Rota 7 - Areal 214m	7512168,112	620122,111	-22,49269956	-43,8322417
Rota 7 - Areal 214m	7512195,023	620129,68	-22,49245595	-43,83217018

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Areal 214m	7512225,314	620130,216	-22,49218233	-43,83216726
Rota 7 - Areal 214m	7512260,859	620141,051	-22,49186052	-43,83206463
Rota 7 - Areal 214m	7512293,871	620161,638	-22,4915609	-43,83186704
Rota 7 - Areal 214m	7512327,528	620190,984	-22,49125484	-43,83158436
Rota 7 - Areal 214m	7512335,373	620202,993	-22,49118313	-43,83146822
Rota 7 - Areal 214m	7512342,063	620222,227	-22,49112135	-43,83128178
Rota 7 - Areal 353m	7512344,954	620017,896	-22,49110963	-43,83326805
Rota 7 - Areal 353m	7512342,796	620001,874	-22,49113025	-43,83342361
Rota 7 - Areal 353m	7512335,683	619998,023	-22,49119477	-43,83346051
Rota 7 - Areal 353m	7512322,561	619995,386	-22,49131347	-43,83348515
Rota 7 - Areal 353m	7512294,651	619995,911	-22,49156552	-43,83347793
Rota 7 - Areal 353m	7512280,497	620002,603	-22,49169289	-43,83341182
Rota 7 - Areal 353m	7512266,473	620008,23	-22,49181916	-43,83335606
Rota 7 - Areal 353m	7512244,914	620014,06	-22,49201347	-43,83329776
Rota 7 - Areal 353m	7512219,144	620022,265	-22,49224566	-43,83321605
Rota 7 - Areal 353m	7512159,198	620034,157	-22,49278626	-43,83309592
Rota 7 - Areal 353m	7512135,237	620039,423	-22,49300231	-43,83304293
Rota 7 - Areal 353m	7512118,315	620031,312	-22,49315572	-43,83312049
Rota 7 - Areal 353m	7512098,37	620024,674	-22,49333633	-43,8331835
Rota 7 - Areal 353m	7512068,917	620020,095	-22,49360268	-43,83322578
Rota 7 - Areal 353m	7512066,989	620020,103	-22,4936201	-43,83322555
Rota 7 - Areal 353m	7512017,478	620026,72	-22,49406682	-43,83315748
Rota 7 - Areal 303m	7512685,215	620048,065	-22,48803422	-43,83300059
Rota 7 - Areal 303m	7512685,049	620059,589	-22,48803491	-43,83288856
Rota 7 - Areal 303m	7512678,531	620071,416	-22,48809295	-43,83277312
Rota 7 - Areal 303m	7512657,071	620080,78	-22,48828612	-43,83268048
Rota 7 - Areal 303m	7512627,639	620093,351	-22,48855107	-43,83255607
Rota 7 - Areal 303m	7512601,327	620108,922	-22,48878763	-43,83240272
Rota 7 - Areal 303m	7512592,038	620124,226	-22,48887045	-43,83225327
Rota 7 - Areal 303m	7512571,241	620144,508	-22,48905686	-43,83205456
Rota 7 - Areal 303m	7512559,549	620158,808	-22,48916145	-43,83191469
Rota 7 - Areal 303m	7512531,736	620175,427	-22,4894115	-43,83175104
Rota 7 - Areal 303m	7512516,002	620175,861	-22,48955358	-43,83174564
Rota 7 - Areal 303m	7512498,835	620177,198	-22,48970854	-43,83173134
Rota 7 - Areal 303m	7512477,694	620178,655	-22,48989938	-43,83171557
Rota 7 - Areal 303m	7512458,217	620190,85	-22,49007444	-43,83159556
Rota 7 - Areal 303m	7512447,682	620204,683	-22,49016862	-43,83146032
Rota 7 - Areal 230m	7512819,876	620022,721	-22,48681972	-43,83325711
Rota 7 - Areal 230m	7512823,213	620032,61	-22,48678889	-43,83316125
Rota 7 - Areal 230m	7512824,749	620044,633	-22,48677418	-43,83304451
Rota 7 - Areal 230m	7512822,169	620058,867	-22,48679648	-43,83290597
Rota 7 - Areal 230m	7512815,617	620074,544	-22,48685455	-43,8327531
Rota 7 - Areal 230m	7512811,789	620088,92	-22,48688812	-43,83261308

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Areal 230m	7512807,838	620106,176	-22,48692258	-43,83244506
Rota 7 - Areal 230m	7512800,208	620128,557	-22,48698992	-43,83222696
Rota 7 - Areal 230m	7512793,309	620144,449	-22,48705111	-43,83207197
Rota 7 - Areal 230m	7512786,075	620170,98	-22,48711458	-43,83181355
Rota 7 - Areal 230m	7512783,373	620185,028	-22,487138	-43,8316768
Rota 7 - Areal 230m	7512788,998	620213,015	-22,48708522	-43,83140522
Rota 7 - Areal 230m	7512796,787	620232,137	-22,48701352	-43,83121995
Rota 7 - Areal 230m	7512797,682	620243,708	-22,48700463	-43,83110755
Rota 7 - Areal 230m	7512797,682	620243,708	-22,48700463	-43,83110755
Rota 7 - Final da Rota Vazador 2,148n	7513143,291	619958,474	-22,48390312	-43,83390603
Rota 7 - Final da Rota Vazador 2,148n	7513176,165	619937,103	-22,4836077	-43,83411623
Rota 7 - Final da Rota Vazador 2,148n	7513223,707	619905,647	-22,4831805	-43,83442555
Rota 7 - Final da Rota Vazador 2,148n	7513232,607	619885,233	-22,48310155	-43,83462463
Rota 7 - Final da Rota Vazador 2,148n	7513229,557	619855,718	-22,48313117	-43,83491127
Rota 7 - Final da Rota Vazador 2,148n	7513216,652	619833,143	-22,48324931	-43,8351297
Rota 7 - Final da Rota Vazador 2,148n	7513208,992	619795,606	-22,48332113	-43,83549395
Rota 7 - Final da Rota Vazador 2,148n	7513223,101	619783,367	-22,48319456	-43,83561398
Rota 7 - Final da Rota Vazador 2,148n	7513224,676	619781,767	-22,48318045	-43,83562964
Rota 7 - Final da Rota Vazador 2,148n	7513250,811	619759,314	-22,48294597	-43,83584984
Rota 7 - Final da Rota Vazador 2,148n	7513284,747	619724,262	-22,48264191	-43,83619308
Rota 7 - Final da Rota Vazador 2,148n	7513287,193	619696,873	-22,48262175	-43,83645946
Rota 7 - Final da Rota Vazador 2,148n	7513275,057	619672,281	-22,48273308	-43,83669757
Rota 7 - Final da Rota Vazador 2,148n	7513246,865	619654,982	-22,48298893	-43,83686357
Rota 7 - Final da Rota Vazador 2,148n	7513234,795	619644,655	-22,48309867	-43,83696302
Rota 7 - Final da Rota Vazador 2,148n	7513235,93	619631,685	-22,48308933	-43,83708918
Rota 7 - Final da Rota Vazador 2,148n	7513249,122	619630,34	-22,48297027	-43,83710324
Rota 7 - Final da Rota Vazador 2,148n	7513266,249	619626,581	-22,48281584	-43,83714107
Rota 7 - Final da Rota Vazador 2,148n	7513272,815	619615,201	-22,48275733	-43,83725216
Rota 7 - Final da Rota Vazador 2,148n	7513271,355	619593,44	-22,48277204	-43,83746355
Rota 7 - Final da Rota Vazador 2,148n	7513254,238	619507,847	-22,48293264	-43,83829416
Rota 7 - Final da Rota Vazador 2,148n	7513208,642	619357,509	-22,483355	-43,83975189
Rota 7 - Final da Rota Vazador 2,148n	7513182,022	619307,322	-22,48359894	-43,84023768
Rota 7 - Final da Rota Vazador 2,148n	7513150,278	619287,474	-22,48388705	-43,8404282
Rota 7 - Final da Rota Vazador 2,148n	7513064,202	619208,302	-22,48467004	-43,84119122
Rota 7 - Final da Rota Vazador 2,148n	7513031,755	619170,25	-22,48496577	-43,84155862
Rota 7 - Final da Rota Vazador 2,148n	7513008,604	619126,676	-22,48517791	-43,84198039
Rota 7 - Final da Rota Vazador 2,148n	7512975,158	619094,309	-22,48548226	-43,84229246
Rota 7 - Final da Rota Vazador 2,148n	7512935,983	619061,627	-22,48583838	-43,84260717
Rota 7 - Final da Rota Vazador 2,148n	7512916,71	619026,454	-22,48601491	-43,84294759
Rota 7 - Final da Rota Vazador 2,148n	7512899,594	618970,776	-22,48617338	-43,84348747
Rota 7 - Final da Rota Vazador 2,148n	7512879,657	618959,834	-22,48635422	-43,84359232
Rota 7 - Final da Rota Vazador 2,148n	7512818,518	618939,308	-22,48690787	-43,84378723
Rota 7 - Final da Rota Vazador 2,148n	7512745,296	618937,892	-22,48756932	-43,84379551

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Final da Rota Vazador 2,148n	7512697,951	618926,147	-22,48799777	-43,84390611
Rota 7 - Final da Rota Vazador 2,148n	7512665,287	618914,495	-22,48829361	-43,84401691
Rota 7 - Final da Rota Vazador 2,148n	7512644,272	618884,41	-22,48848552	-43,84430775
Rota 7 - Final da Rota Vazador 2,148n	7512613,58	618833,766	-22,48876627	-43,84479769
Rota 7 - Final da Rota Vazador 2,148n	7512551,443	618720,771	-22,48933537	-43,84589131
Rota 7 - Final da Rota Vazador 2,148n	7512499,628	618641,816	-22,48980886	-43,84665485
Rota 7 - Final da Rota Vazador 2,148n	7512470,399	618603,067	-22,49007556	-43,84702929
Rota 7 - Final da Rota Vazador 2,148n	7512450,686	618577,808	-22,49025537	-43,84727332
Rota 7 - Final da Rota Vazador 2,148n	7512421,357	618564,112	-22,49052122	-43,84740425
Rota 7 - Final da Rota Vazador 2,148n	7512346,451	618552,454	-22,4911986	-43,84751197
Rota 7 - Final da Rota Vazador 2,148n	7512309,972	618549,187	-22,49152832	-43,84754099
Rota 7 - Final da Rota Vazador 2,148n	7512298,541	618533,419	-22,49163265	-43,84769339
Rota 7 - Final da Rota Vazador 2,148n	7512292,225	618499,465	-22,49169207	-43,84802295
Rota 7 - Final da Rota Vazador 2,148n	7512298,3	618480,089	-22,49163854	-43,84821174
Rota 7 - Final da Rota Vazador 2,148n	7512321,796	618454,695	-22,49142808	-43,84846032
Rota 7 - Final Matadouro 8,235m	7512321,296	618455,708	-22,49143253	-43,84845044
Rota 7 - Final Matadouro 8,235m	7512363,848	618420,712	-22,49105062	-43,84879377
Rota 7 - Final Matadouro 8,235m	7512442,857	618355,241	-22,49034154	-43,84943604
Rota 7 - Final Matadouro 8,235m	7512508,194	618318,662	-22,48975394	-43,84979645
Rota 7 - Final Matadouro 8,235m	7512573,383	618301,332	-22,48916635	-43,84996977
Rota 7 - Final Matadouro 8,235m	7512652,806	618303,141	-22,48844885	-43,84995811
Rota 7 - Final Matadouro 8,235m	7512755,689	618299,91	-22,48751982	-43,84999719
Rota 7 - Final Matadouro 8,235m	7512852,578	618319,311	-22,48664335	-43,84981585
Rota 7 - Final Matadouro 8,235m	7512926,588	618324	-22,48597456	-43,8497758
Rota 7 - Final Matadouro 8,235m	7513106,134	618266,715	-22,48435683	-43,85034598
Rota 7 - Final Matadouro 8,235m	7513333,063	618194,327	-22,48231218	-43,85106645
Rota 7 - Final Matadouro 8,235m	7513454,963	618129,346	-22,48121565	-43,8517071
Rota 7 - Final Matadouro 8,235m	7513583,172	618048,351	-22,48006324	-43,85250384
Rota 7 - Final Matadouro 8,235m	7513758,41	617932,89	-22,47848844	-43,85363905
Rota 7 - Final Matadouro 8,235m	7513870,789	617852,976	-22,47747893	-43,85442408
Rota 7 - Final Matadouro 8,235m	7513963,638	617780,292	-22,47664532	-43,85513738
Rota 7 - Final Matadouro 8,235m	7513973,455	617757,394	-22,47655823	-43,85536066
Rota 7 - Final Matadouro 8,235m	7513973,425	617756,409	-22,47655856	-43,85537023
Rota 7 - Final Matadouro 8,235m	7513973,828	617729,834	-22,47655675	-43,85562854
Rota 7 - Final Matadouro 8,235m	7513964,961	617683,808	-22,47664002	-43,85607519
Rota 7 - Final Matadouro 8,235m	7513940,3	617666,728	-22,47686394	-43,85623936
Rota 7 - Final Matadouro 8,235m	7513940,3	617666,728	-22,47686394	-43,85623936
Rota 7 - Final Matadouro 8,235m	7513919,014	617659,376	-22,4770567	-43,85630924
Rota 7 - Final Matadouro 8,235m	7513891,691	617659,391	-22,47730349	-43,85630707
Rota 7 - Final Matadouro 8,235m	7513868,792	617663,418	-22,47751004	-43,85626623
Rota 7 - Final Matadouro 8,235m	7513847,927	617676,614	-22,47769759	-43,85613643
Rota 7 - Final Matadouro 8,235m	7513834,863	617689,923	-22,47781467	-43,85600611
Rota 7 - Final Matadouro 8,235m	7513823,305	617712,86	-22,47791749	-43,85578233

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Final Matadouro 8,235m	7513817,366	617748,067	-22,4779687	-43,85543972
Rota 7 - Final Matadouro 8,235m	7513823,739	617777,389	-22,47790911	-43,85515521
Rota 7 - Final Matadouro 8,235m	7513840,07	617820,552	-22,47775863	-43,85473693
Rota 7 - Final Matadouro 8,235m	7513850,519	617849,115	-22,47766228	-43,8544601
Rota 7 - Final Matadouro 8,235m	7513857,935	617880,842	-22,47759311	-43,8541523
Rota 7 - Final Matadouro 8,235m	7513868,191	617923,465	-22,47749753	-43,85373881
Rota 7 - Final Matadouro 8,235m	7513876,581	617961,456	-22,47741912	-43,85337021
Rota 7 - Final Matadouro 8,235m	7513880,959	618006,994	-22,47737642	-43,85292795
Rota 7 - Final Matadouro 8,235m	7513885,608	618198,117	-22,47732121	-43,8510708
Rota 7 - Final Matadouro 8,235m	7513882,698	618251,44	-22,47734381	-43,85055235
Rota 7 - Final Matadouro 8,235m	7513866,715	618303,298	-22,47748457	-43,85004715
Rota 7 - Final Matadouro 8,235m	7513823,604	618403,756	-22,47786699	-43,84906759
Rota 7 - Final Matadouro 8,235m	7513813,113	618446,464	-22,47795878	-43,84865173
Rota 7 - Final Matadouro 8,235m	7513802,108	618476,349	-22,47805611	-43,84836046
Rota 7 - Final Matadouro 8,235m	7513778,789	618519,896	-22,4782637	-43,84793549
Rota 7 - Final Matadouro 8,235m	7513761,394	618572,939	-22,47841714	-43,84741867
Rota 7 - Final Matadouro 8,235m	7513750,701	618610,392	-22,47851112	-43,84705387
Rota 7 - Final Matadouro 8,235m	7513706,1	618730,322	-22,47890562	-43,84588494
Rota 7 - Final Matadouro 8,235m	7513692,708	618753,989	-22,47902493	-43,84565392
Rota 7 - Final Matadouro 8,235m	7513675,126	618775,468	-22,47918225	-43,84544385
Rota 7 - Final Matadouro 8,235m	7513647,014	618798,17	-22,47943458	-43,8452211
Rota 7 - Final Matadouro 8,235m	7513615,871	618829,194	-22,47971371	-43,84491724
Rota 7 - Final Matadouro 8,235m	7513586,112	618855,46	-22,47998067	-43,84465974
Rota 7 - Final Matadouro 8,235m	7513549,787	618899,424	-22,4803057	-43,84422972
Rota 7 - Final Matadouro 8,235m	7513538,056	618922,44	-22,48041005	-43,84400515
Rota 7 - Final Matadouro 8,235m	7513529,932	618950,57	-22,48048147	-43,84373114
Rota 7 - Final Matadouro 8,235m	7513522,704	618997,636	-22,48054347	-43,84327317
Rota 7 - Final Matadouro 8,235m	7513522,399	619031,38	-22,48054388	-43,84294518
Rota 7 - Final Matadouro 8,235m	7513522,588	619064,493	-22,48053986	-43,84262337
Rota 7 - Final Matadouro 8,235m	7513543,55	619145,157	-22,4803449	-43,84184097
Rota 7 - Final Matadouro 8,235m	7513554,539	619209,193	-22,48024117	-43,84121942
Rota 7 - Final Matadouro 8,235m	7513571,353	619272,522	-22,48008487	-43,84060519
Rota 7 - Final Matadouro 8,235m	7513587,028	619327,419	-22,47993946	-43,84007283
Rota 7 - Final Matadouro 8,235m	7513595,064	619385,594	-22,47986281	-43,83950803
Rota 7 - Final Matadouro 8,235m	7513590,369	619429,279	-22,47990216	-43,8390831
Rota 7 - Final Matadouro 8,235m	7513596,426	619484,727	-22,47984357	-43,83854465
Rota 7 - Final Matadouro 8,235m	7513600,774	619541,354	-22,47980033	-43,83799462
Rota 7 - Final Matadouro 8,235m	7513604,403	619580,464	-22,47976481	-43,83761479
Rota 7 - Final Matadouro 8,235m	7513621,451	619643,768	-22,47960639	-43,83700082
Rota 7 - Final Matadouro 8,235m	7513653,303	619695,31	-22,47931509	-43,83650229
Rota 7 - Final Matadouro 8,235m	7513693,288	619753,716	-22,47894984	-43,83593766
Rota 7 - Final Matadouro 8,235m	7513714,696	619774,854	-22,478755	-43,83573384
Rota 7 - Final Matadouro 8,235m	7513759,754	619801,652	-22,47834615	-43,8354768

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Final Matadouro 8,235m	7513783,981	619818,509	-22,47812613	-43,8353148
Rota 7 - Final Matadouro 8,235m	7513813,404	619845,199	-22,47785851	-43,83505762
Rota 7 - Final Matadouro 8,235m	7513851,119	619878,061	-22,47751555	-43,8347411
Rota 7 - Final Matadouro 8,235m	7513884,435	619919,074	-22,47721176	-43,83434502
Rota 7 - Final Matadouro 8,235m	7513916,047	619972,231	-22,4769225	-43,83383078
Rota 7 - Final Matadouro 8,235m	7513944,62	620009,215	-22,47666182	-43,83347351
Rota 7 - Final Matadouro 8,235m	7513989,133	620054,14	-22,47625662	-43,83304026
Rota 7 - Final Matadouro 8,235m	7514026,586	620078,567	-22,47591662	-43,83280569
Rota 7 - Final Matadouro 8,235m	7514061,241	620096,442	-22,47560234	-43,8326346
Rota 7 - Final Matadouro 8,235m	7514128,11	620115,337	-22,47499704	-43,83245602
Rota 7 - Final Matadouro 8,235m	7514179,233	620126,331	-22,47453452	-43,83235305
Rota 7 - Final Matadouro 8,235m	7514244,224	620133,533	-22,473947	-43,83228797
Rota 7 - Final Matadouro 8,235m	7514289,248	620142,896	-22,47353968	-43,83220039
Rota 7 - Final Matadouro 8,235m	7514290,38	620142,996	-22,47352945	-43,83219951
Rota 7 - Final Matadouro 8,235m	7514327,008	620163,73	-22,47319716	-43,83200078
Rota 7 - Final Matadouro 8,235m	7514362,331	620187,28	-22,47287646	-43,83177458
Rota 7 - Final Matadouro 8,235m	7514394,56	620195,602	-22,47258478	-43,83169615
Rota 7 - Final Matadouro 8,235m	7514462,458	620201,936	-22,47197107	-43,83163973
Rota 7 - Final Matadouro 8,235m	7514523,758	620215,382	-22,47141645	-43,8315137
Rota 7 - Final Matadouro 8,235m	7514585,963	620244,274	-22,47085257	-43,83123763
Rota 7 - Final Matadouro 8,235m	7514772,888	620325,96	-22,46915848	-43,83045795
Rota 7 - Final Matadouro 8,235m	7514811,247	620357,706	-22,46880977	-43,83015235
Rota 7 - Final Matadouro 8,235m	7514839,639	620375,489	-22,46855208	-43,82998168
Rota 7 - Final Matadouro 8,235m	7514943,568	620415,53	-22,46761055	-43,82960044
Rota 7 - Final Matadouro 8,235m	7515062,577	620451,353	-22,46653312	-43,82926134
Rota 7 - Final Matadouro 8,235m	7515107,448	620473,141	-22,4661263	-43,82905302
Rota 7 - Final Matadouro 8,235m	7515186,827	620519,78	-22,46540605	-43,8286058
Rota 7 - Final Matadouro 8,235m	7515234,923	620560,856	-22,46496874	-43,82821028
Rota 7 - Final Matadouro 8,235m	7515295,588	620626,376	-22,46441618	-43,82757817
Rota 7 - Final Matadouro 8,235m	7515344,442	620679,201	-22,46397118	-43,82706854
Rota 7 - Final Matadouro 8,235m	7515408,502	620745,917	-22,46338787	-43,82642507
Rota 7 - Final Matadouro 8,235m	7515471,448	620790,012	-22,46281622	-43,82600136
Rota 7 - Final Matadouro 8,235m	7515526,483	620855,884	-22,46231447	-43,82536542
Rota 7 - Final Matadouro 8,235m	7515544,981	620895,145	-22,46214461	-43,8249853
Rota 7 - Final Matadouro 8,235m	7515561,087	620945,148	-22,46199561	-43,82450061
Rota 7 - Final Matadouro 8,235m	7515575,005	621003,146	-22,46186579	-43,82393807
Rota 7 - Final Matadouro 8,235m	7515589,845	621042,009	-22,461729	-43,82356154
Rota 7 - Final Matadouro 8,235m	7515618,632	621086,255	-22,46146586	-43,82313377
Rota 7 - Final Matadouro 8,235m	7515667,679	621136,748	-22,46101927	-43,82264683
Rota 7 - Final Matadouro 8,235m	7515724,404	621184,513	-22,46050354	-43,82218701
Rota 7 - Final Matadouro 8,235m	7515785,023	621229,507	-22,45995282	-43,8217544
Rota 7 - Final Matadouro 8,235m	7515841,47	621277,055	-22,45943961	-43,82129666
Rota 7 - Final Matadouro 8,235m	7515895,02	621331,189	-22,45895209	-43,8207747



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - Final Matadouro 8,235m	7515948,574	621398,503	-22,45846361	-43,82012468
Rota 7 - Final Matadouro 8,235m	7516031,034	621522,362	-22,45771002	-43,81892739
Rota 7 - Final Matadouro 8,235m	7516059,9	621562,915	-22,45744641	-43,81853553
Rota 7 - Final Matadouro 8,235m	7516076,184	621612,856	-22,45729577	-43,81805149
Rota 7 - Final Matadouro 8,235m	7516076,184	621612,856	-22,45729577	-43,81805149
Rota 7 - Final Matadouro 8,235m	7516085,862	621707,641	-22,45720161	-43,81713117
Rota 7 - Final Matadouro 8,235m	7516090,937	621766,004	-22,45715161	-43,81656443
Rota 7 - Final Matadouro 8,235m	7516090,937	621766,004	-22,45715161	-43,81656443
Rota 7 - Final Matadouro 8,235m	7516098,917	621828,345	-22,45707509	-43,81595925
Rota 7 - Final Matadouro 8,235m	7516113,213	621968,287	-22,45693599	-43,81460049
Rota 7 - Final Matadouro 8,235m	7516136,009	622006,638	-22,45672735	-43,81422956
Rota 7 - Final Matadouro 8,235m	7516177,507	622097,083	-22,45634607	-43,81335388
Rota 7 - Final Matadouro 8,235m	7516211,005	622156,678	-22,45603926	-43,81277735
Rota 7 - Final Matadouro 8,235m	7516251,504	622181,918	-22,45567166	-43,8125352
Rota 7 - Final Matadouro 8,235m	7516251,504	622181,918	-22,45567166	-43,8125352
Rota 7 - Final Matadouro 8,235m	7516339,495	622221,433	-22,45487409	-43,812158
Rota 7 - Final Matadouro 8,235m	7516400,426	622238,935	-22,4543225	-43,81199262
Rota 7 - BR393 Vazador 6,293m	7516400,185	622238,746	-22,45432469	-43,81199443
Rota 7 - BR393 Vazador 6,293m	7516423,628	622268,489	-22,45411083	-43,81170722
Rota 7 - BR393 Vazador 6,293m	7516432,529	622296,937	-22,4540284	-43,81143148
Rota 7 - BR393 Vazador 6,293m	7516442,714	622349,868	-22,45393261	-43,81091793
Rota 7 - BR393 Vazador 6,293m	7516453,367	622423,016	-22,45383115	-43,81020796
Rota 7 - BR393 Vazador 6,293m	7516453,367	622423,016	-22,45383115	-43,81020796
Rota 7 - BR393 Vazador 6,293m	7516464,504	622487,717	-22,45372593	-43,80958011
Rota 7 - BR393 Vazador 6,293m	7516477,271	622571,824	-22,45360459	-43,80876382
Rota 7 - BR393 Vazador 6,293m	7516487,123	622637,695	-22,45351087	-43,80812451
Rota 7 - BR393 Vazador 6,293m	7516500,443	622722,066	-22,4533845	-43,8073057
Rota 7 - BR393 Vazador 6,293m	7516514,191	622826,132	-22,45325286	-43,80629555
Rota 7 - BR393 Vazador 6,293m	7516528,531	622920,332	-22,45311656	-43,80538132
Rota 7 - BR393 Vazador 6,293m	7516541,874	622993,257	-22,4529908	-43,80467374
Rota 7 - BR393 Vazador 6,293m	7516549,953	623027,944	-22,45291533	-43,80433731
Rota 7 - BR393 Vazador 6,293m	7516572,67	623088,984	-22,45270575	-43,80374594
Rota 7 - BR393 Vazador 6,293m	7516635,071	623214,393	-22,4521331	-43,80253218
Rota 7 - BR393 Vazador 6,293m	7516705,279	623352,573	-22,45148901	-43,80119495
Rota 7 - BR393 Vazador 6,293m	7516763,712	623463,014	-22,45095327	-43,80012635
Rota 7 - BR393 Vazador 6,293m	7516832,105	623596,551	-22,45032589	-43,79883412
Rota 7 - BR393 Vazador 6,293m	7516863,317	623654,822	-22,45003976	-43,79827033
Rota 7 - BR393 Vazador 6,293m	7516917,815	623737,753	-22,44954153	-43,79746876
Rota 7 - BR393 Vazador 6,293m	7516950,895	623780,013	-22,44923968	-43,79706071
Rota 7 - BR393 Vazador 6,293m	7516978,6	623809,13	-22,44898734	-43,79677994
Rota 7 - BR393 Vazador 6,293m	7517089,227	623909,518	-22,44798088	-43,79581313
Rota 7 - BR393 Vazador 6,293m	7517171,129	623984,075	-22,44723572	-43,79509508
Rota 7 - BR393 Vazador 6,293m	7517244,7	624055,57	-22,44656604	-43,79440614

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - BR393 Vazador 6,293m	7517313,117	624128,854	-22,44594277	-43,79369942
Rota 7 - BR393 Vazador 6,293m	7517387,217	624206,568	-22,44526785	-43,7929501
Rota 7 - BR393 Vazador 6,293m	7517463,809	624288,573	-22,44457011	-43,7921593
Rota 7 - BR393 Vazador 6,293m	7517466,994	624291,855	-22,44454111	-43,79212766
Rota 7 - BR393 Vazador 6,293m	7517538,063	624366,745	-22,44389376	-43,79140556
Rota 7 - BR393 Vazador 6,293m	7517665,407	624502,443	-22,44273371	-43,79009705
Rota 7 - BR393 Vazador 6,293m	7517745,823	624591,246	-22,44200091	-43,78924052
Rota 7 - BR393 Vazador 6,293m	7517783,207	624634,66	-22,44166009	-43,78882164
Rota 7 - BR393 Vazador 6,293m	7517820,914	624694,094	-22,4413152	-43,78824712
Rota 7 - BR393 Vazador 6,293m	7517848,619	624760,989	-22,44106008	-43,78759934
Rota 7 - BR393 Vazador 6,293m	7517917,204	624924,274	-22,4404287	-43,78601823
Rota 7 - BR393 Vazador 6,293m	7517989,569	625104,78	-22,43976189	-43,78427012
Rota 7 - BR393 Vazador 6,293m	7518023,278	625176,227	-22,4394522	-43,7835786
Rota 7 - BR393 Vazador 6,293m	7518066,327	625241,341	-22,43905861	-43,78294934
Rota 7 - BR393 Vazador 6,293m	7518133,139	625319,122	-22,43844947	-43,78219889
Rota 7 - BR393 Vazador 6,293m	7518191,693	625382,605	-22,43791595	-43,78158671
Rota 7 - BR393 Vazador 6,293m	7518264,551	625458,265	-22,43725235	-43,78085736
Rota 7 - BR393 Vazador 6,293m	7518297,508	625503,964	-22,43695133	-43,78041595
Rota 7 - BR393 Vazador 6,293m	7518328,799	625550,039	-22,43666532	-43,77997077
Rota 7 - BR393 Vazador 6,293m	7518371,17	625625,519	-22,43627709	-43,77924078
Rota 7 - BR393 Vazador 6,293m	7518423,669	625713,81	-22,43579642	-43,77838711
Rota 7 - BR393 Vazador 6,293m	7518486,107	625818,118	-22,43522481	-43,77737862
Rota 7 - BR393 Vazador 6,293m	7518486,107	625818,118	-22,43522481	-43,77737862
Rota 7 - BR393 Vazador 6,293m	7518531,998	625898,444	-22,43480442	-43,77660184
Rota 7 - BR393 Vazador 6,293m	7518586,019	625985,141	-22,43431011	-43,7757638
Rota 7 - BR393 Vazador 6,293m	7518653,681	626097,44	-22,43369071	-43,77467811
Rota 7 - BR393 Vazador 6,293m	7518700,863	626171,752	-22,43325908	-43,77395988
Rota 7 - BR393 Vazador 6,293m	7518769,878	626251,869	-22,43262982	-43,77318698
Rota 7 - BR393 Vazador 6,293m	7518904,378	626392,751	-22,43140462	-43,77182893
Rota 7 - BR393 Vazador 6,293m	7519000,31	626495,965	-22,43053053	-43,7708338
Rota 7 - BR393 Vazador 6,293m	7519129,61	626634,42	-22,42935245	-43,76949896
Rota 7 - BR393 Vazador 6,293m	7519167,892	626671,782	-22,42900393	-43,76913903
Rota 7 - BR393 Vazador 6,293m	7519208,774	626706,139	-22,42863213	-43,7688085
Rota 7 - BR393 Vazador 6,293m	7519262,111	626747,87	-22,42814731	-43,76840733
Rota 7 - BR393 Vazador 6,293m	7519322,615	626794,052	-22,42759741	-43,76796348
Rota 7 - BR393 Vazador 6,293m	7519377,564	626839,241	-22,42709776	-43,76752885
Rota 7 - BR393 Vazador 6,293m	7519440,525	626904,49	-22,42652426	-43,76689997
Rota 7 - BR393 Vazador 6,293m	7519512,464	626987,217	-22,42586837	-43,76610202
Rota 7 - BR393 Vazador 6,293m	7519607,274	627094,996	-22,42500405	-43,76506253
Rota 7 - BR393 Vazador 6,293m	7519693,442	627193,042	-22,42421849	-43,76411691
Rota 7 - BR393 Vazador 6,293m	7519721,911	627225,864	-22,42395892	-43,76380032
Rota 7 - BR393 Vazador 6,293m	7519736,426	627248,172	-22,42382616	-43,76358476
Rota 7 - BR393 Vazador 6,293m	7519749,43	627280,936	-22,42370627	-43,76326751

ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - BR393 Vazador 6,293m	7519752,967	627306,792	-22,4236724	-43,76301661
Rota 7 - BR393 Vazador 6,293m	7519752,741	627330,7	-22,42367266	-43,76278432
Rota 7 - BR393 Vazador 6,293m	7519748,315	627349,051	-22,42371128	-43,76260569
Rota 7 - BR393 Vazador 6,293m	7519737,652	627379,695	-22,4238053	-43,76230714

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Início da Rota 8	7514848,221	620947,41	-22,46843415	-43,82442431
Rota 8 - Principal 2x 1,253m	7514847,941	620947,31	-22,46843669	-43,82442526
Rota 8 - Principal 2x 1,253m	7514905,292	620951,445	-22,46791839	-43,82438945
Rota 8 - Principal 2x 1,253m	7514942,212	620952,115	-22,46758488	-43,82438575
Rota 8 - Principal 2x 1,253m	7515006,041	620963,037	-22,46700759	-43,82428447
Rota 8 - Principal 2x 1,253m	7515056,274	620975,906	-22,46655297	-43,82416324
Rota 8 - Principal 2x 1,253m	7515092,184	620995,185	-22,46622726	-43,82397863
Rota 8 - Principal 2x 1,253m	7515127,199	621027,494	-22,46590871	-43,82366732
Rota 8 - Principal 2x 1,253m	7515144,874	621064,943	-22,46574641	-43,82330474
Rota 8 - Principal 2x 1,253m	7515154,906	621103,608	-22,46565306	-43,82292976
Rota 8 - Principal 2x 1,253m	7515171,957	621162,805	-22,46549485	-43,82235579
Rota 8 - Principal 2x 1,253m	7515185,032	621201,994	-22,46537398	-43,82197595
Rota 8 - Principal 2x 1,253m	7515206,945	621246,626	-22,46517289	-43,82154389
Rota 8 - Principal 2x 1,253m	7515221,282	621270,274	-22,46504171	-43,82131518
Rota 8 - Principal 2x 1,253m	7515243,918	621303,299	-22,46483492	-43,82099597
Rota 8 - Principal 2x 1,253m	7515275,031	621339,992	-22,4645513	-43,82064177
Rota 8 - Principal 2x 1,253m	7515332,625	621404,372	-22,46402653	-43,82002054
Rota 8 - Principal 2x 1,253m	7515372,502	621446,861	-22,46366333	-43,81961069
Rota 8 - Principal 2x 1,253m	7515464,292	621518,726	-22,46282916	-43,81891935
Rota 8 - Principal 2x 1,253m	7515517,455	621559,402	-22,46234609	-43,81852814
Rota 8 - Principal 2x 1,253m	7515546,375	621583,748	-22,46208315	-43,81829377
Rota 8 - Principal 2x 1,253m	7515551,01	621596,407	-22,46204038	-43,81817111
Rota 8 - Principal 2x 1,253m	7515548,42	621610,782	-22,46206275	-43,81803122
Rota 8 - Principal 2x 1,253m	7515542,288	621644,632	-22,46211573	-43,8177018
Rota 8 - Principal 2x 1,253m	7515540,554	621666,54	-22,46212983	-43,81748877
Rota 8 - Principal 2x 1,253m	7515541,945	621689,521	-22,46211563	-43,81726556
Rota 8 - Principal 2x 1,253m	7515556,56	621731,561	-22,46198063	-43,81685815
Rota 8 - Principal 2x 1,253m	7515576,393	621769,768	-22,46179877	-43,81648839
Rota 8 - Principal 2x 1,253m	7515598,638	621806,2	-22,46159525	-43,81613606
Rota 8 - Quimica 67,1m	7515545,612	621626,609	-22,46208699	-43,8178772
Rota 8 - Quimica 67,1m	7515558,827	621640,3	-22,46196666	-43,81774517
Rota 8 - Quimica 67,1m	7515590,993	621676,025	-22,46167358	-43,81740047
Rota 8 - Rota Quimica 706m	7515598,962	621806,203	-22,46159233	-43,81613605
Rota 8 - Rota Quimica 706m	7515587,421	621811,969	-22,46169615	-43,81607914
Rota 8 - Rota Quimica 706m	7515569,552	621818,158	-22,46185711	-43,81601763
Rota 8 - Rota Quimica 706m	7515547,93	621826,459	-22,4620518	-43,8159353
Rota 8 - Rota Quimica 706m	7515536,759	621830,629	-22,46215241	-43,81589392
Rota 8 - Rota Quimica 706m	7515482,151	621854,101	-22,46264396	-43,81566163
Rota 8 - Rota Quimica 706m	7515483,653	621866,981	-22,46262947	-43,81553659
Rota 8 - Rota Quimica 706m	7515492,065	621891,931	-22,46255171	-43,81529477
Rota 8 - Rota Quimica 706m	7515505,617	621921,349	-22,46242721	-43,81500994
Rota 8 - Rota Quimica 706m	7515517,452	621949,267	-22,46231832	-43,81473955
Rota 8 - Rota Quimica 706m	7515527,717	621963,705	-22,46222458	-43,81460003

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 8 - Rota Quimica 706m	7515532,736	621979,566	-22,46217811	-43,81444628
Rota 8 - Rota Quimica 706m	7515543,189	621999,413	-22,46208229	-43,81425422
Rota 8 - Rota Quimica 706m	7515521,703	622013,392	-22,46227535	-43,81411673
Rota 8 - Rota Quimica 706m	7515510,307	622023,616	-22,46237755	-43,8140165
Rota 8 - Rota Quimica 706m	7515535,671	622036,39	-22,46214755	-43,81389431
Rota 8 - Rota Quimica 706m	7515565,534	622045,904	-22,46187714	-43,81380415
Rota 8 - Rota Quimica 706m	7515603,503	622062,204	-22,46153303	-43,81364867
Rota 8 - Rota Quimica 706m	7515611,305	622076,627	-22,46146154	-43,81350912
Rota 8 - Rota Quimica 706m	7515619,652	622093,843	-22,46138492	-43,81334246
Rota 8 - Rota Quimica 706m	7515639,742	622160,219	-22,46119872	-43,81269899
Rota 8 - Rota Quimica 706m	7515655,878	622173,147	-22,46105204	-43,8125746
Rota 8 - Rota Quimica 706m	7515678,431	622179,151	-22,46084791	-43,812518
Rota 8 - Rota Quimica 706m	7515705,06	622194,821	-22,46060628	-43,81236777
Rota 8 - Rota Quimica 706m	7515720,117	622200,136	-22,4604699	-43,81231728
Rota 8 - Rota Quimica 706m	7515732,228	622199,883	-22,46036053	-43,81232067
Rota 8 - Rota Quimica 706m	7515742,226	622194,002	-22,46027065	-43,81237859
Rota 8 - Rota Quimica 706m	7515750,292	622184,518	-22,46019848	-43,81247137
Rota 8 - Rota Quimica 706m	7515781,264	622158,159	-22,45992062	-43,81272989
Rota 8 - Rota Quimica 706m	7515787,088	622157,228	-22,45986809	-43,81273939
Rota 8 - Quimica 107m	7515474,26	621961,06	-22,4627076	-43,81462162
Rota 8 - Quimica 107m	7515536,892	621952,897	-22,46214249	-43,81470577
Rota 8 - Quimica 107m	7515576,713	621934,329	-22,46178414	-43,81488926
Rota 8 - Quimica 208m	7515510,307	622023,616	-22,46237755	-43,8140165
Rota 8 - Quimica 208m	7515497,854	622024,506	-22,46248996	-43,81400689
Rota 8 - Quimica 208m	7515485,918	622031,541	-22,46259727	-43,81393761
Rota 8 - Quimica 208m	7515474,84	622039,076	-22,46269679	-43,81386354
Rota 8 - Quimica 208m	7515469,1	622044,253	-22,46274826	-43,81381279
Rota 8 - Quimica 208m	7515462,286	622055,339	-22,46280901	-43,81370453
Rota 8 - Quimica 208m	7515452,934	622071,76	-22,46289231	-43,81354424
Rota 8 - Quimica 208m	7515444,209	622084,758	-22,46297018	-43,81341725
Rota 8 - Quimica 208m	7515438,692	622098,119	-22,46301906	-43,81328699
Rota 8 - Quimica 208m	7515420,614	622113,291	-22,46318126	-43,81313816
Rota 8 - Quimica 208m	7515348,23	622132,287	-22,46383368	-43,812948
Rota 8 - Quimica 35,5m	7515604,038	622062,373	-22,46152819	-43,81364708
Rota 8 - Quimica 35,5m	7515613,881	622051,249	-22,46144009	-43,81375593
Rota 8 - Quimica 35,5m	7515626,665	622035,097	-22,46132577	-43,81391387
Rota 8 - Quimica 476m	7515640,17	622160,651	-22,46119482	-43,81269483
Rota 8 - Quimica 476m	7515622,238	622170,92	-22,46135604	-43,81259365
Rota 8 - Quimica 476m	7515599,573	622183,588	-22,46155985	-43,81246881
Rota 8 - Quimica 476m	7515588,109	622191,338	-22,46166284	-43,81239261
Rota 8 - Quimica 476m	7515547,367	622217,363	-22,46202897	-43,81213658
Rota 8 - Quimica 476m	7515503,33	622246,425	-22,46242464	-43,81185077
Rota 8 - Quimica 476m	7515469,449	622266,964	-22,46272918	-43,81164856

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 8 - Quimica 476m	7515442,891	622273,294	-22,4629686	-43,81158501
Rota 8 - Quimica 476m	7515424,973	622276,125	-22,46313024	-43,81155611
Rota 8 - Quimica 476m	7515413,139	622280,125	-22,46323683	-43,81151634
Rota 8 - Quimica 476m	7515405,856	622292,147	-22,46330176	-43,81139895
Rota 8 - Quimica 476m	7515398,606	622307,62	-22,46336613	-43,81124802
Rota 8 - Quimica 476m	7515392,518	622336,937	-22,46341902	-43,81096266
Rota 8 - Quimica 476m	7515388,292	622344,677	-22,46345663	-43,81088712
Rota 8 - Quimica 476m	7515373,382	622353,835	-22,46359064	-43,81079698
Rota 8 - Quimica 476m	7515360,079	622363,902	-22,46371008	-43,81069812
Rota 8 - Quimica 476m	7515347,736	622378,577	-22,46382051	-43,81055457
Rota 8 - Quimica 476m	7515312,017	622383,555	-22,46414277	-43,81050344
Rota 8 - Quimica 476m	7515288,213	622376,588	-22,46435827	-43,8105693
Rota 8 - Quimica 476m	7515257,695	622365,474	-22,46463471	-43,81067496
Rota 8 - Quimica 71,5m	7515348,432	622378,352	-22,46381424	-43,81055681
Rota 8 - Quimica 71,5m	7515347,545	622392,794	-22,46382122	-43,81041639
Rota 8 - Quimica 71,5m	7515344,928	622414,527	-22,4638433	-43,81020499
Rota 8 - Quimica 71,5m	7515340,032	622426,828	-22,46388663	-43,81008507
Rota 8 - Quimica 71,5m	7515322,061	622439,36	-22,46404805	-43,8099619
Rota 8 - Quimica 143m	7515503,944	622246,544	-22,46241908	-43,81184966
Rota 8 - Quimica 143m	7515501,443	622227,918	-22,462443	-43,81203047
Rota 8 - Quimica 143m	7515517,043	622200,349	-22,46230408	-43,81229957
Rota 8 - Quimica 143m	7515528,277	622174,124	-22,46220448	-43,81255529
Rota 8 - Quimica 143m	7515528,24	622155,55	-22,46220615	-43,81273578
Rota 8 - Quimica 143m	7515519,73	622131,977	-22,4622847	-43,8129642
Rota 8 - Quimica 143m	7515504,639	622118,802	-22,46242194	-43,81309107
Rota 8 - Quimica 153m	7515655,625	622172,959	-22,46105435	-43,81257641
Rota 8 - Quimica 153m	7515656,888	622183,529	-22,46104218	-43,81247379
Rota 8 - Quimica 153m	7515655,637	622191,683	-22,4610529	-43,81239446
Rota 8 - Quimica 153m	7515642,286	622200,602	-22,46117285	-43,81230676
Rota 8 - Quimica 153m	7515627,717	622209,03	-22,46130383	-43,81222374
Rota 8 - Quimica 153m	7515593,684	622230,705	-22,46160967	-43,81201049
Rota 8 - Quimica 153m	7515572,968	622245,209	-22,46179574	-43,81186795
Rota 8 - Quimica 153m	7515543,313	622264,034	-22,46206224	-43,81168273
Rota 8 - Quimica 539m	7515787,157	622157,179	-22,45986746	-43,81273988
Rota 8 - Quimica 539m	7515802,444	622185,679	-22,45972735	-43,8124641
Rota 8 - Quimica 539m	7515814,757	622214,051	-22,45961411	-43,81218934
Rota 8 - Quimica 539m	7515837,353	622258,44	-22,45940684	-43,81175973
Rota 8 - Quimica 539m	7515860,573	622307,198	-22,45919363	-43,81128772
Rota 8 - Quimica 539m	7515866,02	622320	-22,45914351	-43,81116373
Rota 8 - Quimica 539m	7515866,705	622330,137	-22,4591366	-43,81106528
Rota 8 - Quimica 539m	7515856,555	622330,008	-22,45922828	-43,81106575
Rota 8 - Quimica 539m	7515846,992	622335,39	-22,45931427	-43,81101272
Rota 8 - Quimica 539m	7515838,721	622340,651	-22,4593886	-43,81096096

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 8 - Quimica 539m	7515802,063	622359,417	-22,45971836	-43,81077577
Rota 8 - Quimica 539m	7515782,654	622368,837	-22,45989299	-43,81068274
Rota 8 - Quimica 539m	7515779,925	622371,652	-22,45991743	-43,81065517
Rota 8 - Quimica 539m	7515783,287	622383,698	-22,4598862	-43,81053837
Rota 8 - Quimica 539m	7515783,996	622394,926	-22,459879	-43,81042932
Rota 8 - Quimica 539m	7515781,5	622402,002	-22,45990103	-43,81036037
Rota 8 - Quimica 539m	7515770,982	622411,611	-22,45999534	-43,81026618
Rota 8 - Quimica 539m	7515754,398	622420,816	-22,46014447	-43,81017545
Rota 8 - Quimica 539m	7515741,612	622426,047	-22,46025959	-43,81012363
Rota 8 - Quimica 539m	7515730,881	622434,7	-22,46035589	-43,81003872
Rota 8 - Quimica 539m	7515719,351	622449,653	-22,46045896	-43,80989252
Rota 8 - Quimica 539m	7515709,632	622461,762	-22,46054587	-43,80977411
Rota 8 - Quimica 539m	7515688,865	622494,965	-22,46073105	-43,80944985
Rota 8 - Quimica 539m	7515682,567	622504,359	-22,46078726	-43,80935808
Rota 8 - Quimica 539m	7515670,951	622508,337	-22,46089189	-43,80931852
Rota 8 - Quimica 539m	7515641,684	622518,707	-22,46115549	-43,80921549
Rota 8 - Quimica 539m	7515617,024	622523,961	-22,46137786	-43,80916253
Rota 8 - Quimica 539m	7515611,998	622523,492	-22,46142328	-43,8091667
Rota 8 - Quimica 82,8m	7515882,643	622269,095	-22,45899702	-43,81165968
Rota 8 - Quimica 82,8m	7515890,344	622287,722	-22,45892613	-43,81147926
Rota 8 - Quimica 82,8m	7515893,826	622299,898	-22,4588938	-43,81136121
Rota 8 - Quimica 82,8m	7515897,54	622305,678	-22,45885985	-43,81130533
Rota 8 - Quimica 82,8m	7515897,922	622313,784	-22,45885582	-43,81122659
Rota 8 - Quimica 82,8m	7515888,376	622320,438	-22,45894156	-43,8111612
Rota 8 - Quimica 82,8m	7515877,863	622325,718	-22,45903614	-43,81110908
Rota 8 - Quimica 82,8m	7515869,532	622327,886	-22,45911123	-43,81108737
Rota 8 - Quimica 82,8m	7515867,112	622329,607	-22,45913296	-43,81107046
Rota 8 - Quimica 115m	7515866,783	622328,355	-22,45913602	-43,8110826
Rota 8 - Quimica 115m	7515869,459	622335,993	-22,45911131	-43,81100859
Rota 8 - Quimica 115m	7515878,641	622356,084	-22,45902694	-43,81081406
Rota 8 - Quimica 115m	7515888,56	622373,5	-22,4589361	-43,81064559
Rota 8 - Quimica 115m	7515911,028	622412,673	-22,45873036	-43,81026666
Rota 8 - Quimica 115m	7515917,444	622430,846	-22,4586711	-43,81009056
Rota 8 - Quimica 1,021m	7515917,472	622430,54	-22,45867087	-43,81009353
Rota 8 - Quimica 1,021m	7515915,807	622439,828	-22,45868525	-43,81000315
Rota 8 - Quimica 1,021m	7515918,098	622454,729	-22,45866348	-43,80985853
Rota 8 - Quimica 1,021m	7515917,222	622470,444	-22,45867027	-43,80970575
Rota 8 - Quimica 1,021m	7515915,279	622479,491	-22,45868718	-43,80961769
Rota 8 - Quimica 1,021m	7515908,269	622501,86	-22,45874888	-43,80939977
Rota 8 - Quimica 1,021m	7515899,377	622514,963	-22,45882826	-43,80927176
Rota 8 - Quimica 1,021m	7515885,261	622529,185	-22,45895473	-43,80913247
Rota 8 - Quimica 1,021m	7515870,738	622544,947	-22,45908478	-43,80897818
Rota 8 - Quimica 1,021m	7515855,935	622555,924	-22,45921769	-43,80887038

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 8 - Quimica 1,021m	7515849,405	622564,19	-22,45927608	-43,80878954
Rota 8 - Quimica 1,021m	7515847,076	622581,122	-22,4592959	-43,80862483
Rota 8 - Quimica 1,021m	7515850,435	622595,715	-22,45926451	-43,80848328
Rota 8 - Quimica 1,021m	7515850,194	622605,621	-22,45926598	-43,808387
Rota 8 - Quimica 1,021m	7515847,648	622627,067	-22,45928744	-43,80817841
Rota 8 - Quimica 1,021m	7515850,763	622642,222	-22,45925821	-43,80803138
Rota 8 - Quimica 1,021m	7515860,803	622648,404	-22,45916709	-43,80797208
Rota 8 - Quimica 1,021m	7515901,957	622642,678	-22,45879579	-43,8080309
Rota 8 - Quimica 1,021m	7515936,655	622643,398	-22,45848234	-43,80802659
Rota 8 - Quimica 1,021m	7515959,233	622648,649	-22,45827804	-43,8079773
Rota 8 - Quimica 1,021m	7515978,82	622664,531	-22,45809999	-43,80782448
Rota 8 - Quimica 1,021m	7515990,537	622687,771	-22,45799249	-43,80759956
Rota 8 - Quimica 1,021m	7515995,157	622721,183	-22,45794836	-43,80727524
Rota 8 - Quimica 1,021m	7515993,988	622744,319	-22,45795726	-43,80705033
Rota 8 - Quimica 1,021m	7515975,79	622770,965	-22,45811971	-43,80678999
Rota 8 - Quimica 1,021m	7515965,264	622782,525	-22,45821395	-43,80667684
Rota 8 - Quimica 1,021m	7515953,91	622792,043	-22,45831582	-43,80658348
Rota 8 - Quimica 1,021m	7515947,046	622806,606	-22,45837676	-43,80644143
Rota 8 - Quimica 1,021m	7515947,473	622815,755	-22,45837225	-43,80635255
Rota 8 - Quimica 1,021m	7515956,441	622816,59	-22,45829119	-43,80634514
Rota 8 - Quimica 1,021m	7515969,28	622808,761	-22,45817579	-43,8064222
Rota 8 - Quimica 1,021m	7515988,761	622801,715	-22,45800035	-43,80649218
Rota 8 - Quimica 1,021m	7516000,91	622793,448	-22,45789121	-43,80657346
Rota 8 - Quimica 1,021m	7516038,441	622778,35	-22,45755331	-43,80672308
Rota 8 - Quimica 1,021m	7516039,184	622746,53	-22,45754888	-43,80703234
Rota 8 - Quimica 1,021m	7516039,987	622708,089	-22,45754439	-43,80740594
Rota 8 - Quimica 1,021m	7516036,596	622684,051	-22,45757675	-43,80763926
Rota 8 - Quimica 1,021m	7516026,073	622651,965	-22,45767409	-43,80795024
Rota 8 - Quimica 1,021m	7516012,044	622610,544	-22,45780378	-43,80835167
Rota 8 - Quimica 1,021m	7515999,523	622582,095	-22,45791892	-43,80862714
Rota 8 - Quimica 1,021m	7515942,506	622469,382	-22,45844198	-43,80971802
Rota 8 - Quimica 1,021m	7515917,472	622430,54	-22,45867087	-43,81009353
Rota 8 - Quimica 142m	7515849,995	622608,939	-22,45926753	-43,80835475
Rota 8 - Quimica 142m	7515883,293	622603,15	-22,4589672	-43,80841357
Rota 8 - Quimica 142m	7515990,1	622586,741	-22,45800369	-43,80858127
Rota 8 - Quimica 83,7m	7515850,756	622642,523	-22,45925825	-43,80802845
Rota 8 - Quimica 83,7m	7515840,73	622654,911	-22,45934792	-43,8079073
Rota 8 - Quimica 83,7m	7515822,121	622668,757	-22,459515	-43,80777131
Rota 8 - Quimica 83,7m	7515788,812	622698,326	-22,45981373	-43,80748141
Rota 8 - Quimica 403m	7515787,134	622157,68	-22,45986763	-43,81273501
Rota 8 - Quimica 403m	7515781,703	622148,363	-22,45991735	-43,81282512
Rota 8 - Quimica 403m	7515767,029	622117,813	-22,46005208	-43,81312087
Rota 8 - Quimica 403m	7515740,847	622060,393	-22,46029266	-43,81367683



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 8 - Quimica 403m	7515703,785	621978,489	-22,46063326	-43,8144699
Rota 8 - Quimica 403m	7515684,469	621934,305	-22,46081087	-43,81489777
Rota 8 - Quimica 403m	7515663,245	621885,801	-22,46100603	-43,81536748
Rota 8 - Quimica 403m	7515650,92	621857,395	-22,46111938	-43,81564258
Rota 8 - Quimica 403m	7515605,458	621812,303	-22,46153321	-43,81607727
Rota 8 - Quimica 403m	7515598,389	621806,089	-22,46159751	-43,81613711
Rota 8 - Vila Helena 2,377m	7514848,04	620947,373	-22,46843579	-43,82442466
Rota 8 - Vila Helena 2,377m	7514843,955	620944,461	-22,46847289	-43,82445264
Rota 8 - Vila Helena 2,377m	7514842,036	620935,45	-22,46849086	-43,82454007
Rota 8 - Vila Helena 2,377m	7514852,82	620926,089	-22,46839413	-43,82463186
Rota 8 - Vila Helena 2,377m	7514873,112	620926,47	-22,46821081	-43,82462971
Rota 8 - Vila Helena 2,377m	7514873,112	620926,47	-22,46821081	-43,82462971
Rota 8 - Vila Helena 2,377m	7514900,744	620928,413	-22,4679611	-43,82461293
Rota 8 - Vila Helena 2,377m	7514951,892	620932,429	-22,46749884	-43,8245778
Rota 8 - Vila Helena 2,377m	7514994,497	620935,296	-22,46711382	-43,82455319
Rota 8 - Vila Helena 2,377m	7515045,171	620947,327	-22,46665528	-43,82444013
Rota 8 - Vila Helena 2,377m	7515097,054	620970,447	-22,46618502	-43,8242194
Rota 8 - Vila Helena 2,377m	7515122,712	620989,073	-22,46595196	-43,82404035
Rota 8 - Vila Helena 2,377m	7515150,769	621023,804	-22,46569608	-43,82370497
Rota 8 - Vila Helena 2,377m	7515178,168	621062,116	-22,4654459	-43,82333475
Rota 8 - Vila Helena 2,377m	7515194,206	621105,775	-22,46529794	-43,8229117
Rota 8 - Vila Helena 2,377m	7515216,348	621175,137	-22,46509303	-43,82223934
Rota 8 - Vila Helena 2,377m	7515249,228	621247,692	-22,46479091	-43,82153676
Rota 8 - Vila Helena 2,377m	7515284,643	621295,393	-22,46446764	-43,82107592
Rota 8 - Vila Helena 2,377m	7515306,245	621325,097	-22,46427042	-43,82078891
Rota 8 - Vila Helena 2,377m	7515357,56	621387,265	-22,46380252	-43,82018869
Rota 8 - Vila Helena 2,377m	7515408,078	621434,765	-22,46334286	-43,81973096
Rota 8 - Vila Helena 2,377m	7515496,969	621510,091	-22,46253463	-43,81900576
Rota 8 - Vila Helena 2,377m	7515540,892	621543,237	-22,46213556	-43,81868702
Rota 8 - Vila Helena 2,377m	7515600,999	621593,161	-22,4615891	-43,81820648
Rota 8 - Vila Helena 2,377m	7515643,155	621634,458	-22,4612054	-43,8178084
Rota 8 - Vila Helena 2,377m	7515678,454	621691,763	-22,4608825	-43,81725424
Rota 8 - Vila Helena 2,377m	7515705,109	621742,679	-22,46063812	-43,8167615
Rota 8 - Vila Helena 2,377m	7515733,048	621808,18	-22,46038111	-43,81612713
Rota 8 - Vila Helena 2,377m	7515792,735	621937,304	-22,45983279	-43,81487694
Rota 8 - Vila Helena 2,377m	7515809,502	621973,964	-22,45967873	-43,81452199
Rota 8 - Vila Helena 2,377m	7515817,375	621977,895	-22,45960734	-43,8144844
Rota 8 - Vila Helena 2,377m	7515819,747	621996,266	-22,4595846	-43,81430606
Rota 8 - Vila Helena 2,377m	7515872,727	622115,854	-22,45909754	-43,81314803
Rota 8 - Vila Helena 2,377m	7515910,597	622196,721	-22,45874971	-43,81236513
Rota 8 - Vila Helena 2,377m	7515935,985	622250,165	-22,45851658	-43,81184774
Rota 8 - Vila Helena 2,377m	7515953,965	622291,178	-22,45835125	-43,81145059
Rota 8 - Vila Helena 2,377m	7515959,635	622289,997	-22,45830012	-43,8114625

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 8 - Vila Helena 2,377m	7515964,825	622311,252	-22,45825172	-43,81125635
Rota 8 - Vila Helena 2,377m	7515997,03	622373,9	-22,45795636	-43,81065006
Rota 8 - Vila Helena 2,377m	7516009,902	622379,409	-22,4578397	-43,81059752
Rota 8 - Vila Helena 2,377m	7516026,355	622408,947	-22,45768898	-43,81031175
Rota 8 - Vila Helena 2,377m	7516044,137	622454,181	-22,45752513	-43,80987357
Rota 8 - Vila Helena 2,377m	7516058,222	622494,675	-22,45739501	-43,80948116
Rota 8 - Vila Helena 2,377m	7516066,46	622522,355	-22,45731862	-43,80921283
Rota 8 - Vila Helena 2,377m	7516069,704	622536,268	-22,45728832	-43,80907788
Rota 8 - Vila Helena 2,377m	7516069,28	622553,508	-22,45729091	-43,80891032
Rota 8 - Vila Helena 2,377m	7516077,293	622585,168	-22,45721627	-43,80860328
Rota 8 - Vila Helena 2,377m	7516085,166	622609,428	-22,45714342	-43,80836815
Rota 8 - Vila Helena 2,377m	7516096,049	622648,131	-22,45704234	-43,8079929
Rota 8 - Vila Helena 2,377m	7516121,048	622728,407	-22,45681079	-43,80721477
Rota 8 - Vila Helena 2,377m	7516124,246	622737,364	-22,45678126	-43,80712798
Rota 8 - Vila Helena 8,321m	7516124,53	622737,358	-22,45677869	-43,80712806
Rota 8 - Vila Helena 8,321m	7516141,642	622734,279	-22,45662435	-43,8071593
Rota 8 - Vila Helena 8,321m	7516181,911	622724,686	-22,45626133	-43,80725563
Rota 8 - Vila Helena 8,321m	7516195,388	622722,938	-22,45613973	-43,80727366
Rota 8 - Vila Helena 8,321m	7516204,596	622741,753	-22,45605521	-43,80709154
Rota 8 - Vila Helena 8,321m	7516213,289	622761,896	-22,45597525	-43,80689648
Rota 8 - Vila Helena 8,321m	7516220,062	622778,401	-22,45591288	-43,80673662
Rota 8 - Vila Helena 8,321m	7516250,211	622836,822	-22,45563638	-43,80617126
Rota 8 - Vila Helena 8,321m	7516294,093	622920,294	-22,45523403	-43,80536354
Rota 8 - Vila Helena 8,321m	7516174,974	622938,213	-22,45630863	-43,8051802
Rota 8 - Vila Helena 8,321m	7516177,932	623005,783	-22,45627706	-43,80452384
Rota 8 - Vila Helena 8,321m	7516331,666	622993,573	-22,4548894	-43,80465439
Rota 8 - Vila Helena 8,321m	7516337,649	623062,068	-22,45483042	-43,80398927
Rota 8 - Vila Helena 8,321m	7516181,908	623080,162	-22,45623579	-43,80380138
Rota 8 - Vila Helena 8,321m	7516194,242	623145,561	-22,45611967	-43,80316685
Rota 8 - Vila Helena 8,321m	7516326,551	623132,641	-22,45492558	-43,80330265
Rota 8 - Vila Helena 8,321m	7516309,025	623206,993	-22,45507852	-43,8025788
Rota 8 - Vila Helena 8,321m	7516222,678	623216,691	-22,45585771	-43,80247787
Rota 8 - Vila Helena 8,321m	7516235,235	623241,83	-22,45574248	-43,80223456
Rota 8 - Vila Helena 8,321m	7516268,544	623299,586	-22,45543746	-43,80167592
Rota 8 - Vila Helena 8,321m	7516278,258	623320,728	-22,4553482	-43,80147123
Rota 8 - Vila Helena 8,321m	7516317,577	623369,339	-22,45498955	-43,80100193
Rota 8 - Vila Helena 8,321m	7516354,427	623410,691	-22,45465374	-43,80060296
Rota 8 - Vila Helena 8,321m	7516398,077	623444,312	-22,45425706	-43,80027966
Rota 8 - Vila Helena 8,321m	7516440,081	623482,666	-22,4538749	-43,79991023
Rota 8 - Vila Helena 8,321m	7516472,64	623516,182	-22,45357841	-43,79958709
Rota 8 - Vila Helena 8,321m	7516499,371	623556,072	-22,45333409	-43,79920156
Rota 8 - Vila Helena 8,321m	7516528,935	623604,762	-22,45306354	-43,79873074
Rota 8 - Vila Helena 8,321m	7516587,715	623692,489	-22,45252629	-43,79788287

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 8 - Vila Helena 8,321m	7516645,957	623769,25	-22,45199469	-43,79714153
Rota 8 - Vila Helena 8,321m	7516717,973	623870,638	-22,45133688	-43,79616197
Rota 8 - Vila Helena 8,321m	7516696,583	623895,383	-22,45152829	-43,79591985
Rota 8 - Vila Helena 8,321m	7516718,028	623871,048	-22,45133636	-43,79615799
Rota 8 - Vila Helena 8,321m	7516742,352	623904,343	-22,45111425	-43,79583636
Rota 8 - Vila Helena 8,321m	7516742,352	623904,343	-22,45111425	-43,79583636
Rota 8 - Vila Helena 8,321m	7516803,85	623988,205	-22,45055272	-43,79502629
Rota 8 - Vila Helena 8,321m	7516864,121	624063,008	-22,45000292	-43,79430415
Rota 8 - Vila Helena 8,321m	7516898,893	624115,318	-22,44968505	-43,79379858
Rota 8 - Vila Helena 8,321m	7517005,544	624265,319	-22,44871088	-43,7923494
Rota 8 - Vila Helena 8,321m	7517095,692	624394,685	-22,44788725	-43,79109945
Rota 8 - Vila Helena 8,321m	7517161,64	624514,405	-22,44728288	-43,78994135
Rota 8 - Vila Helena 8,321m	7517248,982	624670,411	-22,44648264	-43,78843236
Rota 8 - Vila Helena 8,321m	7517365,559	624876,593	-22,44541466	-43,78643816
Rota 8 - Vila Helena 8,321m	7517500,184	625108,705	-22,44418175	-43,78419347
Rota 8 - Vila Helena 8,321m	7517570,411	625203,821	-22,44354049	-43,78327482
Rota 8 - Vila Helena 8,321m	7517774,315	625426,857	-22,44168248	-43,78112383
Rota 8 - Vila Helena 8,321m	7517792,509	625456,863	-22,44151594	-43,78083373
Rota 8 - Vila Helena 8,321m	7517792,389	625472,168	-22,44151591	-43,78068501
Rota 8 - Vila Helena 8,321m	7517790,325	625484,997	-22,44153361	-43,7805602
Rota 8 - Vila Helena 8,321m	7517792,031	625522,29	-22,44151546	-43,78019799
Rota 8 - Vila Helena 8,321m	7517797,704	625555,184	-22,4414618	-43,77987884
Rota 8 - Vila Helena 8,321m	7517797,612	625566,023	-22,44146184	-43,77977352
Rota 8 - Vila Helena 8,321m	7517817,884	625654,423	-22,44127225	-43,77891621
Rota 8 - Vila Helena 8,321m	7517825,256	625688,003	-22,4412032	-43,77859054
Rota 8 - Vila Helena 8,321m	7517839,766	625740,846	-22,44106826	-43,77807825
Rota 8 - Vila Helena 8,321m	7517868,767	625781,524	-22,44080333	-43,77768532
Rota 8 - Vila Helena 8,321m	7517894,284	625813,843	-22,44057049	-43,77737332
Rota 8 - Vila Helena 8,321m	7517947,722	625889,97	-22,44008223	-43,7766379
Rota 8 - Vila Helena 8,321m	7517975,501	625939,759	-22,43982766	-43,77615635
Rota 8 - Vila Helena 8,321m	7518002,072	625979,901	-22,43958472	-43,77576844
Rota 8 - Vila Helena 8,321m	7518081,412	626066,513	-22,43886173	-43,77493322
Rota 8 - Vila Helena 8,321m	7518090,217	626094,394	-22,43878015	-43,77466302
Rota 8 - Vila Helena 8,321m	7518093,155	626122,947	-22,43875151	-43,77438584
Rota 8 - Vila Helena 8,321m	7518089,934	626152,573	-22,43877841	-43,77409774
Rota 8 - Vila Helena 8,321m	7518090,298	626222,827	-22,43876994	-43,77341518
Rota 8 - Vila Helena 8,321m	7518099,364	626266,699	-22,43868482	-43,77298964
Rota 8 - Vila Helena 8,321m	7518110,654	626320,239	-22,43857889	-43,77247036
Rota 8 - Vila Helena 8,321m	7518137,802	626393,892	-22,43832825	-43,77175691
Rota 8 - Vila Helena 8,321m	7518155,343	626432,411	-22,43816697	-43,77138405
Rota 8 - Vila Helena 8,321m	7518202,319	626495,166	-22,43773805	-43,77077808
Rota 8 - Vila Helena 8,321m	7518231,27	626531,027	-22,4374739	-43,77043196
Rota 8 - Vila Helena 8,321m	7518237,862	626551,407	-22,43741286	-43,77023448

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 8 - Vila Helena 8,321m	7518244,182	626576,31	-22,43735394	-43,76999303
Rota 8 - Vila Helena 8,321m	7518243,986	626596,726	-22,4373542	-43,76979466
Rota 8 - Vila Helena 8,321m	7518236,412	626615,712	-22,43742119	-43,76960959
Rota 8 - Vila Helena 8,321m	7518221,857	626628,961	-22,43755168	-43,76947971
Rota 8 - Vila Helena 8,321m	7518210,522	626651,87	-22,43765236	-43,76925622
Rota 8 - Vila Helena 8,321m	7518218,642	626667,124	-22,43757788	-43,76910866
Rota 8 - Vila Helena 8,321m	7518231,671	626673,182	-22,43745976	-43,76905084
Rota 8 - Vila Helena 8,321m	7518246,208	626668,581	-22,4373288	-43,7690967
Rota 8 - Vila Helena 8,321m	7518272,329	626667,392	-22,43709297	-43,76911034
Rota 8 - Vila Helena 8,321m	7518291,719	626675,203	-22,43691726	-43,76903599
Rota 8 - Vila Helena 8,321m	7518299,96	626687,775	-22,43684189	-43,7689145
Rota 8 - Vila Helena 8,321m	7518315,76	626712,623	-22,43669735	-43,76867435
Rota 8 - Vila Helena 8,321m	7518316,405	626735,527	-22,43668982	-43,76845187
Rota 8 - Vila Helena 8,321m	7518318,256	626754,66	-22,43667169	-43,76826613
Rota 8 - Vila Helena 8,321m	7518339,047	626766,812	-22,436483	-43,76814971
Rota 8 - Vila Helena 8,321m	7518351,621	626781,588	-22,43636834	-43,76800715
Rota 8 - Vila Helena 8,321m	7518353,416	626797,369	-22,43635096	-43,76785398
Rota 8 - Vila Helena 8,321m	7518347,037	626824,109	-22,43640659	-43,76759368
Rota 8 - Vila Helena 8,321m	7518342,308	626847,072	-22,4364476	-43,76737019
Rota 8 - Vila Helena 8,321m	7518338,158	626875,669	-22,43648296	-43,76709202
Rota 8 - Vila Helena 8,321m	7518326,559	626893,394	-22,43658641	-43,76691888
Rota 8 - Vila Helena 8,321m	7518308,542	626910,995	-22,43674783	-43,76674644
Rota 8 - Vila Helena 8,321m	7518289,915	626920,585	-22,43691535	-43,76665178
Rota 8 - Vila Helena 8,321m	7518269,783	626924,564	-22,43709689	-43,76661151
Rota 8 - Vila Helena 8,321m	7518246,779	626924,023	-22,4373047	-43,76661493
Rota 8 - Vila Helena 8,321m	7518234,266	626934,439	-22,43741695	-43,76651273
Rota 8 - Vila Helena 8,321m	7518223,921	626960,841	-22,43750842	-43,76625539
Rota 8 - Vila Helena 8,321m	7518211,317	626976,919	-22,43762107	-43,76609817
Rota 8 - Vila Helena 8,321m	7518196,441	626987,11	-22,43775468	-43,76599797
Rota 8 - Vila Helena 8,321m	7518176,286	627006,871	-22,43793525	-43,76580436
Rota 8 - Vila Helena 8,321m	7518159,467	627051,713	-22,43808383	-43,76536734
Rota 8 - Vila Helena 8,321m	7518141,902	627077,195	-22,43824057	-43,76511836
Rota 8 - Vila Helena 8,321m	7518088,47	627181,023	-22,43871546	-43,76410532
Rota 8 - Vila Helena 8,321m	7517948,447	627322,405	-22,43996962	-43,76272045
Rota 8 - Vila Helena 8,321m	7517890,848	627350,296	-22,44048777	-43,76244484
Rota 8 - Vila Helena 8,321m	7517753,391	627375,922	-22,44172737	-43,76218484
Rota 8 - Vila Helena 8,321m	7517632,209	627408,207	-22,44281947	-43,76186145
Rota 8 - Vila Helena 8,321m	7517522,199	627455,079	-22,44380959	-43,76139721
Rota 8 - Vila Helena 8,321m	7517419,23	627549,178	-22,44473258	-43,76047466
Rota 8 - Vila Helena 8,321m	7517265,678	627692,57	-22,44610875	-43,75906908
Rota 8 - Vila Helena 8,321m	7517219,08	627739,092	-22,44652614	-43,75861332
Rota 8 - Vila Helena 8,321m	7517106,773	627734,475	-22,44754084	-43,75864915
Rota 8 - Vila Helena 8,321m	7517082,149	627715,339	-22,44776467	-43,7588331

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 8 - Vila Helena 8,321m	7517081,981	627688,765	-22,44776817	-43,7590913
Rota 8 - Vila Helena 8,321m	7517047,279	627665,048	-22,44808337	-43,75931895
Rota 8 - Vila Helena 8,321m	7517004,116	627690,553	-22,44847131	-43,75906766
Rota 8 - Vila Helena 8,321m	7516943,052	627698,764	-22,44902222	-43,75898298
Rota 8 - Vila Helena 8,321m	7516871,209	627717,981	-22,44966967	-43,75879047
Rota 8 - Vila Helena 8,321m	7516804,529	627749,798	-22,45026954	-43,75847596
Rota 8 - Vila Helena 8,321m	7516715,125	627798,281	-22,45107341	-43,75799768
Rota 8 - Vila Helena 8,321m	7516658,243	627819,978	-22,45158554	-43,75778227
Rota 8 - Vila Helena 8,321m	7516586,757	627788,818	-22,45223352	-43,75807929
Rota 8 - Vila Helena 8,321m	7516560,866	627753,029	-22,45247004	-43,75842497
Rota 8 - Vila Helena 8,321m	7516543,123	627732,759	-22,45263181	-43,7586205
Rota 8 - Vila Helena 8,321m	7516517,896	627728,063	-22,45286001	-43,75866411
Rota 8 - Vila Helena 8,321m	7516472,016	627724,775	-22,45327465	-43,75869236
Rota 8 - Vila Helena 8,321m	7516424,582	627671,8	-22,45370702	-43,7592033
Rota 8 - Vila Helena 8,321m	7516397,856	627648,466	-22,45395016	-43,75942788
Rota 8 - Vila Helena 8,321m	7516367,539	627641,732	-22,45422448	-43,75949088
Rota 8 - Vila Helena 8,321m	7516342,532	627631,002	-22,45445114	-43,75959313
Rota 8 - Vila Helena 8,321m	7516325,508	627619,434	-22,45460577	-43,75970417
Rota 8 - Vila Helena 8,321m	7516318,786	627596,612	-22,45466818	-43,75992539
Rota 8 - Vila Helena 8,321m	7516309,482	627543,204	-22,4547562	-43,76044361
Rota 8 - Vila Helena 8,321m	7516308,051	627524,185	-22,45477055	-43,7606283
Rota 8 - Vila Helena 8,321m	7516317,533	627517,553	-22,4546854	-43,76069351
Rota 8 - Vila Helena 138m	7516195,931	622723,476	-22,45613479	-43,80726848
Rota 8 - Vila Helena 138m	7516181,724	622690,334	-22,45626549	-43,80758942
Rota 8 - Vila Helena 138m	7516155,57	622634,575	-22,45650572	-43,80812923
Rota 8 - Vila Helena 138m	7516138,152	622598,673	-22,45666562	-43,80847675
Rota 8 - Vila Helena 495m	7516222,77	623216,99	-22,45585686	-43,80247497
Rota 8 - Vila Helena 495m	7516192,669	623154,324	-22,45613324	-43,80308157
Rota 8 - Vila Helena 495m	7516183,358	623118,98	-22,45621989	-43,80342429
Rota 8 - Vila Helena 495m	7516176,523	623062,83	-22,45628567	-43,80396939
Rota 8 - Vila Helena 495m	7516173,489	623002,779	-22,4563174	-43,80455268
Rota 8 - Vila Helena 495m	7516170,652	622928,274	-22,45634838	-43,80527645
Rota 8 - Vila Helena 495m	7516162,478	622853,476	-22,4564276	-43,80600265
Rota 8 - Vila Helena 495m	7516124,166	622737,462	-22,45678197	-43,80712702
Rota 8 - São Luis 785m	7516277,22	623319,152	-22,45535769	-43,80148646
Rota 8 - São Luis 785m	7516265,448	623323,509	-22,4554637	-43,80144322
Rota 8 - São Luis 785m	7516249,589	623329,679	-22,45560649	-43,80138203
Rota 8 - São Luis 785m	7516200,692	623350,57	-22,45604663	-43,80117523
Rota 8 - São Luis 785m	7516137,24	623374,799	-22,45661798	-43,80093486
Rota 8 - São Luis 785m	7516113,755	623388,209	-22,45682913	-43,80080273
Rota 8 - São Luis 785m	7516091,164	623401,183	-22,45703224	-43,8006749
Rota 8 - São Luis 785m	7516053,188	623426,667	-22,4573734	-43,80042432
Rota 8 - São Luis 785m	7516078,691	623478,203	-22,45713933	-43,79992551

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 8 - São Luis 785m	7516092,115	623506,38	-22,45701604	-43,79965274
Rota 8 - São Luis 785m	7516106,684	623528,538	-22,45688286	-43,79943856
Rota 8 - São Luis 785m	7516147,63	623560,822	-22,45651069	-43,79912804
Rota 8 - São Luis 785m	7516179,844	623580,45	-22,45621832	-43,79893982
Rota 8 - São Luis 785m	7516195,444	623555,464	-22,45607922	-43,79918383
Rota 8 - São Luis 785m	7516222,012	623517,536	-22,455842	-43,79955444
Rota 8 - São Luis 785m	7516277,552	623468,813	-22,45534388	-43,80003221
Rota 8 - São Luis 785m	7516309,889	623444,151	-22,4550536	-43,80027437
Rota 8 - São Luis 785m	7516320,479	623429,84	-22,45495898	-43,80041426
Rota 8 - São Luis 785m	7516321,58	623418,907	-22,45494983	-43,80052058
Rota 8 - São Luis 785m	7516273,843	623347,886	-22,45538612	-43,80120699
Rota 8 - São Luis 785m	7516265,505	623323,762	-22,45546317	-43,80144076
Rota 8 - São Luis 516m	7516180,166	623580,265	-22,45621542	-43,79894163
Rota 8 - São Luis 516m	7516195,347	623590,625	-22,45607755	-43,79884215
Rota 8 - São Luis 516m	7516203,9	623605,272	-22,45599924	-43,79870048
Rota 8 - São Luis 516m	7516200,66	623615,258	-22,45602778	-43,7986032
Rota 8 - São Luis 516m	7516189,416	623619,81	-22,45612901	-43,79855809
Rota 8 - São Luis 516m	7516169,627	623628,368	-22,45630713	-43,79847339
Rota 8 - São Luis 516m	7516164,496	623632,942	-22,45635314	-43,79842855
Rota 8 - São Luis 516m	7516162,509	623641,752	-22,45637045	-43,79834278
Rota 8 - São Luis 516m	7516159,266	623672,303	-22,45639753	-43,79804566
Rota 8 - São Luis 516m	7516157,524	623694,864	-22,45641163	-43,79782629
Rota 8 - São Luis 516m	7516156,296	623719,022	-22,45642097	-43,79759144
Rota 8 - São Luis 516m	7516153,892	623749,658	-22,45644046	-43,79729357
Rota 8 - São Luis 516m	7516149,335	623764,368	-22,45648056	-43,79715027
Rota 8 - São Luis 516m	7516135,763	623776,626	-22,45660225	-43,7970301
Rota 8 - São Luis 516m	7516117,618	623786,792	-22,45676541	-43,79692989
Rota 8 - São Luis 516m	7516106,786	623791,688	-22,45686289	-43,79688148
Rota 8 - São Luis 516m	7516104,449	623803,46	-22,45688314	-43,7967669
Rota 8 - São Luis 516m	7516097,854	623837,534	-22,45694024	-43,79643528
Rota 8 - São Luis 516m	7516094,216	623858,291	-22,45697159	-43,79623329
Rota 8 - São Luis 516m	7516093,12	623888,811	-22,45697928	-43,79593665
Rota 8 - São Luis 516m	7516091,637	623907,554	-22,45699131	-43,79575439
Rota 8 - São Luis 516m	7516091,746	623919,841	-22,45698944	-43,795635
Rota 8 - São Luis 516m	7516059,41	624031,439	-22,4572734	-43,79454805
Rota 8 - São Luis 50,7m	7516164,95	623633,043	-22,45634903	-43,7984276
Rota 8 - São Luis 50,7m	7516155,391	623635,672	-22,45643518	-43,79840131
Rota 8 - São Luis 50,7m	7516132,374	623639,137	-22,45664282	-43,79836585
Rota 8 - São Luis 50,7m	7516115,874	623645,085	-22,45679142	-43,79830676
Rota 8 - São Luis 247m	7516185,124	623976,577	-22,45614192	-43,79509098
Rota 8 - São Luis 247m	7516162,616	623952,552	-22,45634696	-43,79532268
Rota 8 - São Luis 247m	7516144,111	623935,853	-22,45651531	-43,7954835
Rota 8 - São Luis 247m	7516122,119	623927,171	-22,45671458	-43,79556615

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 8 - São Luis 247m	7516091,755	623917,319	-22,45698954	-43,79565951
Rota 8 - São Luis 247m	7516100,621	623915,54	-22,45690959	-43,7956775
Rota 8 - São Luis 247m	7516107,565	623908,477	-22,45684738	-43,79574667
Rota 8 - São Luis 247m	7516122,587	623893,187	-22,45671281	-43,79589642
Rota 8 - São Luis 247m	7516140,155	623873,889	-22,45655554	-43,79608531
Rota 8 - São Luis 247m	7516154,198	623852,636	-22,45643024	-43,79629292
Rota 8 - São Luis 247m	7516181,346	623820,683	-22,45618735	-43,79660554
Rota 8 - São Luis 18,9m	7516096,431	623847,683	-22,45695235	-43,79633655
Rota 8 - São Luis 18,9m	7516079,031	623840,278	-22,45711005	-43,79640715
Rota 8 - Vale do Ipiranga 334m	7517801,661	625585,082	-22,44142387	-43,77958866
Rota 8 - Vale do Ipiranga 334m	7517779,488	625595,807	-22,44162335	-43,7794827
Rota 8 - Vale do Ipiranga 334m	7517756,304	625604,007	-22,44183215	-43,77940119
Rota 8 - Vale do Ipiranga 334m	7517711,938	625614,838	-22,44223207	-43,77929245
Rota 8 - Vale do Ipiranga 334m	7517683,493	625613,435	-22,44248909	-43,77930384
Rota 8 - Vale do Ipiranga 334m	7517656,211	625602,181	-22,44273632	-43,77941102
Rota 8 - Vale do Ipiranga 334m	7517639,287	625577,001	-22,44289103	-43,77965434
Rota 8 - Vale do Ipiranga 334m	7517552,564	625483,037	-22,44368121	-43,78056047
Rota 8 - Vale do Ipiranga 334m	7517536,902	625466,797	-22,44382387	-43,78071702
Rota 8 - Vale do Ipiranga 1,876m	7517537,384	625467,292	-22,44381947	-43,78071226
Rota 8 - Vale do Ipiranga 1,876m	7517557,249	625444,306	-22,44364175	-43,78093716
Rota 8 - Vale do Ipiranga 1,876m	7517595,531	625407,529	-22,44329867	-43,78129752
Rota 8 - Vale do Ipiranga 1,876m	7517596,535	625406,064	-22,44328972	-43,78131183
Rota 8 - Vale do Ipiranga 1,876m	7517656,585	625347,49	-22,44275164	-43,78188569
Rota 8 - Vale do Ipiranga 1,876m	7517625,571	625309,824	-22,44303452	-43,78224921
Rota 8 - Vale do Ipiranga 1,876m	7517501,888	625428,363	-22,44414294	-43,7810877
Rota 8 - Vale do Ipiranga 1,876m	7517465,487	625392,576	-22,44447433	-43,78143254
Rota 8 - Vale do Ipiranga 1,876m	7517591,538	625274,201	-22,44334451	-43,78259265
Rota 8 - Vale do Ipiranga 1,876m	7517557,61	625233,207	-22,44365396	-43,78298828
Rota 8 - Vale do Ipiranga 1,876m	7517432,616	625350,831	-22,44477429	-43,78183556
Rota 8 - Vale do Ipiranga 1,876m	7517426,624	625334,933	-22,44482957	-43,78198956
Rota 8 - Vale do Ipiranga 1,876m	7517434,529	625282,365	-22,44476202	-43,78250095
Rota 8 - Vale do Ipiranga 1,876m	7517526,493	625195,375	-22,44393778	-43,78335342
Rota 8 - Vale do Ipiranga 1,876m	7517477,068	625131,515	-22,44438886	-43,78397001
Rota 8 - Vale do Ipiranga 1,876m	7517419,413	625181,85	-22,44490592	-43,7834764
Rota 8 - Vale do Ipiranga 1,876m	7517394,364	625139,281	-22,44513528	-43,78388805
Rota 8 - Vale do Ipiranga 1,876m	7517449,233	625087,761	-22,44464347	-43,78439295
Rota 8 - Vale do Ipiranga 1,876m	7517423,307	625046,361	-22,44488067	-43,78479316
Rota 8 - Vale do Ipiranga 1,876m	7517365,162	625101,841	-22,44540177	-43,78424952
Rota 8 - Vale do Ipiranga 1,876m	7517433,966	625221,025	-22,4447716	-43,78309691
Rota 8 - Vale do Ipiranga 1,876m	7517436,155	625247,568	-22,44474989	-43,78283918
Rota 8 - Vale do Ipiranga 1,876m	7517422,529	625334,401	-22,44486659	-43,7819944
Rota 8 - Vale do Ipiranga 1,876m	7517438,526	625370,952	-22,44471943	-43,78164052
Rota 8 - Vale do Ipiranga 1,876m	7517537,384	625467,292	-22,44381947	-43,78071226

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 8 - Vazador 10,310m	7516308,888	627523,604	-22,45476304	-43,76063402
Rota 8 - Vazador 10,310m	7516302,133	627511,738	-22,45482493	-43,76074878
Rota 8 - Vazador 10,310m	7516286,421	627503,691	-22,45496744	-43,76082571
Rota 8 - Vazador 10,310m	7516265,849	627502,261	-22,45515336	-43,76083795
Rota 8 - Vazador 10,310m	7516243,592	627512,069	-22,45535365	-43,76074086
Rota 8 - Vazador 10,310m	7516222,04	627522,68	-22,45554751	-43,76063602
Rota 8 - Vazador 10,310m	7516193,556	627536,77	-22,45580372	-43,76049682
Rota 8 - Vazador 10,310m	7516156,585	627563,829	-22,45613562	-43,76023092
Rota 8 - Vazador 10,310m	7516156,585	627563,829	-22,45613562	-43,76023092
Rota 8 - Vazador 10,310m	7516133,862	627579,767	-22,45633966	-43,76007423
Rota 8 - Vazador 10,310m	7516109,297	627588,736	-22,45656086	-43,7599851
Rota 8 - Vazador 10,310m	7516061,288	627630,843	-22,45699133	-43,75957208
Rota 8 - Vazador 10,310m	7516026,606	627659,399	-22,45730245	-43,75929181
Rota 8 - Vazador 10,310m	7516002,877	627676,923	-22,45751545	-43,75911962
Rota 8 - Vazador 10,310m	7515997,543	627702,595	-22,45756171	-43,75886973
Rota 8 - Vazador 10,310m	7515988,541	627753,721	-22,45763919	-43,7583722
Rota 8 - Vazador 10,310m	7515984,647	627797,28	-22,45767111	-43,75794862
Rota 8 - Vazador 10,310m	7515972,569	627820,6	-22,45777845	-43,75772105
Rota 8 - Vazador 10,310m	7515932,944	627880,541	-22,45813185	-43,7571354
Rota 8 - Vazador 10,310m	7515919,409	627919,165	-22,45825121	-43,75675899
Rota 8 - Vazador 10,310m	7515921,015	627962,173	-22,45823348	-43,7563412
Rota 8 - Vazador 10,310m	7515914,448	627989,414	-22,45829076	-43,75607596
Rota 8 - Vazador 10,310m	7515893,993	628023,988	-22,45847291	-43,75573836
Rota 8 - Vazador 10,310m	7515870,578	628038,391	-22,45868331	-43,75559651
Rota 8 - Vazador 10,310m	7515836,822	628046,814	-22,45898757	-43,75551194
Rota 8 - Vazador 10,310m	7515820,39	628058,008	-22,45913514	-43,75540184
Rota 8 - Vazador 10,310m	7515808,837	628081,852	-22,4592377	-43,75516921
Rota 8 - Vazador 10,310m	7515802,47	628116,667	-22,45929259	-43,75483039
Rota 8 - Vazador 10,310m	7515792,848	628147,918	-22,45937715	-43,75452594
Rota 8 - Vazador 10,310m	7515777,13	628173,925	-22,45951716	-43,75427196
Rota 8 - Vazador 10,310m	7515754,495	628195,176	-22,45972001	-43,75406362
Rota 8 - Vazador 10,310m	7515735,803	628202,602	-22,45988828	-43,75398996
Rota 8 - Vazador 10,310m	7515691,33	628207,851	-22,46028956	-43,75393536
Rota 8 - Vazador 10,310m	7515647,004	628204,351	-22,46069017	-43,75396579
Rota 8 - Vazador 10,310m	7515615,09	628217,445	-22,46097743	-43,75383597
Rota 8 - Vazador 10,310m	7515565,165	628229,531	-22,46142744	-43,75371449
Rota 8 - Vazador 10,310m	7515522,46	628247,552	-22,46181118	-43,75353593
Rota 8 - Vazador 10,310m	7515493,017	628270,801	-22,46207598	-43,75330763
Rota 8 - Vazador 10,310m	7515465,505	628278,776	-22,46232386	-43,75322791
Rota 8 - Vazador 10,310m	7515433,969	628273,405	-22,4626091	-43,75327755
Rota 8 - Vazador 10,310m	7515374,34	628241,302	-22,46315007	-43,75358469
Rota 8 - Vazador 10,310m	7515314,513	628210,099	-22,46369277	-43,75388308
Rota 8 - Vazador 10,310m	7515122,927	628178,815	-22,4654255	-43,75417161



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 8 - Vazador 10,310m	7515039,039	628161,936	-22,46618444	-43,75432887
Rota 8 - Vazador 10,310m	7515010,861	628184,802	-22,46643722	-43,75410438
Rota 8 - Vazador 10,310m	7514961,037	628239,937	-22,46688309	-43,75356456
Rota 8 - Vazador 10,310m	7514954,333	628309,732	-22,4669384	-43,75288578
Rota 8 - Vazador 10,310m	7514956,244	628362,703	-22,46691715	-43,75237117
Rota 8 - Vazador 10,310m	7514935,699	628379,033	-22,46710149	-43,75221081
Rota 8 - Vazador 10,310m	7514895,871	628413,36	-22,46745863	-43,75187401
Rota 8 - Vazador 10,310m	7514870,517	628451,856	-22,46768472	-43,75149786
Rota 8 - Vazador 10,310m	7514831,415	628473,629	-22,46803625	-43,7512831
Rota 8 - Vazador 10,310m	7514763,078	628523,256	-22,46864973	-43,7507953
Rota 8 - Vazador 10,310m	7514721,46	628543,091	-22,46902413	-43,75059918
Rota 8 - Vazador 10,310m	7514652,19	628533,765	-22,46965047	-43,75068419
Rota 8 - Vazador 10,310m	7514595,861	628533,603	-22,47015924	-43,75068121
Rota 8 - Vazador 10,310m	7514567,369	628532,349	-22,47041667	-43,75069108
Rota 8 - Vazador 10,310m	7514535,954	628544,935	-22,47069945	-43,75056623
Rota 8 - Vazador 10,310m	7514497,944	628585,791	-22,47103968	-43,75016611
Rota 8 - Vazador 10,310m	7514462,327	628612,076	-22,47135939	-43,74990778
Rota 8 - Vazador 10,310m	7514423,855	628627,041	-22,47170574	-43,74975924
Rota 8 - Vazador 10,310m	7514396,272	628649,118	-22,4719532	-43,74954245
Rota 8 - Vazador 10,310m	7514370,435	628681,517	-22,47218411	-43,74922549
Rota 8 - Vazador 10,310m	7514370,412	628682,54	-22,47218425	-43,74921555
Rota 8 - Vazador 10,310m	7514341,196	628734,578	-22,4724442	-43,74870747
Rota 8 - Vazador 10,310m	7514313,687	628779,17	-22,4726893	-43,74827188
Rota 8 - Vazador 10,310m	7514288,852	628799,884	-22,47291204	-43,74806857
Rota 8 - Vazador 10,310m	7514272,562	628817,028	-22,47305787	-43,74790063
Rota 8 - Vazador 10,310m	7514257,722	628831,536	-22,47319081	-43,74775844
Rota 8 - Vazador 10,310m	7514240,221	628843,826	-22,47334795	-43,74763758
Rota 8 - Vazador 10,310m	7514237,094	628859,471	-22,47337501	-43,74748528
Rota 8 - Vazador 10,310m	7514248,713	628865,503	-22,47326962	-43,74742761
Rota 8 - Vazador 10,310m	7514270,449	628873,435	-22,4730727	-43,74735229
Rota 8 - Vazador 10,310m	7514293,442	628880,679	-22,47286448	-43,74728375
Rota 8 - Vazador 10,310m	7514319,681	628894,983	-22,47262641	-43,74714688
Rota 8 - Vazador 10,310m	7514345,978	628919,85	-22,47238702	-43,74690735
Rota 8 - Vazador 10,310m	7514345,978	628919,85	-22,47238702	-43,74690735
Rota 8 - Vazador 10,310m	7514541,239	629058,206	-22,470613	-43,74557867
Rota 8 - Vazador 10,310m	7514651,278	629197,173	-22,46960864	-43,74423715
Rota 8 - Vazador 10,310m	7514743,257	629285,29	-22,46877123	-43,74338832
Rota 8 - Vazador 10,310m	7514771,108	629338,546	-22,46851564	-43,74287305
Rota 8 - Vazador 10,310m	7514778,936	629467,856	-22,46843514	-43,74161708
Rota 8 - Vazador 10,310m	7514867,444	629539,03	-22,46763035	-43,74093265
Rota 8 - Vazador 10,310m	7514898,488	629629,342	-22,46734311	-43,74005755
Rota 8 - Vazador 10,310m	7514924,85	629703,679	-22,46709937	-43,73933731
Rota 8 - Vazador 10,310m	7514988,564	629794,688	-22,466517	-43,73845812

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 8 - Vazador 10,310m	7515072,943	629912,829	-22,46574592	-43,73731697
Rota 8 - Vazador 10,310m	7515083,779	629993,456	-22,46564191	-43,73653435
Rota 8 - Vazador 10,310m	7515087,049	630101,895	-22,46560413	-43,73548085
Rota 8 - Vazador 10,310m	7515091,507	630204,884	-22,46555601	-43,7344804
Rota 8 - Vazador 10,310m	7515127,286	630292,813	-22,46522615	-43,73362888
Rota 8 - Vazador 10,310m	7515182,745	630385,507	-22,46471819	-43,73273268
Rota 8 - Vazador 10,310m	7515237,377	630445,913	-22,46422015	-43,73215017
Rota 8 - Vazador 10,310m	7515374,717	630493,677	-22,46297606	-43,7316973
Rota 8 - Vazador 10,310m	7515530,803	630543,526	-22,46156252	-43,73122573
Rota 8 - Vazador 10,310m	7515621,402	630590,519	-22,46074064	-43,73077654
Rota 8 - Vazador 10,310m	7515776,87	630704,649	-22,45932775	-43,72968031
Rota 8 - Vazador 10,310m	7516334,159	631098,134	-22,45426427	-43,72590275
Rota 8 - Vazador 10,310m	7516335,246	631098,146	-22,45425446	-43,72590273
Rota 8 - Vazador 10,310m	7516925,274	631516,301	-22,4488933	-43,72188844
Rota 8 - Vazador 10,310m	7516999,007	631584,512	-22,44822211	-43,72123179
Rota 8 - Vazador 10,310m	7517073,039	631664,028	-22,44754735	-43,72046532
Rota 8 - Vazador 10,310m	7517300,752	631903,744	-22,4454722	-43,71815506
Rota 8 - Vazador 10,310m	7517715,629	632336,368	-22,44169168	-43,71398616
Rota 8 - Vazador 10,310m	7518104,523	632743,381	-22,43814773	-43,71006415
Rota 8 - Vazador 10,310m	7518218,669	632909,069	-22,43710392	-43,70846394
Rota 8 - Vazador 10,310m	7518263,652	633028,609	-22,43668834	-43,7073063
Rota 8 - Vazador 10,310m	7518323,419	633132,646	-22,43614045	-43,70630053
Rota 8 - Vazador 10,310m	7518493,797	633346,195	-22,434585	-43,70424009
Rota 8 - Vazador 10,310m	7518558,678	633435,321	-22,43399205	-43,70337965
Rota 8 - Vazador 10,310m	7518662,216	633611,83	-22,43304315	-43,70167351
Rota 8 - Vazador 10,310m	7518754,538	633772,531	-22,43219676	-43,70012002
Rota 8 - Vazador 10,310m	7518859,026	633868,403	-22,43124555	-43,69919741
Rota 8 - Vazador 10,310m	7518947,132	633960,092	-22,43044262	-43,69831407
Rota 8 - Vazador 10,310m	7519047,153	634060,278	-22,42953141	-43,69734918
Rota 8 - Vazador 10,310m	7519100,262	634117,82	-22,42904723	-43,69679465
VAZADOR 15,050m	7528942,628	643096,33	-22,3394288	-43,61045394
VAZADOR 15,050m	7528819,224	642995,601	-22,34055171	-43,61142081
VAZADOR 15,050m	7528637,451	643153,515	-22,34218025	-43,60987143
VAZADOR 15,050m	7528531,818	643236,887	-22,34312733	-43,60905255
VAZADOR 15,050m	7528507,223	643267,624	-22,34334689	-43,60875192
VAZADOR 15,050m	7528465,219	643301,83	-22,3437234	-43,60841606
VAZADOR 15,050m	7528424,232	643336,562	-22,34409067	-43,60807519
VAZADOR 15,050m	7528392,189	643353,231	-22,34437868	-43,60791048
VAZADOR 15,050m	7528362,222	643373,381	-22,34464765	-43,60771216
VAZADOR 15,050m	7528341,025	643399,885	-22,34483688	-43,60745294
VAZADOR 15,050m	7528318,175	643426,134	-22,34504105	-43,60719605
VAZADOR 15,050m	7528301,956	643441,711	-22,34518624	-43,60704335
VAZADOR 15,050m	7528280,803	643462,285	-22,34537557	-43,60684171

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
VAZADOR 15,050m	7528270,38	643477,312	-22,34546844	-43,60669488
VAZADOR 15,050m	7528230,68	643517,51	-22,34582364	-43,60630104
VAZADOR 15,050m	7528209,579	643527,974	-22,34601334	-43,60619755
VAZADOR 15,050m	7528183,475	643544,061	-22,34624775	-43,60603902
VAZADOR 15,050m	7528158,589	643557,117	-22,34647142	-43,60591002
VAZADOR 15,050m	7528138,905	643564,136	-22,3466486	-43,60584012
VAZADOR 15,050m	7528109,435	643568,577	-22,34691439	-43,60579435
VAZADOR 15,050m	7528069,333	643582,65	-22,3472754	-43,60565411
VAZADOR 15,050m	7528048,77	643596,678	-22,34745994	-43,60551607
VAZADOR 15,050m	7528021,677	643599,654	-22,34770438	-43,60548474
VAZADOR 15,050m	7527989,468	643600,9	-22,34799517	-43,60546974
VAZADOR 15,050m	7527961,26	643587,728	-22,34825104	-43,6055951
VAZADOR 15,050m	7527939,297	643573,313	-22,3484506	-43,60573308
VAZADOR 15,050m	7527927,993	643557,081	-22,34855405	-43,60588967
VAZADOR 15,050m	7527914,867	643516,521	-22,34867599	-43,60628228
VAZADOR 15,050m	7527892,501	643478,505	-22,34888116	-43,60664936
VAZADOR 15,050m	7527868,788	643457,685	-22,34909706	-43,60684938
VAZADOR 15,050m	7527847,279	643440,01	-22,34929279	-43,60701905
VAZADOR 15,050m	7527822,532	643438,927	-22,34951639	-43,60702735
VAZADOR 15,050m	7527713,714	643439,542	-22,35049912	-43,60701161
VAZADOR 15,050m	7527682,861	643443,284	-22,35077746	-43,60697251
VAZADOR 15,050m	7527653,37	643444,421	-22,35104372	-43,60695882
VAZADOR 15,050m	7527638,64	643450,446	-22,35117625	-43,606899
VAZADOR 15,050m	7527632,425	643468,243	-22,35123089	-43,60672565
VAZADOR 15,050m	7527630,367	643486,596	-22,35124794	-43,60654727
VAZADOR 15,050m	7527628,685	643501,598	-22,35126188	-43,60640146
VAZADOR 15,050m	7527622,966	643513,729	-22,35131252	-43,60628316
VAZADOR 15,050m	7527592,074	643554,994	-22,35158807	-43,60587975
VAZADOR 15,050m	7527574,56	643567,006	-22,35174524	-43,60576154
VAZADOR 15,050m	7527558,586	643564,993	-22,35188969	-43,60577965
VAZADOR 15,050m	7527540,482	643563,61	-22,3520533	-43,60579145
VAZADOR 15,050m	7527523,545	643559,678	-22,3522066	-43,60582811
VAZADOR 15,050m	7527499,826	643574,724	-22,35241956	-43,60567989
VAZADOR 15,050m	7527487,145	643587,411	-22,35253302	-43,60555556
VAZADOR 15,050m	7527466,279	643594,831	-22,35272085	-43,60548165
VAZADOR 15,050m	7527449,493	643594,383	-22,3528725	-43,60548449
VAZADOR 15,050m	7527436,053	643596,288	-22,35299372	-43,60546478
VAZADOR 15,050m	7527391,213	643614,278	-22,35339719	-43,60528608
VAZADOR 15,050m	7527372,892	643628,876	-22,35356144	-43,6051427
VAZADOR 15,050m	7527351,422	643641,56	-22,35375428	-43,60501762
VAZADOR 15,050m	7527331,226	643645,425	-22,35393635	-43,60497827
VAZADOR 15,050m	7527311,918	643643,611	-22,35411089	-43,60499415
VAZADOR 15,050m	7527293,665	643636,681	-22,35427632	-43,60505979

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
VAZADOR 15,050m	7527271,575	643628,105	-22,35447654	-43,60514107
VAZADOR 15,050m	7527252,324	643624,437	-22,35465071	-43,60517495
VAZADOR 15,050m	7527214,043	643606,217	-22,35499797	-43,60534842
VAZADOR 15,050m	7527200,697	643590,614	-22,35511981	-43,60549872
VAZADOR 15,050m	7527185,843	643572,676	-22,35525547	-43,60567155
VAZADOR 15,050m	7527165,867	643559,818	-22,35543695	-43,6057946
VAZADOR 15,050m	7527152,57	643546,265	-22,35555818	-43,605925
VAZADOR 15,050m	7527137,769	643535,522	-22,35569275	-43,60602797
VAZADOR 15,050m	7527124,616	643520,795	-22,35581277	-43,60616978
VAZADOR 15,050m	7527031,562	643424,376	-22,35666125	-43,60709761
VAZADOR 15,050m	7527016,637	643398,528	-22,3567982	-43,60734724
VAZADOR 15,050m	7526977,785	643360,63	-22,35715226	-43,60771173
VAZADOR 15,050m	7526960,233	643354,791	-22,35731126	-43,60776684
VAZADOR 15,050m	7526915,359	643365,654	-22,35771564	-43,60765734
VAZADOR 15,050m	7526881,764	643376,33	-22,35801815	-43,60755066
VAZADOR 15,050m	7526856,179	643370,962	-22,35824968	-43,60760049
VAZADOR 15,050m	7526835,424	643340,388	-22,35843968	-43,60789549
VAZADOR 15,050m	7526745,928	643168,409	-22,35926231	-43,60955732
VAZADOR 15,050m	7526698,181	643122,962	-22,35969733	-43,60999433
VAZADOR 15,050m	7526661,423	643113,357	-22,3600301	-43,6100843
VAZADOR 15,050m	7526575,901	643059,563	-22,36080698	-43,61059896
VAZADOR 15,050m	7526444,369	643026,837	-22,36199764	-43,61090495
VAZADOR 15,050m	7526375,983	642979,916	-22,36261918	-43,61135442
VAZADOR 15,050m	7526344,629	642917,147	-22,36290758	-43,6119611
VAZADOR 15,050m	7526250,351	642845,474	-22,36376501	-43,61264861
VAZADOR 15,050m	7526158,003	642779,242	-22,36460457	-43,61328347
VAZADOR 15,050m	7526052,809	642695,846	-22,36556156	-43,61408385
VAZADOR 15,050m	7525944,43	642641,729	-22,36654489	-43,61459965
VAZADOR 15,050m	7525826,206	642506,82	-22,36762384	-43,6158991
VAZADOR 15,050m	7525757,4	642415,103	-22,36825287	-43,61678356
VAZADOR 15,050m	7525660,554	642261,734	-22,36914026	-43,61826421
VAZADOR 15,050m	7525514,938	642032,076	-22,37047442	-43,62048134
VAZADOR 15,050m	7525192,885	641549,073	-22,37342297	-43,62514301
VAZADOR 15,050m	7524970,391	641198,246	-22,37546135	-43,62853013
VAZADOR 15,050m	7524742,805	640687,643	-22,37755876	-43,6334685
VAZADOR 15,050m	7524740,863	640594,412	-22,37758395	-43,63437371
VAZADOR 15,050m	7524773,439	640477,487	-22,37729931	-43,63551205
VAZADOR 15,050m	7524768,487	640380,52	-22,37735198	-43,63645327
VAZADOR 15,050m	7524662,234	640209,748	-22,37832557	-43,63810231
VAZADOR 15,050m	7524559,994	640136,352	-22,37925497	-43,6388061
VAZADOR 15,050m	7524395,218	640088,458	-22,38074707	-43,63925674
VAZADOR 15,050m	7524301,745	640012,568	-22,38159747	-43,63998552
VAZADOR 15,050m	7524065,348	639772,943	-22,38375206	-43,6422919

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
VAZADOR 15,050m	7523626,987	639313,465	-22,38774855	-43,64671587
VAZADOR 15,050m	7523299,495	638957,477	-22,39073524	-43,65014463
VAZADOR 15,050m	7522912,026	638527,944	-22,39426948	-43,65428262
VAZADOR 15,050m	7522863,065	638429,571	-22,39471962	-43,65523381
VAZADOR 15,050m	7522816,692	638340,212	-22,39514566	-43,65609767
VAZADOR 15,050m	7522752,428	638256,667	-22,39573281	-43,65690352
VAZADOR 15,050m	7522557,314	638052,001	-22,39751151	-43,65887443
VAZADOR 15,050m	7522275,711	637766,165	-22,40007786	-43,66162629
VAZADOR 15,050m	7522238,864	637716,961	-22,4004146	-43,66210101
VAZADOR 15,050m	7522217,657	637633,537	-22,40061284	-43,66290946
VAZADOR 15,050m	7522202,901	637544,304	-22,40075328	-43,66377489
VAZADOR 15,050m	7522179,728	637475,663	-22,40096807	-43,6644396
VAZADOR 15,050m	7522142,391	637437,333	-22,40130837	-43,66480867
VAZADOR 15,050m	7522096,023	637394,884	-22,40173055	-43,66521697
VAZADOR 15,050m	7522023,113	637336,043	-22,40239377	-43,6657822
VAZADOR 15,050m	7521895,755	637253,325	-22,40355065	-43,66657467
VAZADOR 15,050m	7521755,063	637147,707	-22,4048298	-43,66758843
VAZADOR 15,050m	7521711,443	637106,131	-22,40522708	-43,6679885
VAZADOR 15,050m	7521595,174	636975,014	-22,40628768	-43,66925206
VAZADOR 15,050m	7521551,645	636928,014	-22,40668457	-43,66970485
VAZADOR 15,050m	7521512,087	636910,925	-22,40704322	-43,66986743
VAZADOR 15,050m	7521436,335	636874,983	-22,40773026	-43,67021004
VAZADOR 15,050m	7521434,019	636874,962	-22,40775117	-43,67021004
VAZADOR 15,050m	7521380,176	636855,959	-22,40823899	-43,67039
VAZADOR 15,050m	7521305,934	636829,027	-22,40891167	-43,67064522
VAZADOR 15,050m	7521225,885	636781,978	-22,4096384	-43,67109536
VAZADOR 15,050m	7521155,923	636722,749	-22,410275	-43,67166467
VAZADOR 15,050m	7521109,231	636663,046	-22,41070148	-43,67224058
VAZADOR 15,050m	7521071,648	636620,491	-22,41104431	-43,67265073
VAZADOR 15,050m	7520871,311	636405,045	-22,41287087	-43,67472631
VAZADOR 15,050m	7520731,51	636253,503	-22,41414557	-43,67618638
VAZADOR 15,050m	7520525,657	636030,976	-22,41602247	-43,67833038
VAZADOR 15,050m	7520487,749	635981,196	-22,4163688	-43,67881071
VAZADOR 15,050m	7520452,678	635923,183	-22,41669015	-43,67937125
VAZADOR 15,050m	7520410,18	635848,277	-22,41707993	-43,68009526
VAZADOR 15,050m	7520270,08	635582,503	-22,41836634	-43,68266507
VAZADOR 15,050m	7520204,095	635494,896	-22,41896924	-43,68351048
VAZADOR 15,050m	7520139,933	635416,805	-22,4195549	-43,68426361
VAZADOR 15,050m	7520105,485	635372,268	-22,41986956	-43,68469332
VAZADOR 15,050m	7519829,578	635045,979	-22,42238725	-43,68783956
VAZADOR 15,050m	7519587,547	634760,887	-22,42459568	-43,69058858
VAZADOR 15,050m	7519320,147	634434,08	-22,42703646	-43,69374079
VAZADOR 15,050m	7519100,164	634117,599	-22,42904813	-43,69679678

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
InÃ-cio da Rota 9	7513546,391	621570,435	-22,48014818	-43,8182699
Rota 9 - Principal 750m	7513547,136	621571,179	-22,48014139	-43,81826273
Rota 9 - Principal 750m	7513532,746	621583,517	-22,48027049	-43,81814171
Rota 9 - Principal 750m	7513526,137	621586,845	-22,48032995	-43,81810886
Rota 9 - Principal 750m	7513512,844	621585,329	-22,48045012	-43,81812258
Rota 9 - Principal 750m	7513466,657	621569,036	-22,48086845	-43,81827739
Rota 9 - Principal 750m	7513387,355	621539,272	-22,48158683	-43,81856059
Rota 9 - Principal 750m	7513244,271	621493,978	-22,4828824	-43,81898984
Rota 9 - Principal 750m	7513208,45	621485,407	-22,48320655	-43,8190704
Rota 9 - Principal 750m	7513167,867	621481,397	-22,48357339	-43,81910626
Rota 9 - Principal 750m	7513128,209	621480,584	-22,48393164	-43,81911113
Rota 9 - Principal 750m	7513097,519	621479,604	-22,4842089	-43,8191183
Rota 9 - Principal 750m	7513080,453	621482,374	-22,48436285	-43,81909007
Rota 9 - Principal 750m	7513070,747	621489,73	-22,48444999	-43,81901783
Rota 9 - Principal 750m	7513066,242	621494,657	-22,48449033	-43,8189696
Rota 9 - Principal 750m	7513048,46	621489,554	-22,4846513	-43,81901784
Rota 9 - Principal 750m	7513030,48	621485,941	-22,48481395	-43,81905157
Rota 9 - Principal 750m	7513008,092	621485,78	-22,48501618	-43,81905142
Rota 9 - Principal 750m	7512992,476	621489,86	-22,48515694	-43,81901057
Rota 9 - Principal 750m	7512955,872	621503,198	-22,4854866	-43,81887813
Rota 9 - Principal 750m	7512936,789	621516,436	-22,48565801	-43,818748
Rota 9 - Principal 750m	7512922,932	621530,654	-22,48578216	-43,81860875
Rota 9 - Principal 750m	7512912,803	621540,93	-22,48587291	-43,81850809
Rota 9 - Principal 750m	7512903,134	621553,933	-22,48595932	-43,81838097
Rota 9 - Principal 750m	7512894,737	621565,429	-22,48603434	-43,8182686
Rota 9 - Principal 750m	7512886,329	621574,722	-22,48610962	-43,81817763
Rota 9 - Principal 750m	7512876,961	621584,182	-22,48619356	-43,81808497
Rota 9 - Principal 750m	7512866,429	621593,347	-22,48628803	-43,81799508
Rota 9 - Principal 5,959m	7512866,429	621593,347	-22,48628803	-43,81799508
Rota 9 - Principal 5,959m	7512856,443	621600,528	-22,48637771	-43,81792452
Rota 9 - Principal 5,959m	7512845,78	621615,592	-22,48647295	-43,81777729
Rota 9 - Principal 5,959m	7512840,396	621619,737	-22,48652128	-43,81773659
Rota 9 - Principal 5,959m	7512835,242	621625,579	-22,48656742	-43,81767941
Rota 9 - Principal 5,959m	7512810,237	621641,383	-22,48679214	-43,81752389
Rota 9 - Principal 5,959m	7512785,3	621654,709	-22,48701642	-43,81739245
Rota 9 - Principal 5,959m	7512750,917	621666,161	-22,48732615	-43,81727851
Rota 9 - Principal 5,959m	7512708,428	621675,487	-22,48770926	-43,8171846
Rota 9 - Principal 5,959m	7512641,504	621697,764	-22,48831212	-43,81696294
Rota 9 - Principal 5,959m	7512613,802	621716,084	-22,48856103	-43,81678276
Rota 9 - Principal 5,959m	7512578,188	621741,797	-22,48888086	-43,8165301
Rota 9 - Principal 5,959m	7512454,829	621833,537	-22,4899885	-43,81562895
Rota 9 - Principal 5,959m	7512392,988	621879,188	-22,49054379	-43,81518048
Rota 9 - Principal 5,959m	7512364,688	621904,999	-22,49079755	-43,81492743

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Principal 5,959m	7512348,269	621931,144	-22,49094399	-43,81467205
Rota 9 - Principal 5,959m	7512330,731	621972,221	-22,49109945	-43,81427144
Rota 9 - Principal 5,959m	7512317,326	621987,84	-22,49121941	-43,81411859
Rota 9 - Principal 5,959m	7512276,545	622016,633	-22,49158569	-43,8138356
Rota 9 - Principal 5,959m	7512182,705	622031,562	-22,49243219	-43,81368326
Rota 9 - Principal 5,959m	7512024,486	622048,096	-22,49386005	-43,81351038
Rota 9 - Principal 5,959m	7511975,103	622048,367	-22,49430606	-43,81350394
Rota 9 - Principal 5,959m	7511932,706	622039,71	-22,49468962	-43,81358482
Rota 9 - Principal 5,959m	7511913,631	622042,973	-22,49486167	-43,81355163
Rota 9 - Principal 5,959m	7511843,044	622076,991	-22,49549678	-43,81321554
Rota 9 - Principal 5,959m	7511804,45	622107,217	-22,4958432	-43,81291877
Rota 9 - Principal 5,959m	7511772,59	622125,675	-22,49612964	-43,8127369
Rota 9 - Principal 5,959m	7511738,318	622139,224	-22,49643821	-43,81260256
Rota 9 - Principal 5,959m	7511631,667	622159,92	-22,49740001	-43,81239317
Rota 9 - Principal 5,959m	7511591,247	622168,041	-22,4977645	-43,81231112
Rota 9 - Principal 5,959m	7511564,007	622185,519	-22,49800929	-43,81213913
Rota 9 - Principal 5,959m	7511544,738	622208,349	-22,49818169	-43,81191573
Rota 9 - Principal 5,959m	7511529,5	622230,567	-22,49831773	-43,81169859
Rota 9 - Principal 5,959m	7511517,751	622248,751	-22,49842254	-43,81152093
Rota 9 - Principal 5,959m	7511489,906	622265,206	-22,49867286	-43,81135884
Rota 9 - Principal 5,959m	7511455,608	622266,93	-22,49898252	-43,81133943
Rota 9 - Principal 5,959m	7511398,283	622247,544	-22,49950167	-43,81152345
Rota 9 - Principal 5,959m	7511344,302	622238,241	-22,4999899	-43,81160971
Rota 9 - Principal 5,959m	7511314,935	622238,872	-22,5002551	-43,81160131
Rota 9 - Principal 5,959m	7511288,572	622246,983	-22,50049263	-43,81152043
Rota 9 - Principal 5,959m	7511259,78	622262,828	-22,50075155	-43,81136419
Rota 9 - Principal 5,959m	7511209,479	622285,358	-22,50120425	-43,81114131
Rota 9 - Principal 5,959m	7511180,22	622282,426	-22,50146873	-43,81116755
Rota 9 - Principal 5,959m	7511153,754	622274,643	-22,50170833	-43,81124116
Rota 9 - Principal 5,959m	7511119,5	622231,116	-22,50202083	-43,81166162
Rota 9 - Principal 5,959m	7511106,019	622193,947	-22,50214526	-43,81202188
Rota 9 - Principal 5,959m	7511099,269	622147,565	-22,50220955	-43,81247222
Rota 9 - Principal 5,959m	7511097,773	622068,824	-22,5022287	-43,81323749
Rota 9 - Principal 5,959m	7511093,807	621999,969	-22,50226945	-43,81390649
Rota 9 - Principal 5,959m	7511080,43	621954,38	-22,50239354	-43,81434861
Rota 9 - Principal 5,959m	7511057,631	621910,917	-22,50260257	-43,81476934
Rota 9 - Principal 5,959m	7511033,277	621882,298	-22,50282458	-43,81504566
Rota 9 - Principal 5,959m	7511007,636	621862,743	-22,50305757	-43,81523377
Rota 9 - Principal 5,959m	7510940,069	621843,711	-22,5036692	-43,81541357
Rota 9 - Principal 5,959m	7510905,871	621831,817	-22,50397893	-43,81552655
Rota 9 - Principal 5,959m	7510846,404	621786,873	-22,50451926	-43,81595887
Rota 9 - Principal 5,959m	7510763,603	621708,207	-22,50527274	-43,81671719
Rota 9 - Principal 5,959m	7510739,261	621671,462	-22,50549522	-43,81707251

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Principal 5,959m	7510729,606	621639,883	-22,50558467	-43,81737873
Rota 9 - Principal 5,959m	7510728,299	621603,748	-22,50559906	-43,81772989
Rota 9 - Principal 5,959m	7510728,103	621560,257	-22,50560393	-43,81815264
Rota 9 - Principal 5,959m	7510721,8	621530,62	-22,50566298	-43,81844025
Rota 9 - Principal 5,959m	7510706,486	621506,665	-22,505803	-43,81867193
Rota 9 - Principal 5,959m	7510695,454	621498,939	-22,50590319	-43,8187462
Rota 9 - Principal 5,959m	7510673,177	621489,512	-22,50610507	-43,81883613
Rota 9 - Principal 5,959m	7510643,565	621481,463	-22,50637311	-43,81891209
Rota 9 - Principal 5,959m	7510622,628	621482,295	-22,50656215	-43,8189024
Rota 9 - Principal 5,959m	7510605,138	621483,638	-22,50672003	-43,81888801
Rota 9 - Principal 5,959m	7510588,104	621492,76	-22,50687323	-43,81879803
Rota 9 - Principal 5,959m	7510580,275	621504,874	-22,50694308	-43,81867967
Rota 9 - Principal 5,959m	7510554,788	621544,495	-22,50717045	-43,81829256
Rota 9 - Principal 5,959m	7510549,179	621570,938	-22,50721923	-43,81803508
Rota 9 - Principal 5,959m	7510553,615	621622,869	-22,50717545	-43,81753061
Rota 9 - Principal 5,959m	7510570,043	621703,288	-22,50702134	-43,81675013
Rota 9 - Principal 5,959m	7510584,716	621749,139	-22,50688553	-43,81630555
Rota 9 - Principal 5,959m	7510661,635	621839,626	-22,50618433	-43,81543186
Rota 9 - Principal 5,959m	7510675,98	621877,312	-22,50605207	-43,81506663
Rota 9 - Principal 5,959m	7510685,334	621914,404	-22,50596493	-43,81470678
Rota 9 - Principal 5,959m	7510692,961	621969,023	-22,50589214	-43,81417644
Rota 9 - Principal 5,959m	7510687,88	622005,137	-22,50593544	-43,81382499
Rota 9 - Principal 5,959m	7510676,165	622048,504	-22,50603815	-43,81340253
Rota 9 - Principal 5,959m	7510661,948	622092,071	-22,50616343	-43,81297793
Rota 9 - Principal 5,959m	7510654,486	622122,755	-22,50622864	-43,81267908
Rota 9 - Principal 5,959m	7510621,051	622173,691	-22,50652697	-43,81218137
Rota 9 - Principal 5,959m	7510596,24	622208,172	-22,50674859	-43,81184427
Rota 9 - Principal 5,959m	7510566,061	622222,706	-22,50702013	-43,81170066
Rota 9 - Principal 5,959m	7510532,344	622237,568	-22,5073236	-43,81155358
Rota 9 - Principal 5,959m	7510492,793	622250,515	-22,5076799	-43,81142468
Rota 9 - Principal 5,959m	7510460,804	622254,467	-22,50796853	-43,81138379
Rota 9 - Principal 5,959m	7510392,772	622270,413	-22,50858186	-43,81122352
Rota 9 - Principal 5,959m	7510345,724	622274,356	-22,50900652	-43,81118156
Rota 9 - Principal 5,959m	7510304,219	622283,276	-22,50938076	-43,81109165
Rota 9 - Principal 5,959m	7510264,784	622290,245	-22,50973643	-43,81102086
Rota 9 - Principal 5,959m	7510226,222	622295,593	-22,51008434	-43,81096589
Rota 9 - Principal 5,959m	7510136,816	622315,556	-22,51089043	-43,81076492
Rota 9 - Principal 5,959m	7510087,739	622325,518	-22,51133298	-43,81066429
Rota 9 - Principal 5,959m	7510055,389	622330,18	-22,51162483	-43,81061646
Rota 9 - Principal 5,959m	7510006,834	622340,843	-22,51206262	-43,81050906
Rota 9 - Principal 5,959m	7509974,838	622353,343	-22,51235071	-43,81038507
Rota 9 - Principal 5,959m	7509865,925	622412,188	-22,51333019	-43,80980461
Rota 9 - Principal 5,959m	7509774,162	622461,054	-22,51415548	-43,80932247



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Principal 5,959m	7509700,537	622496,869	-22,51481789	-43,80896861
Rota 9 - Principal 5,959m	7509656,583	622521,83	-22,51521309	-43,80872255
Rota 9 - Principal 5,959m	7509552,437	622583,104	-22,51614933	-43,80811881
Rota 9 - Principal 5,959m	7509517,082	622598,076	-22,51646758	-43,80797052
Rota 9 - Principal 5,959m	7509463,786	622632,864	-22,51694645	-43,80762821
Rota 9 - Principal 5,959m	7509383,614	622693,452	-22,5176662	-43,80703298
Rota 9 - Principal 5,959m	7509345,309	622732,76	-22,51800934	-43,80664788
Rota 9 - Principal 5,959m	7509264,549	622823,365	-22,51873223	-43,80576079
Rota 9 - Principal 5,959m	7509247,159	622854,547	-22,51888706	-43,8054563
Rota 9 - Principal 5,959m	7509211,418	622890,477	-22,51920727	-43,80510423
Rota 9 - Principal 5,959m	7509162,495	622916,112	-22,5196473	-43,80485121
Rota 9 - Principal 5,959m	7509113,563	622929,039	-22,52008832	-43,80472174
Rota 9 - Principal 5,959m	7509052,97	622933,462	-22,52063528	-43,80467404
Rota 9 - Principal 5,959m	7508977,725	622953,786	-22,52131342	-43,8044706
Rota 9 - Principal 5,959m	7508948,053	622969,113	-22,52158032	-43,80431929
Rota 9 - Principal 5,959m	7508912,596	622989,734	-22,52189908	-43,80411606
Rota 9 - Principal 5,959m	7508877,118	623002,742	-22,52221857	-43,80398684
Rota 9 - Principal 5,959m	7508852,478	623009,516	-22,52244063	-43,80391907
Rota 9 - Principal 5,959m	7508824,789	623015,309	-22,5226903	-43,8038606
Rota 9 - Principal 5,959m	7508803,373	623015,062	-22,52288375	-43,80386133
Rota 9 - Principal 5,959m	7508782,01	623014,816	-22,52307672	-43,80386207
Rota 9 - Principal 5,959m	7508735,084	622997,319	-22,52350182	-43,80402852
Rota 9 - Principal 5,959m	7508734,6	622997,314	-22,52350619	-43,80402853
Rota 9 - Principal 5,959m	7508707,115	622984,379	-22,52375537	-43,80415215
Rota 9 - Amã©rica 612m	7513066,066	621494,913	-22,4844919	-43,81896709
Rota 9 - Amã©rica 612m	7513224,882	621564,497	-22,4830525	-43,81830297
Rota 9 - Amã©rica 612m	7513257,521	621580,553	-22,48275656	-43,81814942
Rota 9 - Amã©rica 612m	7513299,232	621593,125	-22,48237893	-43,81803043
Rota 9 - Amã©rica 612m	7513345,454	621604,569	-22,48196063	-43,81792275
Rota 9 - Amã©rica 612m	7513363,37	621608,005	-22,48179856	-43,81789073
Rota 9 - Amã©rica 612m	7513351,13	621610,982	-22,4819089	-43,81786085
Rota 9 - Amã©rica 612m	7513333,379	621613,163	-22,48206908	-43,8178383
Rota 9 - Amã©rica 612m	7513316,915	621613,715	-22,48221775	-43,81783167
Rota 9 - Amã©rica 612m	7513303,375	621613,841	-22,48234003	-43,81782941
Rota 9 - Amã©rica 612m	7513281,523	621616,867	-22,48253719	-43,81779832
Rota 9 - Amã©rica 612m	7513267,51	621617,406	-22,48266371	-43,817792
Rota 9 - Amã©rica 612m	7513252,319	621617,471	-22,48280092	-43,81779021
Rota 9 - Amã©rica 612m	7513236,886	621618,475	-22,48294024	-43,81777926
Rota 9 - Amã©rica 612m	7513224,244	621621,793	-22,48305418	-43,81774605
Rota 9 - Amã©rica 612m	7513192,966	621630,001	-22,48333611	-43,81766387
Rota 9 - Amã©rica 612m	7513181,581	621630,412	-22,4834389	-43,81765901
Rota 9 - Amã©rica 612m	7513173,557	621632,853	-22,48351121	-43,81763467
Rota 9 - Amã©rica 612m	7513165,779	621634,657	-22,48358133	-43,81761654

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Amã©rica 612m	7513156,816	621637,444	-22,48366208	-43,81758876
Rota 9 - Amã©rica 612m	7513148,473	621646,416	-22,48373679	-43,81750092
Rota 9 - Amã©rica 612m	7513141,74	621658,101	-22,48379677	-43,81738684
Rota 9 - Amã©rica 612m	7513138,267	621668,794	-22,48382738	-43,81728264
Rota 9 - Amã©rica 612m	7513137,348	621674,892	-22,48383525	-43,8172233
Rota 9 - Amã©rica 612m	7513141,911	621692,523	-22,48379278	-43,81705229
Rota 9 - Amã©rica 612m	7513150,75	621712,045	-22,48371155	-43,81686324
Rota 9 - Amã©rica 399m	7512865,452	621594,308	-22,48629679	-43,81798566
Rota 9 - Amã©rica 399m	7512872,204	621602,777	-22,4862352	-43,81790387
Rota 9 - Amã©rica 399m	7512889,596	621604,036	-22,48607802	-43,81789296
Rota 9 - Amã©rica 399m	7512913,446	621602,692	-22,4858627	-43,81790786
Rota 9 - Amã©rica 399m	7512983,557	621596,289	-22,48522991	-43,81797547
Rota 9 - Amã©rica 399m	7513065,357	621587,911	-22,48449168	-43,81806317
Rota 9 - Amã©rica 399m	7513129,328	621584,282	-22,48391415	-43,81810334
Rota 9 - Amã©rica 399m	7513182,762	621580,149	-22,48343182	-43,81814762
Rota 9 - Amã©rica 399m	7513224,832	621577,612	-22,48305202	-43,8181755
Rota 9 - Amã©rica 399m	7513259,256	621581,133	-22,48274085	-43,81814391
Rota 9 - 41,7m	7513097,807	621508,855	-22,48420422	-43,81883402
Rota 9 - 41,7m	7513094,064	621521,724	-22,48423711	-43,81870866
Rota 9 - 41,7m	7513090,257	621538,393	-22,48427031	-43,81854636
Rota 9 - 41,7m	7513087,483	621549,234	-22,48429459	-43,81844078
Rota 9 - 132m	7511099,109	622128,865	-22,50221233	-43,81265397
Rota 9 - 132m	7511082,204	622131,188	-22,50236486	-43,81263009
Rota 9 - 132m	7511062,39	622140,85	-22,50254312	-43,81253464
Rota 9 - 132m	7511044,662	622150,174	-22,50270258	-43,81244264
Rota 9 - 132m	7510978,377	622179,254	-22,50329918	-43,81215486
Rota 9 - Ponte do Andrade 245m	7511072,185	621938,263	-22,50246916	-43,81450465
Rota 9 - Ponte do Andrade 245m	7511081,096	621938,354	-22,50238867	-43,81450445
Rota 9 - Ponte do Andrade 245m	7511089,582	621946,671	-22,50231143	-43,81442425
Rota 9 - Ponte do Andrade 245m	7511096,649	621961,133	-22,50224656	-43,81428422
Rota 9 - Ponte do Andrade 245m	7511101,284	621975,482	-22,50220367	-43,81414509
Rota 9 - Ponte do Andrade 245m	7511104,004	621987,539	-22,50217824	-43,8140281
Rota 9 - Ponte do Andrade 245m	7511105,587	622003,135	-22,50216283	-43,81387663
Rota 9 - Ponte do Andrade 245m	7511113,061	622012,243	-22,50209467	-43,81378867
Rota 9 - Ponte do Andrade 245m	7511125,977	622021,145	-22,50197738	-43,81370313
Rota 9 - Ponte do Andrade 245m	7511142,875	622023,697	-22,50182457	-43,81367963
Rota 9 - Ponte do Andrade 245m	7511154,929	622023,714	-22,50171569	-43,81368039
Rota 9 - Ponte do Andrade 245m	7511159,918	622006,485	-22,50167187	-43,81384825
Rota 9 - Ponte do Andrade 245m	7511163,218	621973,239	-22,50164444	-43,81417167
Rota 9 - Ponte do Andrade 245m	7511173,276	621917,617	-22,50155757	-43,81471312
Rota 9 - Ponte do Andrade 245m	7511173,276	621917,617	-22,50155757	-43,81471312
Rota 9 - Ponte Vermelha 711m	7510695,838	621498,918	-22,50589972	-43,81874643
Rota 9 - Ponte Vermelha 711m	7510715,135	621471,02	-22,50572743	-43,8190191

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Ponte Vermelha 711m	7510731,805	621447,919	-22,50557851	-43,81924493
Rota 9 - Ponte Vermelha 711m	7510745,67	621425,873	-22,50545485	-43,8194603
Rota 9 - Ponte Vermelha 711m	7510764,261	621395,625	-22,50528908	-43,81975576
Rota 9 - Ponte Vermelha 711m	7510793,091	621355,068	-22,50503158	-43,82015221
Rota 9 - Ponte Vermelha 711m	7510821,902	621322,614	-22,50477367	-43,82046989
Rota 9 - Ponte Vermelha 711m	7510837,936	621304,13	-22,50463016	-43,8206508
Rota 9 - Ponte Vermelha 711m	7510855,79	621286,501	-22,50447016	-43,82082353
Rota 9 - Ponte Vermelha 711m	7510851,68	621280,937	-22,50450767	-43,8208773
Rota 9 - Ponte Vermelha 711m	7510826,521	621273,326	-22,50473545	-43,82094936
Rota 9 - Ponte Vermelha 711m	7510803,4	621272,165	-22,50494437	-43,82095888
Rota 9 - Ponte Vermelha 711m	7510779,9	621271,071	-22,5051567	-43,82096771
Rota 9 - Ponte Vermelha 711m	7510759,91	621291,132	-22,50533582	-43,82077117
Rota 9 - Ponte Vermelha 711m	7510739,394	621312,004	-22,50551964	-43,82056671
Rota 9 - Ponte Vermelha 711m	7510718,617	621333,177	-22,50570579	-43,8203593
Rota 9 - Ponte Vermelha 711m	7510697,162	621358,738	-22,50589775	-43,82010919
Rota 9 - Ponte Vermelha 711m	7510676,328	621386,359	-22,50608396	-43,81983909
Rota 9 - Ponte Vermelha 711m	7510663,208	621403,527	-22,50620124	-43,8196712
Rota 9 - Ponte Vermelha 711m	7510648,192	621419,499	-22,50633573	-43,81951479
Rota 9 - Ponte Vermelha 711m	7510638,135	621432,346	-22,50642565	-43,81938913
Rota 9 - Ponte Vermelha 711m	7510616,672	621455,251	-22,50661787	-43,81916483
Rota 9 - Ponte Vermelha 711m	7510612,353	621466,631	-22,50665607	-43,81905388
Rota 9 - Ponte Vermelha 711m	7510621,284	621473,135	-22,50657494	-43,81899134
Rota 9 - Ponte Vermelha 711m	7510651,405	621475,5	-22,50630272	-43,81897066
Rota 9 - Ponte Vermelha 711m	7510674,497	621482,375	-22,50609366	-43,8189056
Rota 9 - Ponte Vermelha 711m	7510695,155	621491,285	-22,50590644	-43,81882057
Rota 9 - Ponte Vermelha 711m	7510709,48	621501,119	-22,50577635	-43,81872608
Rota 9 - Roseira 380m	7510709,002	621501,391	-22,50578065	-43,8187234
Rota 9 - Roseira 380m	7510718,806	621510,529	-22,50569145	-43,81863532
Rota 9 - Roseira 380m	7510730,957	621527,431	-22,5055805	-43,81847195
Rota 9 - Roseira 380m	7510738,981	621536,489	-22,50550737	-43,81838452
Rota 9 - Roseira 380m	7510746,425	621541,391	-22,50543979	-43,81833744
Rota 9 - Roseira 380m	7510766,522	621544,112	-22,50525808	-43,81831254
Rota 9 - Roseira 380m	7510794,965	621548,17	-22,5050009	-43,81827527
Rota 9 - Roseira 380m	7510821,458	621550,196	-22,50476146	-43,81825761
Rota 9 - Roseira 380m	7510827,35	621551,812	-22,50470813	-43,81824236
Rota 9 - Roseira 380m	7510836,585	621513,432	-22,50462745	-43,81861614
Rota 9 - Roseira 380m	7510847,905	621480,705	-22,50452754	-43,81893513
Rota 9 - Roseira 380m	7510862,777	621442,315	-22,50439595	-43,81930945
Rota 9 - Roseira 380m	7510878,457	621417,007	-22,50425613	-43,81955666
Rota 9 - Roseira 380m	7510903,093	621391,902	-22,50403541	-43,81980259
Rota 9 - Roseira 380m	7510918,661	621380,386	-22,50389562	-43,81991573
Rota 9 - Roseira 380m	7510957,315	621360,816	-22,50354788	-43,82010892
Rota 9 - Roseira 2,957m	7510835,505	621517,737	-22,5046369	-43,81857421

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Roseira 2,957m	7510853,784	621525,229	-22,50447127	-43,81850279
Rota 9 - Roseira 2,957m	7510895,419	621535,374	-22,50409449	-43,81840736
Rota 9 - Roseira 2,957m	7510912,335	621539,323	-22,50394143	-43,81837027
Rota 9 - Roseira 2,957m	7510922,704	621545,574	-22,50384733	-43,8183103
Rota 9 - Roseira 2,957m	7510928,609	621553,597	-22,50379342	-43,81823277
Rota 9 - Roseira 2,957m	7510927,752	621566,866	-22,50380022	-43,81810372
Rota 9 - Roseira 2,957m	7510922,285	621573,875	-22,5038491	-43,81803517
Rota 9 - Roseira 2,957m	7510912,831	621583,426	-22,50393381	-43,8179416
Rota 9 - Roseira 2,957m	7510903,421	621595,022	-22,50401797	-43,81782816
Rota 9 - Roseira 2,957m	7510891,3	621606,911	-22,50412659	-43,81771167
Rota 9 - Roseira 2,957m	7510875,908	621617,287	-22,50426488	-43,81760962
Rota 9 - Roseira 2,957m	7510859,635	621622,703	-22,50441148	-43,81755573
Rota 9 - Roseira 2,957m	7510848,636	621628,65	-22,50451039	-43,81749707
Rota 9 - Roseira 2,957m	7510865,175	621654,925	-22,50435914	-43,81724293
Rota 9 - Roseira 2,957m	7510882,243	621670,889	-22,50420384	-43,81708907
Rota 9 - Roseira 2,957m	7510903,084	621690,034	-22,50401423	-43,81690456
Rota 9 - Roseira 2,957m	7510924,158	621670,774	-22,50382526	-43,8170934
Rota 9 - Roseira 2,957m	7510947,409	621650,63	-22,5036167	-43,817291
Rota 9 - Roseira 2,957m	7510973,422	621623,907	-22,50338365	-43,81755275
Rota 9 - Roseira 2,957m	7510988,43	621604,45	-22,50324949	-43,81774304
Rota 9 - Roseira 2,957m	7511005,632	621608,999	-22,5030938	-43,81770015
Rota 9 - Roseira 2,957m	7511021,641	621618,906	-22,50294849	-43,81760508
Rota 9 - Roseira 2,957m	7511049,088	621640,574	-22,50269904	-43,81739656
Rota 9 - Roseira 2,957m	7511069,121	621653,492	-22,50251718	-43,81727252
Rota 9 - Roseira 2,957m	7511083,915	621659,951	-22,5023831	-43,81721087
Rota 9 - Roseira 2,957m	7511106,919	621669,043	-22,50217468	-43,81712427
Rota 9 - Roseira 2,957m	7511115,334	621673,22	-22,50209838	-43,81708431
Rota 9 - Roseira 2,957m	7511128,074	621671,689	-22,50198342	-43,81710017
Rota 9 - Roseira 2,957m	7511143,688	621654,622	-22,50184361	-43,81726726
Rota 9 - Roseira 2,957m	7511154,714	621642,26	-22,5017449	-43,81738828
Rota 9 - Roseira 2,957m	7511178,192	621629,496	-22,50153376	-43,81751415
Rota 9 - Roseira 2,957m	7511204,677	621617,837	-22,50129537	-43,81762952
Rota 9 - Roseira 2,957m	7511235,723	621619,967	-22,50101481	-43,8176112
Rota 9 - Roseira 2,957m	7511254,122	621621,593	-22,50084851	-43,81759681
Rota 9 - Roseira 2,957m	7511277,687	621617,98	-22,50063593	-43,81763374
Rota 9 - Roseira 2,957m	7511289,83	621618,707	-22,5005262	-43,8176276
Rota 9 - Roseira 2,957m	7511295,889	621624,487	-22,50047106	-43,81757188
Rota 9 - Roseira 2,957m	7511308,985	621628,691	-22,50035248	-43,81753202
Rota 9 - Roseira 2,957m	7511326,33	621624,095	-22,50019615	-43,81757803
Rota 9 - Roseira 2,957m	7511343,33	621618,864	-22,50004297	-43,81763018
Rota 9 - Roseira 2,957m	7511372,893	621610,811	-22,49977654	-43,81771073
Rota 9 - Roseira 2,957m	7511392,48	621609,971	-22,49959968	-43,8177204
Rota 9 - Roseira 2,957m	7511408,729	621604,98	-22,49945328	-43,81777015

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Roseira 2,957m	7511420,92	621598,157	-22,49934366	-43,81783741
Rota 9 - Roseira 2,957m	7511464,12	621598,545	-22,49895344	-43,81783696
Rota 9 - Roseira 2,957m	7511492,368	621607,415	-22,49869767	-43,81775291
Rota 9 - Roseira 2,957m	7511506,489	621625,571	-22,49856884	-43,81757752
Rota 9 - Roseira 2,957m	7511515,249	621651,642	-22,49848785	-43,81732477
Rota 9 - Roseira 2,957m	7511506,736	621667,057	-22,49856364	-43,81717428
Rota 9 - Roseira 2,957m	7511494,575	621688,546	-22,49867194	-43,81696446
Rota 9 - Roseira 2,957m	7511492,782	621701,175	-22,49868724	-43,81684157
Rota 9 - Roseira 2,957m	7511502,039	621713,791	-22,49860273	-43,81671965
Rota 9 - Roseira 2,957m	7511532,097	621731,042	-22,49833001	-43,81655427
Rota 9 - Roseira 2,957m	7511555,174	621762,306	-22,49811934	-43,81625216
Rota 9 - Roseira 2,957m	7511579,153	621805,595	-22,49789967	-43,81583323
Rota 9 - Roseira 2,957m	7511593,85	621831,787	-22,49776505	-43,81557977
Rota 9 - Roseira 2,957m	7511606,093	621855,379	-22,49765279	-43,81535138
Rota 9 - Roseira 2,957m	7511617,59	621875,26	-22,49754753	-43,81515902
Rota 9 - Roseira 2,957m	7511632,56	621894,366	-22,49741095	-43,81497447
Rota 9 - Roseira 2,957m	7511639,97	621902,894	-22,49734341	-43,81489214
Rota 9 - Roseira 2,957m	7511636,423	621909,346	-22,49737499	-43,81482915
Rota 9 - Roseira 2,957m	7511626,477	621920,686	-22,49746402	-43,81471816
Rota 9 - Roseira 2,957m	7511612,731	621928,439	-22,49758761	-43,81464175
Rota 9 - Roseira 2,957m	7511584,688	621934,869	-22,49784044	-43,81457708
Rota 9 - Roseira 2,957m	7511565,97	621935,457	-22,49800946	-43,81456993
Rota 9 - Roseira 2,957m	7511536,372	621936,045	-22,49827675	-43,81456193
Rota 9 - Roseira 2,957m	7511518,644	621937,484	-22,49843676	-43,81454658
Rota 9 - Roseira 2,957m	7511505,259	621939,335	-22,49855753	-43,81452756
Rota 9 - Roseira 2,957m	7511496,032	621941,871	-22,49864069	-43,8145022
Rota 9 - Roseira 2,957m	7511488,05	621946,762	-22,49871243	-43,81445404
Rota 9 - Roseira 2,957m	7511486,477	621952,921	-22,49872619	-43,81439405
Rota 9 - Roseira 2,957m	7511484,197	621961,1	-22,49874621	-43,81431438
Rota 9 - Roseira 2,957m	7511487,574	621973,648	-22,49871148	-43,81419267
Rota 9 - Roseira 2,957m	7511492,806	621985,818	-22,49866668	-43,81407477
Rota 9 - Roseira 2,957m	7511502,6	621996,199	-22,49857748	-43,81397462
Rota 9 - Roseira 2,957m	7511516,635	622005,19	-22,49845007	-43,81388831
Rota 9 - Roseira 2,957m	7511533,757	622010,843	-22,49829501	-43,81383468
Rota 9 - Roseira 2,957m	7511540,192	622018,103	-22,49823637	-43,81376461
Rota 9 - Roseira 2,957m	7511544,226	622038,841	-22,49819846	-43,81356334
Rota 9 - Roseira 2,957m	7511540,747	622047,7	-22,49822924	-43,81347697
Rota 9 - Roseira 2,957m	7511528,206	622061,321	-22,49834154	-43,8133436
Rota 9 - Roseira 2,957m	7511505,655	622073,918	-22,49854432	-43,81321942
Rota 9 - Roseira 2,957m	7511485,253	622075,209	-22,4987285	-43,81320529
Rota 9 - Roseira 2,957m	7511468,125	622069,318	-22,49888362	-43,81326123
Rota 9 - Roseira 2,957m	7511441,512	622050,456	-22,49912535	-43,81344253
Rota 9 - Roseira 2,957m	7511421,311	622022,309	-22,49930982	-43,81371457

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Roseira 2,957m	7511412,613	621991,704	-22,49939057	-43,81401139
Rota 9 - Roseira 2,957m	7511410,006	621970,843	-22,49941561	-43,81421396
Rota 9 - Roseira 2,957m	7511412,974	621956,496	-22,49938982	-43,81435365
Rota 9 - Roseira 2,957m	7511413,126	621942,707	-22,49938944	-43,81448769
Rota 9 - Roseira 2,957m	7511407,695	621932,789	-22,49943921	-43,81458368
Rota 9 - Roseira 2,957m	7511397,169	621924,886	-22,49953484	-43,81465969
Rota 9 - Roseira 2,957m	7511383,284	621921,649	-22,49966048	-43,81469009
Rota 9 - Roseira 2,957m	7511364,52	621921,701	-22,49982995	-43,81468814
Rota 9 - Roseira 2,957m	7511351,707	621924,354	-22,49994549	-43,81466136
Rota 9 - Roseira 2,957m	7511340,992	621929,666	-22,50004189	-43,8146089
Rota 9 - Roseira 2,957m	7511332,169	621942,72	-22,50012065	-43,81448133
Rota 9 - Roseira 2,957m	7511328,571	621958,134	-22,50015205	-43,81433123
Rota 9 - Roseira 2,957m	7511329,753	621988,871	-22,50013916	-43,81403254
Rota 9 - Roseira 2,957m	7511333,406	622001,357	-22,50010528	-43,81391146
Rota 9 - Roseira 2,957m	7511334,147	622012,366	-22,5000978	-43,81380451
Rota 9 - Roseira 2,957m	7511328,819	622030,036	-22,50014466	-43,81363234
Rota 9 - Roseira 2,957m	7511323,344	622040,629	-22,50019335	-43,81352895
Rota 9 - Roseira 2,957m	7511312,5	622046,822	-22,50029085	-43,81346792
Rota 9 - Roseira 2,957m	7511303,477	622052,073	-22,50037197	-43,81341618
Rota 9 - Roseira 2,957m	7511294,056	622053,447	-22,50045696	-43,81340209
Rota 9 - Roseira 2,957m	7511288,414	622045,124	-22,50050851	-43,81348256
Rota 9 - Roseira 2,957m	7511292,464	622032,502	-22,50047284	-43,81360556
Rota 9 - Roseira 2,957m	7511298,095	622006,29	-22,50042386	-43,81386078
Rota 9 - Roseira 2,957m	7511303,876	621993,402	-22,50037257	-43,81398651
Rota 9 - Roseira 2,957m	7511306,303	621977,196	-22,5003518	-43,81414423
Rota 9 - Roseira 2,957m	7511304,671	621965,255	-22,5003674	-43,81426017
Rota 9 - Roseira 2,957m	7511292,58	621938,777	-22,5004785	-43,81451661
Rota 9 - Roseira 2,957m	7511291,212	621921,856	-22,50049207	-43,81468099
Rota 9 - Roseira 2,957m	7511292,606	621905,999	-22,50048061	-43,81483523
Rota 9 - Roseira 2,957m	7511290,285	621890,268	-22,5005027	-43,81498796
Rota 9 - Roseira 2,957m	7511285,124	621877,654	-22,50055021	-43,81511017
Rota 9 - Roseira 2,957m	7511271,853	621865,178	-22,50067097	-43,81523043
Rota 9 - Roseira 2,957m	7511232,607	621849,414	-22,50102657	-43,81538064
Rota 9 - Roseira 2,957m	7511206,758	621843,714	-22,50126045	-43,81543405
Rota 9 - Roseira 2,957m	7511171,164	621832,548	-22,50158273	-43,81553986
Rota 9 - Roseira 2,957m	7511133,373	621814,708	-22,50192534	-43,81571037
Rota 9 - Roseira 2,957m	7511131,407	621802,789	-22,50194395	-43,81582607
Rota 9 - Roseira 2,957m	7511132,739	621773,802	-22,50193398	-43,81610794
Rota 9 - Roseira 2,957m	7511131,991	621752,81	-22,50194224	-43,81631194
Rota 9 - Roseira 2,957m	7511128,017	621739,209	-22,50197911	-43,81644384
Rota 9 - Roseira 2,957m	7511110,767	621725,979	-22,50213586	-43,81657111
Rota 9 - Roseira 2,957m	7511071,413	621712,469	-22,50249227	-43,81669941
Rota 9 - Roseira 2,957m	7511029,91	621700,316	-22,50286799	-43,81681436

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Roseira 2,957m	7511010,988	621694,182	-22,50303934	-43,81687253
Rota 9 - Roseira 2,957m	7510993,659	621705,03	-22,50319508	-43,81676575
Rota 9 - Roseira 2,957m	7510973,843	621719,516	-22,50337303	-43,81662342
Rota 9 - Roseira 2,957m	7510954,893	621739,223	-22,50354277	-43,81643039
Rota 9 - Roseira 2,957m	7510944,958	621733,059	-22,50363295	-43,81648955
Rota 9 - Roseira 2,957m	7510920,656	621711,681	-22,50385397	-43,81669549
Rota 9 - Roseira 2,957m	7510898,761	621691,276	-22,50405319	-43,81689215
Rota 9 - Roseira 2,957m	7510869,975	621669,305	-22,50431476	-43,81710351
Rota 9 - Roseira 2,957m	7510851,462	621647,881	-22,50448349	-43,81731035
Rota 9 - Roseira 2,957m	7510841,29	621627,503	-22,50457682	-43,81750766
Rota 9 - Roseira 2,957m	7510832,165	621600,236	-22,50466119	-43,817772
Rota 9 - Roseira 2,957m	7510827,524	621568,138	-22,5047054	-43,81808367
Rota 9 - Roseira 2,957m	7510826,752	621551,136	-22,50471357	-43,81824888
Rota 9 - Roseira 169m	7511639,732	621902,762	-22,49734557	-43,81489341
Rota 9 - Roseira 169m	7511649,844	621903,243	-22,4972542	-43,81488951
Rota 9 - Roseira 169m	7511659,714	621906,366	-22,49716484	-43,81485991
Rota 9 - Roseira 169m	7511669,389	621914,332	-22,49707688	-43,81478323
Rota 9 - Roseira 169m	7511678,962	621925,015	-22,49698966	-43,81468012
Rota 9 - Roseira 169m	7511687,418	621934,605	-22,49691259	-43,81458756
Rota 9 - Roseira 169m	7511704,348	621948,444	-22,49675869	-43,81445435
Rota 9 - Roseira 169m	7511726,568	621962,427	-22,496557	-43,81432014
Rota 9 - Roseira 169m	7511746,939	621981,766	-22,49637162	-43,81413373
Rota 9 - Roseira 169m	7511772,003	622002,742	-22,49614374	-43,81393177
Rota 9 - Roseira 190m	7510954,897	621738,73	-22,50354277	-43,81643519
Rota 9 - Roseira 190m	7510962,202	621744,701	-22,50347637	-43,81637771
Rota 9 - Roseira 190m	7510987,567	621758,198	-22,50324631	-43,81624846
Rota 9 - Roseira 190m	7511044,046	621779,731	-22,50273465	-43,81604349
Rota 9 - Roseira 190m	7511129,319	621813,463	-22,50196204	-43,81572215
Rota 9 - Boca do Mato 301m	7508708,079	622984,875	-22,52374663	-43,8041474
Rota 9 - Boca do Mato 301m	7508708,187	622995,039	-22,52374491	-43,8040486
Rota 9 - Boca do Mato 301m	7508721,261	623011,603	-22,52362563	-43,80388858
Rota 9 - Boca do Mato 301m	7508740,548	623034,438	-22,52344979	-43,80366808
Rota 9 - Boca do Mato 301m	7508758,292	623049,105	-22,52328846	-43,80352686
Rota 9 - Boca do Mato 301m	7508768,338	623067,423	-22,5231964	-43,80334956
Rota 9 - Boca do Mato 301m	7508775,507	623073,31	-22,52313123	-43,80329288
Rota 9 - Boca do Mato 301m	7508793,357	623058,58	-22,52297107	-43,80343747
Rota 9 - Boca do Mato 301m	7508813,442	623032,708	-22,52279153	-43,80369056
Rota 9 - Boca do Mato 301m	7508841,329	623011,942	-22,52254116	-43,80389462
Rota 9 - Boca do Mato 301m	7508865,519	623018,146	-22,52232222	-43,80383618
Rota 9 - Boca do Mato 301m	7508871,372	623030,374	-22,52226848	-43,80371776
Rota 9 - Boca do Mato 301m	7508879,819	623049,895	-22,52219077	-43,80352864
Rota 9 - Boca do Mato 301m	7508887,698	623067,59	-22,52211833	-43,80335722
Rota 9 - Boca do Mato 301m	7508898,792	623079,844	-22,52201724	-43,80323895

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Parque Santana 3,218m	7508898,672	623079,885	-22,52201832	-43,80323855
Rota 9 - Parque Santana 3,218m	7508907,451	623065,043	-22,5219401	-43,80338352
Rota 9 - Parque Santana 3,218m	7508928,028	623037,602	-22,52175624	-43,8036519
Rota 9 - Parque Santana 3,218m	7508938,712	623023,102	-22,52166079	-43,80379369
Rota 9 - Parque Santana 3,218m	7508964,356	623003,248	-22,5214306	-43,8039887
Rota 9 - Parque Santana 3,218m	7509005,206	622983,221	-22,52106309	-43,80418658
Rota 9 - Parque Santana 3,218m	7509038,265	622975,586	-22,52076505	-43,80426337
Rota 9 - Parque Santana 3,218m	7509065,99	622968,532	-22,52051515	-43,80433411
Rota 9 - Parque Santana 3,218m	7509105,015	622957,388	-22,52016348	-43,80444547
Rota 9 - Parque Santana 3,218m	7509160,963	622939,008	-22,51965949	-43,80462851
Rota 9 - Parque Santana 3,218m	7509185,859	622931,035	-22,5194352	-43,80470795
Rota 9 - Parque Santana 3,218m	7509208,458	622914,676	-22,51923226	-43,80486875
Rota 9 - Parque Santana 3,218m	7509229,777	622898,859	-22,51904085	-43,80502417
Rota 9 - Parque Santana 3,218m	7509261,766	622866,033	-22,5187543	-43,80534577
Rota 9 - Parque Santana 3,218m	7509299,719	622823,802	-22,51841455	-43,80575927
Rota 9 - Parque Santana 3,218m	7509327,637	622791,058	-22,51816475	-43,80607976
Rota 9 - Parque Santana 3,218m	7509347,862	622813,164	-22,51798049	-43,80586643
Rota 9 - Parque Santana 3,218m	7509360,762	622842,455	-22,51786186	-43,80558267
Rota 9 - Parque Santana 3,218m	7509377,859	622876,075	-22,51770502	-43,80525717
Rota 9 - Parque Santana 3,218m	7509393,256	622904,541	-22,5175639	-43,80498162
Rota 9 - Parque Santana 3,218m	7509411,818	622941,052	-22,51739361	-43,80462812
Rota 9 - Parque Santana 3,218m	7509433,248	622968,743	-22,51719805	-43,80436059
Rota 9 - Parque Santana 3,218m	7509466,168	622992,172	-22,51689902	-43,80413539
Rota 9 - Parque Santana 3,218m	7509482,456	623011,193	-22,51675054	-43,80395174
Rota 9 - Parque Santana 3,218m	7509512,251	623050,006	-22,51647863	-43,80357673
Rota 9 - Parque Santana 3,218m	7509526,708	623032,013	-22,51634935	-43,80375277
Rota 9 - Parque Santana 3,218m	7509529,326	623017,497	-22,51632676	-43,8038941
Rota 9 - Parque Santana 3,218m	7509522,363	622995,202	-22,51639126	-43,8041103
Rota 9 - Parque Santana 3,218m	7509513,673	622970,631	-22,51647152	-43,80434849
Rota 9 - Parque Santana 3,218m	7509511,59	622945,639	-22,51649214	-43,80459128
Rota 9 - Parque Santana 3,218m	7509517,945	622941,079	-22,51643506	-43,80463611
Rota 9 - Parque Santana 3,218m	7509543,619	622910,223	-22,5162054	-43,80493807
Rota 9 - Parque Santana 3,218m	7509575,541	622876,447	-22,51591952	-43,80526889
Rota 9 - Parque Santana 3,218m	7509641,555	622809,532	-22,5153281	-43,80592453
Rota 9 - Parque Santana 3,218m	7509664,779	622786,809	-22,51511999	-43,80614723
Rota 9 - Parque Santana 3,218m	7509623,304	622746,3	-22,51549751	-43,80653781
Rota 9 - Parque Santana 3,218m	7509588,432	622711,23	-22,515815	-43,80687604
Rota 9 - Parque Santana 3,218m	7509571,19	622689,418	-22,5159723	-43,80708675
Rota 9 - Parque Santana 3,218m	7509569,862	622665,716	-22,515986	-43,80731706
Rota 9 - Parque Santana 3,218m	7509566,299	622651,869	-22,51601918	-43,80745139
Rota 9 - Parque Santana 3,218m	7509601,493	622631,7	-22,51570276	-43,80765019
Rota 9 - Parque Santana 3,218m	7509645,108	622605,543	-22,51531071	-43,80790785
Rota 9 - Parque Santana 3,218m	7509651,061	622624,722	-22,51525556	-43,80772187



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Parque Santana 3,218m	7509652,263	622645,986	-22,51524317	-43,80751524
Rota 9 - Parque Santana 3,218m	7509655,327	622673,313	-22,51521353	-43,80724982
Rota 9 - Parque Santana 3,218m	7509668,978	622702,752	-22,51508811	-43,8069647
Rota 9 - Parque Santana 3,218m	7509682,125	622732,464	-22,51496723	-43,80667688
Rota 9 - Parque Santana 3,218m	7509704,934	622760,33	-22,51475921	-43,80640776
Rota 9 - Parque Santana 3,218m	7509733,828	622786,431	-22,51449636	-43,80615626
Rota 9 - Parque Santana 3,218m	7509779,078	622774,839	-22,5140885	-43,80627246
Rota 9 - Parque Santana 3,218m	7509821,737	622757,837	-22,51370442	-43,80644104
Rota 9 - Parque Santana 3,218m	7509855,447	622745,218	-22,51340086	-43,80656633
Rota 9 - Parque Santana 3,218m	7509861,956	622757,692	-22,51334118	-43,80644557
Rota 9 - Parque Santana 3,218m	7509860,323	622777,833	-22,51335448	-43,80624965
Rota 9 - Parque Santana 3,218m	7509861,559	622798,909	-22,51334179	-43,80604486
Rota 9 - Parque Santana 3,218m	7509867,22	622824,81	-22,51328879	-43,80579351
Rota 9 - Parque Santana 3,218m	7509867,369	622842,232	-22,51328619	-43,80562416
Rota 9 - Parque Santana 3,218m	7509871,744	622863,977	-22,51324511	-43,80541311
Rota 9 - Parque Santana 3,218m	7509875,709	622885,332	-22,51320776	-43,80520583
Rota 9 - Parque Santana 3,218m	7509885,368	622924,213	-22,51311771	-43,8048286
Rota 9 - Parque Santana 3,218m	7509889,538	622958,258	-22,51307759	-43,80449797
Rota 9 - Parque Santana 3,218m	7509897,034	622995,17	-22,51300723	-43,80413972
Rota 9 - Parque Santana 3,218m	7509910,07	623033,955	-22,51288668	-43,8037637
Rota 9 - Parque Santana 3,218m	7509922,136	623066,055	-22,51277539	-43,80345259
Rota 9 - Parque Santana 3,218m	7509937,738	623098,528	-22,51263212	-43,80313813
Rota 9 - Parque Santana 3,218m	7509962,566	623143,225	-22,51240465	-43,80270555
Rota 9 - Parque Santana 3,218m	7509958,562	623164,362	-22,51243928	-43,80249976
Rota 9 - Parque Santana 3,218m	7509947,269	623157,287	-22,51254179	-43,80256766
Rota 9 - Parque Santana 3,218m	7509928,069	623156,201	-22,51271528	-43,80257672
Rota 9 - Parque Santana 3,218m	7509897,607	623163,824	-22,51298986	-43,80250025
Rota 9 - Parque Santana 3,218m	7509886,42	623163,251	-22,51309095	-43,80250495
Rota 9 - Parque Santana 3,218m	7509889,263	623143,226	-22,51306672	-43,80269984
Rota 9 - Parque Santana 3,218m	7509901,764	623125,014	-22,51295512	-43,80287785
Rota 9 - Parque Santana 3,218m	7509903,957	623117,64	-22,51293585	-43,8029497
Rota 9 - Parque Santana 3,218m	7509888,804	623096,008	-22,51307427	-43,80315881
Rota 9 - Parque Santana 3,218m	7509870,614	623074,445	-22,51324013	-43,80336702
Rota 9 - Parque Santana 3,218m	7509772,37	622911,816	-22,5141392	-43,80494035
Rota 9 - Parque Santana 3,218m	7509742,209	622863,819	-22,51441509	-43,80540459
Rota 9 - Parque Santana 3,218m	7509724,406	622841,072	-22,51457752	-43,80562435
Rota 9 - Parque Santana 3,218m	7509684,982	622808,833	-22,51493592	-43,80593469
Rota 9 - Parque Santana 3,218m	7509659,739	622788,731	-22,51516537	-43,80612815
Rota 9 - Parque Santana 3,218m	7509651,646	622779,37	-22,51523914	-43,80621852
Rota 9 - Parque Santana 3,218m	7509622,447	622751,886	-22,51550484	-43,80648344
Rota 9 - Parque Santana 3,218m	7509585,048	622712,277	-22,51584549	-43,8068656
Rota 9 - Parque Santana 3,218m	7509548,47	622677,67	-22,51617835	-43,80719919
Rota 9 - Parque Santana 3,218m	7509527,825	622663,235	-22,51636586	-43,80733791

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Parque Santana 3,218m	7509511,377	622659,769	-22,51651467	-43,80737033
Rota 9 - Parque Santana 3,218m	7509474,436	622670,591	-22,51684754	-43,80726227
Rota 9 - Parque Santana 3,218m	7509424,118	622697,307	-22,51730009	-43,80699865
Rota 9 - Parque Santana 3,218m	7509388,844	622739,547	-22,51761564	-43,80658527
Rota 9 - Parque Santana 3,218m	7509372,775	622754,673	-22,51775969	-43,80643698
Rota 9 - Parque Santana 3,218m	7509345,172	622780,288	-22,51800715	-43,80618582
Rota 9 - Parque Santana 3,218m	7509334,152	622782,865	-22,5181065	-43,80615991
Rota 9 - Parque Santana 3,218m	7509319,817	622761,715	-22,5182375	-43,80636441
Rota 9 - Parque Santana 237m	7509038,113	622976,004	-22,5207664	-43,8042593
Rota 9 - Parque Santana 237m	7509041,247	622983,281	-22,52073756	-43,8041888
Rota 9 - Parque Santana 237m	7509045,469	622996,446	-22,52069848	-43,80406113
Rota 9 - Parque Santana 237m	7509050,967	623005,088	-22,52064819	-43,80397755
Rota 9 - Parque Santana 237m	7509059,126	623008,129	-22,52057428	-43,80394862
Rota 9 - Parque Santana 237m	7509075,848	623009,32	-22,52042316	-43,80393834
Rota 9 - Parque Santana 237m	7509097,807	623006,622	-22,52022503	-43,80396628
Rota 9 - Parque Santana 237m	7509108,932	623005,02	-22,52012466	-43,80398272
Rota 9 - Parque Santana 237m	7509127,84	622999,577	-22,51995428	-43,8040371
Rota 9 - Parque Santana 237m	7509144,353	622994,374	-22,51980551	-43,80408897
Rota 9 - Parque Santana 237m	7509163,164	622994,388	-22,51963561	-43,80409029
Rota 9 - Parque Santana 237m	7509185,651	623000,552	-22,51943206	-43,80403212
Rota 9 - Parque Santana 237m	7509198,632	623002,919	-22,51931464	-43,80401011
Rota 9 - Parque Santana 237m	7509225,221	623011,659	-22,51907386	-43,80392721
Rota 9 - Parque Santana 237m	7509241,124	623014,933	-22,51892998	-43,80389662
Rota 9 - Parque Santana 237m	7509250,193	623016,156	-22,51884798	-43,80388544
Rota 9 - Parque Santana 96,5m	7509363,898	622847,458	-22,51783318	-43,80553428
Rota 9 - Parque Santana 96,5m	7509376,466	622840,668	-22,51772015	-43,80560127
Rota 9 - Parque Santana 96,5m	7509409,758	622821,454	-22,51742085	-43,80579063
Rota 9 - Parque Santana 96,5m	7509423,084	622813,189	-22,51730108	-43,80587202
Rota 9 - Parque Santana 96,5m	7509451,177	622813,515	-22,51704732	-43,80587104
Rota 9 - Parque Santana 349m	7509512,777	623049,604	-22,51647391	-43,80358069
Rota 9 - Parque Santana 349m	7509525,907	623066,262	-22,51635411	-43,80341977
Rota 9 - Parque Santana 349m	7509541,437	623092,017	-22,51621199	-43,8031706
Rota 9 - Parque Santana 349m	7509563,052	623120,427	-22,51601471	-43,8028961
Rota 9 - Parque Santana 349m	7509584,181	623147,751	-22,51582189	-43,80263212
Rota 9 - Parque Santana 349m	7509597,258	623172,753	-22,51570197	-43,80239007
Rota 9 - Parque Santana 349m	7509609,796	623200,137	-22,51558675	-43,80212485
Rota 9 - Parque Santana 349m	7509616,277	623221,601	-22,51552666	-43,80191669
Rota 9 - Parque Santana 349m	7509626,456	623244,206	-22,51543309	-43,80169773
Rota 9 - Parque Santana 349m	7509656,384	623264,832	-22,51516129	-43,80149955
Rota 9 - Parque Santana 349m	7509696,93	623296,421	-22,51479279	-43,80119562
Rota 9 - Parque Santana 349m	7509715,271	623314,153	-22,51462585	-43,80102466
Rota 9 - Parque Santana 349m	7509714,813	623322,321	-22,5146294	-43,80094523
Rota 9 - Parque Santana 45m	7509733,582	622786,091	-22,51449861	-43,80615954

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Parque Santana 45m	7509721,596	622791,386	-22,51460649	-43,80610714
Rota 9 - Parque Santana 45m	7509691,032	622800,513	-22,51488188	-43,80601604
Rota 9 - Parque Santana 67,4m	7509868,273	622848,656	-22,51327756	-43,80556178
Rota 9 - Parque Santana 67,4m	7509849,677	622851,964	-22,51344529	-43,80552818
Rota 9 - Parque Santana 67,4m	7509805,016	622870,883	-22,5138473	-43,8053408
Rota 9 - Parque Santana 1,140m	7509962,7	623143,57	-22,51240341	-43,8027022
Rota 9 - Parque Santana 1,140m	7509978,852	623146,882	-22,51225728	-43,80267127
Rota 9 - Parque Santana 1,140m	7510004,851	623140,333	-22,51202294	-43,80273695
Rota 9 - Parque Santana 1,140m	7510040,785	623126,087	-22,5116994	-43,80287823
Rota 9 - Parque Santana 1,140m	7510100,738	623092,287	-22,51116035	-43,80321147
Rota 9 - Parque Santana 1,140m	7510168,296	623052,849	-22,51055301	-43,8036001
Rota 9 - Parque Santana 1,140m	7510218,612	623020,781	-22,51010088	-43,80391575
Rota 9 - Parque Santana 1,140m	7510256,914	622985,429	-22,50975748	-43,80426237
Rota 9 - Parque Santana 1,140m	7510281,46	622934,177	-22,50953948	-43,8047625
Rota 9 - Parque Santana 1,140m	7510277,106	622886,012	-22,50958228	-43,80523037
Rota 9 - Parque Santana 1,140m	7510287,796	622840,544	-22,509489	-43,80567319
Rota 9 - Parque Santana 1,140m	7510317,624	622794,879	-22,50922289	-43,80611941
Rota 9 - Parque Santana 1,140m	7510387,147	622719,942	-22,50860036	-43,80685326
Rota 9 - Parque Santana 1,140m	7510441,261	622663,834	-22,50811563	-43,80740287
Rota 9 - Parque Santana 1,140m	7510428,616	622631,141	-22,5082322	-43,80771969
Rota 9 - Parque Santana 1,140m	7510392,901	622549,269	-22,50856066	-43,80851281
Rota 9 - Parque Santana 1,140m	7510368,346	622506,964	-22,50878549	-43,80892214
Rota 9 - Parque Santana 1,140m	7510356,073	622484,069	-22,50889798	-43,80914375
Rota 9 - Parque Santana 1,140m	7510357,551	622442,06	-22,50888765	-43,80955223
Rota 9 - Parque Santana 1,140m	7510361,432	622384,124	-22,50885676	-43,81011573
Rota 9 - Parque Santana 1,140m	7510360,755	622308,633	-22,50886829	-43,81084951
Rota 9 - Parque Santana 1,140m	7510324,221	622315,343	-22,50919779	-43,81078147
Rota 9 - Parque Santana 50,4m	7509886,613	623163,369	-22,51308919	-43,80250382
Rota 9 - Parque Santana 50,4m	7509872,819	623166,993	-22,51321352	-43,80246752
Rota 9 - Parque Santana 50,4m	7509837,402	623173,936	-22,5135329	-43,80239726
Rota 9 - Maracanã 112m	7512309,307	621993,808	-22,49129141	-43,81405997
Rota 9 - Maracanã 112m	7512313,117	622006,444	-22,4912561	-43,81393745
Rota 9 - Maracanã 112m	7512317,112	622020,978	-22,49121897	-43,81379648
Rota 9 - Maracanã 112m	7512323,852	622046,722	-22,49115626	-43,81354678
Rota 9 - Maracanã 112m	7512328,992	622066,49	-22,49110841	-43,81335504
Rota 9 - Maracanã 112m	7512337,746	622102,126	-22,4910268	-43,81300934
Rota 9 - Maracanã 687m	7512430,664	621851,611	-22,49020547	-43,81545142
Rota 9 - Maracanã 687m	7512439,52	621859,454	-22,49012492	-43,81537587
Rota 9 - Maracanã 687m	7512452,835	621871,925	-22,49000377	-43,81525568
Rota 9 - Maracanã 687m	7512468,914	621887,864	-22,48985741	-43,815102
Rota 9 - Maracanã 687m	7512483,712	621900,433	-22,48972285	-43,81498097
Rota 9 - Maracanã 687m	7512502,486	621920,38	-22,48955185	-43,81478854
Rota 9 - Maracanã 687m	7512529,907	621950,447	-22,48930203	-43,81449841

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Maracanã 687m	7512542,232	621977,622	-22,48918877	-43,81423523
Rota 9 - Maracanã 687m	7512548,894	622014,79	-22,48912595	-43,81387448
Rota 9 - Maracanã 687m	7512559,285	622051,229	-22,48902948	-43,8135211
Rota 9 - Maracanã 687m	7512574,041	622088,345	-22,48889355	-43,81316149
Rota 9 - Maracanã 687m	7512582,595	622113,407	-22,48881449	-43,81291856
Rota 9 - Maracanã 687m	7512583,01	622120,035	-22,48881028	-43,81285417
Rota 9 - Maracanã 687m	7512608,676	622118,238	-22,48857859	-43,81287361
Rota 9 - Maracanã 687m	7512614,115	622117,798	-22,48852949	-43,81287831
Rota 9 - Maracanã 687m	7512590,417	622034,022	-22,48874952	-43,81369075
Rota 9 - Maracanã 687m	7512580,324	621982,446	-22,48884438	-43,81419126
Rota 9 - Maracanã 687m	7512578,11	621967,602	-22,48886544	-43,81433537
Rota 9 - Maracanã 687m	7512572,975	621952,123	-22,48891292	-43,81448542
Rota 9 - Maracanã 687m	7512545,834	621911,801	-22,48916094	-43,81487525
Rota 9 - Maracanã 687m	7512526,708	621880,492	-22,48933593	-43,81517809
Rota 9 - Maracanã 687m	7512487,71	621809,595	-22,48969323	-43,81586419
Rota 9 - Maracanã 831m	7512613,874	622117,856	-22,48853166	-43,81287773
Rota 9 - Maracanã 831m	7512633,959	622138,389	-22,48834878	-43,8126797
Rota 9 - Maracanã 831m	7512660,993	622163,561	-22,48810281	-43,81243712
Rota 9 - Maracanã 831m	7512692,726	622192,086	-22,48781415	-43,81216233
Rota 9 - Maracanã 831m	7512702,752	622203,476	-22,48772278	-43,81205239
Rota 9 - Maracanã 831m	7512710,627	622228,067	-22,48764989	-43,81181399
Rota 9 - Maracanã 831m	7512718,625	622255,072	-22,48757572	-43,81155213
Rota 9 - Maracanã 831m	7512742,996	622346,11	-22,48734907	-43,81066918
Rota 9 - Maracanã 831m	7512761,268	622392,31	-22,48718072	-43,81022155
Rota 9 - Maracanã 831m	7512778,728	622433,566	-22,48702006	-43,80982191
Rota 9 - Maracanã 831m	7512817,546	622504,744	-22,48666434	-43,80913311
Rota 9 - Maracanã 831m	7512840,28	622547,55	-22,48645593	-43,80871882
Rota 9 - Maracanã 831m	7512859,477	622562,676	-22,48628146	-43,80857329
Rota 9 - Maracanã 831m	7512874,015	622616,96	-22,48614625	-43,8080468
Rota 9 - Maracanã 831m	7512884,31	622663,519	-22,48604992	-43,80759507
Rota 9 - Maracanã 831m	7512895,681	622707,346	-22,48594406	-43,80716999
Rota 9 - Maracanã 831m	7512909,369	622746,265	-22,48581763	-43,80679278
Rota 9 - Maracanã 831m	7512932,914	622814,125	-22,48560009	-43,80613506
Rota 9 - Maracanã 831m	7512945,833	622860,457	-22,48548007	-43,80568574
Rota 9 - Maracanã 96,8m	7512859,734	622562,97	-22,48627911	-43,80857045
Rota 9 - Maracanã 96,8m	7512879,089	622558,777	-22,4861046	-43,8086127
Rota 9 - Maracanã 96,8m	7512898,998	622549,377	-22,48592545	-43,8087056
Rota 9 - Maracanã 96,8m	7512918,459	622542,365	-22,48575019	-43,80877526
Rota 9 - Maracanã 96,8m	7512952,554	622539,039	-22,48544248	-43,80881021
Rota 9 - Nafil 225m	7512973,401	621597,342	-22,48532156	-43,81796446
Rota 9 - Nafil 225m	7512978,078	621605,593	-22,48527874	-43,81788462
Rota 9 - Nafil 225m	7512986,084	621632,697	-22,48520449	-43,8176218
Rota 9 - Nafil 225m	7512992,376	621655,492	-22,48514604	-43,81740074

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Nafil 225m	7512996,234	621671,508	-22,48511005	-43,81724537
Rota 9 - Nafil 225m	7512994,698	621696,73	-22,48512212	-43,81700011
Rota 9 - Nafil 225m	7512994,041	621730,244	-22,48512567	-43,81667433
Rota 9 - Nafil 225m	7512985,36	621781,615	-22,48520041	-43,81617437
Rota 9 - Nafil 225m	7512967,485	621812,544	-22,48535965	-43,81587238
Rota 9 - Muqueca 293m	7513079,283	621587,666	-22,48436592	-43,81806662
Rota 9 - Muqueca 293m	7513077,513	621604,391	-22,48438071	-43,81790393
Rota 9 - Muqueca 293m	7513070,679	621635,247	-22,48444024	-43,81760351
Rota 9 - Muqueca 293m	7513067,848	621654,496	-22,48446443	-43,8174162
Rota 9 - Muqueca 293m	7513091,286	621720,788	-22,48424802	-43,8167737
Rota 9 - Muqueca 293m	7513105,084	621753,408	-22,48412106	-43,81645771
Rota 9 - Muqueca 293m	7513115,301	621792,912	-22,48402596	-43,81607455
Rota 9 - Muqueca 293m	7513138,824	621867,385	-22,48380818	-43,81535254
Rota 9 - Muqueca 60m	7513114,335	621788,063	-22,48403503	-43,81612161
Rota 9 - Muqueca 60m	7513139,287	621781,086	-22,48381016	-43,81619133
Rota 9 - Muqueca 60m	7513161,683	621772,139	-22,48360852	-43,81628001
Rota 9 - Muqueca 60m	7513170,937	621768,519	-22,48352519	-43,81631591
Rota 9 - Bairro São João 2,142m	7513363,489	621607,971	-22,48179749	-43,81789106
Rota 9 - Bairro São João 2,142m	7513380,931	621608,57	-22,48163992	-43,81788659
Rota 9 - Bairro São João 2,142m	7513430,828	621609,065	-22,4811892	-43,8178856
Rota 9 - Bairro São João 2,142m	7513475,579	621609,422	-22,48078498	-43,81788556
Rota 9 - Bairro São João 2,142m	7513490,124	621618,067	-22,48065299	-43,81780266
Rota 9 - Bairro São João 2,142m	7513501,341	621638,972	-22,48055019	-43,81760034
Rota 9 - Bairro São João 2,142m	7513509,565	621651,849	-22,48047499	-43,81747582
Rota 9 - Bairro São João 2,142m	7513521,426	621648,822	-22,48036807	-43,81750615
Rota 9 - Bairro São João 2,142m	7513537,16	621643,67	-22,48022634	-43,81755743
Rota 9 - Bairro São João 2,142m	7513558,437	621648,837	-22,48003379	-43,81750884
Rota 9 - Bairro São João 2,142m	7513588,524	621658,186	-22,47976137	-43,81742029
Rota 9 - Bairro São João 2,142m	7513630,165	621676,345	-22,47938397	-43,817247
Rota 9 - Bairro São João 2,142m	7513644,043	621689,616	-22,47925768	-43,81711908
Rota 9 - Bairro São João 2,142m	7513658,188	621712,191	-22,47912831	-43,81690076
Rota 9 - Bairro São João 2,142m	7513667,561	621722,838	-22,4790429	-43,81679801
Rota 9 - Bairro São João 2,142m	7513669,087	621733,544	-22,47902835	-43,81669408
Rota 9 - Bairro São João 2,142m	7513668,373	621762,556	-22,47903273	-43,81641205
Rota 9 - Bairro São João 2,142m	7513664,521	621779,805	-22,47906629	-43,81624412
Rota 9 - Bairro São João 2,142m	7513659,317	621793,914	-22,47911228	-43,8161066
Rota 9 - Bairro São João 2,142m	7513649,873	621821,027	-22,47919564	-43,81584236
Rota 9 - Bairro São João 2,142m	7513641,216	621839,826	-22,4792725	-43,81565899
Rota 9 - Bairro São João 2,142m	7513630,569	621853,986	-22,47936765	-43,81552056
Rota 9 - Bairro São João 2,142m	7513619,268	621871,515	-22,47946847	-43,81534932
Rota 9 - Bairro São João 2,142m	7513611,337	621889,631	-22,47953881	-43,81517265
Rota 9 - Bairro São João 2,142m	7513611,953	621901,469	-22,4795324	-43,81505764
Rota 9 - Bairro São João 2,142m	7513614,248	621912,418	-22,47951089	-43,81495141

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Bairro São João 2,142m	7513614,243	621925,753	-22,47950998	-43,81482181
Rota 9 - Bairro São João 2,142m	7513616,339	621943,034	-22,47948982	-43,81465402
Rota 9 - Bairro São João 2,142m	7513613,936	621955,001	-22,47951067	-43,81453752
Rota 9 - Bairro São João 2,142m	7513610,147	621974,071	-22,47954352	-43,81435189
Rota 9 - Bairro São João 2,142m	7513607,313	621977,89	-22,47956885	-43,81431456
Rota 9 - Bairro São João 2,142m	7513609,754	621981,635	-22,47954654	-43,81427835
Rota 9 - Bairro São João 2,142m	7513622,163	621980,451	-22,47943454	-43,81429081
Rota 9 - Bairro São João 2,142m	7513637,796	621980,935	-22,4792933	-43,81428731
Rota 9 - Bairro São João 2,142m	7513646,573	621980,864	-22,47921404	-43,81428867
Rota 9 - Bairro São João 2,142m	7513641,721	621959,301	-22,4792594	-43,81449786
Rota 9 - Bairro São João 2,142m	7513640,175	621915,681	-22,47927648	-43,81492168
Rota 9 - Bairro São João 2,142m	7513651,342	621881,744	-22,47917804	-43,81525237
Rota 9 - Bairro São João 2,142m	7513676,639	621845,443	-22,47895216	-43,81560713
Rota 9 - Bairro São João 2,142m	7513723,402	621803,404	-22,47853278	-43,81601928
Rota 9 - Bairro São João 2,142m	7513750,741	621780,59	-22,47828749	-43,81624311
Rota 9 - Bairro São João 2,142m	7513751,86	621764,997	-22,47827849	-43,81639474
Rota 9 - Bairro São João 2,142m	7513726,317	621676,249	-22,47851552	-43,81725531
Rota 9 - Bairro São João 2,142m	7513726,492	621652,551	-22,47851564	-43,81748564
Rota 9 - Bairro São João 2,142m	7513694,168	621647,971	-22,47880792	-43,81752767
Rota 9 - Bairro São João 2,142m	7513649,663	621634,546	-22,47921085	-43,81765473
Rota 9 - Bairro São João 2,142m	7513611,515	621623,72	-22,47955617	-43,81775702
Rota 9 - Bairro São João 2,142m	7513579,597	621613,297	-22,4798452	-43,81785588
Rota 9 - Bairro São João 2,142m	7513567,91	621600,412	-22,47995168	-43,81798021
Rota 9 - Bairro São João 2,142m	7513563,322	621581,845	-22,47999444	-43,81816031
Rota 9 - Bairro São João 2,142m	7513560,895	621567,957	-22,48001735	-43,8182951
Rota 9 - Bairro São João 2,142m	7513582,406	621500,718	-22,47982785	-43,81895024
Rota 9 - Bairro São João 2,142m	7513609,192	621470,295	-22,47958809	-43,81924797
Rota 9 - Bairro São João 2,142m	7513649,873	621437,909	-22,47922295	-43,81956584
Rota 9 - Bairro São João 2,142m	7513694,138	621426,217	-22,47882398	-43,81968286
Rota 9 - Bairro São João 2,142m	7513737,28	621421,88	-22,47843462	-43,81972832
Rota 9 - Bairro São João 2,142m	7513760,373	621421,025	-22,4782261	-43,8197384
Rota 9 - Bairro São João 2,142m	7513834,069	621428,214	-22,47755996	-43,81967417
Rota 9 - Bairro São João 2,142m	7513876,417	621450,815	-22,47717586	-43,81945776
Rota 9 - Bairro São João 2,142m	7513920,08	621477,045	-22,47677963	-43,81920618
Rota 9 - Bairro São João 2,142m	7513955,677	621486,502	-22,47645744	-43,819117
Rota 9 - Bairro São João 2,142m	7514013,465	621489,78	-22,47593526	-43,81908956
Rota 9 - Bairro São João 2,142m	7514062,44	621487,826	-22,47549305	-43,81911231
Rota 9 - Bairro São João 2,142m	7514107,832	621483,188	-22,4750834	-43,81916086
Rota 9 - Bairro São João 2,142m	7514139,367	621463,186	-22,47479999	-43,81935766
Rota 9 - Bairro São João 2,142m	7514162,508	621430,638	-22,47459329	-43,81967575
Rota 9 - Bairro São João 2,142m	7514188,298	621406,74	-22,47436205	-43,81990998
Rota 9 - Bairro São João 2,142m	7514229,112	621362,824	-22,47399654	-43,82033991
Rota 9 - Bairro São João 2,142m	7514264,685	621337,753	-22,47367703	-43,82058627

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Bairro São João 2,142m	7514302,231	621320,81	-22,47333911	-43,82075381
Rota 9 - Bairro São João 76,7m	7513510,031	621652,211	-22,48047076	-43,81747234
Rota 9 - Bairro São João 76,7m	7513516,373	621667,913	-22,48041235	-43,81732021
Rota 9 - Bairro São João 76,7m	7513525,767	621685,835	-22,48032623	-43,81714676
Rota 9 - Bairro São João 76,7m	7513533,158	621704,634	-22,48025813	-43,81696461
Rota 9 - Bairro São João 76,7m	7513544,56	621720,19	-22,48015404	-43,8168143
Rota 9 - Fim da Rota 3,621m	7514301,957	621321,075	-22,47334157	-43,82075122
Rota 9 - Fim da Rota 3,621m	7514318,236	621305,586	-22,47319563	-43,82090298
Rota 9 - Fim da Rota 3,621m	7514338,006	621290,073	-22,47301817	-43,82105526
Rota 9 - Fim da Rota 3,621m	7514350,03	621281,447	-22,47291018	-43,82114001
Rota 9 - Fim da Rota 3,621m	7514399,264	621249,985	-22,47246773	-43,82144954
Rota 9 - Fim da Rota 3,621m	7514474,923	621208,652	-22,4717873	-43,82185701
Rota 9 - Fim da Rota 3,621m	7514570,701	621152,118	-22,47092624	-43,82241374
Rota 9 - Fim da Rota 3,621m	7514647,339	621106,275	-22,47023729	-43,82286511
Rota 9 - Fim da Rota 3,621m	7514681,001	621084,39	-22,4699348	-43,82308036
Rota 9 - Fim da Rota 3,621m	7514691,453	621046,537	-22,46984308	-43,82344903
Rota 9 - Fim da Rota 3,621m	7514695,691	620997,753	-22,46980825	-43,82392344
Rota 9 - Fim da Rota 3,621m	7514700,036	620966,492	-22,46977123	-43,82422758
Rota 9 - Fim da Rota 3,621m	7514718,317	620951,189	-22,46960719	-43,82437768
Rota 9 - Fim da Rota 3,621m	7514740,423	620948,188	-22,46940774	-43,82440853
Rota 9 - Fim da Rota 3,621m	7514820,203	620947,251	-22,46868722	-43,82442372
Rota 9 - Fim da Rota 3,621m	7514844,839	620940,588	-22,46846518	-43,82449035
Rota 9 - Fim da Rota 3,621m	7514863,854	620927,831	-22,46829434	-43,82461577
Rota 9 - Fim da Rota 3,621m	7514889,039	620928,872	-22,46806679	-43,82460758
Rota 9 - Fim da Rota 3,621m	7514924,264	620931,619	-22,46774844	-43,82458356
Rota 9 - Fim da Rota 3,621m	7514974,456	620932,559	-22,46729503	-43,82457825
Rota 9 - Fim da Rota 3,621m	7515020,984	620933,495	-22,46687471	-43,8245727
Rota 9 - Fim da Rota 3,621m	7515090,655	620965,321	-22,46624318	-43,82426873
Rota 9 - Fim da Rota 3,621m	7515114,553	620979,227	-22,46602635	-43,82413542
Rota 9 - Fim da Rota 3,621m	7515128,054	620977,78	-22,46590451	-43,82415051
Rota 9 - Fim da Rota 3,621m	7515219,002	620909,613	-22,46508788	-43,82481988
Rota 9 - Fim da Rota 3,621m	7515119,124	620712,57	-22,46600393	-43,82672713
Rota 9 - Fim da Rota 3,621m	7515288,735	620620,757	-22,46447847	-43,82763226
Rota 9 - Fim da Rota 3,621m	7515382,186	620719,57	-22,46362743	-43,82667911
Rota 9 - Fim da Rota 3,621m	7515481,917	620806,246	-22,46272051	-43,8258444
Rota 9 - Fim da Rota 3,621m	7515517,128	620838,545	-22,46240019	-43,82553321
Rota 9 - Fim da Rota 3,621m	7515543,737	620883,497	-22,46215667	-43,8250984
Rota 9 - Fim da Rota 3,621m	7515558,968	620912,859	-22,46201703	-43,82481423
Rota 9 - Fim da Rota 3,621m	7515561,716	620944,047	-22,46199001	-43,82451136
Rota 9 - Fim da Rota 3,621m	7515586,44	621050,27	-22,46175917	-43,823481
Rota 9 - Fim da Rota 3,621m	7515606,038	621077,475	-22,46158023	-43,82321813
Rota 9 - Fim da Rota 3,621m	7515638,111	621104,109	-22,46128865	-43,82296175
Rota 9 - Fim da Rota 3,621m	7515720,55	621180,247	-22,46053865	-43,82222816

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - Fim da Rota 3,621m	7515814,086	621247,432	-22,45968905	-43,82158243
Rota 9 - Fim da Rota 3,621m	7515848,954	621280,589	-22,45937177	-43,82126289
Rota 9 - Fim da Rota 3,621m	7515936,089	621385,892	-22,45857727	-43,82024627
Rota 9 - Fim da Rota 3,621m	7516005,946	621479,021	-22,45793969	-43,81934663
Rota 9 - Fim da Rota 3,621m	7516055,382	621564,776	-22,45748709	-43,8185171
Rota 9 - Fim da Rota 3,621m	7516073,675	621606,393	-22,45731889	-43,8181141
Rota 9 - Fim da Rota 3,621m	7516088,097	621725,404	-22,45718016	-43,81695873
Rota 9 - Fim da Rota 3,621m	7516097,209	621820,986	-22,45709104	-43,81603063
Rota 9 - Fim da Rota 3,621m	7516103,448	621915,328	-22,45702796	-43,81511435
Rota 9 - Fim da Rota 3,621m	7516114,663	621969,487	-22,45692281	-43,81458893
Rota 9 - Fim da Rota 3,621m	7516140,828	622025,059	-22,45668251	-43,81405094
Rota 9 - Fim da Rota 3,621m	7516211,365	622162,194	-22,45603561	-43,81272377
Rota 9 - Fim da Rota 3,621m	7516242,088	622180,524	-22,45575681	-43,81254802
Rota 9 - Fim da Rota 3,621m	7516288,366	622198,868	-22,45533751	-43,81237333
Rota 9 - Fim da Rota 3,621m	7516380,656	622232,102	-22,45450155	-43,81205749
Rota 9 - Fim da Rota 3,621m	7516393,978	622236,138	-22,45438094	-43,8120193
Rota 9 - Fim da Rota 3,621m	7516400,215	622238,887	-22,45432441	-43,81199307
Rota 9 - BR393 Vazador 6,293m	7516400,185	622238,746	-22,45432469	-43,81199443
Rota 9 - BR393 Vazador 6,293m	7516423,628	622268,489	-22,45411083	-43,81170722
Rota 9 - BR393 Vazador 6,293m	7516432,529	622296,937	-22,4540284	-43,81143148
Rota 9 - BR393 Vazador 6,293m	7516442,714	622349,868	-22,45393261	-43,81091793
Rota 9 - BR393 Vazador 6,293m	7516453,367	622423,016	-22,45383115	-43,81020796
Rota 9 - BR393 Vazador 6,293m	7516453,367	622423,016	-22,45383115	-43,81020796
Rota 9 - BR393 Vazador 6,293m	7516464,504	622487,717	-22,45372593	-43,80958011
Rota 9 - BR393 Vazador 6,293m	7516477,271	622571,824	-22,45360459	-43,80876382
Rota 9 - BR393 Vazador 6,293m	7516487,123	622637,695	-22,45351087	-43,80812451
Rota 9 - BR393 Vazador 6,293m	7516500,443	622722,066	-22,4533845	-43,8073057
Rota 9 - BR393 Vazador 6,293m	7516514,191	622826,132	-22,45325286	-43,80629555
Rota 9 - BR393 Vazador 6,293m	7516528,531	622920,332	-22,45311656	-43,80538132
Rota 9 - BR393 Vazador 6,293m	7516541,874	622993,257	-22,4529908	-43,80467374
Rota 9 - BR393 Vazador 6,293m	7516549,953	623027,944	-22,45291533	-43,80433731
Rota 9 - BR393 Vazador 6,293m	7516572,67	623088,984	-22,45270575	-43,80374594
Rota 9 - BR393 Vazador 6,293m	7516635,071	623214,393	-22,4521331	-43,80253218
Rota 9 - BR393 Vazador 6,293m	7516705,279	623352,573	-22,45148901	-43,80119495
Rota 9 - BR393 Vazador 6,293m	7516763,712	623463,014	-22,45095327	-43,80012635
Rota 9 - BR393 Vazador 6,293m	7516832,105	623596,551	-22,45032589	-43,79883412
Rota 9 - BR393 Vazador 6,293m	7516863,317	623654,822	-22,45003976	-43,79827033
Rota 9 - BR393 Vazador 6,293m	7516917,815	623737,753	-22,44954153	-43,79746876
Rota 9 - BR393 Vazador 6,293m	7516950,895	623780,013	-22,44923968	-43,79706071
Rota 9 - BR393 Vazador 6,293m	7516978,6	623809,13	-22,44898734	-43,79677994
Rota 9 - BR393 Vazador 6,293m	7517089,227	623909,518	-22,44798088	-43,79581313
Rota 9 - BR393 Vazador 6,293m	7517171,129	623984,075	-22,44723572	-43,79509508
Rota 9 - BR393 Vazador 6,293m	7517244,7	624055,57	-22,44656604	-43,79440614



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - BR393 Vazador 6,293m	7517313,117	624128,854	-22,44594277	-43,79369942
Rota 9 - BR393 Vazador 6,293m	7517387,217	624206,568	-22,44526785	-43,7929501
Rota 9 - BR393 Vazador 6,293m	7517463,809	624288,573	-22,44457011	-43,7921593
Rota 9 - BR393 Vazador 6,293m	7517466,994	624291,855	-22,44454111	-43,79212766
Rota 9 - BR393 Vazador 6,293m	7517538,063	624366,745	-22,44389376	-43,79140556
Rota 9 - BR393 Vazador 6,293m	7517665,407	624502,443	-22,44273371	-43,79009705
Rota 9 - BR393 Vazador 6,293m	7517745,823	624591,246	-22,44200091	-43,78924052
Rota 9 - BR393 Vazador 6,293m	7517783,207	624634,66	-22,44166009	-43,78882164
Rota 9 - BR393 Vazador 6,293m	7517820,914	624694,094	-22,4413152	-43,78824712
Rota 9 - BR393 Vazador 6,293m	7517848,619	624760,989	-22,44106008	-43,78759934
Rota 9 - BR393 Vazador 6,293m	7517917,204	624924,274	-22,4404287	-43,78601823
Rota 9 - BR393 Vazador 6,293m	7517989,569	625104,78	-22,43976189	-43,78427012
Rota 9 - BR393 Vazador 6,293m	7518023,278	625176,227	-22,4394522	-43,7835786
Rota 9 - BR393 Vazador 6,293m	7518066,327	625241,341	-22,43905861	-43,78294934
Rota 9 - BR393 Vazador 6,293m	7518133,139	625319,122	-22,43844947	-43,78219889
Rota 9 - BR393 Vazador 6,293m	7518191,693	625382,605	-22,43791595	-43,78158671
Rota 9 - BR393 Vazador 6,293m	7518264,551	625458,265	-22,43725235	-43,78085736
Rota 9 - BR393 Vazador 6,293m	7518297,508	625503,964	-22,43695133	-43,78041595
Rota 9 - BR393 Vazador 6,293m	7518328,799	625550,039	-22,43666532	-43,77997077
Rota 9 - BR393 Vazador 6,293m	7518371,17	625625,519	-22,43627709	-43,77924078
Rota 9 - BR393 Vazador 6,293m	7518423,669	625713,81	-22,43579642	-43,77838711
Rota 9 - BR393 Vazador 6,293m	7518486,107	625818,118	-22,43522481	-43,77737862
Rota 9 - BR393 Vazador 6,293m	7518486,107	625818,118	-22,43522481	-43,77737862
Rota 9 - BR393 Vazador 6,293m	7518531,998	625898,444	-22,43480442	-43,77660184
Rota 9 - BR393 Vazador 6,293m	7518586,019	625985,141	-22,43431011	-43,7757638
Rota 9 - BR393 Vazador 6,293m	7518653,681	626097,44	-22,43369071	-43,77467811
Rota 9 - BR393 Vazador 6,293m	7518700,863	626171,752	-22,43325908	-43,77395988
Rota 9 - BR393 Vazador 6,293m	7518769,878	626251,869	-22,43262982	-43,77318698
Rota 9 - BR393 Vazador 6,293m	7518904,378	626392,751	-22,43140462	-43,77182893
Rota 9 - BR393 Vazador 6,293m	7519000,31	626495,965	-22,43053053	-43,7708338
Rota 9 - BR393 Vazador 6,293m	7519129,61	626634,42	-22,42935245	-43,76949896
Rota 9 - BR393 Vazador 6,293m	7519167,892	626671,782	-22,42900393	-43,76913903
Rota 9 - BR393 Vazador 6,293m	7519208,774	626706,139	-22,42863213	-43,7688085
Rota 9 - BR393 Vazador 6,293m	7519262,111	626747,87	-22,42814731	-43,76840733
Rota 9 - BR393 Vazador 6,293m	7519322,615	626794,052	-22,42759741	-43,76796348
Rota 9 - BR393 Vazador 6,293m	7519377,564	626839,241	-22,42709776	-43,76752885
Rota 9 - BR393 Vazador 6,293m	7519440,525	626904,49	-22,42652426	-43,76689997
Rota 9 - BR393 Vazador 6,293m	7519512,464	626987,217	-22,42586837	-43,76610202
Rota 9 - BR393 Vazador 6,293m	7519607,274	627094,996	-22,42500405	-43,76506253
Rota 9 - BR393 Vazador 6,293m	7519693,442	627193,042	-22,42421849	-43,76411691
Rota 9 - BR393 Vazador 6,293m	7519721,911	627225,864	-22,42395892	-43,76380032
Rota 9 - BR393 Vazador 6,293m	7519736,426	627248,172	-22,42382616	-43,76358476
Rota 9 - BR393 Vazador 6,293m	7519749,43	627280,936	-22,42370627	-43,76326751

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - BR393 Vazador 6,293m	7519752,967	627306,792	-22,4236724	-43,76301661
Rota 9 - BR393 Vazador 6,293m	7519752,741	627330,7	-22,42367266	-43,76278432
Rota 9 - BR393 Vazador 6,293m	7519748,315	627349,051	-22,42371128	-43,76260569
Rota 9 - BR393 Vazador 6,293m	7519737,652	627379,695	-22,4238053	-43,76230714

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	


PONTO	UTMY-N	UTMX-E	LAT	LON
Início da Rota 10	7514669,165	620279,102	-22,47009862	-43,83090547
Rota 10 - Grota do Urubu 502m	7513641,123	619505,359	-22,47943841	-43,8383475
Rota 10 - Grota do Urubu 502m	7513660,792	619520,799	-22,47925968	-43,83819892
Rota 10 - Grota do Urubu 502m	7513681,631	619542,531	-22,47906993	-43,83798927
Rota 10 - Grota do Urubu 502m	7513712,764	619560,034	-22,47878751	-43,83782152
Rota 10 - Grota do Urubu 502m	7513749,463	619565,721	-22,47845564	-43,83776901
Rota 10 - Grota do Urubu 502m	7513762,88	619565,519	-22,47833447	-43,83777199
Rota 10 - Grota do Urubu 502m	7513762,403	619537,874	-22,47834071	-43,83804063
Rota 10 - Grota do Urubu 502m	7513769,633	619503,151	-22,47827784	-43,83837865
Rota 10 - Grota do Urubu 502m	7513777,97	619471,091	-22,47820478	-43,83869086
Rota 10 - Grota do Urubu 502m	7513776,233	619454,39	-22,47822165	-43,83885305
Rota 10 - Grota do Urubu 502m	7513825,187	619443,438	-22,47778025	-43,83896317
Rota 10 - Grota do Urubu 502m	7513878,681	619438,16	-22,47729745	-43,83901849
Rota 10 - Grota do Urubu 502m	7513893,286	619442,278	-22,47716524	-43,83897957
Rota 10 - Grota do Urubu 502m	7513900,93	619466,877	-22,47709448	-43,83874107
Rota 10 - Grota do Urubu 502m	7513900,64	619490,964	-22,47709542	-43,83850696
Rota 10 - Grota do Urubu 502m	7513906,848	619507,549	-22,47703819	-43,83834624
Rota 10 - Grota do Urubu 502m	7513848,498	619526,055	-22,47756391	-43,83816198
Rota 10 - Ponte Preta 3,463m	7513640,784	619505,463	-22,47944146	-43,83834646
Rota 10 - Ponte Preta 3,463m	7513635,745	619504,668	-22,47948703	-43,83835381
Rota 10 - Ponte Preta 3,463m	7513628,404	619494,649	-22,47955404	-43,83845063
Rota 10 - Ponte Preta 3,463m	7513624,052	619475,13	-22,47959472	-43,83864001
Rota 10 - Ponte Preta 3,463m	7513614,955	619427,823	-22,47968019	-43,8390991
Rota 10 - Ponte Preta 3,463m	7513608,305	619402,692	-22,47974202	-43,83934284
Rota 10 - Ponte Preta 3,463m	7513604,431	619380,689	-22,47977855	-43,8395564
Rota 10 - Ponte Preta 3,463m	7513581,457	619311,672	-22,47999088	-43,84022545
Rota 10 - Ponte Preta 3,463m	7513570,397	619262,289	-22,48009423	-43,84070457
Rota 10 - Ponte Preta 3,463m	7513540,234	619132,641	-22,48037572	-43,84196236
Rota 10 - Ponte Preta 3,463m	7513525,272	619059,281	-22,48051598	-43,84267423
Rota 10 - Ponte Preta 3,463m	7513521,781	619022,851	-22,48055005	-43,84302803
Rota 10 - Ponte Preta 3,463m	7513528,907	618942,173	-22,48049132	-43,84381267
Rota 10 - Ponte Preta 3,463m	7513555,504	618888,741	-22,48025481	-43,84433398
Rota 10 - Ponte Preta 3,463m	7513582,575	618860,887	-22,48001224	-43,84460672
Rota 10 - Ponte Preta 3,463m	7513684,535	618767,176	-22,47909784	-43,84552514
Rota 10 - Ponte Preta 3,463m	7513697,184	618744,61	-22,47898516	-43,8457454
Rota 10 - Ponte Preta 3,463m	7513712,375	618711,736	-22,47885024	-43,84606604
Rota 10 - Ponte Preta 3,463m	7513774,743	618545,229	-22,47829849	-43,84768898
Rota 10 - Ponte Preta 3,463m	7513815,081	618439,438	-22,4779415	-43,84872017
Rota 10 - Ponte Preta 3,463m	7513826,666	618391,734	-22,47784017	-43,84918466
Rota 10 - Ponte Preta 3,463m	7513864,245	618308,62	-22,47750651	-43,84999525
Rota 10 - Ponte Preta 3,463m	7513882,59	618246,538	-22,47734511	-43,85059998
Rota 10 - Ponte Preta 3,463m	7513887,811	618193,835	-22,47730161	-43,85111258
Rota 10 - Ponte Preta 3,463m	7513881,741	618022,57	-22,47736829	-43,85277664
Rota 10 - Ponte Preta 3,463m	7513865,423	617909,276	-22,47752351	-43,85387651
Rota 10 - Ponte Preta 3,463m	7513833,731	617808,963	-22,47781668	-43,85484909

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Ponte Preta 3,463m	7513821,636	617747,574	-22,47793016	-43,85544483
Rota 10 - Ponte Preta 3,463m	7513830,303	617699,24	-22,47785522	-43,85591522
Rota 10 - Ponte Preta 3,463m	7513843,684	617672,009	-22,47773623	-43,85618087
Rota 10 - Ponte Preta 3,463m	7513850,424	617649,686	-22,4776769	-43,85639832
Rota 10 - Ponte Preta 3,463m	7513843,126	617626,37	-22,47774442	-43,85662439
Rota 10 - Ponte Preta 3,463m	7513829,24	617606,99	-22,47787117	-43,85681171
Rota 10 - Ponte Preta 3,463m	7513823,579	617592,69	-22,4779233	-43,85695027
Rota 10 - Ponte Preta 3,463m	7513818,084	617556,7	-22,4779754	-43,85729965
Rota 10 - Ponte Preta 3,463m	7513827,291	617534,653	-22,47789376	-43,8575146
Rota 10 - Ponte Preta 3,463m	7513883,424	617466,717	-22,47739144	-43,85817903
Rota 10 - Ponte Preta 3,463m	7513936,423	617436,601	-22,47691481	-43,85847565
Rota 10 - Ponte Preta 3,463m	7513996,74	617416,323	-22,47637141	-43,85867719
Rota 10 - Ponte Preta 3,463m	7514059,15	617385,628	-22,47580981	-43,85898013
Rota 10 - Ponte Preta 3,463m	7514154,618	617338,142	-22,47495079	-43,8594487
Rota 10 - Ponte Preta 3,463m	7514234,756	617274,542	-22,47423133	-43,86007273
Rota 10 - Ponte Preta 3,463m	7514291,134	617224,049	-22,47372558	-43,86056762
Rota 10 - Ponte Preta 3,463m	7514356,803	617161,562	-22,47313674	-43,86117977
Rota 10 - Ponte Preta 3,463m	7514411,573	617088,698	-22,47264704	-43,86189194
Rota 10 - Ponte Preta 3,463m	7514450,634	617044,074	-22,47229729	-43,86232851
Rota 10 - Ponte Preta 3,463m	7514503,742	617020,294	-22,47181923	-43,86256353
Rota 10 - Ponte Preta 3,463m	7514519,969	617001,45	-22,47167396	-43,86274786
Rota 10 - Ponte Preta 3,463m	7514564,422	616944,298	-22,47127637	-43,86330657
Rota 10 - Ponte Preta 3,463m	7514615,986	616905,007	-22,47081332	-43,86369222
Rota 10 - Ponte Preta 3,463m	7514646,426	616911,285	-22,47053794	-43,86363345
Rota 10 - Ponte Preta 3,463m	7514674,224	616927,352	-22,47028577	-43,86347935
Rota 10 - Ponte Preta 3,463m	7514710,552	616946,532	-22,46995633	-43,86329564
Rota 10 - Ponte Preta 3,463m	7514771,345	616950,732	-22,46940694	-43,86325929
Rota 10 - Ponte Preta 3,463m	7514819,389	616946,179	-22,46897331	-43,86330709
Rota 10 - Ponte Preta 3,463m	7514856,431	616895,994	-22,46864217	-43,86379753
Rota 10 - Ponte Preta 3,463m	7514872,239	616852,263	-22,46850238	-43,86422368
Rota 10 - Ponte Preta 489m	7514872,45	616852,944	-22,46850043	-43,86421708
Rota 10 - Ponte Preta 489m	7514866,399	616845,82	-22,46855558	-43,86428587
Rota 10 - Ponte Preta 489m	7514862,851	616834,64	-22,46858838	-43,86439425
Rota 10 - Ponte Preta 489m	7514870,262	616822,534	-22,46852227	-43,86451245
Rota 10 - Ponte Preta 489m	7514883,975	616805,9	-22,46839956	-43,86467512
Rota 10 - Ponte Preta 489m	7514903,642	616786,584	-22,46822323	-43,86486428
Rota 10 - Ponte Preta 489m	7514918,159	616760,596	-22,46809389	-43,86511791
Rota 10 - Ponte Preta 489m	7514950,136	616744,399	-22,46780617	-43,86527767
Rota 10 - Ponte Preta 489m	7514971,897	616727,385	-22,46761079	-43,86544462
Rota 10 - Ponte Preta 489m	7514988,411	616710,791	-22,46746276	-43,8656071
Rota 10 - Ponte Preta 489m	7515009,094	616692,515	-22,4672772	-43,86578623
Rota 10 - Ponte Preta 489m	7515022,956	616686,992	-22,46715237	-43,86584091
Rota 10 - Ponte Preta 489m	7515041,863	616686,254	-22,46698165	-43,86584948
Rota 10 - Ponte Preta 489m	7515060,903	616675,62	-22,4668104	-43,86595423
Rota 10 - Ponte Preta 489m	7515083,279	616664,601	-22,46660904	-43,86606295

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Ponte Preta 489m	7515097,586	616657,742	-22,46648029	-43,86613066
Rota 10 - Ponte Preta 489m	7515115,922	616660,34	-22,4663145	-43,86610675
Rota 10 - Ponte Preta 489m	7515133,09	616669,604	-22,4661588	-43,86601799
Rota 10 - Ponte Preta 489m	7515167,491	616714,327	-22,46584502	-43,86558589
Rota 10 - Ponte Preta 489m	7515175,421	616725,298	-22,46577264	-43,86547986
Rota 10 - Ponte Preta 489m	7515189,767	616728,505	-22,46564285	-43,86544976
Rota 10 - Ponte Preta 489m	7515211,88	616725,637	-22,46544331	-43,86547925
Rota 10 - Ponte Preta 489m	7515228,985	616718,936	-22,46528927	-43,86554563
Rota 10 - Principal 7,677m	7514872,605	616853,202	-22,46849901	-43,86421458
Rota 10 - Principal 7,677m	7514896,405	616874,299	-22,4682826	-43,86401131
Rota 10 - Principal 7,677m	7514945,992	616920,472	-22,46783156	-43,86356624
Rota 10 - Principal 7,677m	7514978,111	616960,505	-22,46753871	-43,86317955
Rota 10 - Principal 7,677m	7515011,663	617022,597	-22,4672314	-43,8625786
Rota 10 - Principal 7,677m	7515031,934	617082,805	-22,46704418	-43,86199499
Rota 10 - Principal 7,677m	7515042,249	617156,541	-22,46694595	-43,86127917
Rota 10 - Principal 7,677m	7515045,686	617197,475	-22,46691211	-43,86088161
Rota 10 - Principal 7,677m	7515054,654	617271,937	-22,466826	-43,86015864
Rota 10 - Principal 7,677m	7515060,188	617337,63	-22,46677149	-43,85952064
Rota 10 - Principal 7,677m	7515067,54	617399,079	-22,46670087	-43,85892401
Rota 10 - Principal 7,677m	7515075,127	617498,86	-22,46662547	-43,85795489
Rota 10 - Principal 7,677m	7515087,772	617547,173	-22,46650793	-43,85748631
Rota 10 - Principal 7,677m	7515101,723	617579,847	-22,46637968	-43,85716982
Rota 10 - Principal 7,677m	7515130,253	617607,635	-22,46612007	-43,85690188
Rota 10 - Principal 7,677m	7515176,588	617639,909	-22,46569934	-43,85659167
Rota 10 - Principal 7,677m	7515255,158	617710,833	-22,46498479	-43,85590826
Rota 10 - Principal 7,677m	7515334,737	617811,568	-22,46425907	-43,85493522
Rota 10 - Principal 7,677m	7515385,567	617879,47	-22,46379528	-43,85427912
Rota 10 - Principal 7,677m	7515471,246	617994,502	-22,46301346	-43,85316762
Rota 10 - Principal 7,677m	7515524,179	618071,338	-22,46253005	-43,85242487
Rota 10 - Principal 7,677m	7515581,186	618152,317	-22,46200954	-43,85164217
Rota 10 - Principal 7,677m	7515641,959	618228,817	-22,46145533	-43,85090329
Rota 10 - Principal 7,677m	7515698,73	618304,3	-22,46093734	-43,85017399
Rota 10 - Principal 7,677m	7515775,153	618412,29	-22,46023959	-43,84913028
Rota 10 - Principal 7,677m	7515829,626	618490,893	-22,45974213	-43,8483705
Rota 10 - Principal 7,677m	7515869,453	618548,949	-22,45937837	-43,84780931
Rota 10 - Principal 7,677m	7515909,648	618630,205	-22,45900968	-43,8470227
Rota 10 - Principal 7,677m	7515952,581	618738,567	-22,45861437	-43,8459729
Rota 10 - Principal 7,677m	7516053,604	618985,53	-22,45768472	-43,84358059
Rota 10 - Principal 7,677m	7516065,122	619010,031	-22,45757899	-43,84334337
Rota 10 - Principal 7,677m	7516099,816	619100,017	-22,45725936	-43,84247153
Rota 10 - Principal 7,677m	7516109,182	619169,534	-22,45716991	-43,84179671
Rota 10 - Principal 7,677m	7516098,417	619214,779	-22,45726398	-43,84135623
Rota 10 - Principal 7,677m	7516083,579	619268,148	-22,45739428	-43,84083651
Rota 10 - Principal 7,677m	7516065,382	619277,065	-22,45755802	-43,84074849
Rota 10 - Principal 7,677m	7516028,581	619272,1	-22,45789076	-43,84079398

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Principal 7,677m	7515988,056	619272,183	-22,45825678	-43,84079013
Rota 10 - Principal 7,677m	7515962,494	619285,792	-22,45848671	-43,84065596
Rota 10 - Principal 7,677m	7515938,809	619307,569	-22,45869912	-43,84044256
Rota 10 - Principal 7,677m	7515923,933	619330,666	-22,45883187	-43,840217
Rota 10 - Principal 7,677m	7515898,125	619366,615	-22,45906246	-43,83986573
Rota 10 - Principal 7,677m	7515875,566	619385,445	-22,4592649	-43,83968105
Rota 10 - Principal 7,677m	7515849,667	619399,365	-22,45949786	-43,83954383
Rota 10 - Principal 7,677m	7515826,796	619405,262	-22,45970402	-43,83948481
Rota 10 - Principal 7,677m	7515823,327	619407,514	-22,45973519	-43,83946266
Rota 10 - Principal 7,677m	7515829,048	619411,082	-22,45968327	-43,83942842
Rota 10 - Principal 7,677m	7515853,02	619404,024	-22,45946724	-43,8394988
Rota 10 - Principal 7,677m	7515876,753	619390,757	-22,45925381	-43,83962952
Rota 10 - Principal 7,677m	7515892,923	619376,435	-22,45910876	-43,8397699
Rota 10 - Principal 7,677m	7515910,246	619359,28	-22,4589535	-43,83993792
Rota 10 - Principal 7,677m	7515925,425	619338,657	-22,45881784	-43,84013946
Rota 10 - Principal 7,677m	7515939,595	619322,945	-22,45869094	-43,84029321
Rota 10 - Principal 7,677m	7515954,807	619317,39	-22,45855393	-43,84034833
Rota 10 - Principal 7,677m	7515952,414	619332,623	-22,45857449	-43,84020012
Rota 10 - Principal 7,677m	7515946,438	619345,758	-22,45862754	-43,84007204
Rota 10 - Principal 7,677m	7515930,052	619373,718	-22,45877359	-43,8397991
Rota 10 - Principal 7,677m	7515918,812	619390,467	-22,45887394	-43,83963549
Rota 10 - Principal 7,677m	7515914,266	619406,178	-22,45891391	-43,83948249
Rota 10 - Principal 7,677m	7515910,7	619420,821	-22,45894509	-43,83933992
Rota 10 - Principal 7,677m	7515900,465	619440,441	-22,45903617	-43,83914849
Rota 10 - Principal 7,677m	7515897,042	619451,111	-22,45906634	-43,83904455
Rota 10 - Principal 7,677m	7515897,442	619464,039	-22,45906182	-43,83891895
Rota 10 - Principal 7,677m	7515903,202	619482,498	-22,45900851	-43,83874
Rota 10 - Principal 7,677m	7515911,547	619505,79	-22,4589315	-43,8385143
Rota 10 - Principal 7,677m	7515922,4	619534,859	-22,45883144	-43,83823263
Rota 10 - Principal 7,677m	7515930,011	619553,817	-22,45876137	-43,83804898
Rota 10 - Principal 7,677m	7515943,762	619572,352	-22,45863587	-43,8378699
Rota 10 - Principal 7,677m	7515969,918	619587,31	-22,45839858	-43,83772652
Rota 10 - Principal 7,677m	7516017,15	619583,192	-22,45797226	-43,83777009
Rota 10 - Principal 7,677m	7516034,448	619578,248	-22,45781637	-43,83781944
Rota 10 - Principal 7,677m	7516056,265	619569,315	-22,45761993	-43,83790788
Rota 10 - Principal 7,677m	7516066,885	619556,116	-22,45752494	-43,83803694
Rota 10 - Principal 7,677m	7516074,275	619541,671	-22,45745919	-43,83817787
Rota 10 - Principal 7,677m	7516086,524	619517,046	-22,45735029	-43,83841808
Rota 10 - Principal 7,677m	7516108,846	619477,246	-22,45715145	-43,83880652
Rota 10 - Principal 7,677m	7516114,155	619465,604	-22,45710432	-43,83892005
Rota 10 - Principal 7,677m	7516115,963	619460,036	-22,45708837	-43,83897429
Rota 10 - Principal 7,677m	7516140,698	619493,816	-22,4568626	-43,8386479
Rota 10 - Principal 7,677m	7516149,059	619500,064	-22,45678665	-43,83858781
Rota 10 - Principal 7,677m	7516131,208	619513,101	-22,45694697	-43,83845978
Rota 10 - Principal 7,677m	7516117,494	619517,22	-22,45707054	-43,83841872

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Principal 7,677m	7516097,852	619512,938	-22,45724825	-43,83845885
Rota 10 - Principal 7,677m	7516092,32	619509,534	-22,45729846	-43,83849152
Rota 10 - Principal 7,677m	7516080,171	619536,385	-22,45740631	-43,83822968
Rota 10 - Principal 7,677m	7516074,288	619547,457	-22,45745867	-43,83812164
Rota 10 - Principal 7,677m	7516070,267	619556,09	-22,45749439	-43,83803745
Rota 10 - Principal 7,677m	7516062,654	619566,983	-22,45756239	-43,83793102
Rota 10 - Principal 7,677m	7516056,441	619574,322	-22,45761799	-43,83785924
Rota 10 - Principal 7,677m	7516051,78	619583,261	-22,45765946	-43,83777203
Rota 10 - Principal 7,677m	7516048,819	619591,119	-22,45768566	-43,83769544
Rota 10 - Principal 7,677m	7516051,027	619595,492	-22,45766541	-43,83765312
Rota 10 - Principal 7,677m	7516058,058	619593,341	-22,45760206	-43,83767455
Rota 10 - Principal 7,677m	7516066,243	619590,19	-22,45752835	-43,83770578
Rota 10 - Principal 7,677m	7516076,843	619579,862	-22,45743333	-43,83780694
Rota 10 - Principal 7,677m	7516088,217	619575,293	-22,45733091	-43,8378522
Rota 10 - Principal 7,677m	7516088,913	619575,559	-22,45732461	-43,83784967
Rota 10 - Principal 7,677m	7516097,97	619577,203	-22,4572427	-43,83783438
Rota 10 - Principal 7,677m	7516110,102	619586,849	-22,45713244	-43,83774155
Rota 10 - Principal 7,677m	7516120,58	619604,242	-22,45703658	-43,83757333
Rota 10 - Principal 7,677m	7516117,227	619619,152	-22,45706582	-43,83742819
Rota 10 - Principal 7,677m	7516120,119	619626,63	-22,45703918	-43,83735574
Rota 10 - Principal 7,677m	7516112,128	619638,087	-22,45711055	-43,83724381
Rota 10 - Principal 7,677m	7516113,618	619648,956	-22,45709634	-43,8371383
Rota 10 - Principal 7,677m	7516124,432	619666,784	-22,45699741	-43,83696587
Rota 10 - Principal 7,677m	7516132,228	619685,789	-22,45692566	-43,83678178
Rota 10 - Principal 7,677m	7516139,248	619703,576	-22,45686101	-43,83660947
Rota 10 - Principal 7,677m	7516152,676	619730,916	-22,45673782	-43,8363448
Rota 10 - Principal 7,677m	7516145,042	619745,642	-22,45680573	-43,83620113
Rota 10 - Principal 7,677m	7516142,955	619754,287	-22,45682398	-43,83611697
Rota 10 - Principal 7,677m	7516143,152	619761,351	-22,45682171	-43,83604833
Rota 10 - Principal 7,677m	7516150,786	619759,562	-22,45675288	-43,8360663
Rota 10 - Principal 7,677m	7516158,055	619753,889	-22,45668762	-43,83612197
Rota 10 - Principal 7,677m	7516165,745	619747,195	-22,45661863	-43,8361876
Rota 10 - Principal 7,677m	7516176,853	619742,986	-22,45651859	-43,83622934
Rota 10 - Principal 7,677m	7516190,013	619746,674	-22,45639947	-43,8361945
Rota 10 - Principal 7,677m	7516199,844	619753,956	-22,45631017	-43,83612447
Rota 10 - Principal 7,677m	7516215,14	619754,112	-22,456172	-43,83612411
Rota 10 - Principal 7,677m	7516227,838	619752,991	-22,45605739	-43,83613596
Rota 10 - Principal 7,677m	7516239,647	619742,72	-22,45595145	-43,83623666
Rota 10 - Principal 7,677m	7516251,041	619737,126	-22,45584893	-43,83629188
Rota 10 - Principal 7,677m	7516267,792	619730,896	-22,45569806	-43,83635368
Rota 10 - Principal 7,677m	7516278,42	619725,04	-22,45560248	-43,83641138
Rota 10 - Principal 7,677m	7516271,521	619712,662	-22,45566566	-43,83653114
Rota 10 - Principal 7,677m	7516255	619676,115	-22,45581744	-43,83688503
Rota 10 - Principal 7,677m	7516227,871	619632,801	-22,45606551	-43,83730389
Rota 10 - Principal 7,677m	7516246,11	619617,676	-22,45590183	-43,83745224


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Principal 7,677m	7516255,584	619618,054	-22,45581623	-43,83744928
Rota 10 - Principal 7,677m	7516295,445	619679,795	-22,45545187	-43,83685232
Rota 10 - Principal 7,677m	7516314,99	619716,962	-22,45527274	-43,83649263
Rota 10 - Principal 7,677m	7516344,933	619767,034	-22,45499878	-43,83600833
Rota 10 - Principal 7,677m	7516366,581	619809,001	-22,45480031	-43,83560216
Rota 10 - Principal 7,677m	7516438,375	619919,084	-22,45414413	-43,83453788
Rota 10 - Principal 7,677m	7516475,511	619976,487	-22,45380468	-43,83398289
Rota 10 - Principal 7,677m	7516562,461	620131,826	-22,45300842	-43,83248001
Rota 10 - Principal 7,677m	7516589,26	620168,239	-22,4527638	-43,83212821
Rota 10 - Principal 7,677m	7516607,347	620184,115	-22,45259932	-43,83197531
Rota 10 - Principal 7,677m	7516642,007	620208,348	-22,45228456	-43,83174246
Rota 10 - Principal 7,677m	7516685,003	620223,263	-22,45189517	-43,83160078
Rota 10 - Principal 7,677m	7516736,359	620229,156	-22,45143089	-43,83154741
Rota 10 - Principal 7,677m	7516800,29	620236,963	-22,45085291	-43,83147638
Rota 10 - Principal 7,677m	7516826,359	620250,46	-22,4506165	-43,83134721
Rota 10 - Principal 7,677m	7516859,794	620277,066	-22,45031263	-43,83109121
Rota 10 - Principal 7,677m	7516884,103	620316,605	-22,45009029	-43,83070885
Rota 10 - Principal 7,677m	7516901,293	620362,462	-22,4499318	-43,83026457
Rota 10 - Principal 7,677m	7516911,302	620420,12	-22,44983733	-43,82970507
Rota 10 - Principal 7,677m	7516935,023	620503,96	-22,44961717	-43,82889221
Rota 10 - Principal 7,677m	7516931,608	620546,005	-22,44964506	-43,82848341
Rota 10 - Principal 7,677m	7516914,483	620582,368	-22,44979716	-43,82812877
Rota 10 - Principal 7,677m	7516851,704	620632,386	-22,45036066	-43,82763799
Rota 10 - Principal 7,677m	7516788,058	620644,737	-22,45093465	-43,82751314
Rota 10 - Principal 7,677m	7516727,819	620695,132	-22,45147518	-43,82701887
Rota 10 - Principal 7,677m	7516700,737	620769,442	-22,45171454	-43,82629475
Rota 10 - Principal 7,677m	7516696,772	620831,549	-22,45174597	-43,82569096
Rota 10 - Principal 7,677m	7516709,892	620904,837	-22,45162228	-43,82497981
Rota 10 - Principal 7,677m	7516710,575	620974,748	-22,45161116	-43,82430054
Rota 10 - Principal 7,677m	7516714,808	621041,734	-22,45156819	-43,82364996
Rota 10 - Principal 7,677m	7516706,887	621124,72	-22,45163385	-43,82284298
Rota 10 - Principal 7,677m	7516687,577	621192,656	-22,45180344	-43,82218138
Rota 10 - Principal 7,677m	7516687,568	621193,665	-22,45180345	-43,82217157
Rota 10 - Principal 7,677m	7516657,49	621322,098	-22,45206601	-43,8209213
Rota 10 - Principal 7,677m	7516632,073	621445,094	-22,45228685	-43,8197242
Rota 10 - Principal 7,677m	7516612,897	621531,236	-22,45245392	-43,81888569
Rota 10 - Principal 7,677m	7516594,053	621591,579	-22,45261982	-43,81829789
Rota 10 - Principal 7,677m	7516517,886	621888,813	-22,4532866	-43,81540382
Rota 10 - Principal 7,677m	7516502,959	622003,414	-22,45341325	-43,81428908
Rota 10 - Principal 7,677m	7516479,74	622111,755	-22,45361522	-43,81323454
Rota 10 - Principal 7,677m	7516465,978	622174,439	-22,45373504	-43,81262437
Rota 10 - Principal 7,677m	7516454,564	622196,043	-22,45383659	-43,81241357
Rota 10 - Principal 7,677m	7516436,077	622226,532	-22,45400139	-43,81211588
Rota 10 - Principal 7,677m	7516424,617	622237,471	-22,45410411	-43,81200871
Rota 10 - Principal 7,677m	7516402,648	622238,379	-22,45430247	-43,81199819




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Lago Azul 153m	7515054,56	617273,084	-22,46682676	-43,86014749
Rota 10 - Lago Azul 153m	7515061,032	617277,362	-22,46676801	-43,8601064
Rota 10 - Lago Azul 153m	7515064,027	617287,385	-22,46674027	-43,86000921
Rota 10 - Lago Azul 153m	7515064,406	617288,16	-22,4667368	-43,86000171
Rota 10 - Lago Azul 153m	7515070,466	617304,48	-22,46668094	-43,85984356
Rota 10 - Lago Azul 153m	7515080,055	617317,809	-22,46659341	-43,85971473
Rota 10 - Lago Azul 153m	7515092,773	617325,708	-22,46647799	-43,85963891
Rota 10 - Lago Azul 153m	7515105,14	617336,772	-22,46636553	-43,85953231
Rota 10 - Lago Azul 153m	7515116,78	617345,121	-22,46625982	-43,85945202
Rota 10 - Lago Azul 153m	7515127,638	617351,095	-22,46616134	-43,85939478
Rota 10 - Lago Azul 153m	7515147,777	617357,499	-22,465979	-43,85933403
Rota 10 - Lago Azul 153m	7515163,632	617361,113	-22,46583554	-43,85930008
Rota 10 - Lago Azul 153m	7515167,902	617363,109	-22,46579684	-43,859281
Rota 10 - Bravel 268m	7515824,479	619407,534	-22,45972479	-43,83946255
Rota 10 - Bravel 268m	7515830,646	619426,684	-22,45966774	-43,83927692
Rota 10 - Bravel 268m	7515838,982	619454,33	-22,45959052	-43,8390089
Rota 10 - Bravel 268m	7515850,126	619473,728	-22,45948851	-43,83882123
Rota 10 - Bravel 268m	7515854,976	619492,363	-22,4594434	-43,83864051
Rota 10 - Bravel 268m	7515863,794	619502,971	-22,45936301	-43,83853809
Rota 10 - Bravel 268m	7515868,039	619518	-22,45932361	-43,83839237
Rota 10 - Bravel 268m	7515870,621	619531,288	-22,45929937	-43,83826343
Rota 10 - Bravel 268m	7515876,036	619547,523	-22,45924932	-43,83810608
Rota 10 - Bravel 268m	7515883,214	619564,544	-22,4591833	-43,83794122
Rota 10 - Bravel 268m	7515890,302	619583,643	-22,45911794	-43,83775615
Rota 10 - Bravel 268m	7515905,649	619602,551	-22,458978	-43,83757357
Rota 10 - Bravel 268m	7515934,944	619628,611	-22,45871157	-43,83732254
Rota 10 - Bravel 268m	7515943,324	619641,371	-22,458635	-43,83719917
Rota 10 - Torre 147m	7516116,909	619619,477	-22,45706867	-43,83742501
Rota 10 - Torre 147m	7516109,902	619623,094	-22,45713171	-43,83738933
Rota 10 - Torre 147m	7516104,643	619631,328	-22,45717863	-43,83730892
Rota 10 - Torre 147m	7516100,003	619639,435	-22,45721997	-43,83722979
Rota 10 - Torre 147m	7516099,37	619651,15	-22,45722487	-43,8371159
Rota 10 - Torre 147m	7516102,019	619661,771	-22,4572002	-43,83701289
Rota 10 - Torre 147m	7516101,483	619672,217	-22,45720431	-43,83691134
Rota 10 - Torre 147m	7516097,21	619688,141	-22,45724179	-43,83675628
Rota 10 - Torre 147m	7516093,815	619699,702	-22,45727164	-43,83664369
Rota 10 - Torre 147m	7516088,531	619713,402	-22,45731841	-43,83651016
Rota 10 - Torre 147m	7516084,909	619732,941	-22,45734975	-43,83632001
Rota 10 - Torre 147m	7516079,482	619750,344	-22,45739755	-43,8361505
Rota 10 - Torre 147m	7516078,161	619755,505	-22,45740912	-43,83610024
Rota 10 - 447m	7516828,373	620252,172	-22,45059819	-43,83133073
Rota 10 - 447m	7516835,573	620243,05	-22,4505338	-43,83141991
Rota 10 - 447m	7516840,966	620235,693	-22,45048561	-43,8314918
Rota 10 - 447m	7516856,784	620218,997	-22,45034391	-43,83165524
Rota 10 - 447m	7516865,619	620209,11	-22,45026481	-43,83175198

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - 447m	7516884,038	620197,201	-22,45009928	-43,83186908
Rota 10 - 447m	7516908,261	620185,511	-22,44988131	-43,83198451
Rota 10 - 447m	7516918,231	620175,791	-22,44979195	-43,83207972
Rota 10 - 447m	7516927,35	620161,972	-22,44971056	-43,83221468
Rota 10 - 447m	7516948,291	620129,184	-22,44952372	-43,83253486
Rota 10 - 447m	7516949,018	620127,037	-22,4495173	-43,83255578
Rota 10 - 447m	7516954,514	620121,303	-22,44946807	-43,83261191
Rota 10 - 447m	7516972,401	620100,177	-22,44930799	-43,83281854
Rota 10 - 447m	7516989,716	620091,025	-22,44915224	-43,83290877
Rota 10 - 447m	7517012,141	620089,212	-22,44894982	-43,83292809
Rota 10 - 447m	7517044,88	620095,676	-22,44865366	-43,83286775
Rota 10 - 447m	7517065,644	620103,678	-22,44846556	-43,83279157
Rota 10 - 447m	7517083,01	620121,244	-22,44830746	-43,8326222
Rota 10 - 447m	7517097,912	620139,198	-22,44817161	-43,83244887
Rota 10 - 447m	7517112,879	620170,47	-22,44803422	-43,83214614
Rota 10 - 447m	7517122,687	620183,992	-22,44794468	-43,83201549
Rota 10 - 447m	7517142,133	620188,583	-22,44776872	-43,83197235
Rota 10 - 447m	7517159,301	620187,917	-22,44761371	-43,83198013
Rota 10 - Principal 2x 2,265m	7516403,172	622238,773	-22,45429771	-43,8119944
Rota 10 - Principal 2x 2,265m	7516391,985	622234,641	-22,45439905	-43,8120337
Rota 10 - Principal 2x 2,265m	7516350,968	622218,767	-22,45477066	-43,81218479
Rota 10 - Principal 2x 2,265m	7516321,035	622208,528	-22,45504175	-43,81228198
Rota 10 - Principal 2x 2,265m	7516301,203	622204,003	-22,45522119	-43,81232442
Rota 10 - Principal 2x 2,265m	7516248,692	622184,685	-22,45569686	-43,81250809
Rota 10 - Principal 2x 2,265m	7516214,195	622163,761	-22,45600994	-43,81270876
Rota 10 - Principal 2x 2,265m	7516193,851	622138,815	-22,45619547	-43,81294961
Rota 10 - Principal 2x 2,265m	7516174,724	622090,436	-22,45637168	-43,81341825
Rota 10 - Principal 2x 2,265m	7516146,061	622030,605	-22,45663485	-43,81399744
Rota 10 - Principal 2x 2,265m	7516127,077	621991,357	-22,45680912	-43,81437737
Rota 10 - Principal 2x 2,265m	7516115,545	621966,003	-22,45691508	-43,81462285
Rota 10 - Principal 2x 2,265m	7516105,368	621895,403	-22,45701204	-43,81530812
Rota 10 - Principal 2x 2,265m	7516097,552	621791,539	-22,45709004	-43,8163168
Rota 10 - Principal 2x 2,265m	7516084,185	621676,512	-22,45721897	-43,81743353
Rota 10 - Principal 2x 2,265m	7516072,118	621598,353	-22,45733353	-43,81819211
Rota 10 - Principal 2x 2,265m	7516042,681	621545,916	-22,45760314	-43,8186994
Rota 10 - Principal 2x 2,265m	7515978,227	621443,622	-22,45819258	-43,8196885
Rota 10 - Principal 2x 2,265m	7515924,929	621371,204	-22,45867911	-43,82038815
Rota 10 - Principal 2x 2,265m	7515852,668	621289,786	-22,45933756	-43,8211738
Rota 10 - Principal 2x 2,265m	7515811,872	621241,952	-22,45970944	-43,82163551
Rota 10 - Principal 2x 2,265m	7515765,239	621204,059	-22,46013333	-43,82200018
Rota 10 - Principal 2x 2,265m	7515686,825	621146,916	-22,46084562	-43,82254949
Rota 10 - Principal 2x 2,265m	7515622,099	621082,849	-22,46143478	-43,82316713
Rota 10 - Principal 2x 2,265m	7515596,724	621048,693	-22,46166639	-43,82349711
Rota 10 - Principal 2x 2,265m	7515570,758	620978,86	-22,46190587	-43,82417375
Rota 10 - Principal 2x 2,265m	7515558,374	620912,475	-22,46202242	-43,82481791

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
	CREA: 1996101066			


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Principal 2x 2,265m	7515542,567	620879	-22,46216756	-43,82514201
Rota 10 - Principal 2x 2,265m	7515502,072	620826,219	-22,46253706	-43,82565184
Rota 10 - Principal 2x 2,265m	7515397,576	620735,31	-22,4634873	-43,82652732
Rota 10 - Principal 2x 2,265m	7515288,168	620620,429	-22,46448361	-43,8276354
Rota 10 - Principal 2x 2,265m	7515119,176	620710,202	-22,46600363	-43,82675014
Rota 10 - Principal 5,701m	7514927,117	620811,212	-22,4677312	-43,82575391
Rota 10 - Principal 5,701m	7515119,915	620710,735	-22,46599692	-43,82674502
Rota 10 - Principal 5,701m	7514857,46	620846,073	-22,46835788	-43,82540983
Rota 10 - Principal 5,701m	7514809,901	620872,377	-22,46878558	-43,82515058
Rota 10 - Principal 5,701m	7514787,155	620850,912	-22,46899254	-43,82535745
Rota 10 - Principal 5,701m	7514770,605	620845,314	-22,46914242	-43,82541059
Rota 10 - Principal 5,701m	7514742,796	620844,645	-22,46939364	-43,82541497
Rota 10 - Principal 5,701m	7514728,374	620854,753	-22,46952318	-43,82531563
Rota 10 - Principal 5,701m	7514716,994	620873,2	-22,46962467	-43,8251355
Rota 10 - Principal 5,701m	7514703,581	620895,68	-22,46974422	-43,82491601
Rota 10 - Principal 5,701m	7514688,038	620930,567	-22,46988214	-43,82457579
Rota 10 - Principal 5,701m	7514678,558	620979,852	-22,46996427	-43,8240961
Rota 10 - Principal 5,701m	7514675,183	621024,151	-22,46999161	-43,82366533
Rota 10 - Principal 5,701m	7514671,847	621068,286	-22,47001862	-43,82323616
Rota 10 - Principal 5,701m	7514672,764	621080,705	-22,47000946	-43,82311555
Rota 10 - Principal 5,701m	7514672,748	621082,769	-22,47000946	-43,82309549
Rota 10 - Principal 5,701m	7514664,543	621095,909	-22,47008263	-43,82296716
Rota 10 - Principal 5,701m	7514642,235	621108,472	-22,47028323	-43,82284336
Rota 10 - Principal 5,701m	7514614,122	621124,438	-22,47053602	-43,82268606
Rota 10 - Principal 5,701m	7514484,569	621203,029	-22,47170058	-43,82191239
Rota 10 - Principal 5,701m	7514393,671	621257,438	-22,47251771	-43,82137667
Rota 10 - Principal 5,701m	7514344,797	621290,597	-22,47295679	-43,82105069
Rota 10 - Principal 5,701m	7514291,409	621326,39	-22,47343646	-43,82069875
Rota 10 - Principal 5,701m	7514277,873	621338,422	-22,47355786	-43,82058079
Rota 10 - Principal 5,701m	7514268,335	621347,862	-22,47364334	-43,82048831
Rota 10 - Principal 5,701m	7514242,467	621369,718	-22,47387543	-43,82027393
Rota 10 - Principal 5,701m	7514232,368	621383,579	-22,47396565	-43,82013844
Rota 10 - Principal 5,701m	7514227,875	621398,333	-22,47400519	-43,81999471
Rota 10 - Principal 5,701m	7514226,765	621420,808	-22,47401362	-43,8197762
Rota 10 - Principal 5,701m	7514230,567	621443,573	-22,47397766	-43,81955525
Rota 10 - Principal 5,701m	7514232,341	621458,564	-22,47396056	-43,8194097
Rota 10 - Principal 5,701m	7514236,342	621472,653	-22,47392342	-43,81927308
Rota 10 - Principal 5,701m	7514234,118	621477,042	-22,47394321	-43,81923025
Rota 10 - Principal 5,701m	7514228,52	621477,81	-22,47399371	-43,81922236
Rota 10 - Principal 5,701m	7514216,814	621472,368	-22,47409983	-43,81927435
Rota 10 - Principal 5,701m	7514209,58	621472,028	-22,47416519	-43,8192771
Rota 10 - Principal 5,701m	7514201,559	621482,841	-22,47423687	-43,8191714
Rota 10 - Principal 5,701m	7514202,025	621501,32	-22,47423134	-43,81899185
Rota 10 - Principal 5,701m	7514220,852	621515,743	-22,47406027	-43,81885312
Rota 10 - Principal 5,701m	7514243,532	621521,6	-22,473855	-43,81879794

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Principal 5,701m	7514264,934	621527,486	-22,47366128	-43,81874237
Rota 10 - Principal 5,701m	7514287,412	621536,977	-22,47345758	-43,81865185
Rota 10 - Principal 5,701m	7514303,123	621541,26	-22,47331537	-43,81861143
Rota 10 - Principal 5,701m	7514320,648	621535,708	-22,47315747	-43,81866674
Rota 10 - Principal 5,701m	7514345,781	621526,384	-22,47293114	-43,81875928
Rota 10 - Principal 5,701m	7514376,893	621517,168	-22,47265079	-43,81885123
Rota 10 - Principal 5,701m	7514401,642	621506,416	-22,47242802	-43,81895761
Rota 10 - Principal 5,701m	7514422,628	621496,589	-22,47223916	-43,81905473
Rota 10 - Principal 5,701m	7514443,372	621488,373	-22,47205239	-43,81913616
Rota 10 - Principal 5,701m	7514450,824	621486,324	-22,47198523	-43,81915664
Rota 10 - Principal 5,701m	7514467,259	621499,854	-22,47183582	-43,81902641
Rota 10 - Principal 5,701m	7514483,686	621520,5	-22,47168599	-43,81882702
Rota 10 - Principal 5,701m	7514496,5	621538,312	-22,47156897	-43,8186549
Rota 10 - Principal 5,701m	7514513,249	621540,233	-22,47141756	-43,81863751
Rota 10 - Principal 5,701m	7514525,056	621544,013	-22,47131065	-43,81860169
Rota 10 - Principal 5,701m	7514539,976	621547,891	-22,47117561	-43,81856514
Rota 10 - Principal 5,701m	7514562,692	621537,26	-22,4709712	-43,81867019
Rota 10 - Principal 5,701m	7514589,029	621531,662	-22,47073372	-43,81872662
Rota 10 - Principal 5,701m	7514605,66	621539,49	-22,47058295	-43,81865181
Rota 10 - Principal 5,701m	7514610,203	621554,386	-22,47054086	-43,8185074
Rota 10 - Principal 5,701m	7514609,811	621568,023	-22,47054343	-43,81837484
Rota 10 - Principal 5,701m	7514601,198	621581,035	-22,47062029	-43,81824773
Rota 10 - Principal 5,701m	7514585,629	621591,064	-22,4707602	-43,81814906
Rota 10 - Principal 5,701m	7514567,854	621590,792	-22,47092076	-43,81815035
Rota 10 - Principal 5,701m	7514554,423	621599,536	-22,47104145	-43,81806434
Rota 10 - Principal 5,701m	7514555,095	621606,947	-22,47103486	-43,81799237
Rota 10 - Principal 5,701m	7514558,498	621616,366	-22,47100344	-43,8179011
Rota 10 - Principal 5,701m	7514573,057	621625,045	-22,47087133	-43,81781786
Rota 10 - Principal 5,701m	7514595,731	621637,752	-22,47066563	-43,81769612
Rota 10 - Principal 5,701m	7514613,227	621649,169	-22,47050679	-43,8175865
Rota 10 - Principal 5,701m	7514618,607	621660,951	-22,47045736	-43,81747241
Rota 10 - Principal 5,701m	7514625,307	621679,716	-22,47039551	-43,81729057
Rota 10 - Principal 5,701m	7514632,518	621689,376	-22,47032969	-43,81719724
Rota 10 - Principal 5,701m	7514641,396	621705,742	-22,47024833	-43,81703887
Rota 10 - Principal 5,701m	7514651,651	621731,17	-22,47015389	-43,81679254
Rota 10 - Principal 5,701m	7514655,978	621746,554	-22,47011372	-43,81664337
Rota 10 - Principal 5,701m	7514662,817	621765,654	-22,47005059	-43,81645827
Rota 10 - Principal 5,701m	7514665,426	621784,444	-22,47002568	-43,81627587
Rota 10 - Principal 5,701m	7514666,719	621813,102	-22,47001195	-43,81599747
Rota 10 - Principal 5,701m	7514669,077	621828,798	-22,46998954	-43,81584511
Rota 10 - Principal 5,701m	7514672,393	621843,83	-22,46995852	-43,81569928
Rota 10 - Principal 5,701m	7514675,792	621857,964	-22,46992681	-43,81556218
Rota 10 - Principal 5,701m	7514687,472	621873,979	-22,46982017	-43,81540744
Rota 10 - Principal 5,701m	7514701,731	621894,927	-22,46968989	-43,81520495
Rota 10 - Principal 5,701m	7514714,862	621912,243	-22,46957005	-43,81503769

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Principal 5,701m	7514725,304	621918,729	-22,46947527	-43,81497546
Rota 10 - Principal 5,701m	7514739,451	621927,764	-22,46934685	-43,81488874
Rota 10 - Principal 5,701m	7514750,181	621938,817	-22,46924915	-43,81478215
Rota 10 - Principal 5,701m	7514764,986	621957,014	-22,46911412	-43,81460645
Rota 10 - Principal 5,701m	7514771,378	621968,406	-22,46905558	-43,81449623
Rota 10 - Principal 5,701m	7514769,217	621978,526	-22,46907437	-43,81439771
Rota 10 - Principal 5,701m	7514762,667	621987,732	-22,46913287	-43,81430774
Rota 10 - Principal 5,701m	7514758,394	622001,384	-22,46917049	-43,81417474
Rota 10 - Principal 5,701m	7514759,083	622014,412	-22,46916334	-43,81404818
Rota 10 - Principal 5,701m	7514763,058	622030,759	-22,46912627	-43,81388963
Rota 10 - Principal 5,701m	7514761,348	622039,079	-22,46914112	-43,81380865
Rota 10 - Principal 5,701m	7514769,086	622045,693	-22,46907076	-43,81374497
Rota 10 - Principal 5,701m	7514788,5	622063,446	-22,46889414	-43,81357393
Rota 10 - Principal 5,701m	7514816,244	622088,76	-22,46864174	-43,81333006
Rota 10 - Principal 5,701m	7514827,336	622101,766	-22,46854063	-43,81320452
Rota 10 - Principal 5,701m	7514829,618	622114,949	-22,46851907	-43,81307658
Rota 10 - Principal 5,701m	7514825,199	622130,433	-22,46855788	-43,81292577
Rota 10 - Principal 5,701m	7514818,301	622146,292	-22,46861905	-43,81277111
Rota 10 - Principal 5,701m	7514819,383	622159,603	-22,46860833	-43,81264183
Rota 10 - Principal 5,701m	7514822,131	622172,784	-22,46858256	-43,81251396
Rota 10 - Principal 5,701m	7514821,1	622183,166	-22,46859113	-43,81241299
Rota 10 - Principal 5,701m	7514817,961	622190,084	-22,46861899	-43,81234551
Rota 10 - Principal 5,701m	7514816,003	622197,963	-22,46863611	-43,81226879
Rota 10 - Principal 5,701m	7514820,563	622206,998	-22,46859428	-43,81218134
Rota 10 - Principal 5,701m	7514828,842	622207,168	-22,46851949	-43,81218033
Rota 10 - Principal 5,701m	7514841,762	622204,036	-22,46840301	-43,81221176
Rota 10 - Principal 5,701m	7514860,145	622198,521	-22,46823738	-43,81226677
Rota 10 - Principal 5,701m	7514872,051	622189,127	-22,46813051	-43,81235897
Rota 10 - Principal 5,701m	7514873,181	622188,899	-22,46812032	-43,81236128
Rota 10 - Principal 5,701m	7514877,561	622178,164	-22,46808153	-43,81246594
Rota 10 - Principal 5,701m	7514880,936	622162,093	-22,46805219	-43,81262238
Rota 10 - Principal 5,701m	7514893,837	622141,339	-22,46793716	-43,81282507
Rota 10 - Principal 5,701m	7514917,043	622130,098	-22,46772836	-43,81293608
Rota 10 - Principal 5,701m	7514931,031	622117,22	-22,46760294	-43,81306231
Rota 10 - Principal 5,701m	7514940,209	622108,548	-22,46752067	-43,81314729
Rota 10 - Principal 5,701m	7514971,416	622095,628	-22,46723973	-43,81327525
Rota 10 - Principal 5,701m	7514990,715	622083,992	-22,46706624	-43,81338982
Rota 10 - Principal 5,701m	7515012,28	622080,614	-22,46687171	-43,81342431
Rota 10 - Principal 5,701m	7515030,602	622070,754	-22,46670693	-43,81352153
Rota 10 - Principal 5,701m	7515048,868	622053,974	-22,46654314	-43,81368601
Rota 10 - Principal 5,701m	7515064,939	622049,663	-22,46639983	-43,81372914
Rota 10 - Principal 5,701m	7515085,195	622053,745	-22,46621506	-43,81369103
Rota 10 - Principal 5,701m	7515144,659	622070,977	-22,46567674	-43,81352814
Rota 10 - Principal 5,701m	7515155,287	622072,863	-22,4655806	-43,81351062
Rota 10 - Principal 5,701m	7515167,257	622070,838	-22,46547264	-43,81353123

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Principal 5,701m	7515187,702	622059,649	-22,46528878	-43,81364153
Rota 10 - Principal 5,701m	7515212,086	622045,42	-22,46506956	-43,81378168
Rota 10 - Principal 5,701m	7515214,74	622042,022	-22,46504583	-43,8138149
Rota 10 - Principal 5,701m	7515249,174	621988,373	-22,46473865	-43,81433891
Rota 10 - Principal 5,701m	7515270,679	621954,823	-22,46454681	-43,81466659
Rota 10 - Principal 5,701m	7515290,863	621929,202	-22,46436633	-43,81491713
Rota 10 - Principal 5,701m	7515314,548	621917,01	-22,46415328	-43,81503742
Rota 10 - Principal 5,701m	7515451,936	621865,969	-22,46291602	-43,81554398
Rota 10 - Principal 5,701m	7515481,738	621857,035	-22,46264748	-43,81563308
Rota 10 - Principal 5,701m	7515533,526	621832,828	-22,46218145	-43,81587229
Rota 10 - Principal 5,701m	7515595,741	621806,322	-22,46162141	-43,81613465
Rota 10 - Principal 5,701m	7515587,714	621788,042	-22,46169521	-43,81631167
Rota 10 - Principal 5,701m	7515566,162	621750,106	-22,46189258	-43,81667867
Rota 10 - Principal 5,701m	7515549,501	621721,959	-22,46204507	-43,81695092
Rota 10 - Principal 5,701m	7515545,675	621696,564	-22,46208144	-43,8171974
Rota 10 - Principal 5,701m	7515538,636	621660,72	-22,46214757	-43,81754519
Rota 10 - Principal 5,701m	7515544,291	621631,727	-22,46209855	-43,81782736
Rota 10 - Principal 5,701m	7515549,293	621607,013	-22,46205514	-43,8180679
Rota 10 - Principal 5,701m	7515548,451	621586,439	-22,4620642	-43,81826778
Rota 10 - Principal 5,701m	7515537,987	621571,049	-22,46215982	-43,81841652
Rota 10 - Principal 5,701m	7515519,3	621560,128	-22,46232937	-43,81852123
Rota 10 - Principal 5,701m	7515502,352	621544,701	-22,46248355	-43,81866984
Rota 10 - Principal 5,701m	7515472,499	621522,602	-22,46275476	-43,8188823
Rota 10 - Principal 5,701m	7515436,205	621492,733	-22,46308469	-43,81916979
Rota 10 - Principal 5,701m	7515399,81	621464,85	-22,4634154	-43,81943797
Rota 10 - Principal 5,701m	7515374,074	621445,198	-22,46364925	-43,81962697
Rota 10 - Principal 5,701m	7515357,486	621427,954	-22,4638003	-43,81979328
Rota 10 - Principal 5,701m	7515317,805	621383,591	-22,46416186	-43,82022136
Rota 10 - Principal 5,701m	7515296,24	621360,316	-22,46435829	-43,82044589
Rota 10 - Principal 5,701m	7515225,734	621277,923	-22,46500096	-43,82124118
Rota 10 - Principal 5,701m	7515204,751	621240,901	-22,46519311	-43,82159936
Rota 10 - Principal 5,701m	7515186,182	621201,47	-22,46536363	-43,82198113
Rota 10 - Principal 5,701m	7515174,839	621165,406	-22,46546864	-43,82233073
Rota 10 - Principal 5,701m	7515143,633	621059,493	-22,465758	-43,82335761
Rota 10 - Principal 5,701m	7515133,338	621038,288	-22,4658525	-43,82356289
Rota 10 - Principal 5,701m	7515118,486	621021,243	-22,46598785	-43,8237274
Rota 10 - Principal 5,701m	7515090,827	620995,375	-22,46623951	-43,82397668
Rota 10 - Principal 5,701m	7515070,98	620984,417	-22,46641954	-43,82408165
Rota 10 - Principal 5,701m	7515051,495	620976,616	-22,46659608	-43,82415598
Rota 10 - Principal 5,701m	7515028,019	620967,195	-22,46680879	-43,82424575
Rota 10 - Principal 5,701m	7514998,3	620961,205	-22,46707764	-43,82430169
Rota 10 - Principal 5,701m	7514976,613	620958,384	-22,46727372	-43,82432745
Rota 10 - Principal 5,701m	7514844,115	620948,307	-22,46847118	-43,82441528
Rota 10 - Principal 5,701m	7514848,249	620933,005	-22,46843492	-43,8245643
Rota 10 - Principal 5,701m	7514863,859	620927,821	-22,4682943	-43,82461587

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Principal 5,701m	7514895,791	620929,944	-22,46800573	-43,82459768
Rota 10 - Principal 5,701m	7514953,526	620930,342	-22,46748423	-43,82459821
Rota 10 - Principal 5,701m	7515021,343	620938,744	-22,4668711	-43,82452172
Rota 10 - Principal 5,701m	7515068,572	620955,798	-22,46644332	-43,82435959
Rota 10 - Principal 5,701m	7515115,205	620978,964	-22,46602048	-43,82413802
Rota 10 - Principal 5,701m	7515134,395	620977,423	-22,46584727	-43,82415446
Rota 10 - Principal 5,701m	7515156,214	620960,903	-22,46565136	-43,82431665
Rota 10 - Principal 5,701m	7515220,037	620912,081	-22,46507836	-43,82479597
Rota 10 - Principal 5,701m	7515158,642	620791,173	-22,46564144	-43,82596627
Rota 10 - Principal 5,701m	7515120,038	620710,377	-22,46599583	-43,82674851
Rota 10 - Caixa D'água 270m	7514451,126	621487,032	-22,47198245	-43,81914978
Rota 10 - Caixa D'água 270m	7514449,94	621478,284	-22,47199379	-43,81923471
Rota 10 - Caixa D'água 270m	7514459,793	621469,416	-22,47190542	-43,81932165
Rota 10 - Caixa D'água 270m	7514472,936	621453,827	-22,47178782	-43,81947416
Rota 10 - Caixa D'água 270m	7514480,477	621441,073	-22,47172062	-43,81959868
Rota 10 - Caixa D'água 270m	7514477,824	621429,684	-22,47174539	-43,81970916
Rota 10 - Caixa D'água 270m	7514471,236	621413,232	-22,47180606	-43,81986854
Rota 10 - Caixa D'água 270m	7514462,07	621397,484	-22,47188997	-43,82002089
Rota 10 - Caixa D'água 270m	7514459,363	621384,497	-22,47191535	-43,82014689
Rota 10 - Caixa D'água 270m	7514458,06	621377,145	-22,47192764	-43,82021824
Rota 10 - Caixa D'água 270m	7514467,141	621358,557	-22,47184694	-43,82039958
Rota 10 - Caixa D'água 270m	7514476,76	621339,617	-22,47176141	-43,82058438
Rota 10 - Caixa D'água 270m	7514498,762	621310,301	-22,47156477	-43,82087097
Rota 10 - Caixa D'água 270m	7514540,808	621260,178	-22,47118856	-43,82136129
Rota 10 - Caixa D'água 318m	7514496,878	621538,555	-22,47156555	-43,81865257
Rota 10 - Caixa D'água 318m	7514493,227	621544,404	-22,4715981	-43,81859545
Rota 10 - Caixa D'água 318m	7514493,468	621554,412	-22,47159522	-43,81849821
Rota 10 - Caixa D'água 318m	7514495,783	621567,004	-22,47157341	-43,81837601
Rota 10 - Caixa D'água 318m	7514497,233	621585,009	-22,47155903	-43,81820114
Rota 10 - Caixa D'água 318m	7514497,515	621601,42	-22,47155531	-43,81804168
Rota 10 - Caixa D'água 318m	7514496,163	621617,022	-22,47156642	-43,81788994
Rota 10 - Caixa D'água 318m	7514490,812	621626,993	-22,47161404	-43,81779263
Rota 10 - Caixa D'água 318m	7514483,908	621640,701	-22,47167541	-43,81765888
Rota 10 - Caixa D'água 318m	7514481,22	621649,083	-22,4716991	-43,81757722
Rota 10 - Caixa D'água 318m	7514477,627	621659,903	-22,47173078	-43,81747179
Rota 10 - Caixa D'água 318m	7514475,95	621668,543	-22,47174531	-43,81738769
Rota 10 - Caixa D'água 318m	7514472,417	621675,238	-22,47177674	-43,81732236
Rota 10 - Caixa D'água 318m	7514464,491	621685,275	-22,47184761	-43,81722421
Rota 10 - Caixa D'água 318m	7514454,868	621700,798	-22,47193343	-43,81707261
Rota 10 - Caixa D'água 318m	7514450,785	621708,144	-22,47196978	-43,81700091
Rota 10 - Caixa D'água 318m	7514447,155	621723,825	-22,47200145	-43,81684823
Rota 10 - Caixa D'água 318m	7514446,378	621739,632	-22,47200734	-43,81669456
Rota 10 - Caixa D'água 318m	7514449,084	621760,584	-22,47198141	-43,81649114
Rota 10 - Caixa D'água 318m	7514455,635	621776,548	-22,4719211	-43,8163365
Rota 10 - Caixa D'água 318m	7514466,043	621789,606	-22,47182616	-43,8162104


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Caixa D'água 318m	7514477,577	621798,085	-22,47172138	-43,81612888
Rota 10 - Caixa D'água 318m	7514495,321	621811,616	-22,47156015	-43,81599874
Rota 10 - Caixa D'água 318m	7514504,587	621819,337	-22,4714759	-43,81592442
Rota 10 - 87m	7514632,497	621689,164	-22,4703299	-43,8171993
Rota 10 - 87m	7514633,045	621682,509	-22,47032542	-43,81726401
Rota 10 - 87m	7514630,828	621673,706	-22,47034607	-43,8173494
Rota 10 - 87m	7514629,089	621667,628	-22,47036221	-43,81740833
Rota 10 - 87m	7514627,11	621655,922	-22,47038092	-43,81752194
Rota 10 - 87m	7514628,938	621646,704	-22,47036506	-43,81761166
Rota 10 - 87m	7514634,404	621636,368	-22,47031643	-43,81771253
Rota 10 - 87m	7514650,839	621616,015	-22,47016944	-43,81791159
Rota 10 - 87m	7514654,363	621611,423	-22,47013794	-43,81795648
Rota 10 - 267m	7514768,613	622045,446	-22,46907504	-43,81374733
Rota 10 - 267m	7514749,15	622044,568	-22,4692509	-43,81375437
Rota 10 - 267m	7514730,241	622048,354	-22,46942142	-43,81371611
Rota 10 - 267m	7514709,656	622049,964	-22,46960723	-43,81369888
Rota 10 - 267m	7514695,284	622051,575	-22,46973693	-43,81368213
Rota 10 - 267m	7514684,855	622053,899	-22,46983095	-43,81365873
Rota 10 - 267m	7514673,138	622051,731	-22,46993694	-43,8136789
Rota 10 - 267m	7514662,757	622046,285	-22,47003109	-43,81373104
Rota 10 - 267m	7514646,732	622041,048	-22,4701762	-43,81378069
Rota 10 - 267m	7514625,125	622039,725	-22,47037145	-43,81379189
Rota 10 - 267m	7514618,336	622046,245	-22,47043231	-43,81372801
Rota 10 - 267m	7514609,289	622055,719	-22,47051334	-43,81363524
Rota 10 - 267m	7514603,323	622067,376	-22,4705664	-43,81352149
Rota 10 - 267m	7514600,129	622083,657	-22,47059408	-43,81336302
Rota 10 - 267m	7514603,488	622097,571	-22,47056275	-43,81322806
Rota 10 - 267m	7514610,139	622116,238	-22,47050134	-43,81304716
Rota 10 - 267m	7514622,108	622147,889	-22,47039097	-43,81274049
Rota 10 - 123m	7515144,659	622070,977	-22,46567674	-43,81352814
Rota 10 - 123m	7515125,911	622056,772	-22,46584708	-43,81366474
Rota 10 - 123m	7515114,786	622047,493	-22,46594823	-43,81375405
Rota 10 - 123m	7515092,882	622027,718	-22,46614748	-43,81394454
Rota 10 - 123m	7515051,417	621990,733	-22,46652464	-43,81430078
Rota 10 - 102m	7515155,584	622072,867	-22,46557793	-43,81351061
Rota 10 - 102m	7515152,771	622081,609	-22,4656027	-43,81342544
Rota 10 - 102m	7515148,879	622095,96	-22,46563683	-43,81328568
Rota 10 - 102m	7515142,113	622117,461	-22,4656964	-43,81307621
Rota 10 - 102m	7515138,605	622131,238	-22,46572711	-43,81294206
Rota 10 - 102m	7515135,664	622143,232	-22,46575282	-43,81282528
Rota 10 - 102m	7515130,039	622156,56	-22,46580267	-43,81269532
Rota 10 - 102m	7515125,514	622170,634	-22,46584253	-43,81255821
Rota 10 - 76,2m	7515451,142	621866,377	-22,46292316	-43,81553996
Rota 10 - 76,2m	7515448,884	621854,25	-22,46294442	-43,81565763
Rota 10 - 76,2m	7515445,069	621813,884	-22,46298176	-43,81604961




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - 76,2m	7515444,06	621790,561	-22,46299253	-43,81627618
Rota 10 - Quimica 2x 219m	7515595,768	621806,373	-22,46162116	-43,81613415
Rota 10 - Quimica 2x 219m	7515611,203	621814,791	-22,46148115	-43,81605354
Rota 10 - Quimica 2x 219m	7515635,199	621839,08	-22,46126268	-43,81581935
Rota 10 - Quimica 2x 219m	7515653,367	621866,952	-22,4610966	-43,81554989
Rota 10 - Quimica 2x 219m	7515661,885	621889,049	-22,46101808	-43,81533581
Rota 10 - Quimica 2x 219m	7515681,626	621927,092	-22,46083707	-43,81496764
Rota 10 - Quimica 2x 219m	7515703,566	621976,593	-22,46063537	-43,8144883
Rota 10 - Quimica 2x 219m	7515707,15	621989,376	-22,46060209	-43,81436436
Rota 10 - Quimica 408m	7515707,08	621988,034	-22,46060282	-43,8143774
Rota 10 - Quimica 408m	7515696,596	621998,902	-22,46069673	-43,81427097
Rota 10 - Quimica 408m	7515675,828	622008,478	-22,46088362	-43,81417633
Rota 10 - Quimica 408m	7515652,085	622020,955	-22,46109718	-43,81405326
Rota 10 - Quimica 408m	7515631,042	622033,856	-22,46128633	-43,81392627
Rota 10 - Quimica 408m	7515619,161	622041,996	-22,46139305	-43,81384626
Rota 10 - Quimica 408m	7515610,28	622051,287	-22,4614726	-43,81375528
Rota 10 - Quimica 408m	7515609,543	622069,374	-22,46147797	-43,81357946
Rota 10 - Quimica 408m	7515617,518	622091,694	-22,46140434	-43,81336318
Rota 10 - Quimica 408m	7515632,19	622137,081	-22,46126858	-43,81292326
Rota 10 - Quimica 408m	7515646,545	622167,164	-22,46113678	-43,81263202
Rota 10 - Quimica 408m	7515654,629	622177,804	-22,46106299	-43,81252925
Rota 10 - Quimica 408m	7515659,26	622173,182	-22,4610215	-43,81257452
Rota 10 - Quimica 408m	7515672,858	622176,202	-22,46089846	-43,81254622
Rota 10 - Quimica 408m	7515700,228	622189,698	-22,46065029	-43,81241718
Rota 10 - Quimica 408m	7515715,413	622197,947	-22,46051255	-43,81233819
Rota 10 - Quimica 408m	7515739,226	622197,452	-22,4602975	-43,81234483
Rota 10 - Quimica 408m	7515753,626	622181,813	-22,46016856	-43,81249791
Rota 10 - Quimica 408m	7515785,161	622154,633	-22,45988567	-43,81276446
Rota 10 - Quimica 281m	7515654,329	622177,494	-22,46106573	-43,81253224
Rota 10 - Quimica 281m	7515660,365	622187,827	-22,46101047	-43,8124323
Rota 10 - Quimica 281m	7515665,131	622204,032	-22,46096626	-43,81227518
Rota 10 - Quimica 281m	7515659,618	622218,621	-22,46101501	-43,812133
Rota 10 - Quimica 281m	7515646,845	622231,43	-22,46112947	-43,81200754
Rota 10 - Quimica 281m	7515637,844	622241,672	-22,46121003	-43,81190731
Rota 10 - Quimica 281m	7515620,252	622254,239	-22,46136802	-43,81178384
Rota 10 - Quimica 281m	7515611,981	622265,666	-22,46144191	-43,81167216
Rota 10 - Quimica 281m	7515602,952	622272,247	-22,46152299	-43,81160751
Rota 10 - Quimica 281m	7515592,92	622278,83	-22,46161312	-43,81154277
Rota 10 - Quimica 281m	7515585,034	622285,499	-22,46168388	-43,81147736
Rota 10 - Quimica 281m	7515561,966	622299,168	-22,46189125	-43,81134274
Rota 10 - Quimica 281m	7515541,249	622313,655	-22,46207733	-43,81120037
Rota 10 - Quimica 281m	7515528,937	622324,157	-22,46218778	-43,81109737
Rota 10 - Quimica 281m	7515502,069	622334,362	-22,46242973	-43,81099613
Rota 10 - Quimica 281m	7515484,102	622336,199	-22,46259188	-43,81097689
Rota 10 - Quimica 281m	7515469,782	622339,063	-22,46272101	-43,81094796

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Quimica 281m	7515465,275	622342,942	-22,46276144	-43,81090991
Rota 10 - Quimica 2x 367m	7515706,708	621988,252	-22,46060616	-43,81437524
Rota 10 - Quimica 2x 367m	7515784,913	622154,882	-22,45988789	-43,81276202
Rota 10 - Quimica 2x 367m	7515796,51	622171,723	-22,45978194	-43,81259926
Rota 10 - Quimica 2x 367m	7515810,26	622202,389	-22,45965556	-43,81230232
Rota 10 - Quimica 2x 367m	7515831,434	622245,73	-22,45946121	-43,81188278
Rota 10 - Quimica 2x 367m	7515853,191	622293,856	-22,45926126	-43,8114168
Rota 10 - Quimica 2x 367m	7515862,182	622319,983	-22,45917818	-43,81116361
Rota 10 - Quimica 1,296m	7515861,865	622319,262	-22,45918109	-43,81117058
Rota 10 - Quimica 1,296m	7515861,713	622328,248	-22,45918182	-43,81108326
Rota 10 - Quimica 1,296m	7515848,699	622335,656	-22,45929884	-43,81101026
Rota 10 - Quimica 1,296m	7515825,088	622350,383	-22,45951104	-43,81086533
Rota 10 - Quimica 1,296m	7515798,744	622361,25	-22,4597482	-43,81075771
Rota 10 - Quimica 1,296m	7515778,566	622370,593	-22,45992978	-43,81066536
Rota 10 - Quimica 1,296m	7515758,66	622376,967	-22,46010912	-43,81060189
Rota 10 - Quimica 1,296m	7515738,135	622386,971	-22,46029379	-43,81050309
Rota 10 - Quimica 1,296m	7515718,408	622399,76	-22,46047105	-43,81037729
Rota 10 - Quimica 1,296m	7515698,798	622408,367	-22,46064755	-43,81029214
Rota 10 - Quimica 1,296m	7515680,496	622422,26	-22,46081186	-43,81015572
Rota 10 - Quimica 1,296m	7515657,304	622439,34	-22,4610201	-43,80998796
Rota 10 - Quimica 1,296m	7515632,475	622458,663	-22,46124298	-43,80979827
Rota 10 - Quimica 1,296m	7515607,26	622477,749	-22,46146935	-43,80961085
Rota 10 - Quimica 1,296m	7515589,331	622494,676	-22,46163008	-43,80944498
Rota 10 - Quimica 1,296m	7515571,26	622506,098	-22,46179248	-43,80933259
Rota 10 - Quimica 1,296m	7515558,235	622520,292	-22,4619091	-43,80919365
Rota 10 - Quimica 1,296m	7515552,69	622548,017	-22,4619572	-43,8089238
Rota 10 - Quimica 1,296m	7515552,01	622576,693	-22,46196128	-43,80864508
Rota 10 - Quimica 1,296m	7515550,158	622583,978	-22,46197748	-43,80857416
Rota 10 - Quimica 1,296m	7515523,325	622603,097	-22,46221847	-43,80838629
Rota 10 - Quimica 1,296m	7515501,217	622615,081	-22,46241729	-43,80826812
Rota 10 - Quimica 1,296m	7515493,472	622618,273	-22,46248701	-43,8082365
Rota 10 - Quimica 1,296m	7515478,217	622639,621	-22,46262327	-43,80802787
Rota 10 - Quimica 1,296m	7515476,551	622659,817	-22,46263687	-43,80783148
Rota 10 - Quimica 1,296m	7515473,816	622688,675	-22,4626595	-43,80755084
Rota 10 - Quimica 1,296m	7515481,213	622694,189	-22,46259229	-43,80749783
Rota 10 - Quimica 1,296m	7515493,864	622693,926	-22,46247805	-43,80750136
Rota 10 - Quimica 1,296m	7515527,589	622686,698	-22,46217396	-43,80757421
Rota 10 - Quimica 1,296m	7515542,195	622687,887	-22,46204195	-43,80756378
Rota 10 - Quimica 1,296m	7515554,863	622697,114	-22,46192687	-43,8074751
Rota 10 - Quimica 1,296m	7515564,779	622705,374	-22,46183671	-43,8073956
Rota 10 - Quimica 1,296m	7515572,172	622704,657	-22,46176999	-43,80740314
Rota 10 - Quimica 1,296m	7515576,651	622692,6	-22,4617304	-43,80752064
Rota 10 - Quimica 1,296m	7515584,478	622670,74	-22,46166127	-43,80773368
Rota 10 - Quimica 1,296m	7515595,332	622661,642	-22,46156389	-43,80782293
Rota 10 - Quimica 1,296m	7515625,845	622647,946	-22,46128928	-43,80795838

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Quimica 1,296m	7515654,2	622642,111	-22,4610336	-43,80801727
Rota 10 - Quimica 1,296m	7515692,408	622639,211	-22,46068871	-43,80804841
Rota 10 - Quimica 1,296m	7515724,052	622630,202	-22,46040354	-43,8081384
Rota 10 - Quimica 1,296m	7515737,501	622617,122	-22,46028301	-43,80826653
Rota 10 - Quimica 1,296m	7515752,453	622594,427	-22,46014958	-43,80848823
Rota 10 - Quimica 1,296m	7515769,978	622568,107	-22,45999319	-43,80874535
Rota 10 - Quimica 1,296m	7515785,735	622555,85	-22,45985175	-43,80886567
Rota 10 - Quimica 1,296m	7515833,472	622516,27	-22,45942342	-43,80925398
Rota 10 - Quimica 1,296m	7515855,096	622500,373	-22,45922926	-43,80941012
Rota 10 - Quimica 1,296m	7515877,117	622483,782	-22,45903155	-43,80957305
Rota 10 - Quimica 1,296m	7515892,601	622478,416	-22,45889208	-43,80962639
Rota 10 - Quimica 1,296m	7515905,637	622476,503	-22,45877447	-43,80964597
Rota 10 - Quimica 1,296m	7515916,644	622476,249	-22,45867508	-43,80964929
Rota 10 - Quimica 1,296m	7515922,226	622467,941	-22,45862525	-43,80973045
Rota 10 - Quimica 1,296m	7515922,35	622454,442	-22,4586251	-43,80986165
Rota 10 - Quimica 1,296m	7515919,43	622443,333	-22,45865227	-43,80996936
Rota 10 - Quimica 1,296m	7515914,104	622421,697	-22,45870192	-43,81017921
Rota 10 - Quimica 1,296m	7515909,207	622403,421	-22,45874747	-43,81035642
Rota 10 - Quimica 1,296m	7515893,114	622373,525	-22,45889497	-43,81064569
Rota 10 - Quimica 1,296m	7515861,865	622319,262	-22,45918109	-43,81117058
Rota 10 - Exposição 669m	7515519,913	621559,509	-22,46232388	-43,81852729
Rota 10 - Exposição 669m	7515509,164	621574,536	-22,46241989	-43,81838044
Rota 10 - Exposição 669m	7515498,515	621585,529	-22,4625153	-43,81827279
Rota 10 - Exposição 669m	7515481,435	621593,103	-22,46266903	-43,81819789
Rota 10 - Exposição 669m	7515443,685	621606,281	-22,46300905	-43,81806693
Rota 10 - Exposição 669m	7515338,564	621633,951	-22,46395654	-43,81778999
Rota 10 - Exposição 669m	7515272,04	621654,778	-22,46455592	-43,81758249
Rota 10 - Exposição 669m	7515222,77	621665,242	-22,46500019	-43,81747703
Rota 10 - Exposição 669m	7515180,128	621676,135	-22,46538456	-43,8173679
Rota 10 - Exposição 669m	7515145,968	621689,192	-22,46569216	-43,8172384
Rota 10 - Exposição 669m	7515117,36	621699,565	-22,46594981	-43,8171354
Rota 10 - Exposição 669m	7515098,205	621710,47	-22,46612205	-43,81702796
Rota 10 - Exposição 669m	7515073,993	621713,491	-22,46634052	-43,81699674
Rota 10 - Exposição 669m	7515051,82	621719,018	-22,46654039	-43,81694133
Rota 10 - Exposição 669m	7515029,123	621723,256	-22,4667451	-43,8168984
Rota 10 - Exposição 669m	7515001,068	621723,057	-22,4669985	-43,81689819
Rota 10 - Exposição 669m	7514970,857	621726,549	-22,46727112	-43,81686193
Rota 10 - Exposição 669m	7514942,175	621727,554	-22,46753011	-43,81684996
Rota 10 - Exposição 669m	7514924,032	621725,565	-22,46769412	-43,8168679
Rota 10 - Exposição 669m	7514903,825	621717,417	-22,46787721	-43,81694554
Rota 10 - Exposição 669m	7514886,627	621716,046	-22,46803265	-43,81695754
Rota 10 - Principal 6,433m	7516402,882	622238,808	-22,45430033	-43,81199404
Rota 10 - Principal 6,433m	7516415,377	622252,82	-22,45418647	-43,81185885
Rota 10 - Principal 6,433m	7516433,312	622281,098	-22,45402246	-43,81158545
Rota 10 - Principal 6,433m	7516440,159	622318,952	-22,45395791	-43,81121814

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Principal 6,433m	7516450,307	622357,791	-22,45386346	-43,81084152
Rota 10 - Principal 6,433m	7516455,719	622405,74	-22,45381114	-43,81037602
Rota 10 - Principal 6,433m	7516462,556	622473,065	-22,45374457	-43,80972234
Rota 10 - Principal 6,433m	7516469,364	622521,626	-22,4536796	-43,80925099
Rota 10 - Principal 6,433m	7516478,569	622576,469	-22,45359253	-43,80871879
Rota 10 - Principal 6,433m	7516498,034	622693,653	-22,4534083	-43,80758161
Rota 10 - Principal 6,433m	7516503,932	622737,742	-22,45335187	-43,80715365
Rota 10 - Principal 6,433m	7516508,314	622789,511	-22,45330857	-43,80665095
Rota 10 - Principal 6,433m	7516518,758	622861,507	-22,45320907	-43,80595217
Rota 10 - Principal 6,433m	7516533,882	622949,143	-22,45306616	-43,80510178
Rota 10 - Principal 6,433m	7516543,967	623011,018	-22,45297061	-43,80450132
Rota 10 - Principal 6,433m	7516559,411	623059,369	-22,45282765	-43,80403269
Rota 10 - Principal 6,433m	7516591,632	623135,822	-22,45253112	-43,80329229
Rota 10 - Principal 6,433m	7516648,776	623247,298	-22,45200695	-43,80221351
Rota 10 - Principal 6,433m	7516715,835	623376,099	-22,45139197	-43,80096718
Rota 10 - Principal 6,433m	7516734,335	623411,232	-22,45122234	-43,80062722
Rota 10 - Principal 6,433m	7516799,022	623534,934	-22,45062915	-43,79943026
Rota 10 - Principal 6,433m	7516857,505	623639,896	-22,45009333	-43,79841491
Rota 10 - Principal 6,433m	7516905,231	623719,509	-22,44965651	-43,79764505
Rota 10 - Principal 6,433m	7516941,849	623771,06	-22,44932204	-43,797147
Rota 10 - Principal 6,433m	7516980,389	623809,487	-22,44897116	-43,79677662
Rota 10 - Principal 6,433m	7517145,008	623959,914	-22,4474734	-43,7953278
Rota 10 - Principal 6,433m	7517159,643	623973,493	-22,44734023	-43,79519701
Rota 10 - Principal 6,433m	7517200,596	624011,193	-22,44696761	-43,79483389
Rota 10 - Principal 6,433m	7517235,825	624043,756	-22,44664706	-43,79452023
Rota 10 - Principal 6,433m	7517269,72	624084,169	-22,44633799	-43,79413021
Rota 10 - Principal 6,433m	7517298,206	624113,303	-22,44607858	-43,79384935
Rota 10 - Principal 6,433m	7517345,695	624163,342	-22,44564603	-43,79336686
Rota 10 - Principal 6,433m	7517354,496	624157,603	-22,44556695	-43,79342331
Rota 10 - Principal 6,433m	7517366,444	624151,854	-22,44545945	-43,79348011
Rota 10 - Principal 6,433m	7517375,999	624142,111	-22,44537386	-43,79357552
Rota 10 - Principal 6,433m	7517371,162	624157,45	-22,44541643	-43,7934261
Rota 10 - Principal 6,433m	7517370,289	624170,357	-22,44542338	-43,79330062
Rota 10 - Principal 6,433m	7517369,414	624183,285	-22,44543034	-43,79317494
Rota 10 - Principal 6,433m	7517375,679	624196,134	-22,44537282	-43,79305058
Rota 10 - Principal 6,433m	7517394,539	624222,561	-22,44520056	-43,79279528
Rota 10 - Principal 6,433m	7517483,492	624314,481	-22,44439045	-43,79190911
Rota 10 - Principal 6,433m	7517506,41	624339,216	-22,44418165	-43,79167057
Rota 10 - Principal 6,433m	7517527,61	624357,438	-22,44398885	-43,79149517
Rota 10 - Principal 6,433m	7517576,7	624412,447	-22,44354146	-43,79096453
Rota 10 - Principal 6,433m	7517610,483	624448,097	-22,44323374	-43,79062079
Rota 10 - Principal 6,433m	7517668,93	624510,888	-22,44270127	-43,79001528
Rota 10 - Principal 6,433m	7517720,874	624564,546	-22,4422282	-43,78949799
Rota 10 - Principal 6,433m	7517784,7	624631,044	-22,44164687	-43,78885689
Rota 10 - Principal 6,433m	7517820,612	624681,705	-22,44131882	-43,78836747

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Principal 6,433m	7517850,763	624750,737	-22,44104146	-43,78769912
Rota 10 - Principal 6,433m	7517880,994	624827,629	-22,4407628	-43,7869544
Rota 10 - Principal 6,433m	7517917,227	624926,004	-22,44042836	-43,78600143
Rota 10 - Principal 6,433m	7517935,544	624976,074	-22,44025926	-43,78551639
Rota 10 - Principal 6,433m	7517953,429	625016,068	-22,4400948	-43,78512921
Rota 10 - Principal 6,433m	7517973,46	625075,988	-22,4399095	-43,7845486
Rota 10 - Principal 6,433m	7518000,836	625132,69	-22,43965808	-43,78399983
Rota 10 - Principal 6,433m	7518012,777	625162,238	-22,43954807	-43,78371369
Rota 10 - Principal 6,433m	7518040,518	625209,172	-22,43929408	-43,78325986
Rota 10 - Principal 6,433m	7518085,391	625267,741	-22,4388845	-43,78269434
Rota 10 - Principal 6,433m	7518175,584	625368,869	-22,43806246	-43,7817189
Rota 10 - Principal 6,433m	7518246,127	625445,902	-22,43741966	-43,78097602
Rota 10 - Principal 6,433m	7518278,027	625484,06	-22,43712874	-43,78060781
Rota 10 - Principal 6,433m	7518326,756	625547,186	-22,43668398	-43,77999834
Rota 10 - Principal 6,433m	7518368,459	625624,736	-22,43630163	-43,77924816
Rota 10 - Principal 6,433m	7518423,684	625722,925	-22,43579562	-43,77829855
Rota 10 - Principal 6,433m	7518524,7	625891,058	-22,43487087	-43,77667302
Rota 10 - Principal 6,433m	7518634,482	626068,059	-22,43386629	-43,77496205
Rota 10 - Principal 6,433m	7518692,252	626156,252	-22,43333801	-43,77410978
Rota 10 - Principal 6,433m	7518685,208	626178,054	-22,43340001	-43,77389741
Rota 10 - Principal 6,433m	7518683,254	626208,901	-22,43341538	-43,77359756
Rota 10 - Principal 6,433m	7518705,667	626219,419	-22,43321218	-43,77349715
Rota 10 - Principal 6,433m	7518731,998	626230,163	-22,43297356	-43,77339485
Rota 10 - Principal 6,433m	7518744,417	626242,516	-22,43286048	-43,77327583
Rota 10 - Principal 6,433m	7518750,39	626256,459	-22,43280551	-43,77314084
Rota 10 - Principal 6,433m	7518755,586	626274,361	-22,43275725	-43,77296732
Rota 10 - Principal 6,433m	7518762,461	626293,265	-22,43269376	-43,7727842
Rota 10 - Principal 6,433m	7518771,341	626306,579	-22,43261258	-43,77265556
Rota 10 - Principal 6,433m	7518778,977	626316,27	-22,43254289	-43,77256202
Rota 10 - Principal 6,433m	7518793,974	626313,878	-22,43240761	-43,77258645
Rota 10 - Principal 6,433m	7518811,428	626307,647	-22,43225043	-43,77264837
Rota 10 - Principal 6,433m	7518823,603	626312,894	-22,43214008	-43,77259835
Rota 10 - Principal 6,433m	7518848,692	626339,183	-22,43191154	-43,77234494
Rota 10 - Principal 6,433m	7518867,144	626359,134	-22,4317434	-43,77215257
Rota 10 - Principal 6,433m	7518895,679	626406,133	-22,4314822	-43,77169822
Rota 10 - Principal 6,433m	7518903,735	626423,415	-22,43140816	-43,77153097
Rota 10 - Principal 6,433m	7518910,642	626441,968	-22,4313444	-43,77135126
Rota 10 - Principal 6,433m	7518915,664	626455,588	-22,43129804	-43,77121935
Rota 10 - Principal 6,433m	7518941,969	626466,43	-22,43105965	-43,7711161
Rota 10 - Principal 6,433m	7518960,724	626468,563	-22,4308901	-43,77109687
Rota 10 - Principal 6,433m	7518972,425	626471,289	-22,43078421	-43,77107132
Rota 10 - Principal 6,433m	7518987,536	626483,682	-22,43064682	-43,77095212
Rota 10 - Principal 6,433m	7519017,494	626517,914	-22,4303737	-43,77062193
Rota 10 - Principal 6,433m	7519077,198	626582,408	-22,42982968	-43,7700001
Rota 10 - Principal 6,433m	7519119,802	626629,389	-22,42944141	-43,76954705

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Principal 6,433m	7519146,599	626657,887	-22,42919727	-43,76927233
Rota 10 - Principal 6,433m	7519218,964	626714,894	-22,42853945	-43,76872425
Rota 10 - Principal 6,433m	7519260,388	626736,888	-22,42816367	-43,76851388
Rota 10 - Principal 6,433m	7519289,416	626733,202	-22,42790177	-43,768552
Rota 10 - Principal 6,433m	7519285,854	626758,884	-22,42793204	-43,76830222
Rota 10 - Principal 6,433m	7519373,241	626834,334	-22,42713717	-43,76757617
Rota 10 - Principal 6,433m	7519416,481	626879,525	-22,42674328	-43,76714059
Rota 10 - Principal 6,433m	7519453,27	626922,864	-22,42640779	-43,76672249
Rota 10 - Principal 6,433m	7519501,268	626970,66	-22,42597072	-43,76626198
Rota 10 - Principal 6,433m	7519522,236	626997,062	-22,42577938	-43,76600716
Rota 10 - Principal 6,433m	7519550,989	627030,246	-22,42551722	-43,76568707
Rota 10 - Principal 6,433m	7519589,526	627070,26	-22,42516618	-43,76530141
Rota 10 - Principal 6,433m	7519630,746	627115,91	-22,42479049	-43,76486122
Rota 10 - Principal 6,433m	7519674,425	627169,972	-22,42439196	-43,7643395
Rota 10 - Principal 6,433m	7519712,385	627211,385	-22,42404604	-43,76394022
Rota 10 - Principal 6,433m	7519734,418	627240,656	-22,42384486	-43,76365762
Rota 10 - Principal 6,433m	7519746,542	627274,44	-22,42373284	-43,76333039
Rota 10 - Principal 6,433m	7519752,663	627318,65	-22,42367427	-43,76290138
Rota 10 - Principal 6,433m	7519749,036	627344,899	-22,42370507	-43,76264608
Rota 10 - Principal 6,433m	7519740,06	627375,3	-22,42378388	-43,76235003
Rota 10 - Principal 6,433m	7519737,773	627379,587	-22,42380422	-43,7623082
Rota 10 - Loteamento Firmino 2,271m	7517161,573	623974,703	-22,44732272	-43,7951854
Rota 10 - Loteamento Firmino 2,271m	7517170,526	623954,311	-22,44724334	-43,79538423
Rota 10 - Loteamento Firmino 2,271m	7517181,936	623927,245	-22,44714224	-43,79564812
Rota 10 - Loteamento Firmino 2,271m	7517198,777	623890,871	-22,44699277	-43,79600286
Rota 10 - Loteamento Firmino 2,271m	7517214,2	623870,598	-22,44685494	-43,79620105
Rota 10 - Loteamento Firmino 2,271m	7517236,432	623869,9	-22,44665419	-43,79620956
Rota 10 - Loteamento Firmino 2,271m	7517283,627	623870,616	-22,44622786	-43,79620628
Rota 10 - Loteamento Firmino 2,271m	7517302,589	623869,481	-22,44605668	-43,79621879
Rota 10 - Loteamento Firmino 2,271m	7517324,539	623871,7	-22,44585826	-43,79619894
Rota 10 - Loteamento Firmino 2,271m	7517348,131	623859,817	-22,44564605	-43,79631624
Rota 10 - Loteamento Firmino 2,271m	7517360,976	623850,217	-22,44553072	-43,79641052
Rota 10 - Loteamento Firmino 2,271m	7517362,968	623835,777	-22,44551377	-43,79655098
Rota 10 - Loteamento Firmino 2,271m	7517358,593	623822,131	-22,44555428	-43,79668323
Rota 10 - Loteamento Firmino 2,271m	7517363,826	623811,41	-22,44550779	-43,79678781
Rota 10 - Loteamento Firmino 2,271m	7517418,937	623760,741	-22,44501369	-43,79728443
Rota 10 - Loteamento Firmino 2,271m	7517448,524	623756,257	-22,44474679	-43,79733029
Rota 10 - Loteamento Firmino 2,271m	7517458,533	623748,389	-22,44465695	-43,79740753
Rota 10 - Loteamento Firmino 2,271m	7517459,35	623736,306	-22,44465045	-43,79752499
Rota 10 - Loteamento Firmino 2,271m	7517462,317	623716,471	-22,44462509	-43,79771795
Rota 10 - Loteamento Firmino 2,271m	7517470,344	623681,04	-22,44455515	-43,79806283
Rota 10 - Loteamento Firmino 2,271m	7517482,717	623656,361	-22,44444518	-43,79830359
Rota 10 - Loteamento Firmino 2,271m	7517504,54	623616,578	-22,44425095	-43,79869183
Rota 10 - Loteamento Firmino 2,271m	7517521,848	623590,821	-22,44409648	-43,79894345
Rota 10 - Loteamento Firmino 2,271m	7517524,163	623572,094	-22,44407693	-43,79912558

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Loteamento Firmino 2,271m	7517522,878	623563,608	-22,44408915	-43,79920793
Rota 10 - Loteamento Firmino 2,271m	7517511,979	623550,34	-22,44418855	-43,79933601
Rota 10 - Loteamento Firmino 2,271m	7517502,367	623532,598	-22,44427665	-43,79950765
Rota 10 - Loteamento Firmino 2,271m	7517502,03	623515,615	-22,44428092	-43,79967263
Rota 10 - Loteamento Firmino 2,271m	7517502,982	623488,513	-22,44427428	-43,79993604
Rota 10 - Loteamento Firmino 2,271m	7517505,971	623460,074	-22,44424934	-43,80021259
Rota 10 - Loteamento Firmino 2,271m	7517523,593	623444,697	-22,44409128	-43,80036338
Rota 10 - Loteamento Firmino 2,271m	7517536,756	623432,466	-22,44397328	-43,80048324
Rota 10 - Loteamento Firmino 2,271m	7517552,056	623430,829	-22,4438352	-43,80050033
Rota 10 - Loteamento Firmino 2,271m	7517563,883	623434,878	-22,44372809	-43,8004619
Rota 10 - Loteamento Firmino 2,271m	7517573,486	623438,475	-22,44364109	-43,80042771
Rota 10 - Loteamento Firmino 2,271m	7517608,793	623427,936	-22,44332296	-43,80053285
Rota 10 - Loteamento Firmino 2,271m	7517644,757	623425,412	-22,44299831	-43,80056017
Rota 10 - Loteamento Firmino 2,271m	7517697,722	623430,687	-22,44251955	-43,80051303
Rota 10 - Loteamento Firmino 2,271m	7517749,156	623442,012	-22,44205417	-43,80040698
Rota 10 - Loteamento Firmino 2,271m	7517790,344	623436,794	-22,44168254	-43,80046088
Rota 10 - Loteamento Firmino 2,271m	7517827,984	623425,447	-22,44134339	-43,80057405
Rota 10 - Loteamento Firmino 2,271m	7517898,817	623398,865	-22,44070553	-43,80083783
Rota 10 - Loteamento Firmino 2,271m	7517913,784	623379,369	-22,44057176	-43,80102841
Rota 10 - Loteamento Firmino 2,271m	7517934,252	623353,258	-22,44038878	-43,80128371
Rota 10 - Loteamento Firmino 2,271m	7517954,246	623343,988	-22,44020886	-43,80137532
Rota 10 - Loteamento Firmino 2,271m	7517976,287	623335,073	-22,44001042	-43,80146365
Rota 10 - Loteamento Firmino 2,271m	7517978,358	623333,847	-22,43999181	-43,80147573
Rota 10 - Loteamento Firmino 2,271m	7517990,882	623321,926	-22,43987955	-43,80159252
Rota 10 - Loteamento Firmino 2,271m	7518026,481	623301,05	-22,43955952	-43,80179812
Rota 10 - Loteamento Firmino 2,271m	7518042,942	623291,218	-22,43941155	-43,80189492
Rota 10 - Loteamento Firmino 2,271m	7518054,316	623282,384	-22,43930946	-43,80198164
Rota 10 - Loteamento Firmino 2,271m	7518061,846	623271,608	-22,43924222	-43,80208692
Rota 10 - Loteamento Firmino 2,271m	7518062,096	623268,318	-22,4392402	-43,80211891
Rota 10 - Loteamento Firmino 2,271m	7518068,054	623246,026	-22,439188	-43,80233596
Rota 10 - Loteamento Firmino 2,271m	7518073,516	623223,475	-22,43914029	-43,80255549
Rota 10 - Loteamento Firmino 2,271m	7518082,387	623196,039	-22,43906214	-43,80282274
Rota 10 - Loteamento Firmino 2,271m	7518083,081	623168,84	-22,43905783	-43,80308706
Rota 10 - Loteamento Firmino 2,271m	7518087,508	623146,611	-22,43901945	-43,80330338
Rota 10 - Loteamento Firmino 2,271m	7518093,293	623135,913	-22,43896797	-43,80340778
Rota 10 - Loteamento Firmino 2,271m	7518094,777	623110,675	-22,43895638	-43,8036531
Rota 10 - Loteamento Firmino 2,271m	7518086,916	623094,69	-22,43902853	-43,8038078
Rota 10 - Loteamento Firmino 2,271m	7518086,346	623079,01	-22,43903481	-43,80396011
Rota 10 - Loteamento Firmino 2,271m	7518076,521	623061,789	-22,43912479	-43,80412667
Rota 10 - Loteamento Firmino 2,271m	7518062,477	623033,134	-22,4392537	-43,80440399
Rota 10 - Loteamento Firmino 2,271m	7518042,834	623009,531	-22,43943282	-43,8046318
Rota 10 - Loteamento Firmino 2,271m	7518030,16	623005,175	-22,4395476	-43,80467315
Rota 10 - Loteamento Firmino 2,271m	7518015,386	622999,385	-22,43968145	-43,80472826
Rota 10 - Loteamento Firmino 2,271m	7518004,203	622987,25	-22,43978334	-43,8048453
Rota 10 - Loteamento Firmino 2,271m	7517994,414	622977,969	-22,43987242	-43,80493471


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - Loteamento Firmino 2,271m	7517981,843	622965,845	-22,43998684	-43,80505154
Rota 10 - Loteamento Firmino 2,271m	7517964,347	622954,402	-22,44014568	-43,80516137
Rota 10 - Loteamento Firmino 2,271m	7517950,331	622954,353	-22,44027228	-43,80516076
Rota 10 - Loteamento Firmino 2,271m	7517934,739	622957,708	-22,44041287	-43,80512695
Rota 10 - Loteamento Firmino 2,271m	7517924,089	622958,283	-22,44050901	-43,80512055
Rota 10 - Loteamento Firmino 2,271m	7517911,983	622950,986	-22,44061888	-43,8051905
Rota 10 - Loteamento Firmino 2,271m	7517907,226	622938,941	-22,44066271	-43,80530717
Rota 10 - Loteamento Firmino 2,271m	7517904,901	622923,617	-22,44068481	-43,80545588
Rota 10 - Loteamento Firmino 2,271m	7517915,099	622915,484	-22,4405933	-43,80553569
Rota 10 - Loteamento Firmino 2,271m	7517934,544	622909,853	-22,44041807	-43,80559191
Rota 10 - Loteamento Firmino 2,271m	7517949,968	622914,335	-22,44027844	-43,80554955
Rota 10 - Loteamento Firmino 2,271m	7517963,715	622921,943	-22,44015372	-43,8054767
Rota 10 - Loteamento Firmino 2,271m	7517982,451	622927,542	-22,4399841	-43,80542374
Rota 10 - Loteamento Firmino 2,271m	7517994,442	622922,185	-22,43987618	-43,80547672
Rota 10 - Loteamento Firmino 2,271m	7518010,631	622912,86	-22,43973063	-43,80556857
Rota 10 - Loteamento Firmino 2,271m	7518024,61	622905,605	-22,43960489	-43,80564015
Rota 10 - Loteamento Firmino 2,271m	7518046,093	622892,651	-22,43941178	-43,80576767
Rota 10 - Loteamento Firmino 2,271m	7518070,222	622880,67	-22,43919471	-43,80588594
Rota 10 - Loteamento Firmino 2,271m	7518095,022	622880,795	-22,4389707	-43,80588664
Rota 10 - Loteamento Firmino 2,271m	7518138,999	622870,963	-22,4385742	-43,80598557
Rota 10 - Loteamento Firmino 2,271m	7518153,939	622860,356	-22,43844002	-43,80608978
Rota 10 - Loteamento Firmino 2,271m	7518152,162	622848,453	-22,43845693	-43,8062053
Rota 10 - Loteamento Firmino 2,271m	7518146,887	622832,616	-22,43850571	-43,80635876
Rota 10 - Loteamento Firmino 2,271m	7518155,876	622817,074	-22,43842564	-43,80651046
Rota 10 - Loteamento Firmino 2,271m	7518169,866	622808,364	-22,43829991	-43,80659616
Rota 10 - Loteamento Firmino 2,271m	7518175,86	622797,271	-22,43824656	-43,80670441
Rota 10 - Loteamento Firmino 2,271m	7518170,181	622783,192	-22,43829887	-43,80684076
Rota 10 - Loteamento Firmino 2,271m	7518164,502	622771,264	-22,43835102	-43,80695622
Rota 10 - Loteamento Firmino 2,271m	7518158,915	622752,405	-22,43840283	-43,80713902
Rota 10 - Loteamento Firmino 2,271m	7518163,361	622741,204	-22,43836348	-43,80724819
Rota 10 - Loteamento Firmino 2,271m	7518174,422	622731,962	-22,43826424	-43,80733884
Rota 10 - Loteamento Firmino 2,271m	7518194,775	622731,384	-22,43808046	-43,80734603
Rota 10 - 102m	7517917,22	624925,283	-22,44042847	-43,78600843
Rota 10 - 102m	7517907,198	624939,494	-22,44051796	-43,78586956
Rota 10 - 102m	7517902,246	624939,456	-22,44056268	-43,78586955
Rota 10 - 102m	7517891,939	624939,377	-22,44065578	-43,78586951
Rota 10 - 102m	7517880,824	624940,84	-22,44075607	-43,78585442
Rota 10 - 102m	7517870,427	624944,255	-22,44084972	-43,78582042
Rota 10 - 102m	7517858,813	624950,399	-22,44095417	-43,78575981
Rota 10 - 102m	7517854,876	624959,34	-22,44098908	-43,78567263
Rota 10 - 102m	7517860,947	624975,365	-22,44093308	-43,7855174
Rota 10 - 102m	7517863,217	624982,404	-22,44091206	-43,78544919
Rota 10 - 45,4m	7517973,425	625075,555	-22,43990984	-43,7845528
Rota 10 - 45,4m	7517970,042	625083,633	-22,4399398	-43,78447405
Rota 10 - 45,4m	7517962,881	625095,225	-22,44000364	-43,78436086



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 10 - 45,4m	7517948,449	625113,166	-22,44013268	-43,78418541
Rota 10 - 90,3m	7518972,845	626471,868	-22,43078038	-43,77106573
Rota 10 - 90,3m	7518980,778	626456,317	-22,43070987	-43,77121743
Rota 10 - 90,3m	7518992,516	626437,833	-22,43060523	-43,77139795
Rota 10 - 90,3m	7519001,243	626429,795	-22,43052699	-43,77147673
Rota 10 - 90,3m	7519030,277	626403,692	-22,4302667	-43,77173264
Rota 10 - Fazenda Ribeirão 1,723m	7519495,395	626963,554	-22,42602429	-43,76633055
Rota 10 - Fazenda Ribeirão 1,723m	7519509,495	626947,462	-22,42589813	-43,76648801
Rota 10 - Fazenda Ribeirão 1,723m	7519533,139	626917,716	-22,42568679	-43,76677887
Rota 10 - Fazenda Ribeirão 1,723m	7519574,437	626870,745	-22,42531727	-43,76723849
Rota 10 - Fazenda Ribeirão 1,723m	7519627,012	626815,709	-22,42484649	-43,76777735
Rota 10 - Fazenda Ribeirão 1,723m	7519753,442	626668,805	-22,42371546	-43,76921458
Rota 10 - Fazenda Ribeirão 1,723m	7519874,669	626532,683	-22,4226306	-43,77054662
Rota 10 - Fazenda Ribeirão 1,723m	7519918,845	626481,478	-22,42223539	-43,77104758
Rota 10 - Fazenda Ribeirão 1,723m	7519950,452	626455,461	-22,42195184	-43,77130284
Rota 10 - Fazenda Ribeirão 1,723m	7519990,131	626432,297	-22,42159517	-43,77153102
Rota 10 - Fazenda Ribeirão 1,723m	7520033,419	626417,653	-22,42120527	-43,77167673
Rota 10 - Fazenda Ribeirão 1,723m	7520087,948	626423,049	-22,42071237	-43,77162863
Rota 10 - Fazenda Ribeirão 1,723m	7520153,453	626451,169	-22,42011865	-43,77136067
Rota 10 - Fazenda Ribeirão 1,723m	7520216,344	626492,008	-22,41954759	-43,77096893
Rota 10 - Fazenda Ribeirão 1,723m	7520248,943	626509,324	-22,41925188	-43,77080331
Rota 10 - Fazenda Ribeirão 1,723m	7520302,495	626521,642	-22,41876729	-43,7706879
Rota 10 - Fazenda Ribeirão 1,723m	7520335,717	626516,754	-22,41846759	-43,77073803
Rota 10 - Fazenda Ribeirão 1,723m	7520349,8	626491,873	-22,41834223	-43,77098085
Rota 10 - Fazenda Ribeirão 1,723m	7520338,123	626464,805	-22,4184497	-43,77124287
Rota 10 - Fazenda Ribeirão 1,723m	7520309,605	626426,241	-22,41871012	-43,77161524
Rota 10 - Fazenda Ribeirão 1,723m	7520299,631	626399,83	-22,41880216	-43,77187102
Rota 10 - Fazenda Ribeirão 1,723m	7520296,347	626364,317	-22,41883444	-43,77221575
Rota 10 - Fazenda Ribeirão 1,723m	7520292,818	626266,1	-22,41887356	-43,77316959
Rota 10 - Fazenda Ribeirão 1,723m	7520296,715	626225,986	-22,41884132	-43,77355959
Rota 10 - Fazenda Ribeirão 1,723m	7520324,227	626182,568	-22,41859603	-43,77398356
Rota 10 - Fazenda Ribeirão 1,723m	7520364,676	626153,742	-22,41823283	-43,7742668
Rota 10 - Fazenda Ribeirão 1,723m	7520435,29	626115,957	-22,41759782	-43,77463946
Rota 10 - Fazenda Ribeirão 1,723m	7520475,059	626108,051	-22,41723921	-43,77471941
Rota 10 - Fazenda Ribeirão 1,723m	7520529,039	626088,943	-22,41675307	-43,7749093
Rota 10 - Fazenda Ribeirão 1,723m	7520562,474	626082,132	-22,41645159	-43,77497812

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Início da Rota 11	7515091,59	620454,327	-22,46627086	-43,82923464
Rota 11 - Principal 3,363m	7515089,076	620455,917	-22,46629345	-43,829219
Rota 11 - Principal 3,363m	7515105,903	620425,527	-22,46614362	-43,82951561
Rota 11 - Principal 3,363m	7515133,51	620376,886	-22,46589769	-43,82999039
Rota 11 - Principal 3,363m	7515161,28	620325,986	-22,46565046	-43,83048715
Rota 11 - Principal 3,363m	7515183,137	620284,637	-22,46545596	-43,83089063
Rota 11 - Principal 3,363m	7515258,926	620152,808	-22,4647807	-43,83217748
Rota 11 - Principal 3,363m	7515280,855	620108,46	-22,46458575	-43,83261012
Rota 11 - Principal 3,363m	7515301,859	620056,019	-22,46439973	-43,83312132
Rota 11 - Principal 3,363m	7515359,467	619988,065	-22,46388417	-43,83378605
Rota 11 - Principal 3,363m	7515391,89	619959,183	-22,46359335	-43,83406917
Rota 11 - Principal 3,363m	7515409,18	619943,663	-22,46343827	-43,8342213
Rota 11 - Principal 3,363m	7515420,335	619921,47	-22,46333908	-43,83443781
Rota 11 - Principal 3,363m	7515445,288	619863,241	-22,46311779	-43,83500555
Rota 11 - Principal 3,363m	7515469,129	619837,018	-22,4629043	-43,83526218
Rota 11 - Principal 3,363m	7515489,367	619804,977	-22,46272375	-43,83557507
Rota 11 - Principal 3,363m	7515502,892	619776,501	-22,46260358	-43,83585282
Rota 11 - Principal 3,363m	7515534,632	619695,37	-22,46232259	-43,83664362
Rota 11 - Principal 3,363m	7515542,01	619665,435	-22,46225805	-43,83693508
Rota 11 - Principal 3,363m	7515555,819	619630,049	-22,4621358	-43,83728
Rota 11 - Principal 3,363m	7515570,899	619610,062	-22,46200099	-43,83747536
Rota 11 - Principal 3,363m	7515606,397	619593,404	-22,46168154	-43,83763992
Rota 11 - Principal 3,363m	7515622,756	619568,451	-22,46153552	-43,83788363
Rota 11 - Principal 3,363m	7515627,293	619543,169	-22,46149632	-43,83812966
Rota 11 - Principal 3,363m	7515620,52	619520,178	-22,4615591	-43,83835257
Rota 11 - Principal 3,363m	7515613,835	619499,075	-22,46162096	-43,83855714
Rota 11 - Principal 3,363m	7515608,513	619479,146	-22,46167043	-43,8387504
Rota 11 - Principal 3,363m	7515621,332	619452,205	-22,46155652	-43,83901318
Rota 11 - Principal 3,363m	7515639,96	619443,837	-22,46138886	-43,83909589
Rota 11 - Principal 3,363m	7515685,116	619444,399	-22,46098097	-43,83909383
Rota 11 - Principal 3,363m	7515712,375	619438,63	-22,46073515	-43,83915194
Rota 11 - Principal 3,363m	7515811,133	619415,926	-22,45984474	-43,83938
Rota 11 - Principal 3,363m	7515849,461	619406,254	-22,45949923	-43,83947687
Rota 11 - Principal 3,363m	7515873,704	619391,24	-22,45928131	-43,83962459
Rota 11 - Principal 3,363m	7515896,319	619370,156	-22,45907852	-43,83983118
Rota 11 - Principal 3,363m	7515920,824	619342,492	-22,45885912	-43,84010185
Rota 11 - Principal 3,363m	7515942,649	619320,578	-22,45866353	-43,84031644
Rota 11 - Principal 3,363m	7515949,169	619323,045	-22,45860446	-43,84029295
Rota 11 - Principal 3,363m	7515950,285	619332,933	-22,45859369	-43,84019695
Rota 11 - Principal 3,363m	7515957,059	619342,884	-22,45853181	-43,84010076
Rota 11 - Principal 3,363m	7515980,81	619358,242	-22,45831622	-43,8399533
Rota 11 - Principal 3,363m	7516020,599	619384,472	-22,457955	-43,8397014
Rota 11 - Principal 3,363m	7516047,463	619406,242	-22,45771084	-43,83949188
Rota 11 - Principal 3,363m	7516075,194	619420,262	-22,45745939	-43,83935772

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 11 - Principal 3,363m	7516098,181	619435,914	-22,45725067	-43,83920735
Rota 11 - Principal 3,363m	7516113,841	619452,312	-22,45710808	-43,83904919
Rota 11 - Principal 3,363m	7516130,756	619477,046	-22,45695357	-43,83881011
Rota 11 - Principal 3,363m	7516150,826	619497,128	-22,45677089	-43,83861647
Rota 11 - Principal 3,363m	7516167,413	619500,529	-22,45662084	-43,83858467
Rota 11 - Principal 3,363m	7516183,705	619488,131	-22,45647455	-43,83870637
Rota 11 - Principal 3,363m	7516199,991	619519,538	-22,45632525	-43,83840241
Rota 11 - Principal 3,363m	7516212,818	619546,042	-22,45620754	-43,83814583
Rota 11 - Principal 3,363m	7516234,926	619577,788	-22,45600564	-43,837839
Rota 11 - Principal 3,363m	7516213,277	619523,29	-22,45620499	-43,83836695
Rota 11 - Principal 3,363m	7516199,873	619477,186	-22,45632928	-43,83881395
Rota 11 - Principal 3,363m	7516200,488	619447,656	-22,45632579	-43,83910095
Rota 11 - Principal 3,363m	7516202,866	619417,747	-22,45630641	-43,83939176
Rota 11 - Principal 3,363m	7516211,215	619331,664	-22,45623701	-43,84022889
Rota 11 - Principal 3,363m	7516213,175	619303,516	-22,45622127	-43,84050257
Rota 11 - Principal 3,363m	7516227,333	619278,828	-22,45609512	-43,84074353
Rota 11 - Principal 3,363m	7516268,93	619215,932	-22,45572379	-43,84135783
Rota 11 - Principal 3,363m	7516288,592	619194,122	-22,45554772	-43,84157124
Rota 11 - Principal 3,363m	7516283,088	619185,871	-22,45559802	-43,84165101
Rota 11 - Principal 3,363m	7516256,159	619161,042	-22,45584298	-43,84189026
Rota 11 - Principal 3,363m	7516242,405	619146,093	-22,45596825	-43,84203449
Rota 11 - Principal 3,363m	7516225,4	619134,903	-22,45612262	-43,84214195
Rota 11 - Principal 3,363m	7516199,222	619121,102	-22,45636003	-43,8422741
Rota 11 - Principal 3,363m	7516183,542	619113,821	-22,45650216	-43,84234367
Rota 11 - Principal 3,363m	7516180,981	619108,201	-22,45652569	-43,84239809
Rota 11 - Principal 3,363m	7516187,359	619106,255	-22,45646821	-43,84241748
Rota 11 - Principal 3,363m	7516211,369	619110,362	-22,45625106	-43,84237937
Rota 11 - Principal 3,363m	7516243,991	619115,25	-22,45595607	-43,84233432
Rota 11 - Principal 3,363m	7516257,809	619122,158	-22,45583078	-43,84226824
Rota 11 - Principal 3,363m	7516267,628	619131,163	-22,45574147	-43,84218146
Rota 11 - Principal 3,363m	7516279,424	619130,404	-22,45563498	-43,84218973
Rota 11 - Principal 3,363m	7516283,486	619121,577	-22,45559891	-43,84227581
Rota 11 - Principal 3,363m	7516281,32	619110,246	-22,45561926	-43,84238575
Rota 11 - Principal 3,363m	7516269,357	619090,059	-22,45572871	-43,84258102
Rota 11 - Principal 3,363m	7516256,791	619067,42	-22,4558438	-43,84280006
Rota 11 - Principal 3,363m	7516244,37	619044,911	-22,45595756	-43,84301786
Rota 11 - Principal 3,363m	7516233,309	619035,752	-22,45605809	-43,84310603
Rota 11 - Principal 3,363m	7516232,077	619034,481	-22,45606931	-43,84311829
Rota 11 - Principal 3,363m	7516216,353	619024,816	-22,456212	-43,84321103
Rota 11 - Principal 3,363m	7516198,747	619019,084	-22,45637142	-43,84326541
Rota 11 - Principal 3,363m	7516179,205	619015,304	-22,4565482	-43,84330068
Rota 11 - Principal 3,363m	7516155,574	619007,096	-22,45676221	-43,84337867
Rota 11 - Principal 3,363m	7516135,392	619006,902	-22,45694451	-43,84337904
Rota 11 - Principal 3,363m	7516112,519	619007,51	-22,45715106	-43,84337142

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 11 - Principal 3,363m	7516100,161	619005,389	-22,45726283	-43,84339111
Rota 11 - Principal 3,363m	7516080,002	619006,351	-22,45744485	-43,84338024
Rota 11 - Principal 3,363m	7516068,362	619015,856	-22,45754932	-43,84328701
Rota 11 - Principal 3,363m	7516101,098	619102,94	-22,45724757	-43,84244322
Rota 11 - Principal 3,363m	7516108,563	619167,737	-22,45717563	-43,84181413
Rota 11 - Principal 3,363m	7516104,593	619188,291	-22,45721005	-43,8416141
Rota 11 - Principal 3,363m	7516093,674	619228,547	-22,45730586	-43,84122209
Rota 11 - Principal 3,363m	7516084,344	619265,259	-22,45738757	-43,84086464
Rota 11 - Principal 3,363m	7516073,913	619276,044	-22,45748104	-43,84075906
Rota 11 - Principal 3,363m	7516056,967	619278,319	-22,45763394	-43,84073568
Rota 11 - Principal 3,363m	7516029,706	619277,119	-22,45788024	-43,84074529
Rota 11 - Principal 3,363m	7516018,647	619271,463	-22,45798053	-43,84079942
Rota 11 - Principal 3,363m	7516003,222	619270,916	-22,45811988	-43,84080358
Rota 11 - Principal 3,363m	7515991,422	619271,923	-22,4582264	-43,84079291
Rota 11 - Principal 3,363m	7515972,155	619278,548	-22,45839996	-43,84072708
Rota 11 - Principal 3,363m	7515958,436	619288,144	-22,4585232	-43,8406328
Rota 11 - Principal 3,363m	7515925,553	619328,976	-22,45881735	-43,84023354
Rota 11 - Principal 3,363m	7515920,587	619342,631	-22,45886125	-43,84010048
Rota 11 - Garagem 259m	7516235,094	619577,673	-22,45600413	-43,83784013
Rota 11 - Garagem 259m	7516248,241	619597,822	-22,45588398	-43,83764532
Rota 11 - Garagem 259m	7516270,683	619640,059	-22,45567832	-43,83723659
Rota 11 - Garagem 259m	7516286,148	619665,093	-22,45553688	-43,83699449
Rota 11 - Garagem 259m	7516329,093	619740,1	-22,45514374	-43,83626886
Rota 11 - Garagem 259m	7516348,289	619770,132	-22,45496825	-43,83597848
Rota 11 - Garagem 259m	7516367,079	619786,583	-22,45479738	-43,83582003
Rota 11 - Garagem 259m	7516378,035	619786,217	-22,45469845	-43,83582443
Rota 11 - 192m	7516279,279	619654,281	-22,45559968	-43,83709903
Rota 11 - 192m	7516270,313	619663,347	-22,45568002	-43,83701026
Rota 11 - 192m	7516254,975	619671,771	-22,45581797	-43,83692725
Rota 11 - 192m	7516259,916	619680,582	-22,45577273	-43,836842
Rota 11 - 192m	7516276,354	619709,306	-22,45562225	-43,83656412
Rota 11 - 192m	7516292,789	619740,891	-22,45547159	-43,83625844
Rota 11 - 192m	7516320,396	619791,855	-22,45521867	-43,83576529
Rota 11 - 192m	7516322,402	619799,267	-22,45520003	-43,83569342
Rota 11 - 192m	7516319,448	619816,5	-22,4552255	-43,83552573
Rota 11 - 568m	7516430,175	619090,314	-22,45427616	-43,84259059
Rota 11 - 568m	7516417,672	619087,918	-22,45438926	-43,84261294
Rota 11 - 568m	7516404,272	619086,792	-22,45451037	-43,84262288
Rota 11 - 568m	7516389,301	619081,706	-22,45464594	-43,84267118
Rota 11 - 568m	7516374,349	619067,348	-22,45478199	-43,84280958
Rota 11 - 568m	7516364,63	619056,12	-22,45487056	-43,84291796
Rota 11 - 568m	7516359,658	619043,407	-22,45491635	-43,84304111
Rota 11 - 568m	7516358,287	619028,13	-22,4549298	-43,84318947
Rota 11 - 568m	7516359,265	619009,974	-22,45492223	-43,84336596

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 11 - 568m	7516357,036	618991,647	-22,45494364	-43,84354389
Rota 11 - 568m	7516353,79	618975,469	-22,45497409	-43,84370085
Rota 11 - 568m	7516345,843	618960,485	-22,45504691	-43,84384586
Rota 11 - 568m	7516335,488	618952,835	-22,45514096	-43,84391942
Rota 11 - 568m	7516324,589	618945,087	-22,45523995	-43,84399389
Rota 11 - 568m	7516315,297	618938,858	-22,45532431	-43,84405372
Rota 11 - 568m	7516301,081	618930,423	-22,45545329	-43,84413463
Rota 11 - 568m	7516290,567	618927,576	-22,45554846	-43,84416151
Rota 11 - 568m	7516273,434	618927,375	-22,45570323	-43,84416218
Rota 11 - 568m	7516252,471	618928,177	-22,45589252	-43,84415282
Rota 11 - 568m	7516240,749	618929,161	-22,45599832	-43,84414237
Rota 11 - 568m	7516224,72	618929,106	-22,4561431	-43,84414171
Rota 11 - 568m	7516209,909	618926,021	-22,45627709	-43,84417057
Rota 11 - 568m	7516197,836	618919,15	-22,45638661	-43,84423644
Rota 11 - 568m	7516181,363	618903,824	-22,45653646	-43,84438414
Rota 11 - 568m	7516159,705	618872,057	-22,4567343	-43,84469121
Rota 11 - 568m	7516147,424	618817,215	-22,45684904	-43,84522321
Rota 11 - 568m	7516146,277	618803,101	-22,45686038	-43,84536028
Rota 11 - 568m	7516146,93	618780,393	-22,45685606	-43,84558098
Rota 11 - 568m	7516140,493	618764,79	-22,45691529	-43,84573212
Rota 11 - 568m	7516132,002	618750,943	-22,45699295	-43,84586605
Rota 11 - 568m	7516117,738	618736,098	-22,45712281	-43,84600924
Rota 11 - 568m	7516096,018	618725,874	-22,4573197	-43,84610696
Rota 11 - Apolo 215m	7516288,589	619194,515	-22,45554773	-43,84156742
Rota 11 - Apolo 215m	7516315,363	619171,127	-22,45530753	-43,8417967
Rota 11 - Apolo 215m	7516350,996	619145,831	-22,45498744	-43,84204518
Rota 11 - Apolo 215m	7516379,921	619123,104	-22,45472777	-43,8422682
Rota 11 - Apolo 215m	7516429,581	619090,29	-22,45428152	-43,84259079
Rota 11 - Apolo 215m	7516462,164	619067,523	-22,45398881	-43,84281446
Rota 11 - 60,9m	7516111,846	619007,774	-22,45715713	-43,84336881
Rota 11 - 60,9m	7516115,195	619020,467	-22,45712599	-43,84324571
Rota 11 - 60,9m	7516123,621	619041,43	-22,45704842	-43,84304263
Rota 11 - 60,9m	7516137,837	619062,189	-22,45691858	-43,84284197
Rota 11 - Principal 5,908m	7515256,246	620157,421	-22,46480458	-43,83213245
Rota 11 - Principal 5,908m	7515274,371	620168,339	-22,4646401	-43,83202772
Rota 11 - Principal 5,908m	7515299,268	620184,356	-22,4644141	-43,83187396
Rota 11 - Principal 5,908m	7515320,782	620195,205	-22,46421901	-43,83177015
Rota 11 - Principal 5,908m	7515324,907	620200,905	-22,46418136	-43,83171508
Rota 11 - Principal 5,908m	7515319	620214,668	-22,46423375	-43,83158088
Rota 11 - Principal 5,908m	7515310,894	620227,516	-22,46430605	-43,83145541
Rota 11 - Principal 5,908m	7515289,503	620265,922	-22,46449656	-43,83108057
Rota 11 - Principal 5,908m	7515220,12	620229,005	-22,46512584	-43,83143407
Rota 11 - Principal 5,908m	7515091,257	620459,085	-22,46627353	-43,82918839
Rota 11 - Principal 5,908m	7515096,069	620469,362	-22,46622934	-43,82908888

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 11 - Principal 5,908m	7515146,113	620493,752	-22,46577562	-43,82885566
Rota 11 - Principal 5,908m	7515275,43	620263,512	-22,46462383	-43,83110292
Rota 11 - Principal 5,908m	7515295,07	620274,195	-22,46444569	-43,83100059
Rota 11 - Principal 5,908m	7515337,29	620353,375	-22,46405878	-43,83023433
Rota 11 - Principal 5,908m	7515351,857	620380,318	-22,4639253	-43,8299736
Rota 11 - Principal 5,908m	7515394,963	620452,851	-22,46353085	-43,82927201
Rota 11 - Principal 5,908m	7515404,444	620476,544	-22,46344355	-43,82904248
Rota 11 - Principal 5,908m	7515405,679	620498,155	-22,46343087	-43,82883257
Rota 11 - Principal 5,908m	7515409,883	620550,17	-22,46338923	-43,82832742
Rota 11 - Principal 5,908m	7515425,465	620597,016	-22,46324518	-43,82787336
Rota 11 - Principal 5,908m	7515432,766	620625,552	-22,46317722	-43,8275966
Rota 11 - Principal 5,908m	7515458,084	620673,568	-22,46294515	-43,82713192
Rota 11 - Principal 5,908m	7515470,364	620706,015	-22,46283195	-43,82681754
Rota 11 - Principal 5,908m	7515478,859	620737,139	-22,46275302	-43,82651573
Rota 11 - Principal 5,908m	7515480,024	620749,117	-22,46274165	-43,82639942
Rota 11 - Principal 5,908m	7515465,846	620766,49	-22,46286847	-43,82622951
Rota 11 - Principal 5,908m	7515453,349	620777,197	-22,4629806	-43,82612452
Rota 11 - Principal 5,908m	7515522,948	620851,618	-22,4623467	-43,82540661
Rota 11 - Principal 5,908m	7515530,922	620861,635	-22,46227397	-43,82530988
Rota 11 - Principal 5,908m	7515546,02	620883,014	-22,46213609	-43,82510327
Rota 11 - Principal 5,908m	7515552,867	620903,988	-22,46207276	-43,82489997
Rota 11 - Principal 5,908m	7515560,748	620928,958	-22,46199981	-43,82465792
Rota 11 - Principal 5,908m	7515566,813	620953,002	-22,46194333	-43,82442473
Rota 11 - Principal 5,908m	7515570,599	620974,624	-22,4619076	-43,8242149
Rota 11 - Principal 5,908m	7515573,239	621005,198	-22,46188159	-43,82391799
Rota 11 - Principal 5,908m	7515582,593	621026,557	-22,46179559	-43,82371115
Rota 11 - Principal 5,908m	7515599,781	621061,05	-22,46163791	-43,82337726
Rota 11 - Principal 5,908m	7515619,298	621087,886	-22,46145972	-43,82311797
Rota 11 - Principal 5,908m	7515661,293	621126,845	-22,46107765	-43,82274258
Rota 11 - Principal 5,908m	7515686,852	621151,587	-22,46084505	-43,8225041
Rota 11 - Principal 5,908m	7515733,52	621188,969	-22,46042088	-43,8221444
Rota 11 - Principal 5,908m	7515772,765	621216,75	-22,46006445	-43,82187743
Rota 11 - Principal 5,908m	7515822,044	621253,575	-22,45961674	-43,82152335
Rota 11 - Principal 5,908m	7515859,316	621295,089	-22,45927715	-43,82112277
Rota 11 - Principal 5,908m	7515885,853	621323	-22,45903548	-43,82085358
Rota 11 - Principal 5,908m	7515943,941	621393,52	-22,45850581	-43,82017274
Rota 11 - Principal 5,908m	7515977,521	621368,97	-22,45820425	-43,82041387
Rota 11 - Principal 5,908m	7515988,502	621382,25	-22,45810413	-43,82028567
Rota 11 - Principal 5,908m	7516012,112	621413,916	-22,45788863	-43,81997975
Rota 11 - Principal 5,908m	7516035,392	621447,989	-22,45767594	-43,81965044
Rota 11 - Principal 5,908m	7516043,728	621467,843	-22,45759924	-43,81945814
Rota 11 - Principal 5,908m	7516029,963	621475,038	-22,45772305	-43,81938718
Rota 11 - Principal 5,908m	7516018,946	621481,155	-22,45782213	-43,8193269
Rota 11 - Principal 5,908m	7516014,06	621484,946	-22,45786599	-43,81928968

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 11 - Principal 5,908m	7516047,481	621546,332	-22,45755976	-43,81869573
Rota 11 - Principal 5,908m	7516055,542	621552,798	-22,45748649	-43,81863351
Rota 11 - Principal 5,908m	7516080,05	621539,682	-22,45726606	-43,81876284
Rota 11 - Principal 5,908m	7516132,382	621509,67	-22,45679552	-43,81905848
Rota 11 - Principal 5,908m	7516150,072	621512,846	-22,45663553	-43,81902897
Rota 11 - Principal 5,908m	7516172,622	621514,089	-22,45643176	-43,81901862
Rota 11 - Principal 5,908m	7516194,455	621501,17	-22,45623548	-43,81914583
Rota 11 - Principal 5,908m	7516206,802	621492,329	-22,45612459	-43,81923268
Rota 11 - Principal 5,908m	7516222,817	621474,386	-22,45598121	-43,81940826
Rota 11 - Principal 5,908m	7516242,287	621465,763	-22,45580598	-43,81949354
Rota 11 - Principal 5,908m	7516269,452	621456,932	-22,45556124	-43,81958144
Rota 11 - Principal 5,908m	7516286,549	621441,057	-22,45540794	-43,81973701
Rota 11 - Principal 5,908m	7516323,623	621423,122	-22,45507437	-43,81991412
Rota 11 - Principal 5,908m	7516342,804	621415,815	-22,45490164	-43,81998659
Rota 11 - Principal 5,908m	7516372,387	621407,121	-22,45463506	-43,82007333
Rota 11 - Principal 5,908m	7516407,534	621395,276	-22,45431845	-43,82019112
Rota 11 - Principal 5,908m	7516434,428	621379,125	-22,45407668	-43,82035011
Rota 11 - Principal 5,908m	7516457,408	621378,64	-22,45386916	-43,82035658
Rota 11 - Principal 5,908m	7516474,513	621378,814	-22,45371465	-43,8203562
Rota 11 - Principal 5,908m	7516482,633	621348,006	-22,4536435	-43,82065618
Rota 11 - Principal 5,908m	7516485,97	621332,217	-22,45361448	-43,82080987
Rota 11 - Principal 5,908m	7516514,288	621318,989	-22,45335965	-43,82094057
Rota 11 - Principal 5,908m	7516536,817	621309,665	-22,45315683	-43,82103289
Rota 11 - Principal 5,908m	7516578,864	621290,107	-22,45277844	-43,82122615
Rota 11 - Principal 5,908m	7516588,109	621284,913	-22,4526953	-43,82127732
Rota 11 - Principal 5,908m	7516612,095	621267,733	-22,45247988	-43,82144609
Rota 11 - Principal 5,908m	7516615,383	621251,019	-22,45245137	-43,82160876
Rota 11 - Principal 5,908m	7516614,819	621224,468	-22,45245834	-43,8218667
Rota 11 - Principal 5,908m	7516610,174	621197,571	-22,45250221	-43,82212771
Rota 11 - Principal 5,908m	7516607,424	621172,282	-22,45252885	-43,82237323
Rota 11 - Principal 5,908m	7516590,243	621102,762	-22,45268895	-43,82304746
Rota 11 - Principal 5,908m	7516587,42	621088,846	-22,45271543	-43,82318246
Rota 11 - Principal 5,908m	7516584,269	621074,96	-22,45274488	-43,82331716
Rota 11 - Principal 5,908m	7516594,19	621027,781	-22,45265861	-43,82377635
Rota 11 - Principal 5,908m	7516591,702	621021,516	-22,45268153	-43,82383704
Rota 11 - Principal 5,908m	7516580,976	621018,522	-22,45277862	-43,82386531
Rota 11 - Principal 5,908m	7516567,862	621018,916	-22,45289704	-43,82386049
Rota 11 - Principal 5,908m	7516554,191	621027,218	-22,45301993	-43,82377877
Rota 11 - Principal 5,908m	7516543,862	621040,349	-22,45311229	-43,82365039
Rota 11 - Principal 5,908m	7516531,582	621062,95	-22,4532216	-43,82342984
Rota 11 - Principal 5,908m	7516526,599	621077,449	-22,45326558	-43,82328857
Rota 11 - Principal 5,908m	7516517,386	621090,598	-22,45334787	-43,8231601
Rota 11 - Principal 5,908m	7516505,42	621105,159	-22,45345492	-43,8230177
Rota 11 - Principal 5,908m	7516500,445	621122,381	-22,45349863	-43,82284997

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 11 - Principal 5,908m	7516508,256	621135,991	-22,45342711	-43,82271831
Rota 11 - Principal 5,908m	7516520,012	621147,602	-22,45332011	-43,82260638
Rota 11 - Principal 5,908m	7516535,57	621149,894	-22,45317943	-43,8225853
Rota 11 - Principal 5,908m	7516556,859	621148,512	-22,45298724	-43,82260035
Rota 11 - Principal 5,908m	7516572,606	621159,527	-22,45284423	-43,82249452
Rota 11 - Principal 5,908m	7516576,271	621182,098	-22,45280952	-43,82227548
Rota 11 - Principal 5,908m	7516575,368	621202,126	-22,45281626	-43,82208079
Rota 11 - Principal 5,908m	7516569,493	621215,685	-22,45286836	-43,8219486
Rota 11 - Principal 5,908m	7516555,926	621230,94	-22,45298982	-43,82179932
Rota 11 - Principal 5,908m	7516544,757	621237,977	-22,4530902	-43,82173009
Rota 11 - Principal 5,908m	7516527,67	621239,201	-22,45324445	-43,82171689
Rota 11 - Principal 5,908m	7516514,592	621237,362	-22,4533627	-43,82173376
Rota 11 - Principal 5,908m	7516496,934	621240,879	-22,45352194	-43,82169824
Rota 11 - Principal 5,908m	7516490,293	621246,976	-22,45358149	-43,82163849
Rota 11 - Principal 5,908m	7516449,25	621287,597	-22,45394931	-43,82124064
Rota 11 - Principal 5,908m	7516437,199	621291,814	-22,45405786	-43,82119874
Rota 11 - Principal 5,908m	7516418,421	621290,599	-22,45422755	-43,82120912
Rota 11 - Principal 5,908m	7516403,535	621281,277	-22,45436266	-43,82129856
Rota 11 - Principal 5,908m	7516388,992	621272,447	-22,45449464	-43,82138325
Rota 11 - Principal 5,908m	7516380,448	621272,841	-22,45457179	-43,82137877
Rota 11 - Principal 5,908m	7516364,451	621273,675	-22,45471622	-43,82136945
Rota 11 - Principal 5,908m	7516350,578	621280,671	-22,45484102	-43,82130041
Rota 11 - Principal 5,908m	7516332,715	621287,378	-22,45500189	-43,82123386
Rota 11 - Principal 5,908m	7516320,446	621287,19	-22,45511271	-43,82123476
Rota 11 - Principal 5,908m	7516306,813	621284,804	-22,45523602	-43,8212569
Rota 11 - Principal 5,908m	7516285,058	621282,315	-22,4554327	-43,82127943
Rota 11 - Principal 5,908m	7516279,369	621286,741	-22,45548376	-43,82123598
Rota 11 - Principal 5,908m	7516275,877	621293,606	-22,45551482	-43,821169
Rota 11 - Principal 5,908m	7516277,207	621306,172	-22,45550191	-43,821047
Rota 11 - Principal 5,908m	7516288,068	621328,624	-22,45540222	-43,82082966
Rota 11 - Principal 5,908m	7516294,064	621343,614	-22,45534699	-43,82068446
Rota 11 - Principal 5,908m	7516295,269	621351,97	-22,45533552	-43,82060335
Rota 11 - Principal 5,908m	7516299,857	621377,488	-22,45529227	-43,82035574
Rota 11 - Principal 5,908m	7516309,506	621397,072	-22,45520372	-43,82016617
Rota 11 - Principal 5,908m	7516316,944	621411,303	-22,45513553	-43,82002846
Rota 11 - Principal 5,908m	7516322,044	621419,782	-22,45508886	-43,81994645
Rota 11 - Principal 5,908m	7516338,108	621416,678	-22,45494399	-43,81997784
Rota 11 - Principal 5,908m	7516364,292	621406,884	-22,45470819	-43,82007502
Rota 11 - Principal 5,908m	7516400,791	621395,729	-22,45437932	-43,8201862
Rota 11 - Principal 5,908m	7516418,428	621387,18	-22,45422063	-43,82027062
Rota 11 - Principal 5,908m	7516430,481	621378,191	-22,4541124	-43,82035889
Rota 11 - Principal 5,908m	7516446,695	621373,172	-22,45396631	-43,8204089
Rota 11 - Principal 5,908m	7516459,725	621375,569	-22,45384845	-43,8203866
Rota 11 - Principal 5,908m	7516485,318	621379,582	-22,45361701	-43,82034956



## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 11 - Principal 5,908m	7516535,312	621394,353	-22,45316441	-43,82020985
Rota 11 - Principal 5,908m	7516552,352	621407,063	-22,4530096	-43,82008765
Rota 11 - Principal 5,908m	7516564,433	621428,002	-22,45289899	-43,8198851
Rota 11 - Principal 5,908m	7516577,474	621455,278	-22,45277926	-43,81962107
Rota 11 - Principal 5,908m	7516582,371	621471,461	-22,45273388	-43,81946419
Rota 11 - Principal 5,908m	7516579,189	621493,726	-22,45276104	-43,81924759
Rota 11 - Principal 5,908m	7516566,932	621517,872	-22,45287003	-43,81901203
Rota 11 - Principal 5,908m	7516554,236	621550,247	-22,4529824	-43,81869647
Rota 11 - Principal 5,908m	7516526,817	621600,668	-22,45322646	-43,81820443
Rota 11 - Principal 5,908m	7516518,915	621621,319	-22,45329636	-43,81800315
Rota 11 - Principal 5,908m	7516507,58	621644,372	-22,4533971	-43,81777828
Rota 11 - Principal 5,908m	7516492,476	621674,334	-22,45353139	-43,81748598
Rota 11 - Principal 5,908m	7516470,819	621726,478	-22,45372328	-43,81697762
Rota 11 - Principal 5,908m	7516457,89	621746,954	-22,45383861	-43,81677767
Rota 11 - Principal 5,908m	7516443,311	621766,431	-22,4539689	-43,81658729
Rota 11 - Principal 5,908m	7516417,513	621799,06	-22,45419959	-43,81626825
Rota 11 - Principal 5,908m	7516388,736	621841,494	-22,45445647	-43,8158537
Rota 11 - Principal 5,908m	7516363,363	621873,865	-22,45468334	-43,81553721
Rota 11 - Principal 5,908m	7516338,314	621908,336	-22,45490713	-43,81520032
Rota 11 - Principal 5,908m	7516325,131	621926,518	-22,4550249	-43,81502263
Rota 11 - Principal 5,908m	7516319,496	621934,032	-22,45507525	-43,81494919
Rota 11 - Principal 5,908m	7516310,324	621940,628	-22,45515763	-43,81488439
Rota 11 - Principal 5,908m	7516287,601	621954,323	-22,45536189	-43,81474957
Rota 11 - Principal 5,908m	7516267,064	621964,19	-22,45554668	-43,81465211
Rota 11 - Principal 5,908m	7516242,14	621979,447	-22,4557707	-43,81450194
Rota 11 - Principal 5,908m	7516210,465	621999,153	-22,45605539	-43,81430801
Rota 11 - Principal 5,908m	7516187,326	622017,107	-22,4562631	-43,81413178
Rota 11 - Principal 5,908m	7516181,274	622022,602	-22,45631737	-43,81407791
Rota 11 - Principal 5,908m	7516190,593	622047,333	-22,45623143	-43,81383831
Rota 11 - Principal 5,908m	7516203,386	622075,09	-22,45611391	-43,81356958
Rota 11 - Principal 5,908m	7516221,169	622100,263	-22,45595148	-43,81332633
Rota 11 - Principal 5,908m	7516240,421	622117,727	-22,45577635	-43,81315811
Rota 11 - Principal 5,908m	7516275,2	622132,665	-22,45546115	-43,81301563
Rota 11 - Principal 5,908m	7516282,973	622136,509	-22,45539068	-43,81297887
Rota 11 - Principal 5,908m	7516280,404	622151,366	-22,45541282	-43,8128343
Rota 11 - Principal 5,908m	7516288,247	622172,176	-22,45534049	-43,8126327
Rota 11 - Principal 5,908m	7516298,885	622194,804	-22,45524279	-43,81241363
Rota 11 - Principal 5,908m	7516306,366	622205,933	-22,45517442	-43,81230606
Rota 11 - Principal 5,908m	7516388,805	622230,48	-22,45442807	-43,81207388
Rota 11 - Principal 5,908m	7516406,206	622232,745	-22,45427074	-43,81205321
Rota 11 - Principal 5,908m	7516413,465	622226,128	-22,45420565	-43,81211807
Rota 11 - Principal 5,908m	7516418,034	622207,101	-22,45416574	-43,81230331
Rota 11 - Principal 5,908m	7516423,407	622175,604	-22,45411947	-43,81260978
Rota 11 - Principal 5,908m	7516430,382	622145,628	-22,45405861	-43,81290159

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 11 - Principal 5,908m	7516438,392	622081,598	-22,45399083	-43,8135244
Rota 11 - Principal 5,908m	7516446,433	622050,815	-22,45392041	-43,81382414
Rota 11 - Principal 5,908m	7516450,837	622028,143	-22,45388225	-43,81404478
Rota 11 - Principal 5,908m	7516445,473	622012,706	-22,4539318	-43,81419438
Rota 11 - Principal 5,908m	7516431,549	622003,281	-22,45405824	-43,81428489
Rota 11 - Principal 5,908m	7516414,629	621992,703	-22,45421182	-43,81438638
Rota 11 - Principal 5,908m	7516320,983	621931,136	-22,45506204	-43,81497744
Rota 11 - 209m	7515560,467	620928,288	-22,4620024	-43,82466441
Rota 11 - 209m	7515572,255	620928,743	-22,46189589	-43,82466088
Rota 11 - 209m	7515583,263	620925,177	-22,46179672	-43,82469637
Rota 11 - 209m	7515594,58	620917,631	-22,46169504	-43,82477057
Rota 11 - 209m	7515606,509	620916,664	-22,46158736	-43,82478088
Rota 11 - 209m	7515646,215	620920,054	-22,46122849	-43,82475096
Rota 11 - 209m	7515765,949	620931,1	-22,46014626	-43,82465273
Rota 11 - 209m	7515765,949	620931,1	-22,46014626	-43,82465273
Rota 11 - 179m	7515977,419	621369,359	-22,45820515	-43,82041009
Rota 11 - 179m	7515994,832	621349,128	-22,45804931	-43,82060801
Rota 11 - 179m	7516011,606	621330,719	-22,45789911	-43,82078818
Rota 11 - 179m	7516028,528	621312,101	-22,45774759	-43,82097039
Rota 11 - 179m	7516051,418	621335,017	-22,45753922	-43,82074946
Rota 11 - 179m	7516092,011	621391,664	-22,45716855	-43,8202021
Rota 11 - 76m	7516029,038	621312,415	-22,45774297	-43,82096737
Rota 11 - 76m	7516032,673	621299,254	-22,45771106	-43,82109554
Rota 11 - 76m	7516032,214	621275,032	-22,45771694	-43,82133088
Rota 11 - 76m	7516022,506	621238,167	-22,45780723	-43,82168837
Rota 11 - Santo Antonio 110m	7516485,784	621333,179	-22,45361609	-43,8208005
Rota 11 - Santo Antonio 110m	7516474,475	621331,545	-22,45371836	-43,82081552
Rota 11 - Santo Antonio 110m	7516446,607	621328,544	-22,45397027	-43,82084255
Rota 11 - Santo Antonio 110m	7516405,83	621331,504	-22,45433837	-43,82081067
Rota 11 - Santo Antonio 110m	7516377,396	621338,483	-22,45459469	-43,82074068
Rota 11 - 192m	7516282,411	622136,125	-22,45539578	-43,81298256
Rota 11 - 192m	7516304,962	622133,08	-22,45519231	-43,81301388
Rota 11 - 192m	7516335,068	622126,716	-22,45492085	-43,81307804
Rota 11 - 192m	7516347,879	622115,33	-22,45480595	-43,81318966
Rota 11 - 192m	7516356,398	622098,055	-22,45473024	-43,81335818
Rota 11 - 192m	7516360,88	622086,226	-22,45469061	-43,81347347
Rota 11 - 192m	7516371,67	622059,337	-22,45459507	-43,81373558
Rota 11 - 192m	7516375,745	622044,738	-22,4545593	-43,81387776
Rota 11 - 192m	7516377,395	622033,015	-22,45454524	-43,8139918
Rota 11 - 192m	7516371,044	622028,71	-22,45460291	-43,81403314
Rota 11 - 192m	7516348,615	622016,645	-22,45480636	-43,81414866
Rota 11 - 184m	7516429,307	622001,365	-22,45407862	-43,81430334
Rota 11 - 184m	7516437,266	621992,829	-22,45400735	-43,8143869
Rota 11 - 184m	7516450,833	621981,415	-22,45388562	-43,81449885

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 11 - 184m	7516454,727	621971,464	-22,45385116	-43,81459584
Rota 11 - 184m	7516454,718	621970,58	-22,45385131	-43,81460443
Rota 11 - 184m	7516455,537	621959,119	-22,45384473	-43,81471586
Rota 11 - 184m	7516443,362	621934,949	-22,45395642	-43,81494979
Rota 11 - 184m	7516436,347	621918,827	-22,45402093	-43,8151059
Rota 11 - 184m	7516436,567	621901,986	-22,45402014	-43,81526957
Rota 11 - 184m	7516442,12	621891,258	-22,45397075	-43,81537425
Rota 11 - 184m	7516455,874	621875,391	-22,45384766	-43,81552948
Rota 11 - 184m	7516476,933	621844,919	-22,45365962	-43,8158272
Rota 11 - Principal 4,840m	7516181,196	622022,311	-22,45631809	-43,81408073
Rota 11 - Principal 4,840m	7516170,212	622027,894	-22,4564169	-43,81402564
Rota 11 - Principal 4,840m	7516160,854	622033,039	-22,45650106	-43,81397493
Rota 11 - Principal 4,840m	7516152,217	622040,856	-22,45657852	-43,8138983
Rota 11 - Principal 4,840m	7516158,783	622057,502	-22,45651802	-43,81373705
Rota 11 - Principal 4,840m	7516170,235	622089,821	-22,45641228	-43,81342388
Rota 11 - Principal 4,840m	7516189,87	622129,042	-22,45623212	-43,81304427
Rota 11 - Principal 4,840m	7516209,345	622167,907	-22,45605345	-43,81266811
Rota 11 - Principal 4,840m	7516219,114	622195,136	-22,45596327	-43,81240427
Rota 11 - Principal 4,840m	7516244,977	622253,583	-22,45572549	-43,81183832
Rota 11 - Principal 4,840m	7516265,054	622292,535	-22,45554136	-43,81146135
Rota 11 - Principal 4,840m	7516294,542	622353,673	-22,45527064	-43,81086953
Rota 11 - Principal 4,840m	7516309,383	622385,515	-22,45513432	-43,81056127
Rota 11 - Principal 4,840m	7516319,949	622409,47	-22,45503717	-43,81032931
Rota 11 - Principal 4,840m	7516355,773	622484,976	-22,45470819	-43,80959836
Rota 11 - Principal 4,840m	7516372,831	622520,961	-22,45455155	-43,80925001
Rota 11 - Principal 4,840m	7516424,411	622637,029	-22,45407734	-43,80812614
Rota 11 - Principal 4,840m	7516446,872	622682,213	-22,45387122	-43,80768882
Rota 11 - Principal 4,840m	7516452,505	622709,544	-22,45381839	-43,80742368
Rota 11 - Principal 4,840m	7516461,394	622763,5	-22,45373423	-43,80690007
Rota 11 - Principal 4,840m	7516471,081	622837,682	-22,4536414	-43,80617999
Rota 11 - Principal 4,840m	7516477,828	622884,43	-22,4535771	-43,80572626
Rota 11 - Principal 4,840m	7516489,861	622957,081	-22,45346319	-43,80502123
Rota 11 - Principal 4,840m	7516503,309	623010,565	-22,45333788	-43,80450257
Rota 11 - Principal 4,840m	7516516,203	623060,137	-22,45321785	-43,80402187
Rota 11 - Principal 4,840m	7516530,213	623098,143	-22,45308857	-43,80365365
Rota 11 - Principal 4,840m	7516564,482	623176,801	-22,45277338	-43,80289199
Rota 11 - Principal 4,840m	7516643,257	623331,239	-22,45205074	-43,80139744
Rota 11 - Principal 4,840m	7516698,861	623434,55	-22,45154106	-43,80039789
Rota 11 - Principal 4,840m	7516755,171	623544,343	-22,45102453	-43,79933542
Rota 11 - Principal 4,840m	7516806,594	623640,629	-22,45055311	-43,79840383
Rota 11 - Principal 4,840m	7516845,51	623708,003	-22,45019675	-43,79775221
Rota 11 - Principal 4,840m	7516897,092	623782,475	-22,44972546	-43,79703259
Rota 11 - Principal 4,840m	7516920,503	623816,2	-22,44951157	-43,79670672
Rota 11 - Principal 4,840m	7517016,333	623904,147	-22,44863965	-43,79585963

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 11 - Principal 4,840m	7517096,055	623975,448	-22,44791442	-43,79517304
Rota 11 - Principal 4,840m	7517159,506	624018,443	-22,44733822	-43,79476023
Rota 11 - Principal 4,840m	7517202,562	624047,109	-22,44694725	-43,79448506
Rota 11 - Principal 4,840m	7517215,959	624035,76	-22,44682707	-43,79459638
Rota 11 - Principal 4,840m	7517220,595	624028,682	-22,44678571	-43,79466551
Rota 11 - Principal 4,840m	7517168,796	623979,984	-22,4472571	-43,79513465
Rota 11 - Principal 4,840m	7517075,085	623899,406	-22,44810935	-43,79591028
Rota 11 - Principal 4,840m	7516979,096	623806,801	-22,44898304	-43,79680261
Rota 11 - Principal 4,840m	7516917,301	623733,645	-22,44954647	-43,79750863
Rota 11 - Principal 4,840m	7516868,847	623658,558	-22,44998954	-43,79823447
Rota 11 - Principal 4,840m	7516822,469	623574,42	-22,45041452	-43,79904841
Rota 11 - Principal 4,840m	7516763,932	623464,478	-22,45095117	-43,80011214
Rota 11 - Principal 4,840m	7516738,345	623413,322	-22,45118597	-43,80060723
Rota 11 - Principal 4,840m	7516753,456	623404,402	-22,45105013	-43,80069508
Rota 11 - Principal 4,840m	7516753,456	623404,402	-22,45105013	-43,80069508
Rota 11 - Principal 4,840m	7516769,738	623392,593	-22,45090392	-43,8008111
Rota 11 - Principal 4,840m	7516818,934	623312,328	-22,45046537	-43,80159483
Rota 11 - Principal 4,840m	7516847,716	623278,257	-22,45020787	-43,80192813
Rota 11 - Principal 4,840m	7516866,455	623252,136	-22,4500405	-43,80218339
Rota 11 - Principal 4,840m	7516887,626	623219,957	-22,44985161	-43,80249771
Rota 11 - Principal 4,840m	7516903,159	623233,349	-22,44971034	-43,8023688
Rota 11 - Principal 4,840m	7516913,256	623252,04	-22,4496178	-43,80218796
Rota 11 - Principal 4,840m	7516922,171	623266,578	-22,44953623	-43,80204738
Rota 11 - Principal 4,840m	7516906,106	623283,761	-22,4496801	-43,80187918
Rota 11 - Principal 4,840m	7516892,631	623300,882	-22,44980057	-43,80171177
Rota 11 - Principal 4,840m	7516881,268	623314,288	-22,44990223	-43,80158062
Rota 11 - Principal 4,840m	7516867,95	623331,657	-22,45002127	-43,80141082
Rota 11 - Principal 4,840m	7516856,004	623347,157	-22,45012804	-43,80125928
Rota 11 - Principal 4,840m	7516846,164	623364,518	-22,45021566	-43,80108982
Rota 11 - Principal 4,840m	7516841,488	623379,921	-22,45025679	-43,8009398
Rota 11 - Principal 4,840m	7516839,373	623392,003	-22,45027502	-43,80082223
Rota 11 - Principal 4,840m	7516838,595	623405,629	-22,45028106	-43,80068977
Rota 11 - Principal 4,840m	7516839,965	623422,158	-22,45026749	-43,80052926
Rota 11 - Principal 4,840m	7516843,976	623446,252	-22,45022953	-43,80029547
Rota 11 - Principal 4,840m	7516851,916	623464,218	-22,45015651	-43,80012151
Rota 11 - Principal 4,840m	7516864,319	623475,067	-22,4500437	-43,80001706
Rota 11 - Principal 4,840m	7516885,809	623475,894	-22,44984955	-43,80001069
Rota 11 - Principal 4,840m	7516928,792	623462,314	-22,4494623	-43,80014598
Rota 11 - Principal 4,840m	7516974,159	623453,016	-22,44905321	-43,80023985
Rota 11 - Principal 4,840m	7516974,159	623453,016	-22,44905321	-43,80023985
Rota 11 - Principal 4,840m	7516998,337	623441,582	-22,44883567	-43,80035283
Rota 11 - Principal 4,840m	7517023,018	623416,399	-22,44861456	-43,80059945
Rota 11 - Principal 4,840m	7517031,664	623419,07	-22,44853628	-43,80057417
Rota 11 - Principal 4,840m	7517040,391	623424,917	-22,44845704	-43,80051803

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 11 - Principal 4,840m	7517037,027	623440,595	-22,44848628	-43,80036543
Rota 11 - Principal 4,840m	7517032,809	623459,231	-22,44852303	-43,80018402
Rota 11 - Principal 4,840m	7517032,346	623466,765	-22,44852667	-43,80011078
Rota 11 - Principal 4,840m	7517039,612	623478,777	-22,44846018	-43,79999463
Rota 11 - Principal 4,840m	7517073,383	623502,714	-22,44815343	-43,79976466
Rota 11 - Principal 4,840m	7517094,834	623496,337	-22,44796014	-43,79982829
Rota 11 - Principal 4,840m	7517133,55	623492,387	-22,44761074	-43,79986969
Rota 11 - Principal 4,840m	7517182,644	623496,481	-22,44716702	-43,79983373
Rota 11 - Principal 4,840m	7517228,493	623504,39	-22,44675234	-43,79976044
Rota 11 - Principal 4,840m	7517267,55	623524,447	-22,44639812	-43,79956859
Rota 11 - Principal 4,840m	7517273	623536,24	-22,44634805	-43,79945442
Rota 11 - Principal 4,840m	7517277,529	623586,091	-22,44630353	-43,7989704
Rota 11 - Principal 4,840m	7517276,485	623612,397	-22,44631107	-43,79871472
Rota 11 - Principal 4,840m	7517279,477	623655,565	-22,44628091	-43,79829551
Rota 11 - Principal 4,840m	7517280,183	623669,643	-22,44627352	-43,79815877
Rota 11 - Principal 4,840m	7517300,673	623685,014	-22,44608735	-43,79801101
Rota 11 - Principal 4,840m	7517323,834	623695,47	-22,44587739	-43,79791122
Rota 11 - Principal 4,840m	7517348,656	623710,07	-22,44565214	-43,7977713
Rota 11 - Principal 4,840m	7517366,477	623728,072	-22,44548988	-43,79759777
Rota 11 - Principal 4,840m	7517372,233	623756,266	-22,44543585	-43,79732426
Rota 11 - Principal 4,840m	7517356,35	623784,985	-22,44557723	-43,79704399
Rota 11 - Principal 4,840m	7517340,962	623808,581	-22,44571451	-43,79681351
Rota 11 - Principal 4,840m	7517311,333	623844,32	-22,44597953	-43,79646395
Rota 11 - Principal 4,840m	7517296,215	623861,041	-22,44611486	-43,7963003
Rota 11 - Principal 4,840m	7517275,572	623869,548	-22,44630069	-43,79621603
Rota 11 - Principal 4,840m	7517258,351	623871,051	-22,44645613	-43,79620009
Rota 11 - Principal 4,840m	7517226,934	623868,178	-22,44674009	-43,79622555
Rota 11 - Principal 4,840m	7517201,96	623862,426	-22,44696608	-43,79627949
Rota 11 - Principal 4,840m	7517201,072	623882,281	-22,44697266	-43,7960865
Rota 11 - Principal 4,840m	7517188,024	623904,505	-22,4470889	-43,79586954
Rota 11 - Principal 4,840m	7517182,507	623926,29	-22,44713715	-43,79565744
Rota 11 - Principal 4,840m	7517176,142	623950,932	-22,44719285	-43,79541751
Rota 11 - Principal 4,840m	7517181,241	623978,896	-22,44714477	-43,79514619
Rota 11 - 484m	7516446,21	622681,197	-22,45387728	-43,80769864
Rota 11 - 484m	7516441,046	622635,988	-22,45392717	-43,80813754
Rota 11 - 484m	7516426,459	622539,145	-22,45406587	-43,80907745
Rota 11 - 484m	7516416,857	622475,803	-22,45415713	-43,8096922
Rota 11 - 484m	7516411,361	622435,507	-22,45420966	-43,81008335
Rota 11 - 484m	7516373,226	622339,647	-22,45456096	-43,81101189
Rota 11 - 484m	7516314,996	622220,332	-22,45509545	-43,81216681
Rota 11 - 217m	7516887,826	623220,883	-22,44984973	-43,80248873
Rota 11 - 217m	7516886,732	623209,292	-22,44986045	-43,80260128
Rota 11 - 217m	7516889,11	623194,89	-22,44984001	-43,8027414
Rota 11 - 217m	7516910,138	623194,64	-22,4496501	-43,80274546

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 11 - 217m	7516941,158	623199,949	-22,44936955	-43,80269628
Rota 11 - 217m	7516972,655	623198,557	-22,44908516	-43,80271224
Rota 11 - 217m	7517000,486	623198,115	-22,44883382	-43,8027187
Rota 11 - 217m	7517055,622	623219,601	-22,44833428	-43,80251421
Rota 11 - 217m	7517071,901	623230,655	-22,44818645	-43,80240806
Rota 11 - 146m	7517023,45	623417,028	-22,44861061	-43,80059337
Rota 11 - 146m	7517036,088	623399,297	-22,44849775	-43,80076664
Rota 11 - 146m	7517046,451	623370,401	-22,44840623	-43,80104821
Rota 11 - 146m	7517052,53	623342,755	-22,44835332	-43,80131732
Rota 11 - 146m	7517050,092	623314,836	-22,44837736	-43,8015884
Rota 11 - 146m	7517041,805	623291,407	-22,44845389	-43,80181542
Rota 11 - 146m	7517033,162	623282,834	-22,44853258	-43,80189804
Rota 11 - 79,6m	7517040,808	623424,738	-22,44845328	-43,80051981
Rota 11 - 79,6m	7517054,874	623414,357	-22,44832698	-43,80062177
Rota 11 - 79,6m	7517069,139	623399,119	-22,44819924	-43,80077094
Rota 11 - 79,6m	7517106,258	623381,067	-22,44786528	-43,80094922
Rota 11 - 281m	7517073,574	623503,236	-22,44815166	-43,79975961
Rota 11 - 281m	7517069,325	623516,314	-22,44818909	-43,79963221
Rota 11 - 281m	7517064,414	623532,721	-22,44823226	-43,7994724
Rota 11 - 281m	7517063,297	623557,356	-22,44824057	-43,79923295
Rota 11 - 281m	7517061,721	623582,949	-22,44825296	-43,79898414
Rota 11 - 281m	7517060,542	623592,373	-22,44826292	-43,79889248
Rota 11 - 281m	7517050,58	623599,489	-22,44835239	-43,79882256
Rota 11 - 281m	7517034,153	623603,19	-22,44850049	-43,79878533
Rota 11 - 281m	7517020,733	623613,958	-22,44862093	-43,79867965
Rota 11 - 281m	7517000,448	623633,114	-22,44880275	-43,79849194
Rota 11 - 281m	7516975,783	623651,732	-22,44902418	-43,79830911
Rota 11 - 281m	7516957,48	623676,475	-22,4491877	-43,79806727
Rota 11 - 281m	7516923,338	623718,99	-22,449493	-43,7976515
Rota 11 - 495m	7517053,344	623597,301	-22,44832758	-43,79884404
Rota 11 - 495m	7517075,393	623605,851	-22,44812782	-43,79876267
Rota 11 - 495m	7517094,278	623620,612	-22,44795618	-43,79862072
Rota 11 - 495m	7517098,107	623634,114	-22,44792062	-43,79848982
Rota 11 - 495m	7517089,499	623653,51	-22,44799696	-43,79830069
Rota 11 - 495m	7517077,593	623668,247	-22,44810343	-43,79815657
Rota 11 - 495m	7517068,627	623675,211	-22,44818391	-43,7980882
Rota 11 - 495m	7517058,377	623683,619	-22,44827588	-43,7980057
Rota 11 - 495m	7517045,276	623697,213	-22,44839323	-43,7978726
Rota 11 - 495m	7517037,37	623706,033	-22,448464	-43,79778628
Rota 11 - 495m	7517032,761	623716,568	-22,44850486	-43,79768356
Rota 11 - 495m	7517029,092	623729,218	-22,44853708	-43,79756036
Rota 11 - 495m	7517031,892	623746,628	-22,44851054	-43,79739141
Rota 11 - 495m	7517044,145	623759,886	-22,44839891	-43,79726354
Rota 11 - 495m	7517058,345	623779,211	-22,44826925	-43,79707687

## ANEXO III



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**

**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP**

**ROTAS E ETINERÁRIOS RSU**

MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI

ELABORADO POR: ENG. RICARDO ELLER VIANA

CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 11 - 495m	7517076,87	623794,785	-22,4481008	-43,79692699
Rota 11 - 495m	7517090,799	623796,681	-22,44797486	-43,79690965
Rota 11 - 495m	7517103,747	623780,171	-22,44785911	-43,79707108
Rota 11 - 495m	7517104,296	623779,039	-22,44785423	-43,79708212
Rota 11 - 495m	7517121,741	623742,588	-22,4476993	-43,79743766
Rota 11 - 495m	7517146,433	623702,382	-22,44747919	-43,79783025
Rota 11 - 495m	7517163,083	623662,869	-22,44733167	-43,79821548
Rota 11 - 495m	7517194,819	623609,125	-22,44704891	-43,79874015
Rota 11 - 328m	7517277,259	623585,416	-22,44630602	-43,79897693
Rota 11 - 328m	7517296,02	623565,182	-22,44613803	-43,799175
Rota 11 - 328m	7517313,765	623542,264	-22,44597941	-43,79939906
Rota 11 - 328m	7517329,302	623520,744	-22,44584064	-43,79960937
Rota 11 - 328m	7517349,412	623500,666	-22,44566046	-43,79980603
Rota 11 - 328m	7517360,633	623485,412	-22,44556021	-43,79995511
Rota 11 - 328m	7517371,936	623464,969	-22,4454596	-43,80015462
Rota 11 - 328m	7517398,302	623436,138	-22,44522354	-43,80043681
Rota 11 - 328m	7517404,714	623424,151	-22,44516649	-43,80055377
Rota 11 - 328m	7517401,596	623395,502	-22,44519672	-43,8008319
Rota 11 - 328m	7517387,646	623370,496	-22,44532452	-43,80107378
Rota 11 - 328m	7517369,614	623341,246	-22,4454895	-43,80135659
Rota 11 - 328m	7517345,549	623324,116	-22,44570809	-43,80152117
Rota 11 - 224m	7517202,477	623863,432	-22,44696134	-43,79626976
Rota 11 - 224m	7517194,357	623845,459	-22,44703598	-43,79644377
Rota 11 - 224m	7517194,196	623822,393	-22,4470391	-43,79666787
Rota 11 - 224m	7517194,155	623820,957	-22,44703958	-43,79668182
Rota 11 - 224m	7517198,113	623793,372	-22,44700583	-43,79695016
Rota 11 - 224m	7517207,203	623760,893	-22,44692608	-43,79726645
Rota 11 - 224m	7517214,076	623740,133	-22,44686551	-43,7974687
Rota 11 - 224m	7517246,591	623711,482	-22,4465739	-43,79774963
Rota 11 - 224m	7517280,258	623670,749	-22,44627276	-43,79814804
Rota 7 - BR393 Vazador 4,330m	7517181,009	623978,46	-22,4471469	-43,79515041
Rota 7 - BR393 Vazador 4,330m	7517187,034	623999,248	-22,44709097	-43,79494889
Rota 7 - BR393 Vazador 4,330m	7517313,117	624128,854	-22,44594277	-43,79369942
Rota 7 - BR393 Vazador 4,330m	7517387,217	624206,568	-22,44526785	-43,7929501
Rota 7 - BR393 Vazador 4,330m	7517463,809	624288,573	-22,44457011	-43,7921593
Rota 7 - BR393 Vazador 4,330m	7517466,994	624291,855	-22,44454111	-43,79212766
Rota 7 - BR393 Vazador 4,330m	7517538,063	624366,745	-22,44389376	-43,79140556
Rota 7 - BR393 Vazador 4,330m	7517665,407	624502,443	-22,44273371	-43,79009705
Rota 7 - BR393 Vazador 4,330m	7517745,823	624591,246	-22,44200091	-43,78924052
Rota 7 - BR393 Vazador 4,330m	7517783,207	624634,66	-22,44166009	-43,78882164
Rota 7 - BR393 Vazador 4,330m	7517820,914	624694,094	-22,4413152	-43,78824712
Rota 7 - BR393 Vazador 4,330m	7517848,619	624760,989	-22,44106008	-43,78759934
Rota 7 - BR393 Vazador 4,330m	7517917,204	624924,274	-22,4404287	-43,78601823
Rota 7 - BR393 Vazador 4,330m	7517989,569	625104,78	-22,43976189	-43,78427012

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - BR393 Vazador 4,330m	7518023,278	625176,227	-22,4394522	-43,7835786
Rota 7 - BR393 Vazador 4,330m	7518066,327	625241,341	-22,43905861	-43,78294934
Rota 7 - BR393 Vazador 4,330m	7518133,139	625319,122	-22,43844947	-43,78219889
Rota 7 - BR393 Vazador 4,330m	7518191,693	625382,605	-22,43791595	-43,78158671
Rota 7 - BR393 Vazador 4,330m	7518264,551	625458,265	-22,43725235	-43,78085736
Rota 7 - BR393 Vazador 4,330m	7518297,508	625503,964	-22,43695133	-43,78041595
Rota 7 - BR393 Vazador 4,330m	7518328,799	625550,039	-22,43666532	-43,77997077
Rota 7 - BR393 Vazador 4,330m	7518371,17	625625,519	-22,43627709	-43,77924078
Rota 7 - BR393 Vazador 4,330m	7518423,669	625713,81	-22,43579642	-43,77838711
Rota 7 - BR393 Vazador 4,330m	7518486,107	625818,118	-22,43522481	-43,77737862
Rota 7 - BR393 Vazador 4,330m	7518486,107	625818,118	-22,43522481	-43,77737862
Rota 7 - BR393 Vazador 4,330m	7518531,998	625898,444	-22,43480442	-43,77660184
Rota 7 - BR393 Vazador 4,330m	7518586,019	625985,141	-22,43431011	-43,7757638
Rota 7 - BR393 Vazador 4,330m	7518653,681	626097,44	-22,43369071	-43,77467811
Rota 7 - BR393 Vazador 4,330m	7518700,863	626171,752	-22,43325908	-43,77395988
Rota 7 - BR393 Vazador 4,330m	7518769,878	626251,869	-22,43262982	-43,77318698
Rota 7 - BR393 Vazador 4,330m	7518904,378	626392,751	-22,43140462	-43,77182893
Rota 7 - BR393 Vazador 4,330m	7519000,31	626495,965	-22,43053053	-43,7708338
Rota 7 - BR393 Vazador 4,330m	7519129,61	626634,42	-22,42935245	-43,76949896
Rota 7 - BR393 Vazador 4,330m	7519167,892	626671,782	-22,42900393	-43,76913903
Rota 7 - BR393 Vazador 4,330m	7519208,774	626706,139	-22,42863213	-43,7688085
Rota 7 - BR393 Vazador 4,330m	7519262,111	626747,87	-22,42814731	-43,76840733
Rota 7 - BR393 Vazador 4,330m	7519322,615	626794,052	-22,42759741	-43,76796348
Rota 7 - BR393 Vazador 4,330m	7519377,564	626839,241	-22,42709776	-43,76752885
Rota 7 - BR393 Vazador 4,330m	7519440,525	626904,49	-22,42652426	-43,76689997
Rota 7 - BR393 Vazador 4,330m	7519512,464	626987,217	-22,42586837	-43,76610202
Rota 7 - BR393 Vazador 4,330m	7519607,274	627094,996	-22,42500405	-43,76506253
Rota 7 - BR393 Vazador 4,330m	7519693,442	627193,042	-22,42421849	-43,76411691
Rota 7 - BR393 Vazador 4,330m	7519721,911	627225,864	-22,42395892	-43,76380032
Rota 7 - BR393 Vazador 4,330m	7519736,426	627248,172	-22,42382616	-43,76358476
Rota 7 - BR393 Vazador 4,330m	7519749,43	627280,936	-22,42370627	-43,76326751
Rota 7 - BR393 Vazador 4,330m	7519752,967	627306,792	-22,4236724	-43,76301661
Rota 7 - BR393 Vazador 4,330m	7519752,741	627330,7	-22,42367266	-43,76278432
Rota 7 - BR393 Vazador 4,330m	7519748,315	627349,051	-22,42371128	-43,76260569
Rota 7 - BR393 Vazador 4,330m	7519737,652	627379,695	-22,4238053	-43,76230714




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Início da Rota 12	7515375,635	619858,198	-22,46374726	-43,8350493
Rota 12 - Principal 7,897m	7515377,211	619858,027	-22,46373304	-43,83505108
Rota 12 - Principal 7,897m	7515392,431	619836,977	-22,46359705	-43,83525679
Rota 12 - Principal 7,897m	7515402,713	619820,821	-22,46350531	-43,83541456
Rota 12 - Principal 7,897m	7515419,808	619790,096	-22,46335307	-43,83571444
Rota 12 - Principal 7,897m	7515434,918	619767,021	-22,46321821	-43,83593981
Rota 12 - Principal 7,897m	7515438,85	619753,245	-22,46318365	-43,83607398
Rota 12 - Principal 7,897m	7515475,053	619651,126	-22,46286382	-43,83706909
Rota 12 - Principal 7,897m	7515485,298	619623,7	-22,46277321	-43,83733638
Rota 12 - Principal 7,897m	7515488,782	619599,571	-22,46274343	-43,83757113
Rota 12 - Principal 7,897m	7515496,591	619579,182	-22,46267432	-43,83776985
Rota 12 - Principal 7,897m	7515507,527	619549,855	-22,4625776	-43,83805566
Rota 12 - Principal 7,897m	7515513,541	619524,034	-22,46252509	-43,83830704
Rota 12 - Principal 7,897m	7515514,636	619496,781	-22,4625171	-43,83857196
Rota 12 - Principal 7,897m	7515537,074	619409,033	-22,46232058	-43,83942637
Rota 12 - Principal 7,897m	7515542,376	619374,781	-22,46227508	-43,83975962
Rota 12 - Principal 7,897m	7515545,195	619354,774	-22,46225102	-43,83995426
Rota 12 - Principal 7,897m	7515546,744	619306,409	-22,46224041	-43,84042437
Rota 12 - Principal 7,897m	7515548,873	619303,696	-22,46222136	-43,8404509
Rota 12 - Principal 7,897m	7515558,453	619293,532	-22,46213555	-43,84055039
Rota 12 - Principal 7,897m	7515567,279	619279,512	-22,46205681	-43,8406873
Rota 12 - Principal 7,897m	7515577,364	619268,296	-22,4619665	-43,84079705
Rota 12 - Principal 7,897m	7515605,425	619258,651	-22,46171373	-43,84089289
Rota 12 - Principal 7,897m	7515620,603	619259,809	-22,46157655	-43,84088277
Rota 12 - Principal 7,897m	7515634,964	619273,196	-22,4614459	-43,84075376
Rota 12 - Principal 7,897m	7515648,905	619287,91	-22,46131896	-43,84061182
Rota 12 - Principal 7,897m	7515658,921	619307,267	-22,46122714	-43,84042447
Rota 12 - Principal 7,897m	7515666,722	619316,269	-22,46115605	-43,84033757
Rota 12 - Principal 7,897m	7515697,964	619324,088	-22,46087332	-43,84026394
Rota 12 - Principal 7,897m	7515717,695	619323,43	-22,46069515	-43,84027182
Rota 12 - Principal 7,897m	7515746,708	619314,988	-22,4604337	-43,84035603
Rota 12 - Principal 7,897m	7515754,531	619323,544	-22,46036244	-43,84027348
Rota 12 - Principal 7,897m	7515767,945	619341,313	-22,46024004	-43,84010181
Rota 12 - Principal 7,897m	7515781,294	619349,739	-22,46011888	-43,84002094
Rota 12 - Principal 7,897m	7515799,772	619364,067	-22,45995098	-43,83988309
Rota 12 - Principal 7,897m	7515808,439	619373,99	-22,45987201	-43,83978731
Rota 12 - Principal 7,897m	7515819,724	619386,858	-22,45976917	-43,83966312
Rota 12 - Principal 7,897m	7515824,977	619397,732	-22,45972097	-43,83955785
Rota 12 - Principal 7,897m	7515827,998	619403,332	-22,4596933	-43,83950365
Rota 12 - Principal 7,897m	7515843,462	619407,372	-22,45955334	-43,83946556
Rota 12 - Principal 7,897m	7515889,887	619380,011	-22,45913593	-43,83973493
Rota 12 - Principal 7,897m	7515925,539	619335,883	-22,458817	-43,84016642
Rota 12 - Principal 7,897m	7515940,519	619321,445	-22,4586827	-43,84030785
Rota 12 - Principal 7,897m	7515950,425	619322,447	-22,45859316	-43,84029886
Rota 12 - Principal 7,897m	7515951,36	619328,448	-22,4585843	-43,84024061

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 12 - Principal 7,897m	7515954,311	619342,231	-22,45855668	-43,8401069
Rota 12 - Principal 7,897m	7515972,72	619353,585	-22,45838962	-43,83999795
Rota 12 - Principal 7,897m	7516009,866	619377,426	-22,45805244	-43,83976907
Rota 12 - Principal 7,897m	7516046,48	619406,706	-22,45771969	-43,83948729
Rota 12 - Principal 7,897m	7516088,496	619430,383	-22,45733854	-43,83926037
Rota 12 - Principal 7,897m	7516113,889	619448,961	-22,45710788	-43,83908175
Rota 12 - Principal 7,897m	7516129,419	619469,839	-22,45696615	-43,83888004
Rota 12 - Principal 7,897m	7516146	619492,973	-22,45681477	-43,83865648
Rota 12 - Principal 7,897m	7516156,13	619498,624	-22,45672288	-43,83860234
Rota 12 - Principal 7,897m	7516180,026	619494,233	-22,45650735	-43,8386468
Rota 12 - Principal 7,897m	7516176,112	619478,754	-22,45654379	-43,83879692
Rota 12 - Principal 7,897m	7516181,029	619470,977	-22,45649992	-43,83887286
Rota 12 - Principal 7,897m	7516190,308	619466,372	-22,45641643	-43,83891832
Rota 12 - Principal 7,897m	7516196,249	619452,024	-22,45636377	-43,83905819
Rota 12 - Principal 7,897m	7516206,187	619438,986	-22,45627493	-43,83918562
Rota 12 - Principal 7,897m	7516203,246	619421,556	-22,45630271	-43,83935478
Rota 12 - Principal 7,897m	7516190,352	619403,009	-22,45642047	-43,83953404
Rota 12 - Principal 7,897m	7516180,283	619399,285	-22,45651167	-43,83956947
Rota 12 - Principal 7,897m	7516172,418	619384,259	-22,45658375	-43,83971489
Rota 12 - Principal 7,897m	7516152,948	619324,28	-22,45676381	-43,84029627
Rota 12 - Principal 7,897m	7516145,691	619292,051	-22,4568316	-43,8406089
Rota 12 - Principal 7,897m	7516124,463	619201,044	-22,45702969	-43,84149167
Rota 12 - Principal 7,897m	7516098,688	619090,379	-22,45727021	-43,84256511
Rota 12 - Principal 7,897m	7516070,126	619020,033	-22,45753309	-43,84324655
Rota 12 - Principal 7,897m	7515971,962	618785,717	-22,45843604	-43,84551617
Rota 12 - Principal 7,897m	7515874,201	618557,825	-22,45933487	-43,84772341
Rota 12 - Principal 7,897m	7515777,664	618410,991	-22,46021699	-43,84914308
Rota 12 - Principal 7,897m	7515756,35	618383,314	-22,46041143	-43,84941045
Rota 12 - Principal 7,897m	7515714,404	618330,115	-22,46079398	-43,8499243
Rota 12 - Principal 7,897m	7515635,159	618220,132	-22,46151736	-43,85098718
Rota 12 - Principal 7,897m	7515537,038	618082,199	-22,46241315	-43,85232029
Rota 12 - Principal 7,897m	7515398,866	617893,54	-22,46367419	-43,85414338
Rota 12 - Principal 7,897m	7515300,284	617763,324	-22,46457359	-43,8554015
Rota 12 - Principal 7,897m	7515258,474	617714,779	-22,46495457	-43,85587016
Rota 12 - Principal 7,897m	7515197,945	617657,011	-22,46550526	-43,85642705
Rota 12 - Principal 7,897m	7515130,285	617606,842	-22,46611984	-43,85690959
Rota 12 - Principal 7,897m	7515092,488	617552,372	-22,46646499	-43,85743614
Rota 12 - Principal 7,897m	7515075,905	617492,016	-22,46661892	-43,85802146
Rota 12 - Principal 7,897m	7515057,831	617305,084	-22,46679502	-43,85983675
Rota 12 - Principal 7,897m	7515049,085	617235,116	-22,46687882	-43,86051606
Rota 12 - Principal 7,897m	7515030,749	617213,365	-22,46704593	-43,8607261
Rota 12 - Principal 7,897m	7515021,754	617195,601	-22,46712839	-43,86089806
Rota 12 - Principal 7,897m	7515016,678	617165,705	-22,46717629	-43,86118822
Rota 12 - Principal 7,897m	7515010,962	617141,115	-22,46722961	-43,86142677
Rota 12 - Principal 7,897m	7515003,866	617110,775	-22,46729578	-43,8617211

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 12 - Principal 7,897m	7515003,682	617089,805	-22,46729889	-43,86192487
Rota 12 - Principal 7,897m	7515002,043	617062,916	-22,46731553	-43,86218607
Rota 12 - Principal 7,897m	7514996,754	617037,88	-22,46736502	-43,86242898
Rota 12 - Principal 7,897m	7514989,337	617014,259	-22,46743363	-43,86265799
Rota 12 - Principal 7,897m	7514976,718	616990,589	-22,46754923	-43,86288709
Rota 12 - Principal 7,897m	7514967,605	616971,64	-22,46763284	-43,86307057
Rota 12 - Principal 7,897m	7514910,469	616925,379	-22,46815207	-43,86351594
Rota 12 - Principal 7,897m	7514896,236	616900,202	-22,46828235	-43,86375956
Rota 12 - Principal 7,897m	7514890,143	616886,571	-22,46833832	-43,86389159
Rota 12 - Principal 7,897m	7514874,117	616883,052	-22,46848331	-43,86392461
Rota 12 - Principal 7,897m	7514855,574	616885,555	-22,46865063	-43,86389892
Rota 12 - Principal 7,897m	7514849,277	616906,274	-22,46870608	-43,8636971
Rota 12 - Principal 7,897m	7514837,433	616928,149	-22,46881157	-43,86348363
Rota 12 - Principal 7,897m	7514821,184	616945,274	-22,46895716	-43,86331601
Rota 12 - Principal 7,897m	7514796,034	616952,985	-22,46918379	-43,86323921
Rota 12 - Principal 7,897m	7514759,395	616953,575	-22,46951469	-43,86323078
Rota 12 - Principal 7,897m	7514718,315	616949,089	-22,46988603	-43,86327136
Rota 12 - Principal 7,897m	7514678,447	616925,717	-22,47024773	-43,86349555
Rota 12 - Principal 7,897m	7514644,087	616909,728	-22,47055918	-43,86364841
Rota 12 - Principal 7,897m	7514617,242	616915,177	-22,47080127	-43,86359347
Rota 12 - Principal 7,897m	7514568,566	616935,628	-22,47123953	-43,86339113
Rota 12 - Principal 7,897m	7514536,332	616976,109	-22,4715279	-43,86299535
Rota 12 - Principal 7,897m	7514517,337	617004,912	-22,47169749	-43,86271402
Rota 12 - Principal 7,897m	7514499,978	617020,957	-22,47185318	-43,86255681
Rota 12 - Principal 7,897m	7514450,482	617049,889	-22,47229826	-43,86227198
Rota 12 - Principal 7,897m	7514413,848	617090,804	-22,47262634	-43,86187164
Rota 12 - Principal 7,897m	7514364,555	617152,997	-22,4730673	-43,86126358
Rota 12 - Principal 7,897m	7514305,679	617207,207	-22,47359537	-43,86073239
Rota 12 - Principal 7,897m	7514252,176	617254,058	-22,4740754	-43,8602731
Rota 12 - Principal 7,897m	7514210,007	617298,221	-22,47445325	-43,85984077
Rota 12 - Principal 7,897m	7514132,406	617354,847	-22,47515026	-43,8592847
Rota 12 - Principal 7,897m	7514058,804	617378,962	-22,4758134	-43,85904489
Rota 12 - Principal 7,897m	7513984,982	617419,25	-22,4764774	-43,85864788
Rota 12 - Principal 7,897m	7513918,6	617449,866	-22,47707488	-43,85834541
Rota 12 - Principal 7,897m	7513872,276	617468,068	-22,47749203	-43,85816507
Rota 12 - Principal 7,897m	7513833,362	617516,261	-22,4778402	-43,85769381
Rota 12 - Principal 7,897m	7513812,413	617558,449	-22,47802651	-43,85728223
Rota 12 - Principal 7,897m	7513795,971	617598,322	-22,47817227	-43,85689349
Rota 12 - Principal 7,897m	7513788,885	617653,674	-22,47823246	-43,856355
Rota 12 - Principal 7,897m	7513800,325	617712,003	-22,4781251	-43,85578896
Rota 12 - Principal 7,897m	7513819,366	617760,587	-22,47794977	-43,85531818
Rota 12 - Principal 7,897m	7513842,471	617819,338	-22,47773702	-43,8547489
Rota 12 - Principal 7,897m	7513871,706	617920,694	-22,47746597	-43,85376601
Rota 12 - Principal 7,897m	7513878,739	618020,701	-22,47739553	-43,85279458
Rota 12 - Principal 7,897m	7513885,514	618108,504	-22,47732827	-43,85194173

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 12 - Principal 7,897m	7513888,079	618199,231	-22,47729882	-43,85106016
Rota 12 - Principal 7,897m	7513884,989	618243,458	-22,47732366	-43,85063009
Rota 12 - Principal 7,897m	7513863,067	618302,745	-22,47751756	-43,85005225
Rota 12 - Principal 7,897m	7513824,623	618386,261	-22,477859	-43,8492377
Rota 12 - Principal 7,897m	7513799,428	618482,794	-22,47807987	-43,84829762
Rota 12 - Principal 7,897m	7513761,27	618584,637	-22,47841745	-43,84730497
Rota 12 - Principal 7,897m	7513728,644	618676,541	-22,47870574	-43,84640932
Rota 12 - Principal 7,897m	7513704,701	618736,58	-22,47891783	-43,84582402
Rota 12 - Principal 7,897m	7513675,603	618767,619	-22,47917848	-43,84552017
Rota 12 - Principal 7,897m	7513642,347	618802,809	-22,47947641	-43,84517566
Rota 12 - Principal 7,897m	7513589,951	618855,897	-22,47994596	-43,84465577
Rota 12 - Principal 7,897m	7513567,546	618878,136	-22,48014678	-43,84443796
Rota 12 - Principal 7,897m	7513548,328	618904,641	-22,48031851	-43,84417891
Rota 12 - Principal 7,897m	7513535,436	618931,925	-22,48043305	-43,84391277
Rota 12 - Principal 7,897m	7513530,608	618958,212	-22,48047483	-43,84365692
Rota 12 - Principal 7,897m	7513524,667	618991,518	-22,48052617	-43,84333277
Rota 12 - Principal 7,897m	7513522,862	619032,06	-22,48053965	-43,8429386
Rota 12 - Principal 7,897m	7513535,544	619102,792	-22,48042016	-43,84225211
Rota 12 - Principal 7,897m	7513553,171	619169,134	-22,48025632	-43,84160866
Rota 12 - Principal 7,897m	7513560,957	619224,369	-22,48018214	-43,84107241
Rota 12 - Principal 7,897m	7513573,026	619276,169	-22,4800695	-43,84056987
Rota 12 - Principal 7,897m	7513591,819	619367,279	-22,4798934	-43,83968578
Rota 12 - Principal 7,897m	7513607,38	619404,957	-22,47975021	-43,83932076
Rota 12 - Principal 7,897m	7513624,621	619469,575	-22,47958997	-43,83869404
Rota 12 - Principal 7,897m	7513630,19	619515,833	-22,47953643	-43,83824488
Rota 12 - 2x 606m	7515827,708	619402,325	-22,45969599	-43,83951341
Rota 12 - 2x 606m	7515818,826	619411,257	-22,45977558	-43,83942594
Rota 12 - 2x 606m	7515788,428	619418,927	-22,46004961	-43,83934913
Rota 12 - 2x 606m	7515755,479	619427,689	-22,4603466	-43,83926151
Rota 12 - 2x 606m	7515729,805	619433,128	-22,46057811	-43,83920672
Rota 12 - 2x 606m	7515709,659	619436,877	-22,46075981	-43,83916877
Rota 12 - 2x 606m	7515683,484	619440,095	-22,460996	-43,83913553
Rota 12 - 2x 606m	7515658,929	619439,502	-22,46121783	-43,83913945
Rota 12 - 2x 606m	7515640,91	619440,635	-22,4613805	-43,83912708
Rota 12 - 2x 606m	7515626,163	619446,304	-22,4615133	-43,83907088
Rota 12 - 2x 606m	7515612,091	619459,744	-22,46163946	-43,83893922
Rota 12 - 2x 606m	7515604,191	619487,843	-22,46170885	-43,83866556
Rota 12 - 2x 606m	7515610,295	619511,445	-22,46165207	-43,83843666
Rota 12 - 2x 606m	7515619,719	619532,753	-22,46156546	-43,83823031
Rota 12 - 2x 606m	7515622,949	619551,301	-22,46153499	-43,83805031
Rota 12 - 2x 606m	7515616,063	619572,22	-22,46159572	-43,83784651
Rota 12 - 2x 606m	7515596,335	619596,917	-22,46177218	-43,83760502
Rota 12 - 2x 606m	7515574,904	619612,415	-22,46196466	-43,8374528
Rota 12 - 2x 606m	7515563,622	619622,548	-22,46206585	-43,83735348
Rota 12 - 2x 606m	7515556,618	619632,341	-22,46212843	-43,83725778

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>			
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>			
	<b>ROTAS E ETINERÁRIOS RSU</b>			
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI			
	ELABORADO POR: ENG. RICARDO ELLER VIANA			
CREA: 1996101066				

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 12 - 2x 606m	7515544,87	619655,94	-22,46223288	-43,83702757
Rota 12 - 2x 606m	7515533,976	619689,676	-22,46232892	-43,83669891
Rota 12 - 2x 606m	7515520,3	619737,407	-22,4624491	-43,83623403
Rota 12 - 2x 606m	7515492,985	619793,1	-22,4626919	-43,83569076
Rota 12 - São João 437m	7515778,126	618411,149	-22,46021281	-43,84914158
Rota 12 - São João 437m	7515768,741	618416,299	-22,46029722	-43,84909084
Rota 12 - São João 437m	7515765,516	618428,913	-22,46032548	-43,84896802
Rota 12 - São João 437m	7515769,987	618449,153	-22,4602837	-43,84877167
Rota 12 - São João 437m	7515780,686	618466,855	-22,46018583	-43,84860045
Rota 12 - São João 437m	7515791,852	618491,008	-22,4600833	-43,84836657
Rota 12 - São João 437m	7515794,703	618503,837	-22,46005666	-43,84824211
Rota 12 - São João 437m	7515787,936	618514,107	-22,46011707	-43,84814181
Rota 12 - São João 437m	7515778,699	618521,932	-22,46019995	-43,84806508
Rota 12 - São João 437m	7515767,885	618533,252	-22,46029685	-43,84795426
Rota 12 - São João 437m	7515763,859	618539,164	-22,46033279	-43,84789651
Rota 12 - São João 437m	7515768,589	618555,011	-22,46028898	-43,84774287
Rota 12 - São João 437m	7515789,045	618591,983	-22,46010165	-43,84738511
Rota 12 - São João 437m	7515827,648	618657,871	-22,4597484	-43,84674773
Rota 12 - São João 437m	7515844,782	618697,284	-22,4595909	-43,84636601
Rota 12 - São João 437m	7515850,385	618724,303	-22,45953842	-43,84610386
Rota 12 - São João 437m	7515841,235	618739,709	-22,45961999	-43,84595347
Rota 12 - São João 437m	7515824,073	618750,149	-22,45977428	-43,84585074
Rota 12 - São João 437m	7515788,809	618771,478	-22,46009131	-43,84564083
Rota 12 - Lago azul 602m	7515030,631	617212,811	-22,46704703	-43,86073147
Rota 12 - Lago azul 602m	7515012,962	617220,268	-22,46720611	-43,8606577
Rota 12 - Lago azul 602m	7514998,362	617249,628	-22,46733597	-43,86037129
Rota 12 - Lago azul 602m	7514985,815	617272,948	-22,4674477	-43,86014373
Rota 12 - Lago azul 602m	7514968,324	617296,265	-22,46760407	-43,85991584
Rota 12 - Lago azul 602m	7514957,858	617307,125	-22,46769786	-43,85980953
Rota 12 - Lago azul 602m	7514953,805	617317,516	-22,46773375	-43,85970824
Rota 12 - Lago azul 602m	7514963,08	617329,981	-22,46764913	-43,85958779
Rota 12 - Lago azul 602m	7514977,973	617339,089	-22,46751398	-43,85950038
Rota 12 - Lago azul 602m	7514991,46	617352,819	-22,46739121	-43,85936795
Rota 12 - Lago azul 602m	7514995,932	617367,054	-22,46734985	-43,85922994
Rota 12 - Lago azul 602m	7514991,294	617392,536	-22,46738999	-43,85898195
Rota 12 - Lago azul 602m	7514982,587	617415,155	-22,46746707	-43,8587615
Rota 12 - Lago azul 602m	7514973,889	617424,793	-22,46754497	-43,85866719
Rota 12 - Lago azul 602m	7514964,18	617424,154	-22,46763272	-43,85867268
Rota 12 - Lago azul 602m	7514945,196	617432,141	-22,46780363	-43,85859366
Rota 12 - Lago azul 602m	7514921,135	617452,408	-22,46801956	-43,85839492
Rota 12 - Lago azul 602m	7514894,422	617483,04	-22,46825874	-43,85809526
Rota 12 - Lago azul 602m	7514868,26	617504,551	-22,46849356	-43,85788427
Rota 12 - Lago azul 602m	7514855,904	617516,913	-22,46860431	-43,85776321
Rota 12 - Lago azul 602m	7514835,27	617532,374	-22,46878961	-43,85761143
Rota 12 - Lago azul 602m	7514827,446	617546,943	-22,46885928	-43,85746927

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 12 - Lago azul 602m	7514822,711	617561,375	-22,46890106	-43,85732866
Rota 12 - Lago azul 602m	7514826,224	617574,723	-22,46886841	-43,8571992
Rota 12 - Lago azul 602m	7514838,423	617593,338	-22,46875694	-43,8570192
Rota 12 - Lago azul 602m	7514852,165	617608,806	-22,46863175	-43,85686989
Rota 12 - Lago azul 602m	7514857,196	617623,316	-22,46858531	-43,85672925
Rota 12 - Lago azul 602m	7514852,407	617643,199	-22,4686272	-43,85653567
Rota 12 - Lago azul 602m	7514843,563	617660,077	-22,46870592	-43,85637099
Rota 12 - Lago azul 602m	7514841,364	617675,172	-22,46872474	-43,85622413
Rota 12 - Lago azul 552m	7514976,574	617422,274	-22,4675209	-43,85869187
Rota 12 - Lago azul 552m	7514969,382	617418,17	-22,46758614	-43,85873122
Rota 12 - Lago azul 552m	7514955,089	617417,077	-22,46771531	-43,85874078
Rota 12 - Lago azul 552m	7514936,619	617403,627	-22,46788307	-43,85887013
Rota 12 - Lago azul 552m	7514917,663	617374,579	-22,46805628	-43,85915103
Rota 12 - Lago azul 552m	7514900,613	617360,052	-22,46821127	-43,85929094
Rota 12 - Lago azul 552m	7514888,385	617346,59	-22,46832264	-43,85942086
Rota 12 - Lago azul 552m	7514877,522	617346,794	-22,46842075	-43,85941808
Rota 12 - Lago azul 552m	7514856,903	617344,859	-22,46860712	-43,85943536
Rota 12 - Lago azul 552m	7514830,216	617346,258	-22,46884807	-43,85941978
Rota 12 - Lago azul 552m	7514816,638	617356,984	-22,46896997	-43,85931454
Rota 12 - Lago azul 552m	7514804,281	617373,925	-22,46908042	-43,85914899
Rota 12 - Lago azul 552m	7514784,43	617393,487	-22,46925837	-43,85895742
Rota 12 - Lago azul 552m	7514765,905	617410,842	-22,4694245	-43,85878738
Rota 12 - Lago azul 552m	7514743,644	617430,041	-22,46962425	-43,85859916
Rota 12 - Lago azul 552m	7514724,724	617450,096	-22,46979376	-43,85840285
Rota 12 - Lago azul 552m	7514710,731	617471,425	-22,46991868	-43,85819453
Rota 12 - Lago azul 552m	7514698,57	617481,859	-22,4700278	-43,85809223
Rota 12 - Lago azul 552m	7514693,243	617484,805	-22,47007571	-43,8580632
Rota 12 - Lago azul 552m	7514702,039	617492,992	-22,4699957	-43,85798429
Rota 12 - Lago azul 552m	7514720,253	617496,85	-22,46983093	-43,85794815
Rota 12 - Lago azul 552m	7514741,472	617503,254	-22,46963883	-43,85788748
Rota 12 - Lago azul 552m	7514771,037	617507,249	-22,46937151	-43,85785085
Rota 12 - Lago azul 552m	7514784,744	617502,811	-22,46924802	-43,85789499
Rota 12 - Lago azul 552m	7514836,343	617505,89	-22,46878175	-43,85786889
Rota 12 - Lago azul 552m	7514864,021	617508,171	-22,4685316	-43,85784878
Rota 12 - Lago azul 128m	7514784,803	617501,364	-22,46924758	-43,85790906
Rota 12 - Lago azul 128m	7514730,828	617546,705	-22,46973197	-43,85746442
Rota 12 - Lago azul 128m	7514686,625	617583,918	-22,47012867	-43,8570995
Rota 12 - Asa Branca 144m	7513772,622	618555,46	-22,47831694	-43,84758939
Rota 12 - Asa Branca 144m	7513823,345	618549,607	-22,47785921	-43,84765006
Rota 12 - Asa Branca 144m	7513892,335	618542,542	-22,47723657	-43,84772388
Rota 12 - Asa Branca 144m	7513915,224	618547,077	-22,47702951	-43,84768152
Rota 12 - Oficinas Velhas 2x 380m	7513630,148	619515,972	-22,4795368	-43,83824352
Rota 12 - Oficinas Velhas 2x 380m	7513636,876	619546,416	-22,47947389	-43,83794815
Rota 12 - Oficinas Velhas 2x 380m	7513644,301	619581,419	-22,47940437	-43,83760851
Rota 12 - Oficinas Velhas 2x 380m	7513652,11	619626,43	-22,47933069	-43,83717164

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 12 - Oficinas Velhas 2x 380m	7513661,264	619664,558	-22,47924534	-43,83680177
Rota 12 - Oficinas Velhas 2x 380m	7513673,255	619694,869	-22,4791349	-43,83650808
Rota 12 - Oficinas Velhas 2x 380m	7513696,108	619734,618	-22,47892571	-43,83612349
Rota 12 - Oficinas Velhas 2x 380m	7513725,528	619767,946	-22,47865764	-43,8358018
Rota 12 - Oficinas Velhas 2x 380m	7513772,612	619793,358	-22,47823059	-43,83555837
Rota 12 - Oficinas Velhas 2x 380m	7513819,961	619814,046	-22,47780147	-43,83536089
Rota 12 - Oficinas Velhas 1,206m	7513819,066	619813,462	-22,4778096	-43,8353665
Rota 12 - Oficinas Velhas 1,206m	7513836,327	619792,982	-22,47765513	-43,83556684
Rota 12 - Oficinas Velhas 1,206m	7513883,124	619744,123	-22,47723588	-43,83604523
Rota 12 - Oficinas Velhas 1,206m	7513924,486	619763,727	-22,47686092	-43,83585782
Rota 12 - Oficinas Velhas 1,206m	7513945,699	619787,181	-22,47666767	-43,83563149
Rota 12 - Oficinas Velhas 1,206m	7513954,473	619792,368	-22,47658806	-43,83558173
Rota 12 - Oficinas Velhas 1,206m	7513994,046	619771,866	-22,47623207	-43,83578398
Rota 12 - Oficinas Velhas 1,206m	7514030,144	619764,152	-22,47590656	-43,83586167
Rota 12 - Oficinas Velhas 1,206m	7514053,699	619761,231	-22,47569402	-43,83589184
Rota 12 - Oficinas Velhas 1,206m	7514069,39	619742,479	-22,47555361	-43,83607527
Rota 12 - Oficinas Velhas 1,206m	7514079,397	619711,216	-22,47546542	-43,83637986
Rota 12 - Oficinas Velhas 1,206m	7514078,641	619692,371	-22,47547357	-43,83656296
Rota 12 - Oficinas Velhas 1,206m	7514074,951	619656,473	-22,47550942	-43,83691155
Rota 12 - Oficinas Velhas 1,206m	7514062,736	619633,288	-22,47562137	-43,83713596
Rota 12 - Oficinas Velhas 1,206m	7514047,025	619593,793	-22,47576604	-43,83751862
Rota 12 - Oficinas Velhas 1,206m	7514028,842	619537,035	-22,47593425	-43,83806886
Rota 12 - Oficinas Velhas 1,206m	7514005,172	619509,963	-22,47614994	-43,83833018
Rota 12 - Oficinas Velhas 1,206m	7513998,648	619500,479	-22,47620953	-43,83842186
Rota 12 - Oficinas Velhas 1,206m	7513967,035	619447,929	-22,47649874	-43,8389302
Rota 12 - Oficinas Velhas 1,206m	7513946,414	619399,516	-22,47668838	-43,83939916
Rota 12 - Oficinas Velhas 1,206m	7513933,969	619381,024	-22,47680207	-43,83957795
Rota 12 - Oficinas Velhas 1,206m	7513912,08	619357,434	-22,47700143	-43,83980557
Rota 12 - Oficinas Velhas 1,206m	7513898,85	619351,145	-22,47712137	-43,8398657
Rota 12 - Oficinas Velhas 1,206m	7513867,399	619350,136	-22,47740551	-43,83987314
Rota 12 - Oficinas Velhas 1,206m	7513839,285	619358,087	-22,47765888	-43,83979375
Rota 12 - Oficinas Velhas 1,206m	7513815,86	619373,909	-22,47786935	-43,83963821
Rota 12 - Oficinas Velhas 1,206m	7513785,457	619395,589	-22,47814244	-43,83942522
Rota 12 - Oficinas Velhas 1,206m	7513777,209	619407,805	-22,47821609	-43,83930587
Rota 12 - Oficinas Velhas 1,206m	7513777,556	619408,144	-22,47821293	-43,8393026
Rota 12 - Oficinas Velhas 1,206m	7513776,102	619435,364	-22,47822416	-43,83903794
Rota 12 - Oficinas Velhas 1,206m	7513779,174	619456,933	-22,4781949	-43,83882855
Rota 12 - Oficinas Velhas 1,206m	7513777,477	619478,704	-22,47820871	-43,83861683
Rota 12 - Oficinas Velhas 1,206m	7513769,733	619512,012	-22,47827632	-43,83829253
Rota 12 - Oficinas Velhas 1,206m	7513765,998	619539,41	-22,47830813	-43,83802597
Rota 12 - Oficinas Velhas 1,206m	7513764,401	619549,492	-22,47832185	-43,83792787
Rota 12 - Oficinas Velhas 1,206m	7513762,062	619561,288	-22,47834215	-43,83781305
Rota 12 - Oficinas Velhas 1,206m	7513746,697	619562,425	-22,47848085	-43,83780084
Rota 12 - Oficinas Velhas 1,206m	7513725,28	619560,628	-22,47867442	-43,83781669
Rota 12 - Oficinas Velhas 1,206m	7513699,214	619547,247	-22,47891079	-43,83794477

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 12 - Oficinas Velhas 1,206m	7513674,817	619531,031	-22,47913228	-43,83810053
Rota 12 - Oficinas Velhas 1,206m	7513647,455	619506,533	-22,47938113	-43,83833656
Rota 12 - Oficinas Velhas 1,206m	7513630,281	619514,72	-22,47953568	-43,83825571
Rota 12 - Oficinas Velhas 220m	7514023,298	619530,831	-22,47598476	-43,83812874
Rota 12 - Oficinas Velhas 220m	7514040,247	619521,767	-22,47583231	-43,83821811
Rota 12 - Oficinas Velhas 220m	7514073,561	619501,653	-22,47553281	-43,83841609
Rota 12 - Oficinas Velhas 220m	7514110,462	619479,085	-22,4752011	-43,83863821
Rota 12 - Oficinas Velhas 220m	7514145,531	619455,78	-22,47488598	-43,83886734
Rota 12 - Oficinas Velhas 220m	7514173,15	619437,953	-22,47463777	-43,83904268
Rota 12 - Oficinas Velhas 220m	7514192,163	619430,631	-22,47446655	-43,83911527
Rota 12 - Oficinas Velhas 220m	7514211,725	619417,724	-22,47429077	-43,83924218
Rota 12 - Oficinas Velhas 151m	7513761,891	619561,198	-22,4783437	-43,83781391
Rota 12 - Oficinas Velhas 151m	7513778,975	619576,274	-22,47818834	-43,83766867
Rota 12 - Oficinas Velhas 151m	7513804,265	619587,931	-22,4779591	-43,83755728
Rota 12 - Oficinas Velhas 151m	7513837,162	619605,974	-22,4776607	-43,83738441
Rota 12 - Oficinas Velhas 151m	7513859,117	619620,207	-22,47746141	-43,83724774
Rota 12 - Oficinas Velhas 151m	7513873,784	619633,998	-22,47732797	-43,83711481
Rota 12 - Oficinas Velhas 151m	7513882,066	619648,052	-22,47725218	-43,83697885
Rota 12 - Oficinas Velhas 304m	7513819,35	619813,683	-22,47780701	-43,83536437
Rota 12 - Oficinas Velhas 304m	7513854,745	619831,338	-22,47748608	-43,83519546
Rota 12 - Oficinas Velhas 304m	7513888,26	619854,338	-22,47718176	-43,83497446
Rota 12 - Oficinas Velhas 304m	7513909,982	619873,634	-22,47698421	-43,83478857
Rota 12 - Oficinas Velhas 304m	7513943,186	619920,482	-22,47668101	-43,83433577
Rota 12 - Oficinas Velhas 304m	7513980,997	619966,114	-22,47633629	-43,83389515
Rota 12 - Oficinas Velhas 304m	7514014,44	620013,639	-22,47603089	-43,83343579
Rota 12 - Oficinas Velhas 304m	7514027,152	620028,948	-22,47591499	-43,83328797
Rota 12 - Oficinas Velhas 2x 383m	7514027,147	620028,622	-22,47591506	-43,83329114
Rota 12 - Oficinas Velhas 2x 383m	7514039,751	620050,012	-22,47579971	-43,83308421
Rota 12 - Oficinas Velhas 2x 383m	7514054,059	620071,498	-22,47566897	-43,83287647
Rota 12 - Oficinas Velhas 2x 383m	7514067,344	620085,411	-22,475548	-43,83274227
Rota 12 - Oficinas Velhas 2x 383m	7514089,075	620101,709	-22,47535057	-43,83258551
Rota 12 - Oficinas Velhas 2x 383m	7514111,992	620113,15	-22,47514278	-43,83247606
Rota 12 - Oficinas Velhas 2x 383m	7514153,851	620124,042	-22,47476393	-43,83237337
Rota 12 - Oficinas Velhas 2x 383m	7514174,472	620124,174	-22,47457767	-43,83237365
Rota 12 - Oficinas Velhas 2x 383m	7514178,793	620107,707	-22,4745398	-43,83253402
Rota 12 - Oficinas Velhas 2x 383m	7514184,485	620081,251	-22,47449025	-43,83279156
Rota 12 - Oficinas Velhas 2x 383m	7514209,271	620013,48	-22,47427115	-43,83345208
Rota 12 - Oficinas Velhas 2x 383m	7514216,976	620001,934	-22,47420236	-43,83356487
Rota 12 - Oficinas Velhas 2x 383m	7514233,439	619984,81	-22,47405487	-43,83373254
Rota 12 - Oficinas Velhas 2x 383m	7514263,448	619954,943	-22,47378593	-43,83402507
Rota 12 - Oficinas Velhas 312m	7514263,442	619955,569	-22,47378594	-43,83401899
Rota 12 - Oficinas Velhas 312m	7514252,092	619949,611	-22,47388888	-43,83407603
Rota 12 - Oficinas Velhas 312m	7514237,111	619947,936	-22,4740243	-43,83409118
Rota 12 - Oficinas Velhas 312m	7514214,309	619942,686	-22,47423062	-43,83414047
Rota 12 - Oficinas Velhas 312m	7514189,846	619933,343	-22,47445223	-43,83422943




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 12 - Oficinas Velhas 312m	7514172,204	619922,615	-22,47461233	-43,83433236
Rota 12 - Oficinas Velhas 312m	7514149,795	619914,945	-22,47481527	-43,8344052
Rota 12 - Oficinas Velhas 312m	7514126,394	619911,716	-22,47502686	-43,83443481
Rota 12 - Oficinas Velhas 312m	7514106,407	619913,542	-22,47520726	-43,83441555
Rota 12 - Oficinas Velhas 312m	7514086,372	619926,192	-22,47538733	-43,8342911
Rota 12 - Oficinas Velhas 312m	7514066,453	619943,167	-22,47556605	-43,83412462
Rota 12 - Oficinas Velhas 312m	7514054,269	619954,866	-22,47567527	-43,83401
Rota 12 - Oficinas Velhas 312m	7514047,337	619970,363	-22,4757368	-43,83385886
Rota 12 - Oficinas Velhas 312m	7514040,973	619989,86	-22,47579291	-43,8336689
Rota 12 - Oficinas Velhas 312m	7514038,041	620002,29	-22,47581852	-43,83354787
Rota 12 - Oficinas Velhas 312m	7514029,625	620012,792	-22,47589379	-43,83344517
Rota 12 - Oficinas Velhas 312m	7514026,881	620028,957	-22,47591743	-43,83328786
Rota 12 - Metalurgica 467m	7514263,05	619955,644	-22,47378947	-43,83401823
Rota 12 - Metalurgica 467m	7514279,094	619957,995	-22,47364439	-43,8339966
Rota 12 - Metalurgica 467m	7514309,633	619960,463	-22,47336839	-43,83397492
Rota 12 - Metalurgica 467m	7514328,674	619961,871	-22,47319631	-43,83396267
Rota 12 - Metalurgica 467m	7514389,372	619964,247	-22,47264791	-43,83394418
Rota 12 - Metalurgica 467m	7514418,121	619969,317	-22,47238789	-43,83389708
Rota 12 - Metalurgica 467m	7514440,045	619983,691	-22,47218885	-43,83375904
Rota 12 - Metalurgica 467m	7514447,338	619984,952	-22,4721229	-43,83374733
Rota 12 - Metalurgica 467m	7514484,805	619978,345	-22,47178495	-43,83381438
Rota 12 - Metalurgica 467m	7514500,725	619972,345	-22,47164158	-43,8338739
Rota 12 - Metalurgica 467m	7514551,168	619976,255	-22,4711857	-43,83383971
Rota 12 - Metalurgica 467m	7514586,952	619986,678	-22,47086176	-43,83374111
Rota 12 - Metalurgica 467m	7514589,016	620014,125	-22,47084118	-43,83347453
Rota 12 - Metalurgica 467m	7514606,628	620015,344	-22,47068203	-43,83346402
Rota 12 - Metalurgica 467m	7514632,256	620016,654	-22,47045045	-43,83345323
Rota 12 - Metalurgica 467m	7514658,246	620018,406	-22,47021559	-43,83343817
Rota 12 - Metalurgica 467m	7514670,569	620013,861	-22,47010461	-43,83348327
Rota 12 - Metalurgica 467m	7514688,063	620008,646	-22,46994697	-43,83353527
Rota 12 - Metalurgica 467m	7514692,917	620005,626	-22,46990333	-43,83356499
Rota 12 - Metalurgica 97m	7514443,05	619984,338	-22,47216167	-43,83375298
Rota 12 - Metalurgica 97m	7514433,085	619992,382	-22,47225111	-43,83367405
Rota 12 - Metalurgica 97m	7514419,715	620003,826	-22,47237106	-43,83356182
Rota 12 - Metalurgica 97m	7514408,623	620015,453	-22,47247044	-43,83344798
Rota 12 - Metalurgica 97m	7514402,477	620025,187	-22,47252526	-43,83335292
Rota 12 - Metalurgica 97m	7514398,109	620038,638	-22,47256377	-43,83322187
Rota 12 - Metalurgica 97m	7514398,279	620053,781	-22,47256116	-43,83307471
Rota 12 - Metalurgica 97m	7514403,113	620062,241	-22,47251691	-43,83299286
Rota 12 - Metalurgica 2x 278m	7514692,566	620005,888	-22,46990648	-43,83356241
Rota 12 - Metalurgica 2x 278m	7514723,041	620007,414	-22,46963112	-43,83354989
Rota 12 - Metalurgica 2x 278m	7514749,651	620010,822	-22,46939054	-43,83351879
Rota 12 - Metalurgica 2x 278m	7514768,115	620013,273	-22,4692236	-43,83349636
Rota 12 - Metalurgica 2x 278m	7514796,467	620007,03	-22,46896796	-43,83355917
Rota 12 - Metalurgica 2x 278m	7514819,653	619995,811	-22,46875933	-43,83366996

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 12 - Metalurgica 2x 278m	7514833,65	619986,001	-22,46863359	-43,83376635
Rota 12 - Metalurgica 2x 278m	7514846,133	619977,284	-22,46852145	-43,83385201
Rota 12 - Metalurgica 2x 278m	7514864,327	619977,666	-22,4683571	-43,83384967
Rota 12 - Metalurgica 2x 278m	7514882,46	619977,257	-22,46819334	-43,83385501
Rota 12 - Metalurgica 2x 278m	7514897,979	619972,624	-22,4680535	-43,83390122
Rota 12 - Metalurgica 2x 278m	7514899,864	619972,27	-22,4680365	-43,8339048
Rota 12 - Metalurgica 2x 278m	7514921,3	619959,025	-22,46784382	-43,83403514
Rota 12 - Metalurgica 2x 278m	7514941,987	619939,192	-22,46765836	-43,83422943
Rota 12 - Metalurgica 2x 278m	7514945,001	619933,523	-22,46763153	-43,83428476
Rota 12 - Metalurgica 486m	7514945,001	619933,523	-22,46763153	-43,83428476
Rota 12 - Metalurgica 486m	7514928,187	619933,373	-22,46778341	-43,83428494
Rota 12 - Metalurgica 486m	7514903,571	619935,398	-22,4680056	-43,8342634
Rota 12 - Metalurgica 486m	7514864,077	619935,112	-22,46836235	-43,8342632
Rota 12 - Metalurgica 486m	7514834,224	619936,778	-22,46863186	-43,83424476
Rota 12 - Metalurgica 486m	7514811,339	619931,343	-22,46883895	-43,83429584
Rota 12 - Metalurgica 486m	7514790,273	619923,352	-22,46902978	-43,83437191
Rota 12 - Metalurgica 486m	7514765,021	619919,383	-22,46925814	-43,83440857
Rota 12 - Metalurgica 486m	7514737,468	619924,571	-22,46950664	-43,83435607
Rota 12 - Metalurgica 486m	7514697,582	619927,086	-22,46986672	-43,83432862
Rota 12 - Metalurgica 486m	7514668,69	619934,765	-22,47012714	-43,83425181
Rota 12 - Metalurgica 486m	7514641,99	619945,111	-22,47036757	-43,83414924
Rota 12 - Metalurgica 486m	7514610,54	619954,396	-22,47065097	-43,83405663
Rota 12 - Metalurgica 486m	7514595,68	619965,69	-22,4707844	-43,83394575
Rota 12 - Metalurgica 486m	7514591,685	619974,787	-22,47081984	-43,83385704
Rota 12 - Metalurgica 486m	7514591,178	619985,54	-22,47082367	-43,8337525
Rota 12 - Metalurgica 486m	7514604,057	619990,75	-22,47070698	-43,83370283
Rota 12 - Metalurgica 486m	7514618,51	619992,76	-22,47057629	-43,8336844
Rota 12 - Metalurgica 486m	7514652,766	619994,297	-22,47026678	-43,83367205
Rota 12 - Metalurgica 486m	7514676,066	619999,706	-22,47005595	-43,83362125
Rota 12 - Metalurgica 486m	7514692,698	620005,711	-22,4699053	-43,83356415
Rota 12 - Mesquita 172m	7514944,946	619934,246	-22,46763198	-43,83427773
Rota 12 - Mesquita 172m	7514990,834	619912,028	-22,46721907	-43,83449712
Rota 12 - Mesquita 172m	7515055,648	619887,865	-22,46663536	-43,83473682
Rota 12 - Mesquita 172m	7515103,731	619869,584	-22,46620235	-43,83491811
Rota 12 - Mesquita 2x 1,365m	7515102,168	619869,728	-22,46621646	-43,83491659
Rota 12 - Mesquita 2x 1,365m	7515094,428	619843,217	-22,46628822	-43,83517365
Rota 12 - Mesquita 2x 1,365m	7515076,966	619782,161	-22,46645023	-43,83576567
Rota 12 - Mesquita 2x 1,365m	7515065,277	619749,563	-22,46655809	-43,83608158
Rota 12 - Mesquita 2x 1,365m	7515056,185	619723,264	-22,46664205	-43,83633648
Rota 12 - Mesquita 2x 1,365m	7515036,503	619650,847	-22,4668249	-43,83703874
Rota 12 - Mesquita 2x 1,365m	7515022,458	619605,052	-22,46695497	-43,83748272
Rota 12 - Mesquita 2x 1,365m	7515014,374	619590,974	-22,46702897	-43,83761893
Rota 12 - Mesquita 2x 1,365m	7515009,304	619578,981	-22,4670756	-43,83773509
Rota 12 - Mesquita 2x 1,365m	7515006,262	619555,626	-22,46710471	-43,83796183
Rota 12 - Mesquita 2x 1,365m	7514960,977	619450,649	-22,46752108	-43,8389786

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 12 - Mesquita 2x 1,365m	7514953,52	619445,316	-22,46758881	-43,83902987
Rota 12 - Mesquita 2x 1,365m	7514930,108	619431,805	-22,46780121	-43,8391594
Rota 12 - Mesquita 2x 1,365m	7514903,981	619420,139	-22,46803802	-43,83927081
Rota 12 - Mesquita 2x 1,365m	7514893,185	619410,093	-22,46813623	-43,83936763
Rota 12 - Mesquita 2x 1,365m	7514876,514	619394,535	-22,46828789	-43,83951757
Rota 12 - Mesquita 2x 1,365m	7514858,518	619360,067	-22,46845284	-43,83985118
Rota 12 - Mesquita 2x 1,365m	7514843,811	619350,032	-22,46858639	-43,8399476
Rota 12 - Mesquita 2x 1,365m	7514817,111	619344,737	-22,46882792	-43,83999705
Rota 12 - Mesquita 2x 1,365m	7514803,871	619348,179	-22,46894726	-43,8399626
Rota 12 - Mesquita 2x 1,365m	7514789,248	619345,523	-22,46907952	-43,83998732
Rota 12 - Mesquita 2x 1,365m	7514780,256	619333,824	-22,46916156	-43,84010033
Rota 12 - Mesquita 2x 1,365m	7514761,646	619277,389	-22,4693336	-43,84064738
Rota 12 - Mesquita 2x 1,365m	7514744,562	619244,188	-22,46949022	-43,84096875
Rota 12 - Mesquita 2x 1,365m	7514725,398	619215,893	-22,46966528	-43,8412423
Rota 12 - Mesquita 2x 1,365m	7514698,455	619206,226	-22,46990932	-43,84133422
Rota 12 - Mesquita 2x 1,365m	7514668,089	619198,832	-22,4701841	-43,8414038
Rota 12 - Mesquita 2x 1,365m	7514595,694	619170,285	-22,47083998	-43,84167579
Rota 12 - Mesquita 2x 1,365m	7514523,246	619157,392	-22,47149524	-43,84179565
Rota 12 - Mesquita 2x 1,365m	7514490,825	619148,186	-22,47178872	-43,84188268
Rota 12 - Mesquita 2x 1,365m	7514463,826	619147,906	-22,4720326	-43,84188337
Rota 12 - Mesquita 2x 1,365m	7514443,014	619149,789	-22,47222045	-43,84186351
Rota 12 - Mesquita 2x 1,365m	7514419,574	619163,475	-22,4724312	-43,84172874
Rota 12 - Mesquita 2x 1,365m	7514388,676	619184,936	-22,47270878	-43,84151785
Rota 12 - Mesquita 2x 1,365m	7514369,115	619190,186	-22,47288509	-43,84146536
Rota 12 - Mesquita 2x 1,365m	7514305,828	619199,405	-22,47345607	-43,84137101
Rota 12 - Mesquita 2x 1,365m	7514291,606	619200,512	-22,47358445	-43,84135918
Rota 12 - Mesquita 2x 1,365m	7514279,804	619096,347	-22,47369832	-43,84237063
Rota 12 - Mesquita 134m	7514291,758	619200,058	-22,47358311	-43,84136361
Rota 12 - Mesquita 134m	7514277,148	619195,695	-22,47371538	-43,84140491
Rota 12 - Mesquita 134m	7514260,148	619186,708	-22,47386955	-43,84149098
Rota 12 - Mesquita 134m	7514244,955	619164,327	-22,47400833	-43,84170734
Rota 12 - Mesquita 134m	7514210,419	619107,969	-22,47432421	-43,84225247
Rota 12 - Mesquita 134m	7514205,81	619104,319	-22,47436609	-43,8422876
Rota 12 - Mesquita 70,2m	7514278,206	619195,195	-22,47370585	-43,84140985
Rota 12 - Mesquita 70,2m	7514276,334	619207,486	-22,4737219	-43,84129026
Rota 12 - Mesquita 70,2m	7514274,857	619225,292	-22,473734	-43,8411171
Rota 12 - Mesquita 70,2m	7514278,528	619244,068	-22,47369953	-43,8409349
Rota 12 - Mesquita 70,2m	7514287,716	619262,711	-22,47361524	-43,84075441
Rota 12 - Mesquita 1,745m	7515101,857	619869,614	-22,46621927	-43,83491768
Rota 12 - Mesquita 1,745m	7515111,152	619890,17	-22,46613387	-43,83471862
Rota 12 - Mesquita 1,745m	7515128,391	619917,682	-22,46597624	-43,83445255
Rota 12 - Mesquita 1,745m	7515151,044	619938,584	-22,46577017	-43,83425114
Rota 12 - Mesquita 1,745m	7515185,914	619974,361	-22,4654527	-43,8339061
Rota 12 - Mesquita 1,745m	7515211,957	620004,864	-22,46521533	-43,83361164
Rota 12 - Mesquita 1,745m	7515221,069	620023,117	-22,46513174	-43,83343495

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 12 - Mesquita 1,745m	7515228,224	620043,957	-22,46506566	-43,83323297
Rota 12 - Mesquita 1,745m	7515227,633	620069,101	-22,46506923	-43,83298858
Rota 12 - Mesquita 1,745m	7515228,181	620098,959	-22,46506218	-43,83269846
Rota 12 - Mesquita 1,745m	7515227,597	620132,947	-22,46506506	-43,83236812
Rota 12 - Mesquita 1,745m	7515228,371	620142,921	-22,46505737	-43,83227125
Rota 12 - Mesquita 1,745m	7515245,976	620154,336	-22,46489756	-43,83216166
Rota 12 - Mesquita 1,745m	7515285,083	620176,923	-22,46454275	-43,83194511
Rota 12 - Mesquita 1,745m	7515312,462	620191,89	-22,4642944	-43,83180174
Rota 12 - Mesquita 1,745m	7515325,05	620201,974	-22,46418	-43,8317047
Rota 12 - Mesquita 1,745m	7515317,171	620214,036	-22,46425031	-43,83158688
Rota 12 - Mesquita 1,745m	7515306,249	620232,344	-22,46434767	-43,83140814
Rota 12 - Mesquita 1,745m	7515296,723	620249,618	-22,46443249	-43,83123955
Rota 12 - Mesquita 1,745m	7515290,07	620261,045	-22,46449178	-43,831128
Rota 12 - Mesquita 1,745m	7515281,244	620265,158	-22,46457121	-43,83108737
Rota 12 - Mesquita 1,745m	7515274,742	620261,826	-22,46463017	-43,83111925
Rota 12 - Mesquita 1,745m	7515256,849	620250,588	-22,46479258	-43,83122711
Rota 12 - Mesquita 1,745m	7515240,15	620236,436	-22,4649444	-43,83136337
Rota 12 - Mesquita 1,745m	7515219,727	620227,758	-22,46512948	-43,83144615
Rota 12 - Mesquita 1,745m	7515209,879	620241,977	-22,46521742	-43,83130723
Rota 12 - Mesquita 1,745m	7515194,85	620269,436	-22,46535123	-43,83103925
Rota 12 - Mesquita 1,745m	7515176,486	620296,993	-22,46551516	-43,83077006
Rota 12 - Mesquita 1,745m	7515141,083	620358,371	-22,4658306	-43,83017091
Rota 12 - Mesquita 1,745m	7515119,048	620399,831	-22,4660267	-43,82976632
Rota 12 - Mesquita 1,745m	7515103,896	620429,724	-22,46616145	-43,82947467
Rota 12 - Mesquita 1,745m	7515092,751	620452,922	-22,46626047	-43,82924839
Rota 12 - Mesquita 1,745m	7515090,44	620464,448	-22,46628053	-43,8291362
Rota 12 - Mesquita 1,745m	7515103,581	620471,803	-22,46616132	-43,82906573
Rota 12 - Mesquita 1,745m	7515120,46	620481,808	-22,46600816	-43,82896978
Rota 12 - Mesquita 1,745m	7515137,453	620487,539	-22,46585428	-43,82891537
Rota 12 - Mesquita 1,745m	7515147,03	620487,176	-22,4657678	-43,82891962
Rota 12 - Mesquita 1,745m	7515158,773	620469,611	-22,46566298	-43,82909121
Rota 12 - Mesquita 1,745m	7515169,143	620448,957	-22,46557077	-43,82929271
Rota 12 - Mesquita 1,745m	7515179,041	620429,233	-22,46548276	-43,82948515
Rota 12 - Mesquita 1,745m	7515186,002	620415,48	-22,46542086	-43,82961932
Rota 12 - Mesquita 1,745m	7515202,285	620385,389	-22,4652759	-43,82991299
Rota 12 - Mesquita 1,745m	7515220,235	620354,836	-22,46511593	-43,83021125
Rota 12 - Mesquita 1,745m	7515240,074	620318,77	-22,46493928	-43,83056325
Rota 12 - Mesquita 1,745m	7515269,638	620273,232	-22,46467547	-43,83100802
Rota 12 - Mesquita 1,745m	7515277,859	620268,352	-22,46460156	-43,83105607
Rota 12 - Mesquita 1,745m	7515290,888	620271,338	-22,46448367	-43,83102804
Rota 12 - Mesquita 1,745m	7515302,157	620282,532	-22,46438109	-43,83092011
Rota 12 - Mesquita 1,745m	7515313,979	620302,704	-22,4642729	-43,83072498
Rota 12 - Mesquita 1,745m	7515325,128	620328,817	-22,46417036	-43,83047206
Rota 12 - Mesquita 1,745m	7515347,728	620368,714	-22,46396342	-43,83008606
Rota 12 - Mesquita 1,745m	7515378,684	620418,193	-22,46368033	-43,82960758

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 12 - Mesquita 1,745m	7515393,703	620442,867	-22,46354293	-43,82936893
Rota 12 - Mesquita 1,745m	7515403,769	620464,07	-22,46345052	-43,82916366
Rota 12 - Mesquita 1,745m	7515409,201	620484,608	-22,46340002	-43,82896448
Rota 12 - Mesquita 1,745m	7515407,735	620501,901	-22,46341204	-43,82879633
Rota 12 - Mesquita 1,745m	7515407,529	620527,483	-22,46341209	-43,82854771
Rota 12 - Mesquita 1,745m	7515412,809	620552,006	-22,46336267	-43,8283098
Rota 12 - Mesquita 1,745m	7515421,892	620582,968	-22,46327844	-43,8280096
Rota 12 - Mesquita 1,745m	7515431,644	620612,254	-22,46318829	-43,82772575
Rota 12 - Mesquita 1,745m	7515435,024	620624,838	-22,46315687	-43,82760372
Rota 12 - Mesquita 1,745m	7515465	620696,61	-22,46288105	-43,82690853
Rota 12 - Mesquita 1,745m	7515477,528	620730,994	-22,46276548	-43,82657535
Rota 12 - Mesquita 1,745m	7515479,734	620748,619	-22,4627443	-43,82640424
Rota 12 - Mesquita 1,745m	7515472,778	620761,639	-22,46280621	-43,82627718
Rota 12 - Mesquita 1,745m	7515464,492	620768,648	-22,46288056	-43,82620845
Rota 12 - Mesquita 1,745m	7515454,919	620777,905	-22,46296636	-43,82611775
Rota 5 - Final atã trevo Matadouro 1,849	7515454,234	620777,899	-22,46297256	-43,82611776
Rota 5 - Final atã trevo Matadouro 1,849	7515488,995	620809,738	-22,46265634	-43,825811
Rota 5 - Final atã trevo Matadouro 1,849	7515530,817	620860,031	-22,46227504	-43,82532545
Rota 5 - Final atã trevo Matadouro 1,849	7515556,675	620899,894	-22,46203866	-43,82494004
Rota 5 - Final atã trevo Matadouro 1,849	7515565,063	620943,124	-22,46195984	-43,82452058
Rota 5 - Final atã trevo Matadouro 1,849	7515580,353	621030,11	-22,46181557	-43,82367645
Rota 5 - Final atã trevo Matadouro 1,849	7515601,871	621069,982	-22,4616184	-43,82329062
Rota 5 - Final atã trevo Matadouro 1,849	7515626,041	621094,119	-22,46139838	-43,82305791
Rota 5 - Final atã trevo Matadouro 1,849	7515676,88	621141,184	-22,46093585	-43,82260443
Rota 5 - Final atã trevo Matadouro 1,849	7515744,834	621199,49	-22,46031795	-43,82204302
Rota 5 - Final atã trevo Matadouro 1,849	7515817,596	621252,946	-22,45965696	-43,82152911
Rota 5 - Final atã trevo Matadouro 1,849	7515871,228	621303,906	-22,45916893	-43,821038
Rota 5 - Final atã trevo Matadouro 1,849	7515941,559	621391,372	-22,45852748	-43,82019344
Rota 5 - Final atã trevo Matadouro 1,849	7516021,132	621503,314	-22,4578008	-43,81911173
Rota 5 - Final atã trevo Matadouro 1,849	7516056,976	621560,195	-22,45747301	-43,81856174
Rota 5 - Final atã trevo Matadouro 1,849	7516056,976	621560,195	-22,45747301	-43,81856174
Rota 5 - Final atã trevo Matadouro 1,849	7516079,579	621632,989	-22,45726367	-43,81785611
Rota 5 - Final atã trevo Matadouro 1,849	7516089,994	621767,291	-22,45716004	-43,81655185
Rota 5 - Final atã trevo Matadouro 1,849	7516101,095	621914,914	-22,45704924	-43,8151182
Rota 5 - Final atã trevo Matadouro 1,849	7516115,091	621975,457	-22,45691851	-43,81453095
Rota 5 - Final atã trevo Matadouro 1,849	7516153,349	622050,426	-22,4565676	-43,8138054
Rota 5 - Final atã trevo Matadouro 1,849	7516199,087	622151,623	-22,45614726	-43,81282556
Rota 5 - Final atã trevo Matadouro 1,849	7516242,326	622181,824	-22,45575456	-43,81253541
Rota 5 - Final atã trevo Matadouro 1,849	7516318,202	622210,808	-22,45506717	-43,8122596
Rota 5 - Final atã trevo Matadouro 1,849	7516400,412	622238,812	-22,45432263	-43,81199381
Rota 7 - BR393 Vazador 6,293m	7516400,185	622238,746	-22,45432469	-43,81199443
Rota 7 - BR393 Vazador 6,293m	7516423,628	622268,489	-22,45411083	-43,81170722
Rota 7 - BR393 Vazador 6,293m	7516432,529	622296,937	-22,4540284	-43,81143148
Rota 7 - BR393 Vazador 6,293m	7516442,714	622349,868	-22,45393261	-43,81091793
Rota 7 - BR393 Vazador 6,293m	7516453,367	622423,016	-22,45383115	-43,81020796

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - BR393 Vazador 6,293m	7516453,367	622423,016	-22,45383115	-43,81020796
Rota 7 - BR393 Vazador 6,293m	7516464,504	622487,717	-22,45372593	-43,80958011
Rota 7 - BR393 Vazador 6,293m	7516477,271	622571,824	-22,45360459	-43,80876382
Rota 7 - BR393 Vazador 6,293m	7516487,123	622637,695	-22,45351087	-43,80812451
Rota 7 - BR393 Vazador 6,293m	7516500,443	622722,066	-22,4533845	-43,8073057
Rota 7 - BR393 Vazador 6,293m	7516514,191	622826,132	-22,45325286	-43,80629555
Rota 7 - BR393 Vazador 6,293m	7516528,531	622920,332	-22,45311656	-43,80538132
Rota 7 - BR393 Vazador 6,293m	7516541,874	622993,257	-22,4529908	-43,80467374
Rota 7 - BR393 Vazador 6,293m	7516549,953	623027,944	-22,45291533	-43,80433731
Rota 7 - BR393 Vazador 6,293m	7516572,67	623088,984	-22,45270575	-43,80374594
Rota 7 - BR393 Vazador 6,293m	7516635,071	623214,393	-22,4521331	-43,80253218
Rota 7 - BR393 Vazador 6,293m	7516705,279	623352,573	-22,45148901	-43,80119495
Rota 7 - BR393 Vazador 6,293m	7516763,712	623463,014	-22,45095327	-43,80012635
Rota 7 - BR393 Vazador 6,293m	7516832,105	623596,551	-22,45032589	-43,79883412
Rota 7 - BR393 Vazador 6,293m	7516863,317	623654,822	-22,45003976	-43,79827033
Rota 7 - BR393 Vazador 6,293m	7516917,815	623737,753	-22,44954153	-43,79746876
Rota 7 - BR393 Vazador 6,293m	7516950,895	623780,013	-22,44923968	-43,79706071
Rota 7 - BR393 Vazador 6,293m	7516978,6	623809,13	-22,44898734	-43,79677994
Rota 7 - BR393 Vazador 6,293m	7517089,227	623909,518	-22,44798088	-43,79581313
Rota 7 - BR393 Vazador 6,293m	7517171,129	623984,075	-22,44723572	-43,79509508
Rota 7 - BR393 Vazador 6,293m	7517244,7	624055,57	-22,44656604	-43,79440614
Rota 7 - BR393 Vazador 6,293m	7517313,117	624128,854	-22,44594277	-43,79369942
Rota 7 - BR393 Vazador 6,293m	7517387,217	624206,568	-22,44526785	-43,7929501
Rota 7 - BR393 Vazador 6,293m	7517463,809	624288,573	-22,44457011	-43,7921593
Rota 7 - BR393 Vazador 6,293m	7517466,994	624291,855	-22,44454111	-43,79212766
Rota 7 - BR393 Vazador 6,293m	7517538,063	624366,745	-22,44389376	-43,79140556
Rota 7 - BR393 Vazador 6,293m	7517665,407	624502,443	-22,44273371	-43,79009705
Rota 7 - BR393 Vazador 6,293m	7517745,823	624591,246	-22,44200091	-43,78924052
Rota 7 - BR393 Vazador 6,293m	7517783,207	624634,66	-22,44166009	-43,78882164
Rota 7 - BR393 Vazador 6,293m	7517820,914	624694,094	-22,4413152	-43,78824712
Rota 7 - BR393 Vazador 6,293m	7517848,619	624760,989	-22,44106008	-43,78759934
Rota 7 - BR393 Vazador 6,293m	7517917,204	624924,274	-22,4404287	-43,78601823
Rota 7 - BR393 Vazador 6,293m	7517989,569	625104,78	-22,43976189	-43,78427012
Rota 7 - BR393 Vazador 6,293m	7518023,278	625176,227	-22,4394522	-43,7835786
Rota 7 - BR393 Vazador 6,293m	7518066,327	625241,341	-22,43905861	-43,78294934
Rota 7 - BR393 Vazador 6,293m	7518133,139	625319,122	-22,43844947	-43,78219889
Rota 7 - BR393 Vazador 6,293m	7518191,693	625382,605	-22,43791595	-43,78158671
Rota 7 - BR393 Vazador 6,293m	7518264,551	625458,265	-22,43725235	-43,78085736
Rota 7 - BR393 Vazador 6,293m	7518297,508	625503,964	-22,43695133	-43,78041595
Rota 7 - BR393 Vazador 6,293m	7518328,799	625550,039	-22,43666532	-43,77997077
Rota 7 - BR393 Vazador 6,293m	7518371,17	625625,519	-22,43627709	-43,77924078
Rota 7 - BR393 Vazador 6,293m	7518423,669	625713,81	-22,43579642	-43,77838711
Rota 7 - BR393 Vazador 6,293m	7518486,107	625818,118	-22,43522481	-43,77737862
Rota 7 - BR393 Vazador 6,293m	7518486,107	625818,118	-22,43522481	-43,77737862
Rota 7 - BR393 Vazador 6,293m	7518531,998	625898,444	-22,43480442	-43,77660184

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 7 - BR393 Vazador 6,293m	7518586,019	625985,141	-22,43431011	-43,7757638
Rota 7 - BR393 Vazador 6,293m	7518653,681	626097,44	-22,43369071	-43,77467811
Rota 7 - BR393 Vazador 6,293m	7518700,863	626171,752	-22,43325908	-43,77395988
Rota 7 - BR393 Vazador 6,293m	7518769,878	626251,869	-22,43262982	-43,77318698
Rota 7 - BR393 Vazador 6,293m	7518904,378	626392,751	-22,43140462	-43,77182893
Rota 7 - BR393 Vazador 6,293m	7519000,31	626495,965	-22,43053053	-43,7708338
Rota 7 - BR393 Vazador 6,293m	7519129,61	626634,42	-22,42935245	-43,76949896
Rota 7 - BR393 Vazador 6,293m	7519167,892	626671,782	-22,42900393	-43,76913903
Rota 7 - BR393 Vazador 6,293m	7519208,774	626706,139	-22,42863213	-43,7688085
Rota 7 - BR393 Vazador 6,293m	7519262,111	626747,87	-22,42814731	-43,76840733
Rota 7 - BR393 Vazador 6,293m	7519322,615	626794,052	-22,42759741	-43,76796348
Rota 7 - BR393 Vazador 6,293m	7519377,564	626839,241	-22,42709776	-43,76752885
Rota 7 - BR393 Vazador 6,293m	7519440,525	626904,49	-22,42652426	-43,76689997
Rota 7 - BR393 Vazador 6,293m	7519512,464	626987,217	-22,42586837	-43,76610202
Rota 7 - BR393 Vazador 6,293m	7519607,274	627094,996	-22,42500405	-43,76506253
Rota 7 - BR393 Vazador 6,293m	7519693,442	627193,042	-22,42421849	-43,76411691
Rota 7 - BR393 Vazador 6,293m	7519721,911	627225,864	-22,42395892	-43,76380032
Rota 7 - BR393 Vazador 6,293m	7519736,426	627248,172	-22,42382616	-43,76358476
Rota 7 - BR393 Vazador 6,293m	7519749,43	627280,936	-22,42370627	-43,76326751
Rota 7 - BR393 Vazador 6,293m	7519752,967	627306,792	-22,4236724	-43,76301661
Rota 7 - BR393 Vazador 6,293m	7519752,741	627330,7	-22,42367266	-43,76278432
Rota 7 - BR393 Vazador 6,293m	7519748,315	627349,051	-22,42371128	-43,76260569
Rota 7 - BR393 Vazador 6,293m	7519737,652	627379,695	-22,4238053	-43,76230714

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DE MAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Início da Rota 13	7514670,802	620281,41	-22,47008367	-43,83088317
Rota 13 - Principal 1,838m	7514670,802	620281,41	-22,47008367	-43,83088317
Rota 13 - Principal 1,838m	7514719,205	620302,347	-22,46964502	-43,83068336
Rota 13 - Principal 1,838m	7514768,449	620320,336	-22,46919897	-43,83051227
Rota 13 - Principal 1,838m	7514790,767	620338,544	-22,46899611	-43,83033702
Rota 13 - Principal 1,838m	7514816,756	620372,622	-22,46875897	-43,83000781
Rota 13 - Principal 1,838m	7514824,758	620431,113	-22,46868257	-43,82943999
Rota 13 - Principal 1,838m	7514834,065	620494,892	-22,468594	-43,82882088
Rota 13 - Principal 1,838m	7514839,888	620536,558	-22,46853846	-43,8284164
Rota 13 - Principal 1,838m	7514847,496	620595,05	-22,46846562	-43,82784855
Rota 13 - Principal 1,838m	7514846,965	620615,487	-22,46846898	-43,8276499
Rota 13 - Principal 1,838m	7514844,242	620623,506	-22,468493	-43,82757176
Rota 13 - Principal 1,838m	7514832,759	620623,649	-22,46859671	-43,8275695
Rota 13 - Principal 1,838m	7514805,914	620628,178	-22,46883885	-43,82752344
Rota 13 - Principal 1,838m	7514781,019	620631,866	-22,46906345	-43,82748571
Rota 13 - Principal 1,838m	7514745,504	620634,811	-22,46938402	-43,82745439
Rota 13 - Principal 1,838m	7514735,214	620633,778	-22,46947703	-43,82746365
Rota 13 - Principal 1,838m	7514726,22	620626,357	-22,4695588	-43,82753508
Rota 13 - Principal 1,838m	7514718,787	620624,16	-22,46962609	-43,82755587
Rota 13 - Principal 1,838m	7514701,011	620624,395	-22,46978663	-43,82755223
Rota 13 - Principal 1,838m	7514674,617	620628,847	-22,47002471	-43,82750696
Rota 13 - Principal 1,838m	7514658,583	620631,58	-22,47016933	-43,82747918
Rota 13 - Principal 1,838m	7514647,211	620642,764	-22,47027125	-43,82736963
Rota 13 - Principal 1,838m	7514637,846	620654,48	-22,47035502	-43,82725506
Rota 13 - Principal 1,838m	7514632,699	620670,097	-22,4704004	-43,82710289
Rota 13 - Principal 1,838m	7514624,638	620692,954	-22,47047159	-43,82688015
Rota 13 - Principal 1,838m	7514615,975	620712,829	-22,47054843	-43,82668634
Rota 13 - Principal 1,838m	7514597,77	620758,58	-22,47070963	-43,82624033
Rota 13 - Principal 1,838m	7514587,41	620790,709	-22,47080093	-43,8259273
Rota 13 - Principal 1,838m	7514573,61	620833,311	-22,47092256	-43,82551223
Rota 13 - Principal 1,838m	7514565,703	620855,048	-22,47099244	-43,82530038
Rota 13 - Principal 1,838m	7514555,567	620888,863	-22,47108158	-43,82497099
Rota 13 - Principal 1,838m	7514554,07	620898,941	-22,4710944	-43,82487293
Rota 13 - Principal 1,838m	7514563,597	620906,347	-22,47100782	-43,82480168
Rota 13 - Principal 1,838m	7514592,786	620914,945	-22,47074358	-43,82472035
Rota 13 - Principal 1,838m	7514613,027	620920,2	-22,47056039	-43,82467082
Rota 13 - Principal 1,838m	7514614,227	620936,86	-22,47054836	-43,824509
Rota 13 - Principal 1,838m	7514609,202	620947,875	-22,47059297	-43,82440158
Rota 13 - Principal 1,838m	7514598,873	620955,397	-22,47068573	-43,82432768
Rota 13 - Principal 1,838m	7514577,996	620959,988	-22,47087397	-43,82428148
Rota 13 - Principal 1,838m	7514552,469	620967,768	-22,47110398	-43,82420392
Rota 13 - Principal 1,838m	7514529,687	620982,453	-22,47130871	-43,82405947
Rota 13 - Principal 1,838m	7514497,082	621005,31	-22,47160158	-43,82383485



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 13 - Principal 1,838m	7514475,863	621021,088	-22,47179212	-43,8236799
Rota 13 - Principal 1,838m	7514461,908	621036,865	-22,47191704	-43,82352551
Rota 13 - Principal 1,838m	7514436,366	621057,683	-22,47214627	-43,82332124
Rota 13 - Principal 1,838m	7514420,226	621081,18	-22,47229037	-43,82309165
Rota 13 - Principal 1,838m	7514415,838	621116,323	-22,47232752	-43,82274979
Rota 13 - Principal 1,838m	7514408,561	621131,325	-22,47239218	-43,82260343
Rota 13 - Principal 1,838m	7514392,597	621144,052	-22,47253547	-43,82247853
Rota 13 - Principal 1,838m	7514379,531	621164,647	-22,47265201	-43,82227738
Rota 13 - Principal 1,838m	7514378,857	621181,113	-22,47265693	-43,82211731
Rota 13 - Principal 1,838m	7514378,444	621192,299	-22,47265987	-43,82200856
Rota 13 - Principal 1,838m	7514370,94	621217,266	-22,47272588	-43,82176535
Rota 13 - Principal 1,838m	7514365,496	621239,614	-22,47277346	-43,82154775
Rota 13 - Principal 1,838m	7514357,029	621266,428	-22,47284803	-43,82128651
Rota 13 - Principal 1,838m	7514346,887	621281,006	-22,4729386	-43,82114406
Rota 13 - Principal 1,838m	7514387,66	621255,427	-22,47257215	-43,82139576
Rota 13 - Principal 1,838m	7514445,641	621223,637	-22,47205071	-43,82170914
Rota 13 - Principal 1,838m	7514488,522	621198,603	-22,47166518	-43,82195571
Rota 13 - Principal 1,838m	7514592,752	621136,571	-22,47072817	-43,82256651
Rota 13 - Principal 1,838m	7514653,3	621105,026	-22,47018353	-43,8228777
Rota 13 - Principal 1,838m	7514674,943	621092,049	-22,46998897	-43,82300546
Rota 13 - Assis Ribeiro 1,631m	7514615,975	620712,829	-22,47054843	-43,82668634
Rota 13 - Assis Ribeiro 1,631m	7514600,478	620716,495	-22,47068814	-43,82664954
Rota 13 - Assis Ribeiro 1,631m	7514573,825	620712,718	-22,47092914	-43,82668421
Rota 13 - Assis Ribeiro 1,631m	7514523,952	620705,816	-22,47138009	-43,82674749
Rota 13 - Assis Ribeiro 1,631m	7514479,359	620703,71	-22,47178301	-43,82676457
Rota 13 - Assis Ribeiro 1,631m	7514453,807	620700,316	-22,47201404	-43,82679561
Rota 13 - Assis Ribeiro 1,631m	7514408,358	620695,69	-22,47242487	-43,82683711
Rota 13 - Assis Ribeiro 1,631m	7514384,691	620693,373	-22,47263879	-43,82685782
Rota 13 - Assis Ribeiro 1,631m	7514345,035	620677,82	-22,47299808	-43,82700596
Rota 13 - Assis Ribeiro 1,631m	7514316,738	620665,655	-22,47325452	-43,82712204
Rota 13 - Assis Ribeiro 1,631m	7514230,035	620617,192	-22,47404105	-43,82758643
Rota 13 - Assis Ribeiro 1,631m	7514188,112	620589,436	-22,47442167	-43,82785299
Rota 13 - Assis Ribeiro 1,631m	7514144,936	620553,675	-22,47481417	-43,82819726
Rota 13 - Assis Ribeiro 1,631m	7514122,855	620531,832	-22,47501515	-43,82840787
Rota 13 - Assis Ribeiro 1,631m	7514092,363	620500,682	-22,47529275	-43,82870828
Rota 13 - Assis Ribeiro 1,631m	7514059,16	620473,694	-22,47559456	-43,82896805
Rota 13 - Assis Ribeiro 1,631m	7514025,195	620438,74	-22,4759038	-43,82930518
Rota 13 - Assis Ribeiro 1,631m	7513957,581	620375,586	-22,47651895	-43,82991382
Rota 13 - Assis Ribeiro 1,631m	7513901,152	620319,278	-22,4770326	-43,83045678
Rota 13 - Assis Ribeiro 1,631m	7513864,355	620282,043	-22,47736758	-43,83081587
Rota 13 - Assis Ribeiro 1,631m	7513739,815	620156,979	-22,47850126	-43,83202191
Rota 13 - Assis Ribeiro 1,631m	7513690,621	620106,531	-22,47894914	-43,83250848
Rota 13 - Assis Ribeiro 1,631m	7513655,03	620066,983	-22,47927338	-43,83289015

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 13 - Assis Ribeiro 1,631m	7513633,003	620042,609	-22,47947404	-43,83312538
Rota 13 - Assis Ribeiro 1,631m	7513622,907	620031,923	-22,47956598	-43,83322847
Rota 13 - Assis Ribeiro 1,631m	7513602,71	620009,072	-22,47975002	-43,83344902
Rota 13 - Assis Ribeiro 1,631m	7513579,642	619981,106	-22,47996034	-43,83371908
Rota 13 - Assis Ribeiro 1,631m	7513536,593	619926,625	-22,48035299	-43,83424533
Rota 13 - Assis Ribeiro 1,631m	7513517,967	619899,888	-22,4805231	-43,83450377
Rota 13 - Assis Ribeiro 1,631m	7513509,868	619885,93	-22,48059724	-43,83463882
Rota 13 - Assis Ribeiro 1,631m	7513483,286	619844,226	-22,48084025	-43,83504213
Rota 13 - Assis Ribeiro 1,631m	7513446,456	619788,379	-22,48117683	-43,83558213
Rota 13 - Assis Ribeiro 1,631m	7513421,931	619737,207	-22,48140194	-43,83607762
Rota 13 - Assis Ribeiro 1,631m	7513410,314	619718,403	-22,48150818	-43,8362595
Rota 13 - Assis Ribeiro 255m	7513737,661	620154,912	-22,47852086	-43,83204184
Rota 13 - Assis Ribeiro 255m	7513746,892	620146,411	-22,47843807	-43,83212516
Rota 13 - Assis Ribeiro 255m	7513767,352	620130,692	-22,47825439	-43,83227947
Rota 13 - Assis Ribeiro 255m	7513776,271	620120,459	-22,47817455	-43,8323796
Rota 13 - Assis Ribeiro 255m	7513772,341	620108,997	-22,47821085	-43,8324907
Rota 13 - Assis Ribeiro 255m	7513758,197	620088,958	-22,47834001	-43,83268439
Rota 13 - Assis Ribeiro 255m	7513745,451	620074,841	-22,47845613	-43,83282063
Rota 13 - Assis Ribeiro 255m	7513724,025	620046,304	-22,47865166	-43,83309635
Rota 13 - Assis Ribeiro 255m	7513704,07	620020,362	-22,47883372	-43,83334696
Rota 13 - Assis Ribeiro 255m	7513693,5	620011,775	-22,4789298	-43,83342963
Rota 13 - Assis Ribeiro 255m	7513685,03	620018,372	-22,47900584	-43,83336487
Rota 13 - Assis Ribeiro 255m	7513670,278	620030,42	-22,47913823	-43,83324666
Rota 13 - Assis Ribeiro 255m	7513642,844	620053,737	-22,47938437	-43,83301797
Rota 13 - Assis Ribeiro 129m	7513532,296	619920,399	-22,48039224	-43,83430551
Rota 13 - Assis Ribeiro 129m	7513548	619910,88	-22,48025107	-43,83439922
Rota 13 - Assis Ribeiro 129m	7513572,354	619895,041	-22,48003221	-43,834555
Rota 13 - Assis Ribeiro 129m	7513590,905	619885,791	-22,47986531	-43,83464629
Rota 13 - Assis Ribeiro 129m	7513604,899	619897,548	-22,47973808	-43,83453309
Rota 13 - Assis Ribeiro 129m	7513628,331	619933,316	-22,47952393	-43,83418723
Rota 13 - Assis Ribeiro 47m	7513590,853	619886,097	-22,47986575	-43,83464332
Rota 13 - Assis Ribeiro 47m	7513587,307	619875,576	-22,47989852	-43,8347453
Rota 13 - Assis Ribeiro 47m	7513569,418	619844,376	-22,48006228	-43,83504719
Rota 13 - Forum Velho 245m	7514554,069	620898,579	-22,47109443	-43,82487645
Rota 13 - Forum Velho 245m	7514540,575	620898,261	-22,47121633	-43,82487851
Rota 13 - Forum Velho 245m	7514526,975	620893,299	-22,47133952	-43,8249257
Rota 13 - Forum Velho 245m	7514515,49	620885,039	-22,47144384	-43,82500509
Rota 13 - Forum Velho 245m	7514508,125	620866,697	-22,47151166	-43,82518279
Rota 13 - Forum Velho 245m	7514499,84	620850,702	-22,47158762	-43,8253376
Rota 13 - Forum Velho 245m	7514489,017	620830,944	-22,47168678	-43,82552879
Rota 13 - Forum Velho 245m	7514486,388	620818,167	-22,47171143	-43,82565277
Rota 13 - Forum Velho 245m	7514481,776	620806,55	-22,4717539	-43,82576531
Rota 13 - Forum Velho 245m	7514469,489	620788,58	-22,47186615	-43,82593902

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DE MAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 13 - Forum Velho 245m	7514459,009	620774,684	-22,47196179	-43,82607327
Rota 13 - Forum Velho 245m	7514453,985	620766,955	-22,47200772	-43,826148
Rota 13 - Forum Velho 245m	7514461,761	620754,606	-22,47193836	-43,82626861
Rota 13 - Forum Velho 245m	7514469,08	620737,945	-22,47187343	-43,82643108
Rota 13 - Forum Velho 245m	7514480,605	620703,916	-22,47177174	-43,82676266
Rota 13 - MRS 554m	7514379,538	621164,28	-22,47265198	-43,82228094
Rota 13 - MRS 554m	7514371,792	621165,273	-22,47272188	-43,8222707
Rota 13 - MRS 554m	7514359,958	621168,714	-22,47282852	-43,82223636
Rota 13 - MRS 554m	7514343,18	621180,157	-22,47297924	-43,82212387
Rota 13 - MRS 554m	7514325,449	621194,47	-22,47313837	-43,82198341
Rota 13 - MRS 554m	7514305,201	621211,205	-22,47332007	-43,82181923
Rota 13 - MRS 554m	7514289,621	621225,47	-22,47345978	-43,82167941
Rota 13 - MRS 554m	7514269,513	621240,881	-22,4736403	-43,82152809
Rota 13 - MRS 554m	7514254,466	621254,019	-22,47377528	-43,82139926
Rota 13 - MRS 554m	7514234,506	621265,984	-22,4739547	-43,82128146
Rota 13 - MRS 554m	7514208,496	621284,697	-22,4741883	-43,8210976
Rota 13 - MRS 554m	7514187,922	621302,715	-22,47437285	-43,82092092
Rota 13 - MRS 554m	7514160,953	621322,887	-22,474615	-43,82072282
Rota 13 - MRS 554m	7514139,085	621337,841	-22,47481145	-43,82057581
Rota 13 - MRS 554m	7514121,733	621350,427	-22,47496729	-43,82045217
Rota 13 - MRS 554m	7514103,877	621360,722	-22,47512783	-43,82035075
Rota 13 - MRS 554m	7514083,417	621371,161	-22,47531188	-43,82024773
Rota 13 - MRS 554m	7514064,737	621377,475	-22,47548015	-43,82018494
Rota 13 - MRS 554m	7514047,357	621383,217	-22,47563672	-43,8201278
Rota 13 - MRS 554m	7514027,812	621386,024	-22,47581306	-43,82009903
Rota 13 - MRS 554m	7514005,877	621386,856	-22,47601112	-43,82008926
Rota 13 - MRS 554m	7513976,689	621383,781	-22,47627496	-43,82011692
Rota 13 - MRS 554m	7513950,561	621380,24	-22,47651121	-43,82014933
Rota 13 - MRS 554m	7513899,363	621361,773	-22,47697495	-43,82032489
Rota 13 - Muqueca 2x 1,270m	7514346,887	621281,006	-22,4729386	-43,82114406
Rota 13 - Muqueca 2x 1,270m	7514332,821	621296,533	-22,47306454	-43,82099208
Rota 13 - Muqueca 2x 1,270m	7514311,911	621310,321	-22,47325242	-43,82085649
Rota 13 - Muqueca 2x 1,270m	7514286,71	621327,71	-22,47347881	-43,82068557
Rota 13 - Muqueca 2x 1,270m	7514265,523	621337,808	-22,47366946	-43,8205858
Rota 13 - Muqueca 2x 1,270m	7514241,294	621351,552	-22,47388731	-43,82045038
Rota 13 - Muqueca 2x 1,270m	7514228,245	621361,566	-22,47400446	-43,82035206
Rota 13 - Muqueca 2x 1,270m	7514216,752	621373,718	-22,4741074	-43,82023308
Rota 13 - Muqueca 2x 1,270m	7514199,256	621392,71	-22,47426408	-43,82004717
Rota 13 - Muqueca 2x 1,270m	7514171,18	621426,689	-22,47451525	-43,81971479
Rota 13 - Muqueca 2x 1,270m	7514138,858	621458,014	-22,47480495	-43,81940788
Rota 13 - Muqueca 2x 1,270m	7514115,068	621479,756	-22,47501829	-43,81919476
Rota 13 - Muqueca 2x 1,270m	7514097,115	621488,991	-22,47517978	-43,81910364
Rota 13 - Muqueca 2x 1,270m	7514068,023	621491,258	-22,47544238	-43,81907938

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 13 - Muqueca 2x 1,270m	7514032,839	621487,883	-22,4757604	-43,81910948
Rota 13 - Muqueca 2x 1,270m	7513980,833	621488,872	-22,47623006	-43,81909589
Rota 13 - Muqueca 2x 1,270m	7513953,832	621483,056	-22,47647435	-43,81915034
Rota 13 - Muqueca 2x 1,270m	7513919,428	621468,825	-22,47678611	-43,81928602
Rota 13 - Muqueca 2x 1,270m	7513878,613	621450,477	-22,47715605	-43,81946121
Rota 13 - Muqueca 2x 1,270m	7513851,922	621439,496	-22,47739791	-43,81956589
Rota 13 - Muqueca 2x 1,270m	7513813,7	621425,98	-22,4777441	-43,81969432
Rota 13 - Muqueca 2x 1,270m	7513784,035	621419,87	-22,47801248	-43,81975143
Rota 13 - Muqueca 2x 1,270m	7513727,1	621417,961	-22,47852685	-43,81976563
Rota 13 - Muqueca 2x 1,270m	7513685,703	621427,912	-22,47890005	-43,81966574
Rota 13 - Muqueca 2x 1,270m	7513648,533	621443,67	-22,47923464	-43,81950975
Rota 13 - Muqueca 2x 1,270m	7513595,951	621478,027	-22,47970713	-43,81917181
Rota 13 - Muqueca 2x 1,270m	7513579,196	621505,173	-22,47985653	-43,81890669
Rota 13 - Muqueca 2x 1,270m	7513567,848	621533,808	-22,47995698	-43,81862752
Rota 13 - Muqueca 2x 1,270m	7513558,666	621565,627	-22,48003765	-43,81831757
Rota 13 - Muqueca 2x 1,270m	7513548,362	621582,126	-22,48012955	-43,81815643
Rota 13 - Muqueca 2x 1,270m	7513530,513	621594,458	-22,48028988	-43,8180352
Rota 13 - Muqueca 2x 1,270m	7513475,174	621608,761	-22,48078869	-43,81789196
Rota 13 - Muqueca 2x 1,270m	7513433,736	621610,324	-22,48116285	-43,81787358
Rota 13 - Muqueca 2x 1,270m	7513394,322	621608,514	-22,48151897	-43,81788815
Rota 13 - Muqueca 2x 1,270m	7513353,281	621606,096	-22,48188982	-43,8179085
Rota 13 - Muqueca 2x 1,270m	7513336,179	621602,527	-22,48204455	-43,81794188
Rota 13 - Muqueca 2x 1,270m	7513259,57	621581,099	-22,48273801	-43,81814427
Rota 13 - Muqueca 504m	7513259,993	621581,309	-22,48273418	-43,81814226
Rota 13 - Muqueca 504m	7513224,515	621567,779	-22,48305559	-43,81827104
Rota 13 - Muqueca 504m	7513165,875	621539,909	-22,48358721	-43,81853742
Rota 13 - Muqueca 504m	7513137,472	621527,35	-22,48384465	-43,81865731
Rota 13 - Muqueca 504m	7513088,394	621506,714	-22,4842894	-43,81885411
Rota 13 - Muqueca 504m	7513045,408	621488,429	-22,48467895	-43,81902853
Rota 13 - Muqueca 504m	7513010,913	621483,786	-22,48499084	-43,81907102
Rota 13 - Muqueca 504m	7512982,959	621489,263	-22,48524293	-43,81901564
Rota 13 - Muqueca 504m	7512946,491	621510,771	-22,48557078	-43,8188038
Rota 13 - Muqueca 504m	7512930,676	621525,261	-22,4857126	-43,81866176
Rota 13 - Muqueca 504m	7512907,204	621545,375	-22,48592316	-43,81846446
Rota 13 - Muqueca 504m	7512892,347	621564,752	-22,48605598	-43,81827499
Rota 13 - Muqueca 504m	7512876,427	621582,197	-22,48619852	-43,81810421
Rota 13 - Muqueca 504m	7512862,369	621597,391	-22,48632442	-43,81795546
Rota 13 - Muqueca 504m	7512831,81	621628,35	-22,48659822	-43,81765222
Rota 13 - Muqueca 158m	7512831,945	621627,809	-22,48659703	-43,81765749
Rota 13 - Muqueca 158m	7512824,01	621634,192	-22,48666825	-43,81759484
Rota 13 - Muqueca 158m	7512803,454	621648,235	-22,48685292	-43,81745677
Rota 13 - Muqueca 158m	7512794,782	621652,919	-22,4869309	-43,81741058
Rota 13 - Muqueca 158m	7512780,133	621658,563	-22,48706281	-43,8173546

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DE MAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 13 - Muqueca 158m	7512759,409	621664,374	-22,48724958	-43,81729653
Rota 13 - Muqueca 158m	7512727,536	621672,481	-22,48753688	-43,81721528
Rota 13 - Muqueca 158m	7512713,703	621671,612	-22,48766189	-43,81722267
Rota 13 - Muqueca 158m	7512696,224	621648,653	-22,48782139	-43,81744448
Rota 13 - Muqueca 434m	7512832,22	621628,077	-22,48659453	-43,8176549
Rota 13 - Muqueca 434m	7512851,111	621617,968	-22,48642463	-43,8177546
Rota 13 - Muqueca 434m	7512871,353	621609,456	-22,48624241	-43,81783889
Rota 13 - Muqueca 434m	7512896,981	621604,574	-22,48601129	-43,81788831
Rota 13 - Muqueca 434m	7512934,081	621601,381	-22,48567642	-43,81792218
Rota 13 - Muqueca 434m	7512972,13	621597,382	-22,48533304	-43,81796397
Rota 13 - Muqueca 434m	7513081,959	621588,124	-22,48434171	-43,81806238
Rota 13 - Muqueca 434m	7513179,399	621581,692	-22,48346208	-43,81813235
Rota 13 - Muqueca 434m	7513232,303	621577	-22,48298458	-43,81818202
Rota 13 - Muqueca 434m	7513260,009	621581,262	-22,48273404	-43,81814272
Rota 13 - Muqueca 43,3m	7513081,959	621588,124	-22,48434171	-43,81806238
Rota 13 - Muqueca 43,3m	7513083,168	621571,613	-22,48433197	-43,81822294
Rota 13 - Muqueca 43,3m	7513087,468	621545,184	-22,48429501	-43,81848014
Rota 13 - Tabarino 279m	7514674,489	621092,372	-22,46999305	-43,82300229
Rota 13 - Tabarino 279m	7514680,834	621069,635	-22,46993735	-43,82322374
Rota 13 - Tabarino 279m	7514687,065	621056,875	-22,46988198	-43,82334822
Rota 13 - Tabarino 279m	7514690,965	621037,92	-22,4698481	-43,82353272
Rota 13 - Tabarino 279m	7514692,512	621017,025	-22,46983561	-43,82373591
Rota 13 - Tabarino 279m	7514693,588	620998,02	-22,46982723	-43,82392068
Rota 13 - Tabarino 279m	7514698,454	620975,677	-22,46978486	-43,82413819
Rota 13 - Tabarino 279m	7514706,191	620959,237	-22,46971614	-43,82429855
Rota 13 - Tabarino 279m	7514715,255	620949,421	-22,46963498	-43,82439464
Rota 13 - Tabarino 279m	7514731,328	620946,874	-22,46948998	-43,82442061
Rota 13 - Tabarino 279m	7514765,596	620948,592	-22,46918035	-43,82440653
Rota 13 - Tabarino 279m	7514804,548	620949,284	-22,46882848	-43,82440277
Rota 13 - Tabarino 279m	7514822,011	620948,333	-22,46867082	-43,82441334
Rota 13 - Tabarino 279m	7514842,346	620947,863	-22,46848719	-43,82441946
Rota 13 - Principal 2,111m	7514841,842	620947,818	-22,46849174	-43,82441986
Rota 13 - Principal 2,111m	7514849,559	620962,305	-22,46842101	-43,82427966
Rota 13 - Principal 2,111m	7514859,782	620981,577	-22,46832731	-43,82409315
Rota 13 - Principal 2,111m	7514870,516	620995,98	-22,46822934	-43,823954
Rota 13 - Principal 2,111m	7514876,21	621006,936	-22,46817713	-43,82384796
Rota 13 - Principal 2,111m	7514880,376	621018,338	-22,46813869	-43,82373748
Rota 13 - Principal 2,111m	7514888,004	621025,989	-22,46806926	-43,8236637
Rota 13 - Principal 2,111m	7514900,391	621028,47	-22,4679572	-43,82364053
Rota 13 - Principal 2,111m	7514912,911	621025,299	-22,46784435	-43,8236723
Rota 13 - Principal 2,111m	7514927,063	621015,511	-22,46771721	-43,82376851
Rota 13 - Principal 2,111m	7514942,056	621009,031	-22,46758225	-43,82383262
Rota 13 - Principal 2,111m	7514960,258	621004,465	-22,46741817	-43,82387839

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 13 - Principal 2,111m	7514978,83	621002,746	-22,46725055	-43,82389651
Rota 13 - Principal 2,111m	7515037,593	621013,233	-22,46671905	-43,82379907
Rota 13 - Principal 2,111m	7515052,824	621023,186	-22,46658078	-43,82370351
Rota 13 - Principal 2,111m	7515068,329	621040,669	-22,46643949	-43,82353479
Rota 13 - Principal 2,111m	7515080,523	621059,011	-22,46632806	-43,82335748
Rota 13 - Principal 2,111m	7515088,12	621075,855	-22,46625825	-43,82319437
Rota 13 - Principal 2,111m	7515093,482	621089,853	-22,46620882	-43,82305875
Rota 13 - Principal 2,111m	7515092,434	621102,394	-22,4662174	-43,82293678
Rota 13 - Principal 2,111m	7515086,192	621116,729	-22,46627276	-43,82279701
Rota 13 - Principal 2,111m	7515070,049	621135,513	-22,46641724	-43,82261323
Rota 13 - Principal 2,111m	7515081,473	621158,401	-22,46631243	-43,82239168
Rota 13 - Principal 2,111m	7515098,591	621192,407	-22,46615541	-43,82206251
Rota 13 - Principal 2,111m	7515121,008	621234,779	-22,46594992	-43,82165245
Rota 13 - Principal 2,111m	7515137,322	621260,827	-22,46580073	-43,82140057
Rota 13 - Principal 2,111m	7515150,808	621287,362	-22,46567703	-43,82114373
Rota 13 - Principal 2,111m	7515158,246	621296,852	-22,46560918	-43,82105208
Rota 13 - Principal 2,111m	7515135,818	621308,523	-22,46581092	-43,82093694
Rota 13 - Principal 2,111m	7515114,502	621328,59	-22,46600203	-43,8207403
Rota 13 - Principal 2,111m	7515099,197	621351,12	-22,46613866	-43,82052019
Rota 13 - Principal 2,111m	7515091,568	621367,654	-22,4662064	-43,82035892
Rota 13 - Principal 2,111m	7515087,132	621391,342	-22,46624477	-43,82012839
Rota 13 - Principal 2,111m	7515083,223	621415,406	-22,46627837	-43,81989424
Rota 13 - Principal 2,111m	7515084,404	621431,066	-22,46626659	-43,81974214
Rota 13 - Principal 2,111m	7515088,717	621447,163	-22,46622649	-43,81958605
Rota 13 - Principal 2,111m	7515101,669	621459,123	-22,46610866	-43,81947081
Rota 13 - Principal 2,111m	7515123,003	621465,825	-22,46591549	-43,81940731
Rota 13 - Principal 2,111m	7515154,824	621469,099	-22,46562785	-43,81937793
Rota 13 - Principal 2,111m	7515184,384	621460,766	-22,46536145	-43,81946117
Rota 13 - Principal 2,111m	7515228,221	621442,389	-22,46496681	-43,81964311
Rota 13 - Principal 2,111m	7515264,913	621427,069	-22,4646365	-43,8197948
Rota 13 - Principal 2,111m	7515326,331	621398,523	-22,46408378	-43,8200769
Rota 13 - Principal 2,111m	7515296,795	621360,545	-22,46435326	-43,8204437
Rota 13 - Principal 2,111m	7515244,193	621303,098	-22,46483245	-43,82099795
Rota 13 - Principal 2,111m	7515215,27	621257,42	-22,46509693	-43,82143963
Rota 13 - Principal 2,111m	7515185,089	621200,295	-22,46537358	-43,82199246
Rota 13 - Principal 2,111m	7515160,348	621115,876	-22,46560303	-43,82281095
Rota 13 - Principal 2,111m	7515149,871	621074,692	-22,46570058	-43,82321038
Rota 13 - Principal 2,111m	7515136,439	621047,136	-22,46582386	-43,82347714
Rota 13 - Principal 2,111m	7515116,507	621022,109	-22,46600566	-43,82371883
Rota 13 - Principal 2,111m	7515073,708	620986,169	-22,46639477	-43,82406484
Rota 13 - Principal 2,111m	7515036,304	620969,643	-22,46673378	-43,82422258
Rota 13 - Principal 2,111m	7515005,706	620963,259	-22,46701061	-43,82428229
Rota 13 - Principal 2,111m	7514936,732	620953,729	-22,46763426	-43,82436965

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DE MAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 13 - Principal 2,111m	7514883,545	621013,166	-22,46811044	-43,82378798
Rota 13 - Principal 2,111m	7514871,046	621011,2	-22,46822347	-43,82380613
Rota 13 - Principal 2,111m	7514855,11	621022,28	-22,46836662	-43,82369724
Rota 13 - Principal 2,111m	7514837,36	621038,806	-22,46852577	-43,82353529
Rota 13 - Principal 2,111m	7514821,179	621056,96	-22,46867063	-43,82335763
Rota 13 - Principal 2,111m	7514800,363	621077,123	-22,46885721	-43,82316009
Rota 13 - Principal 2,111m	7514785,242	621094,306	-22,46899257	-43,82299195
Rota 13 - Principal 2,111m	7514768,369	621119,58	-22,46914318	-43,82274504
Rota 13 - Principal 2,111m	7514742,129	621155,222	-22,46937765	-43,82239666
Rota 13 - Principal 2,111m	7514716,244	621194,278	-22,46960868	-43,82201513
Rota 13 - Principal 2,111m	7514707,216	621197,671	-22,46968998	-43,82198147
Rota 13 - Principal 2,111m	7514698,308	621172,802	-22,46977221	-43,82222247
Rota 13 - Principal 2,111m	7514691,039	621135,152	-22,46984053	-43,82258781
Rota 13 - Principal 2,111m	7514674,231	621092,284	-22,46999538	-43,82300313
Rota 13 - Centro 132m	7514707,456	621197,554	-22,46968782	-43,82198263
Rota 13 - Centro 132m	7514716,705	621209,505	-22,46960344	-43,82186719
Rota 13 - Centro 132m	7514731,464	621225,245	-22,46946901	-43,82171535
Rota 13 - Centro 132m	7514748,356	621241,403	-22,4693153	-43,82155962
Rota 13 - Centro 132m	7514754,622	621252,676	-22,4692579	-43,82145054
Rota 13 - Centro 132m	7514754,501	621260,134	-22,46925847	-43,82137805
Rota 13 - Centro 132m	7514755,679	621272,228	-22,46924696	-43,82126061
Rota 13 - Centro 132m	7514762,687	621290,298	-22,46918238	-43,82108554
Rota 13 - Centro 132m	7514771,271	621308,106	-22,46910359	-43,82091313
Rota 13 - Centro 34m	7514754,155	621253,139	-22,46926209	-43,821446
Rota 13 - Centro 34m	7514766,488	621256,024	-22,46915049	-43,82141891
Rota 13 - Centro 34m	7514786,714	621263,043	-22,46896731	-43,82135225
Rota 13 - Santa Casa 104m	7514707,456	621197,554	-22,46968782	-43,82198263
Rota 13 - Santa Casa 104m	7514700,787	621210,701	-22,46974713	-43,82185434
Rota 13 - Santa Casa 104m	7514688,49	621221,479	-22,46985743	-43,82174867
Rota 13 - Santa Casa 104m	7514667,844	621232,744	-22,47004311	-43,82163762
Rota 13 - Santa Casa 104m	7514636,325	621251,293	-22,47032647	-43,82145494
Rota 13 - Centro 8,560m	7514842,026	620947,811	-22,46849008	-43,82441994
Rota 13 - Centro 8,560m	7514842,884	620941,516	-22,46848278	-43,82448118
Rota 13 - Centro 8,560m	7514842,286	620933,612	-22,46848874	-43,82455795
Rota 13 - Centro 8,560m	7514837,287	620926,021	-22,46853442	-43,82463134
Rota 13 - Centro 8,560m	7514831,719	620925,167	-22,46858478	-43,82463922
Rota 13 - Centro 8,560m	7514823,454	620925,095	-22,46865943	-43,82463929
Rota 13 - Centro 8,560m	7514770,311	620923,176	-22,46913956	-43,82465389
Rota 13 - Centro 8,560m	7514765,414	620917,742	-22,46918418	-43,82470632
Rota 13 - Centro 8,560m	7514767,881	620909,609	-22,46916247	-43,82478555
Rota 13 - Centro 8,560m	7514778,54	620901,444	-22,46906678	-43,8248657
Rota 13 - Centro 8,560m	7514790,665	620889,992	-22,46895807	-43,82497793
Rota 13 - Centro 8,560m	7514803,729	620876,705	-22,46884102	-43,82510804

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 13 - Centro 8,560m	7514807,384	620868,729	-22,46880857	-43,82518584
Rota 13 - Centro 8,560m	7514805,617	620864,245	-22,46882485	-43,82522928
Rota 13 - Centro 8,560m	7514794,76	620851,315	-22,46892382	-43,82535411
Rota 13 - Centro 8,560m	7514789,792	620842,054	-22,46896935	-43,82544373
Rota 13 - Centro 8,560m	7514790,669	620835,574	-22,46896188	-43,82550677
Rota 13 - Centro 8,560m	7514799,384	620824,495	-22,46888396	-43,8256151
Rota 13 - Centro 8,560m	7514810,418	620816,408	-22,46878487	-43,82569453
Rota 13 - Centro 8,560m	7514831,137	620808,774	-22,46859827	-43,8257703
Rota 13 - Centro 8,560m	7514852,145	620800,545	-22,4684091	-43,82585186
Rota 13 - Centro 8,560m	7514870,05	620794,041	-22,46824784	-43,82591644
Rota 13 - Centro 8,560m	7514883,278	620785,79	-22,46812895	-43,82599763
Rota 13 - Centro 8,560m	7514922,702	620759,397	-22,46777474	-43,82625712
Rota 13 - Centro 8,560m	7514938,523	620756,657	-22,46763203	-43,82628495
Rota 13 - Centro 8,560m	7514949,725	620751,839	-22,46753119	-43,82633262
Rota 13 - Centro 8,560m	7514955,369	620744,125	-22,46748076	-43,82640802
Rota 13 - Centro 8,560m	7514961,761	620736,481	-22,46742357	-43,82648279
Rota 13 - Centro 8,560m	7514975,409	620726,757	-22,46730099	-43,82657832
Rota 13 - Centro 8,560m	7515018,581	620702,896	-22,46691274	-43,82681349
Rota 13 - Centro 8,560m	7515066,284	620681,998	-22,46648335	-43,82702021
Rota 13 - Centro 8,560m	7515095,486	620676,495	-22,46621998	-43,82707591
Rota 13 - Centro 8,560m	7515102,792	620681,589	-22,46615364	-43,82702696
Rota 13 - Centro 8,560m	7515111,555	620697,337	-22,46607337	-43,82687459
Rota 13 - Centro 8,560m	7515114,684	620710,081	-22,46604421	-43,82675098
Rota 13 - Centro 8,560m	7515107,899	620713,738	-22,46610524	-43,82671492
Rota 13 - Centro 8,560m	7515094,82	620719,485	-22,46622297	-43,82665808
Rota 13 - Centro 8,560m	7515085,361	620724,793	-22,46630802	-43,82660578
Rota 13 - Centro 8,560m	7515011,195	620764,895	-22,46697507	-43,82621042
Rota 13 - Centro 8,560m	7514950,935	620797,922	-22,46751701	-43,82588488
Rota 13 - Centro 8,560m	7514879,512	620837,099	-22,46815933	-43,82549871
Rota 13 - Centro 8,560m	7514812,544	620871,156	-22,46876179	-43,82516265
Rota 13 - Centro 8,560m	7514845,236	620913,009	-22,46846355	-43,82475839
Rota 13 - Centro 8,560m	7514860,324	620925,395	-22,46832639	-43,82463918
Rota 13 - Centro 8,560m	7514876,441	620926,094	-22,46818077	-43,82463362
Rota 13 - Centro 8,560m	7514901,387	620908,185	-22,46795672	-43,82480956
Rota 13 - Centro 8,560m	7515016,313	620846,224	-22,46692308	-43,82542045
Rota 13 - Centro 8,560m	7515154,456	620776,538	-22,46568029	-43,82610817
Rota 13 - Centro 8,560m	7515182,51	620835,875	-22,4654227	-43,82553368
Rota 13 - Centro 8,560m	7515010,689	620925,445	-22,46696827	-43,82465015
Rota 13 - Centro 8,560m	7515014,493	620934,921	-22,46693324	-43,82455835
Rota 13 - Centro 8,560m	7515040,533	620946,711	-22,46669721	-43,82444576
Rota 13 - Centro 8,560m	7515087,646	620965,507	-22,46627035	-43,8242667
Rota 13 - Centro 8,560m	7515114,36	620979,093	-22,4660281	-43,8241367
Rota 13 - Centro 8,560m	7515124,186	620980,343	-22,46593926	-43,8241253



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DE MAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 13 - Centro 8,560m	7515221,409	620910,015	-22,46506611	-43,82481615
Rota 13 - Centro 8,560m	7515284,563	621033,32	-22,46448696	-43,8236227
Rota 13 - Centro 8,560m	7515188,827	621085,447	-22,46534797	-43,82310884
Rota 13 - Centro 8,560m	7515195,921	621106,381	-22,46528241	-43,82290594
Rota 13 - Centro 8,560m	7515213,236	621162,032	-22,46512207	-43,82236644
Rota 13 - Centro 8,560m	7515235,036	621221,95	-22,46492092	-43,82178584
Rota 13 - Centro 8,560m	7515241,722	621231,253	-22,46485987	-43,82169594
Rota 13 - Centro 8,560m	7515268,658	621280,938	-22,46461305	-43,82121517
Rota 13 - Centro 8,560m	7515298,748	621322,13	-22,46433835	-43,82081717
Rota 13 - Centro 8,560m	7515335,832	621365,603	-22,46400032	-43,82039754
Rota 13 - Centro 8,560m	7515373,581	621401,81	-22,46365678	-43,82004857
Rota 13 - Centro 8,560m	7515427,525	621449,188	-22,46316619	-43,81959228
Rota 13 - Centro 8,560m	7515538,245	621541,829	-22,46215956	-43,8187005
Rota 13 - Centro 8,560m	7515579,628	621574,188	-22,46178348	-43,81838921
Rota 13 - Centro 8,560m	7515608,268	621599,877	-22,46152297	-43,81814177
Rota 13 - Centro 8,560m	7515655,438	621651,159	-22,46109328	-43,81764705
Rota 13 - Centro 8,560m	7515673,915	621682,377	-22,46092417	-43,81734509
Rota 13 - Centro 8,560m	7515692,741	621721,534	-22,46075134	-43,81696602
Rota 13 - Centro 8,560m	7515704,175	621747,372	-22,46064622	-43,81671582
Rota 13 - Centro 8,560m	7515722,283	621736,396	-22,46048345	-43,81682387
Rota 13 - Centro 8,560m	7515770,908	621714,968	-22,4600458	-43,81703582
Rota 13 - Centro 8,560m	7515840,723	621685,071	-22,45941735	-43,8173317
Rota 13 - Centro 8,560m	7515811,887	621631,071	-22,45968164	-43,81785424
Rota 13 - Centro 8,560m	7515785,839	621596,694	-22,45991936	-43,8181863
Rota 13 - Centro 8,560m	7515688,894	621480,915	-22,46080321	-43,81930397
Rota 13 - Centro 8,560m	7515627,998	621527,213	-22,46134994	-43,81884941
Rota 13 - Centro 8,560m	7515594,351	621491,539	-22,46165638	-43,81919349
Rota 13 - Centro 8,560m	7515545,227	621448,661	-22,46210313	-43,81960641
Rota 13 - Centro 8,560m	7515506,815	621413,237	-22,46245259	-43,81994772
Rota 13 - Centro 8,560m	7515470,162	621383,379	-22,46278576	-43,82023506
Rota 13 - Centro 8,560m	7515452,472	621352,469	-22,46294774	-43,82053409
Rota 13 - Centro 8,560m	7515425,25	621300,251	-22,46319732	-43,82103945
Rota 13 - Centro 8,560m	7515356,964	621168,741	-22,46382343	-43,82231222
Rota 13 - Centro 8,560m	7515334,225	621123,351	-22,46403202	-43,82275158
Rota 13 - Centro 8,560m	7515305,985	621069,524	-22,46429091	-43,82327251
Rota 13 - Centro 8,560m	7515264,881	620983,89	-22,46466823	-43,82410155
Rota 13 - Centro 8,560m	7515224,487	620906,525	-22,46503856	-43,8248503
Rota 13 - Centro 8,560m	7515183,14	620826,728	-22,46541766	-43,82562262
Rota 13 - Centro 8,560m	7515156,766	620773,589	-22,46565963	-43,82613701
Rota 13 - Centro 8,560m	7515120,972	620712,022	-22,46598728	-43,82673259
Rota 13 - Centro 8,560m	7515077,236	620734,574	-22,46638072	-43,82651011
Rota 13 - Centro 8,560m	7514988,882	620781,216	-22,46717544	-43,82605012
Rota 13 - Centro 8,560m	7514976,683	620780,988	-22,46728564	-43,82605141

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 13 - Centro 8,560m	7514963,054	620775,156	-22,46740916	-43,82610704
Rota 13 - Centro 8,560m	7514950,315	620760,362	-22,46752526	-43,82624984
Rota 13 - Centro 8,560m	7514933,963	620737,127	-22,4676746	-43,8264744
Rota 13 - Centro 8,560m	7514910,256	620706,949	-22,46789085	-43,82676587
Rota 13 - Centro 8,560m	7514873,77	620654,541	-22,46822411	-43,8272724
Rota 13 - Centro 8,560m	7514873,009	620643,282	-22,46823178	-43,82738176
Rota 13 - Centro 8,560m	7514861,038	620632,731	-22,46834065	-43,82748339
Rota 13 - Centro 8,560m	7514846,665	620628,463	-22,46847077	-43,82752377
Rota 13 - Centro 8,560m	7514833,833	620627,522	-22,46858673	-43,82753195
Rota 13 - Centro 8,560m	7514766,679	620635,053	-22,46919275	-43,82745365
Rota 13 - Centro 8,560m	7514743,507	620637,099	-22,4694019	-43,827432
Rota 13 - Centro 8,560m	7514730,008	620639,19	-22,46952367	-43,82741065
Rota 13 - Centro 8,560m	7514723,129	620645,825	-22,46958534	-43,82734565
Rota 13 - Centro 8,560m	7514716,963	620655,959	-22,46964032	-43,8272467
Rota 13 - Centro 8,560m	7514705,807	620697,052	-22,46973817	-43,8268465
Rota 13 - Centro 8,560m	7514699,365	620714,977	-22,46979508	-43,82667181
Rota 13 - Centro 8,560m	7514697,946	620719,234	-22,4698076	-43,82663033
Rota 13 - Centro 8,560m	7514692,298	620724,903	-22,46985822	-43,82657481
Rota 13 - Centro 8,560m	7514674,949	620723,725	-22,470015	-43,82658494
Rota 13 - Centro 8,560m	7514659,828	620722,546	-22,47015165	-43,82659525
Rota 13 - Centro 8,560m	7514636,093	620718,747	-22,4703663	-43,82663036
Rota 13 - Centro 8,560m	7514622,199	620715,554	-22,47049202	-43,82666033
Rota 13 - Centro 8,560m	7514616,145	620720,548	-22,47054635	-43,82661134
Rota 13 - Centro 8,560m	7514611,436	620731,32	-22,47058812	-43,82650629
Rota 13 - Centro 8,560m	7514605,745	620748,454	-22,47063831	-43,82633934
Rota 13 - Centro 8,560m	7514600,127	620764,036	-22,47068795	-43,82618749
Rota 13 - Centro 8,560m	7514596,517	620775,789	-22,47071973	-43,82607299
Rota 13 - Centro 8,560m	7514593,92	620784,115	-22,47074259	-43,82599188
Rota 13 - Centro 8,560m	7514583,155	620815,145	-22,47083763	-43,8256895
Rota 13 - Centro 8,560m	7514578,182	620826,295	-22,47088176	-43,82558076
Rota 13 - Centro 8,560m	7514572,899	620839,864	-22,47092851	-43,8254485
Rota 13 - Centro 8,560m	7514567,634	620855,496	-22,47097496	-43,82529617
Rota 13 - Centro 8,560m	7514563,769	620870,458	-22,47100881	-43,82515048
Rota 13 - Centro 8,560m	7514560,954	620881,183	-22,47103348	-43,82504603
Rota 13 - Centro 8,560m	7514558,847	620889,122	-22,47105194	-43,82496872
Rota 13 - Centro 8,560m	7514563,954	620898,399	-22,47100516	-43,82487895
Rota 13 - Centro 8,560m	7514596,868	620908,619	-22,47070715	-43,82478213
Rota 13 - Centro 8,560m	7514615,281	620910,001	-22,47054075	-43,82477011
Rota 13 - Centro 8,560m	7514626,939	620904,396	-22,47043585	-43,82482546
Rota 13 - Centro 8,560m	7514632,628	620883,668	-22,47038593	-43,82502734
Rota 13 - Centro 8,560m	7514639,171	620862,2	-22,47032835	-43,82523648
Rota 13 - Centro 8,560m	7514645,714	620840,572	-22,47027079	-43,82544716
Rota 13 - Centro 8,560m	7514655,464	620826,39	-22,47018373	-43,82558573

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DE MAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 13 - Centro 8,560m	7514686,305	620794,606	-22,46990742	-43,82589696
Rota 13 - Centro 8,560m	7514750,13	620743,463	-22,46933456	-43,82639884
Rota 13 - Centro 8,560m	7514809,774	620694,592	-22,4687993	-43,82687832
Rota 13 - Centro 8,560m	7514851,088	620654,362	-22,46842899	-43,82727242
Rota 13 - Centro 8,560m	7514852,991	620641,694	-22,4684127	-43,82739567
Rota 13 - Centro 8,560m	7514851,537	620621,527	-22,46842726	-43,82759155
Rota 13 - Centro 8,560m	7514845,949	620553,904	-22,4684825	-43,8282483
Rota 13 - Centro 8,560m	7514843,359	620526,549	-22,46850783	-43,82851394
Rota 13 - Centro 8,560m	7514826,68	620415,597	-22,4686663	-43,82959092
Rota 13 - Centro 8,560m	7514821,26	620390,157	-22,46871705	-43,82983775
Rota 13 - Centro 8,560m	7514820,722	620375,622	-22,46872293	-43,82997896
Rota 13 - Centro 8,560m	7514829,049	620371,403	-22,46864802	-43,83002059
Rota 13 - Centro 8,560m	7514855,698	620383,624	-22,46840646	-43,82990385
Rota 13 - Centro 8,560m	7514891,468	620398,781	-22,46808231	-43,82975926
Rota 13 - Centro 8,560m	7514957,46	620418,826	-22,46748485	-43,82956947
Rota 13 - Centro 8,560m	7515027,669	620442,192	-22,46684906	-43,82934773
Rota 13 - Centro 8,560m	7515077,253	620459,783	-22,46639997	-43,82918053
Rota 13 - Centro 8,560m	7515105,8	620475,753	-22,46614101	-43,82902751
Rota 13 - Centro 8,560m	7515210,662	620537,53	-22,46518951	-43,82843512
Rota 13 - Centro 8,560m	7515251,694	620573,462	-22,46481637	-43,82808905
Rota 13 - Centro 8,560m	7515288,518	620623,432	-22,46448024	-43,82760624
Rota 13 - Centro 8,560m	7515319,89	620659,244	-22,46419435	-43,82726061
Rota 13 - Centro 8,560m	7515438,63	620766,304	-22,46311431	-43,82622925
Rota 13 - Centro 8,560m	7515503,491	620826,101	-22,46252425	-43,82565309
Rota 13 - Centro 8,560m	7515535,468	620866,058	-22,4622326	-43,82526724
Rota 13 - Centro 8,560m	7515553,231	620895,592	-22,46207007	-43,82498159
Rota 13 - Centro 8,560m	7515559,211	620920,814	-22,46201428	-43,82473694
Rota 13 - Centro 8,560m	7515565,419	620966,742	-22,46195495	-43,8242911
Rota 13 - Centro 8,560m	7515572,119	621003,244	-22,46189185	-43,8239369
Rota 13 - Centro 8,560m	7515584,183	621037,623	-22,46178045	-43,82360373
Rota 13 - Centro 8,560m	7515612,712	621082,618	-22,46151958	-43,82316866
Rota 13 - Centro 8,560m	7515652,553	621116,196	-22,46115735	-43,8228454
Rota 13 - Centro 8,560m	7515697,271	621159,634	-22,46075037	-43,82242669
Rota 13 - Centro 8,560m	7515764,501	621209,755	-22,46013958	-43,82194477
Rota 13 - Centro 8,560m	7515827,266	621254,332	-22,45956952	-43,82151639
Rota 13 - Centro 8,560m	7515884,343	621322,405	-22,45904916	-43,82085924
Rota 13 - Centro 8,560m	7515945,848	621398,933	-22,4584882	-43,82012028
Rota 13 - Centro 8,560m	7516001,031	621472,553	-22,45798455	-43,81940912
Rota 13 - Centro 8,560m	7516060,029	621566,658	-22,45744497	-43,81849918
Rota 13 - Centro 8,560m	7516078,215	621629,386	-22,45727625	-43,81789101
Rota 13 - Centro 8,560m	7516081,201	621658,268	-22,45724722	-43,81761058
Rota 13 - Centro 8,560m	7516086,2	621717,654	-22,45719784	-43,8170339
Rota 13 - Centro 8,560m	7516091,228	621775,271	-22,45714833	-43,81647439

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DE MAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 13 - Centro 8,560m	7516095,501	621813,448	-22,45710701	-43,81610375
Rota 13 - Centro 8,560m	7516105,121	621883,069	-22,45701516	-43,81542795
Rota 13 - Centro 8,560m	7516106,549	621916,737	-22,45699985	-43,8151009
Rota 13 - Centro 8,560m	7516119,376	621982,429	-22,45687931	-43,81446354
Rota 13 - Centro 8,560m	7516140,666	622026,582	-22,45668386	-43,81403612
Rota 13 - Centro 8,560m	7516174,207	622094,597	-22,45637606	-43,81337778
Rota 13 - Centro 8,560m	7516204,557	622150,472	-22,45609794	-43,81283716
Rota 13 - Centro 8,560m	7516223,472	622173,54	-22,45592544	-43,81261446
Rota 13 - Centro 8,560m	7516263,171	622189,82	-22,45556571	-43,81245931
Rota 13 - Centro 8,560m	7516368,096	622227,214	-22,45461534	-43,81210402
Rota 13 - Centro 8,560m	7516394,405	622234,807	-22,45437718	-43,81203226
Rota 13 - Centro 90,5m	7514770,483	620923,184	-22,469138	-43,82465382
Rota 13 - Centro 90,5m	7514755,9	620923,691	-22,46926969	-43,82464778
Rota 13 - Centro 90,5m	7514749,449	620924,544	-22,46932789	-43,824639
Rota 13 - Centro 90,5m	7514738,087	620924,671	-22,46943051	-43,8246369
Rota 13 - Centro 90,5m	7514728,911	620924,029	-22,46951343	-43,82464244
Rota 13 - Centro 90,5m	7514720,679	620922,101	-22,46958792	-43,82466055
Rota 13 - Centro 90,5m	7514718,679	620915,146	-22,46960648	-43,82472798
Rota 13 - Centro 90,5m	7514719,273	620906,869	-22,4696017	-43,82480847
Rota 13 - Centro 90,5m	7514723,408	620894,758	-22,46956521	-43,82492648
Rota 13 - Centro 90,5m	7514730,699	620885,154	-22,46950003	-43,82502037
Rota 13 - Centro 24,4m	7515189,255	621085,269	-22,46534411	-43,8231106
Rota 13 - Centro 24,4m	7515179,186	621063,039	-22,46543663	-43,82332586
Rota 13 - Vila Helena 3,190m	7515703,942	621747,284	-22,46064834	-43,81671666
Rota 13 - Vila Helena 3,190m	7515735,067	621811,233	-22,46036265	-43,81609762
Rota 13 - Vila Helena 3,190m	7515766,299	621877,786	-22,46007581	-43,81545329
Rota 13 - Vila Helena 3,190m	7515799,914	621953,679	-22,45976678	-43,81471837
Rota 13 - Vila Helena 3,190m	7515841,558	622044,126	-22,45938418	-43,81384265
Rota 13 - Vila Helena 3,190m	7515869,893	622103,97	-22,45912399	-43,81326329
Rota 13 - Vila Helena 3,190m	7515944,641	622265,212	-22,45843732	-43,81170219
Rota 13 - Vila Helena 3,190m	7516014,252	622421,858	-22,45779737	-43,81018536
Rota 13 - Vila Helena 3,190m	7516065,13	622531,588	-22,45732997	-43,80912301
Rota 13 - Vila Helena 3,190m	7516094,688	622645,705	-22,45705481	-43,80801637
Rota 13 - Vila Helena 3,190m	7516149,898	622824,198	-22,45654332	-43,80628617
Rota 13 - Vila Helena 3,190m	7516167,255	622867,915	-22,45638341	-43,80586271
Rota 13 - Vila Helena 3,190m	7516173,963	622943,509	-22,45631738	-43,80512866
Rota 13 - Vila Helena 3,190m	7516174,496	623011,953	-22,45630765	-43,80446361
Rota 13 - Vila Helena 3,190m	7516177,112	623083,209	-22,45627888	-43,8037714
Rota 13 - Vila Helena 3,190m	7516194,265	623165,391	-22,45611803	-43,80297415
Rota 13 - Vila Helena 3,190m	7516226,143	623240,366	-22,4558247	-43,80224808
Rota 13 - Vila Helena 3,190m	7516282,549	623326,774	-22,45530901	-43,80141281
Rota 13 - Vila Helena 3,190m	7516347,345	623406,877	-22,45471798	-43,80063947
Rota 13 - Vila Helena 3,190m	7516439,013	623481,634	-22,45388463	-43,79992018

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 13 - Vila Helena 3,190m	7516486,833	623532,586	-22,45344903	-43,79942879
Rota 13 - Vila Helena 3,190m	7516526,097	623598,11	-22,45308966	-43,79879516
Rota 13 - Vila Helena 3,190m	7516549,696	623643,266	-22,45287324	-43,79835821
Rota 13 - Vila Helena 3,190m	7516604,437	623712,743	-22,45237379	-43,79768737
Rota 13 - Vila Helena 3,190m	7516668,609	623801,726	-22,45178774	-43,79682773
Rota 13 - Vila Helena 3,190m	7516754,94	623916,575	-22,45099967	-43,79571848
Rota 13 - Vila Helena 3,190m	7516860,092	624063,998	-22,45003923	-43,79429422
Rota 13 - Vila Helena 3,190m	7516954,465	624203,971	-22,44917668	-43,7929415
Rota 13 - Vila Helena 3,190m	7517057,414	624351,72	-22,4482361	-43,79151394
Rota 13 - Vila Helena 3,190m	7517109,439	624419,775	-22,44776125	-43,79085674
Rota 13 - Vila Helena 3,190m	7517153,568	624500,918	-22,44735677	-43,79007177
Rota 13 - Vila Helena 3,190m	7517153,568	624500,918	-22,44735677	-43,79007177
Rota 13 - Centro 141m	7515357,399	621169,966	-22,46381941	-43,82230035
Rota 13 - Centro 141m	7515425,636	621137,886	-22,46320535	-43,82261731
Rota 13 - Centro 141m	7515455,972	621195,508	-22,46292727	-43,82205966
Rota 13 - Maria de Nazarã© 493m	7515531,819	620861,589	-22,46226587	-43,82531038
Rota 13 - Maria de Nazarã© 493m	7515558,608	620847,921	-22,46202488	-43,82544524
Rota 13 - Maria de Nazarã© 493m	7515611,287	620822,498	-22,46155087	-43,82569631
Rota 13 - Maria de Nazarã© 493m	7515633,767	620802,896	-22,46134921	-43,82588851
Rota 13 - Maria de Nazarã© 493m	7515649,011	620789,863	-22,46121245	-43,82601631
Rota 13 - Maria de Nazarã© 493m	7515766,745	620721,585	-22,46015389	-43,82668877
Rota 13 - Maria de Nazarã© 493m	7515834,897	620684,98	-22,45954092	-43,82704967
Rota 13 - Maria de Nazarã© 493m	7515884,911	620653,864	-22,45909138	-43,82735584
Rota 13 - Maria de Nazarã© 493m	7515947,148	620621,39	-22,45853154	-43,82767613
Rota 13 - Maria de Nazarã© 493m	7515955,537	620630,128	-22,45845515	-43,82759185
Rota 13 - Centro 224m	7516394,814	622235,226	-22,45437345	-43,81202822
Rota 13 - Centro 224m	7516418,18	622253,681	-22,45416109	-43,81185069
Rota 13 - Centro 224m	7516430,892	622273,837	-22,45404483	-43,81165582
Rota 13 - Centro 224m	7516443,179	622281,343	-22,45393332	-43,81158383
Rota 13 - Centro 224m	7516461,095	622282,85	-22,45377139	-43,81157056
Rota 13 - Centro 224m	7516472,828	622276,453	-22,45366588	-43,81163363
Rota 13 - Centro 224m	7516479,962	622257,572	-22,45360279	-43,81181764
Rota 13 - Centro 224m	7516477,474	622248,414	-22,45362592	-43,81190644
Rota 13 - Centro 224m	7516468,941	622235,153	-22,45370394	-43,81203464
Rota 13 - Centro 224m	7516460,461	622228,963	-22,45378097	-43,81209414
Rota 13 - Centro 224m	7516449,577	622227,767	-22,45387936	-43,81210492
Rota 13 - Centro 224m	7516439,477	622231,149	-22,45397034	-43,81207128
Rota 13 - Centro 224m	7516429,68	622234,472	-22,4540586	-43,81203824
Rota 13 - Centro 224m	7516418,206	622239,455	-22,45416188	-43,81198893
Rota 13 - Centro 224m	7516394,814	622235,226	-22,45437345	-43,81202822

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 14 - Centro 289m	7514693,799	620724,157	-22,46984471	-43,82658217
Rota 14 - Centro 289m	7514614,416	620717,759	-22,47056217	-43,82663831
Rota 14 - Centro 255m	7514614,388	620718,23	-22,47056238	-43,82663373
Rota 14 - Centro 255m	7514550,791	620895,277	-22,47112427	-43,82490829
Rota 14 - Centro 255m	7514612,886	620921,202	-22,47056158	-43,82466107
Rota 14 - Centro 1,488m	7514475,407	620701,94	-22,47181883	-43,82678147
Rota 14 - Centro 1,488m	7514451,412	620698,703	-22,47203578	-43,8268111
Rota 14 - Centro 1,488m	7514379,703	620690,791	-22,47268403	-43,82688254
Rota 14 - Centro 1,488m	7514305,688	620660,179	-22,47335471	-43,82717441
Rota 14 - Centro 1,488m	7514202,571	620600,379	-22,47429031	-43,82774774
Rota 14 - Centro 1,488m	7514149,381	620558,944	-22,47477365	-43,82814639
Rota 14 - Centro 1,488m	7514033,58	620449,844	-22,47582728	-43,82919789
Rota 14 - Centro 1,488m	7513892,122	620317,509	-22,47711429	-43,83047329
Rota 14 - Centro 1,488m	7513755,681	620173,371	-22,47835679	-43,83186379
Rota 14 - Centro 1,488m	7513637,749	620046,944	-22,47943088	-43,8330836
Rota 14 - Centro 1,488m	7513538,973	619930,137	-22,48033125	-43,83421137
Rota 14 - Centro 1,488m	7513460,336	619806,638	-22,48105018	-43,83540572
Rota 14 - Centro 1,488m	7513410,206	619719,03	-22,48150911	-43,83625341
Rota 14 - Centro 380m	7514550,791	620895,277	-22,47112427	-43,82490829
Rota 14 - Centro 380m	7514537,729	620892,803	-22,47124243	-43,82493134
Rota 14 - Centro 380m	7514519,09	620885,694	-22,47141127	-43,824999
Rota 14 - Centro 380m	7514505,014	620864,008	-22,47153995	-43,82520869
Rota 14 - Centro 380m	7514497,442	620844,198	-22,47160975	-43,82540063
Rota 14 - Centro 380m	7514490,468	620819,761	-22,47167446	-43,82563759
Rota 14 - Centro 380m	7514484,149	620807,633	-22,4717324	-43,82575497
Rota 14 - Centro 380m	7514464,328	620783,296	-22,47191314	-43,82598998
Rota 14 - Centro 380m	7514453,893	620768,99	-22,47200841	-43,82612822
Rota 14 - Centro 380m	7514456,868	620753,45	-22,47198263	-43,82627946
Rota 14 - Centro 380m	7514466,326	620731,106	-22,47189879	-43,82649733
Rota 14 - Centro 380m	7514475,321	620701,398	-22,47181964	-43,82678673
Rota 14 - Centro 380m	7514539,708	620709,047	-22,47123755	-43,82671729
Rota 14 - Centro 380m	7514614,388	620718,23	-22,47056238	-43,82663373
Rota 14 - Centro 259m	7514611,993	620920,882	-22,47056967	-43,82466412
Rota 14 - Centro 259m	7514624,981	620916,26	-22,47045269	-43,82471002
Rota 14 - Centro 259m	7514665,374	620813,359	-22,47009514	-43,82571312
Rota 14 - Centro 259m	7514768,334	620726,01	-22,46917137	-43,82656984
Rota 14 - Centro 123m	7514861,969	620645,974	-22,4683313	-43,82735476
Rota 14 - Centro 123m	7514767,933	620725,88	-22,469175	-43,82657106
Rota 14 - Centro 99,3m	7514861,447	620645,974	-22,46833601	-43,82735472
Rota 14 - Centro 99,3m	7514878,614	620649,166	-22,46818073	-43,827325
Rota 14 - Centro 99,3m	7514891,726	620647,05	-22,46806246	-43,82734657
Rota 14 - Centro 99,3m	7514898,142	620640,67	-22,46800495	-43,82740905
Rota 14 - Centro 99,3m	7514896,801	620628,967	-22,4680179	-43,82752269

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 14 - Centro 99,3m	7514887,999	620624,147	-22,46809774	-43,82756886
Rota 14 - Centro 99,3m	7514874,336	620626,292	-22,468221	-43,82754698
Rota 14 - Centro 99,3m	7514866,87	620634,286	-22,46828786	-43,82746872
Rota 14 - Centro 99,3m	7514861,447	620645,974	-22,46833601	-43,82735472
Rota 14 - Centro 1,254m	7514767,228	620726,464	-22,46918133	-43,82656534
Rota 14 - Centro 1,254m	7514708,788	620725,484	-22,46970923	-43,82657042
Rota 14 - Centro 1,254m	7514672,54	620724,329	-22,47003672	-43,82657888
Rota 14 - Centro 1,254m	7514618,353	620722,181	-22,47052629	-43,82659563
Rota 14 - Centro 1,254m	7514600,118	620762,776	-22,47068812	-43,82619974
Rota 14 - Centro 1,254m	7514589,739	620792,311	-22,47077978	-43,82591191
Rota 14 - Centro 1,254m	7514576,579	620832,884	-22,47089576	-43,8255166
Rota 14 - Centro 1,254m	7514560,612	620877,679	-22,47103681	-43,82508006
Rota 14 - Centro 1,254m	7514557,894	620890,094	-22,47106048	-43,8249592
Rota 14 - Centro 1,254m	7514562,949	620896,883	-22,47101434	-43,8248936
Rota 14 - Centro 1,254m	7514588,54	620908,547	-22,47078238	-43,8247822
Rota 14 - Centro 1,254m	7514607,543	620914,97	-22,47061028	-43,82472123
Rota 14 - Centro 1,254m	7514617,266	620923,922	-22,47052183	-43,82463497
Rota 14 - Centro 1,254m	7514617,687	620934,885	-22,47051725	-43,82452846
Rota 14 - Centro 1,254m	7514612,922	620948,405	-22,47055934	-43,82439671
Rota 14 - Centro 1,254m	7514595,823	620954,484	-22,47071334	-43,82433633
Rota 14 - Centro 1,254m	7514564,769	620964,196	-22,47099314	-43,82423958
Rota 14 - Centro 1,254m	7514529,5	620981,514	-22,47131046	-43,82406858
Rota 14 - Centro 1,254m	7514501,483	621001,544	-22,4715621	-43,82387178
Rota 14 - Centro 1,254m	7514482,235	621018,571	-22,47173474	-43,82370484
Rota 14 - Centro 1,254m	7514438,124	621059,37	-22,47213026	-43,82330498
Rota 14 - Centro 1,254m	7514423,038	621083,277	-22,47226483	-43,82307149
Rota 14 - Centro 1,254m	7514412,556	621103,511	-22,47235807	-43,82287405
Rota 14 - Centro 1,254m	7514409,291	621123,567	-22,47238613	-43,82267889
Rota 14 - Centro 1,254m	7514394,635	621137,794	-22,4725175	-43,8225395
Rota 14 - Centro 1,254m	7514384,071	621157,189	-22,47261154	-43,82235021
Rota 14 - Centro 1,254m	7514378,257	621176,737	-22,47266267	-43,82215979
Rota 14 - Centro 1,254m	7514374,498	621201,423	-22,47269487	-43,82191959
Rota 14 - Centro 1,254m	7514371,236	621216,689	-22,47272325	-43,82177098
Rota 14 - Centro 1,254m	7514348,077	621282,987	-22,47292771	-43,8211249
Rota 14 - Centro 1,254m	7514394,323	621252,092	-22,4725122	-43,82142868
Rota 14 - Centro 1,254m	7514437,092	621229,353	-22,47212752	-43,82165294
Rota 14 - Centro 1,254m	7514538,814	621169,484	-22,47121301	-43,82224254
Rota 14 - Centro 1,254m	7514638,033	621109,368	-22,47032112	-43,82283433
Rota 14 - Centro 1,254m	7514672,554	621094,976	-22,47001034	-43,82297683
Rota 14 - Nafil 2x 1,305m	7514348,078	621282,475	-22,47292774	-43,82112987
Rota 14 - Nafil 2x 1,305m	7514325,888	621300,957	-22,47312685	-43,82094856
Rota 14 - Nafil 2x 1,305m	7514302,949	621320,004	-22,47333268	-43,8207617
Rota 14 - Nafil 2x 1,305m	7514284,916	621329,828	-22,47349486	-43,82066484

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 14 - Nafil 2x 1,305m	7514262,424	621339,608	-22,47369732	-43,82056808
Rota 14 - Nafil 2x 1,305m	7514245,979	621349,925	-22,47384512	-43,82046655
Rota 14 - Nafil 2x 1,305m	7514225,912	621363,216	-22,47402542	-43,82033585
Rota 14 - Nafil 2x 1,305m	7514212,148	621380,621	-22,4741485	-43,82016565
Rota 14 - Nafil 2x 1,305m	7514198,967	621398,46	-22,47426628	-43,81999126
Rota 14 - Nafil 2x 1,305m	7514181,208	621419,962	-22,47442515	-43,81978094
Rota 14 - Nafil 2x 1,305m	7514135,607	621466,202	-22,47483374	-43,81932806
Rota 14 - Nafil 2x 1,305m	7514111,864	621483,251	-22,47504697	-43,81916055
Rota 14 - Nafil 2x 1,305m	7514088,07	621491,176	-22,47526132	-43,81908171
Rota 14 - Nafil 2x 1,305m	7514059,279	621491,322	-22,47552135	-43,81907809
Rota 14 - Nafil 2x 1,305m	7513971,472	621488,063	-22,47631467	-43,81910303
Rota 14 - Nafil 2x 1,305m	7513938,431	621479,192	-22,47661373	-43,81918672
Rota 14 - Nafil 2x 1,305m	7513906,91	621467,062	-22,47689929	-43,81930219
Rota 14 - Nafil 2x 1,305m	7513834,877	621431,14	-22,47755246	-43,81964579
Rota 14 - Nafil 2x 1,305m	7513802,335	621424,107	-22,47784688	-43,81971165
Rota 14 - Nafil 2x 1,305m	7513763,576	621418,601	-22,47819735	-43,8197622
Rota 14 - Nafil 2x 1,305m	7513733,567	621419,927	-22,4784683	-43,81974701
Rota 14 - Nafil 2x 1,305m	7513683,709	621426,814	-22,47891813	-43,81967627
Rota 14 - Nafil 2x 1,305m	7513637,214	621441,954	-22,47933701	-43,81952556
Rota 14 - Nafil 2x 1,305m	7513620,249	621456,748	-22,47948918	-43,81938048
Rota 14 - Nafil 2x 1,305m	7513596	621481,304	-22,47970645	-43,81913996
Rota 14 - Nafil 2x 1,305m	7513576,612	621508,689	-22,47987962	-43,81887232
Rota 14 - Nafil 2x 1,305m	7513567,608	621539,689	-22,47995873	-43,81857035
Rota 14 - Nafil 2x 1,305m	7513556,518	621572,867	-22,48005654	-43,81824704
Rota 14 - Nafil 2x 1,305m	7513533,103	621593,165	-22,48026658	-43,81804798
Rota 14 - Nafil 2x 1,305m	7513500,215	621605,604	-22,48056274	-43,81792456
Rota 14 - Nafil 2x 1,305m	7513456,783	621609,67	-22,48095473	-43,81788171
Rota 14 - Nafil 2x 1,305m	7513376,069	621608,291	-22,48168385	-43,81788892
Rota 14 - Nafil 2x 1,305m	7513332,223	621600,516	-22,48208042	-43,81796112
Rota 14 - Nafil 2x 1,305m	7513284,636	621588,126	-22,48251112	-43,81807789
Rota 14 - Nafil 2x 1,305m	7513229,173	621573,084	-22,48301314	-43,81821984
Rota 14 - Nafil 792m	7513229,146	621573,083	-22,48301338	-43,81821984
Rota 14 - Nafil 792m	7513140,054	621528,586	-22,48382124	-43,81864549
Rota 14 - Nafil 792m	7513062,298	621495,098	-22,48452592	-43,81896501
Rota 14 - Nafil 792m	7513029,106	621486,999	-22,48482629	-43,81904118
Rota 14 - Nafil 792m	7512995,854	621488,839	-22,4851265	-43,81902075
Rota 14 - Nafil 792m	7512955,784	621505,036	-22,48548726	-43,81886026
Rota 14 - Nafil 792m	7512924,456	621531,02	-22,48576837	-43,81860531
Rota 14 - Nafil 792m	7512897,789	621560,581	-22,48600712	-43,81831595
Rota 14 - Nafil 792m	7512877,653	621581,269	-22,48618751	-43,81811334
Rota 14 - Nafil 792m	7512865,307	621593,624	-22,48629814	-43,8179923
Rota 14 - Nafil 792m	7512869,533	621601,919	-22,48625939	-43,817912
Rota 14 - Nafil 792m	7512890,777	621604,109	-22,48606735	-43,81789235



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 14 - Nafil 792m	7512989,272	621595,642	-22,48517833	-43,81798219
Rota 14 - Nafil 792m	7513084,122	621588,539	-22,48432215	-43,8180585
Rota 14 - Nafil 792m	7513229,146	621573,083	-22,48301338	-43,81821984
Rota 14 - Tabarino 280m	7514672,439	621095,147	-22,47001137	-43,82297517
Rota 14 - Tabarino 280m	7514681,026	621085,144	-22,46993452	-43,82307303
Rota 14 - Tabarino 280m	7514685,948	621068,853	-22,46989122	-43,82323173
Rota 14 - Tabarino 280m	7514689,347	621048,768	-22,46986194	-43,82342718
Rota 14 - Tabarino 280m	7514693,76	621023,264	-22,46982389	-43,82367537
Rota 14 - Tabarino 280m	7514695,45	620999,218	-22,46981033	-43,82390919
Rota 14 - Tabarino 280m	7514697,671	620974,968	-22,46979198	-43,82414502
Rota 14 - Tabarino 280m	7514704,446	620963,44	-22,46973161	-43,82425757
Rota 14 - Tabarino 280m	7514718,539	620949,12	-22,46960533	-43,82439781
Rota 14 - Tabarino 280m	7514739,627	620944,292	-22,46941521	-43,82444634
Rota 14 - Tabarino 280m	7514767,868	620945,525	-22,46916004	-43,82443651
Rota 14 - Tabarino 280m	7514821,41	620947,57	-22,4686763	-43,82442071
Rota 14 - Tabarino 280m	7514839,471	620947,174	-22,4685132	-43,82442594
Rota 14 - Centro 433m	7514839,43	620947,666	-22,46851353	-43,82442116
Rota 14 - Centro 433m	7514850,632	620962,503	-22,4684113	-43,82427782
Rota 14 - Centro 433m	7514861,002	620983,319	-22,46831616	-43,82407632
Rota 14 - Centro 433m	7514871,908	621000,514	-22,46821644	-43,82391005
Rota 14 - Centro 433m	7514864,823	621010,766	-22,46827971	-43,82380987
Rota 14 - Centro 433m	7514851,683	621023,481	-22,46839749	-43,82368531
Rota 14 - Centro 433m	7514828,328	621049,047	-22,46860662	-43,82343507
Rota 14 - Centro 433m	7514808,009	621073,485	-22,46878842	-43,82319603
Rota 14 - Centro 433m	7514792,506	621092,443	-22,4689271	-43,82301061
Rota 14 - Centro 433m	7514770,318	621113,153	-22,46912604	-43,82280765
Rota 14 - Centro 433m	7514755,794	621136,632	-22,46925555	-43,82257837
Rota 14 - Centro 433m	7514748,388	621144,824	-22,46932186	-43,82249819
Rota 14 - Centro 433m	7514736,354	621162,418	-22,4694293	-43,82232629
Rota 14 - Centro 433m	7514723,822	621182,823	-22,46954105	-43,82212704
Rota 14 - Centro 433m	7514717,016	621195,993	-22,46960159	-43,82199852
Rota 14 - Centro 433m	7514709,114	621198,983	-22,46967274	-43,82196886
Rota 14 - Centro 433m	7514703,006	621183,764	-22,469729	-43,8221163
Rota 14 - Centro 433m	7514688,516	621129,044	-22,46986375	-43,82264698
Rota 14 - Centro 433m	7514672,865	621094,401	-22,47000757	-43,82298245
Rota 14 - Centro 113m	7514709,264	621198,806	-22,4696714	-43,8219706
Rota 14 - Centro 113m	7514692,171	621215,914	-22,46982457	-43,82180303
Rota 14 - Centro 113m	7514666,984	621233,318	-22,47005083	-43,82163197
Rota 14 - Centro 113m	7514643,178	621248,558	-22,47026477	-43,82148204
Rota 14 - Centro 113m	7514632,256	621265,379	-22,47036222	-43,82131774
Rota 14 - Centro 113m	7514630,363	621275,051	-22,47037863	-43,8212236
Rota 14 - Principal 8,378m	7514839,202	620947,008	-22,46851564	-43,82442753
Rota 14 - Principal 8,378m	7514848,652	620930,703	-22,46843144	-43,8245867

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 14 - Principal 8,378m	7514838,107	620926,976	-22,46852695	-43,82462212
Rota 14 - Principal 8,378m	7514816,103	620926,271	-22,46872574	-43,82462729
Rota 14 - Principal 8,378m	7514777,701	620924,784	-22,4690727	-43,82463882
Rota 14 - Principal 8,378m	7514768,658	620922,302	-22,46915455	-43,82466225
Rota 14 - Principal 8,378m	7514766,85	620913,219	-22,46917153	-43,82475038
Rota 14 - Principal 8,378m	7514774,122	620902,855	-22,46910658	-43,82485166
Rota 14 - Principal 8,378m	7514787,508	620892,45	-22,46898642	-43,82495379
Rota 14 - Principal 8,378m	7514806,408	620879,069	-22,46881665	-43,82508527
Rota 14 - Principal 8,378m	7514799,103	620855,743	-22,46888428	-43,82531141
Rota 14 - Principal 8,378m	7514788,185	620841,839	-22,46898388	-43,8254457
Rota 14 - Principal 8,378m	7514794,702	620830,221	-22,46892584	-43,8255591
Rota 14 - Principal 8,378m	7514810,875	620820,621	-22,46878044	-43,82565362
Rota 14 - Principal 8,378m	7514839,069	620808,079	-22,46852668	-43,82577766
Rota 14 - Principal 8,378m	7514869,688	620794,024	-22,46825112	-43,82591658
Rota 14 - Principal 8,378m	7514897,071	620777,77	-22,46800493	-43,82607662
Rota 14 - Principal 8,378m	7514927,034	620757,056	-22,46773578	-43,8262802
Rota 14 - Principal 8,378m	7514943,032	620753,022	-22,46759156	-43,82632062
Rota 14 - Principal 8,378m	7514955,183	620739,816	-22,46748275	-43,82644988
Rota 14 - Principal 8,378m	7514966,592	620729,309	-22,46738044	-43,82655286
Rota 14 - Principal 8,378m	7514989,645	620719,838	-22,46717289	-43,82664665
Rota 14 - Principal 8,378m	7515045,878	620692,484	-22,46666692	-43,82691675
Rota 14 - Principal 8,378m	7515085,626	620676,283	-22,46630905	-43,82707722
Rota 14 - Principal 8,378m	7515098,29	620677,393	-22,4661946	-43,82706739
Rota 14 - Principal 8,378m	7515107,699	620688,662	-22,46610882	-43,8269586
Rota 14 - Principal 8,378m	7515115,876	620700,303	-22,46603414	-43,82684609
Rota 14 - Principal 8,378m	7515118,494	620710,513	-22,46600977	-43,82674707
Rota 14 - Principal 8,378m	7515087,948	620721,778	-22,46628487	-43,82663527
Rota 14 - Principal 8,378m	7515053,737	620741,466	-22,46659248	-43,82644134
Rota 14 - Principal 8,378m	7515014,876	620761,708	-22,46694204	-43,82624168
Rota 14 - Principal 8,378m	7514978,107	620779,998	-22,46727285	-43,82606113
Rota 14 - Principal 8,378m	7514946,621	620795,51	-22,46755614	-43,82590799
Rota 14 - Principal 8,378m	7514917,284	620813,045	-22,46781987	-43,82573535
Rota 14 - Principal 8,378m	7514862,556	620840,615	-22,46831223	-43,82546326
Rota 14 - Principal 8,378m	7514823,369	620862,065	-22,46866466	-43,82525182
Rota 14 - Principal 8,378m	7514813,692	620870,38	-22,46875148	-43,82517027
Rota 14 - Principal 8,378m	7514815,288	620879,363	-22,46873642	-43,8250831
Rota 14 - Principal 8,378m	7514825,698	620889,904	-22,46864165	-43,82498145
Rota 14 - Principal 8,378m	7514836,362	620903,674	-22,46854436	-43,82484844
Rota 14 - Principal 8,378m	7514851,383	620918,585	-22,46840763	-43,82470468
Rota 14 - Principal 8,378m	7514872,474	620924,483	-22,46821671	-43,82464897
Rota 14 - Principal 8,378m	7514881,314	620921,773	-22,46813707	-43,82467598
Rota 14 - Principal 8,378m	7514940,352	620891,432	-22,46760597	-43,82497533
Rota 14 - Principal 8,378m	7514991,825	620862,615	-22,46714311	-43,82525929

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 14 - Principal 8,378m	7515061,778	620826,712	-22,46651382	-43,82561354
Rota 14 - Principal 8,378m	7515152,289	620779,591	-22,46569965	-43,82607835
Rota 14 - Principal 8,378m	7515182,277	620835,713	-22,46542482	-43,82553523
Rota 14 - Principal 8,378m	7515003,048	620932,888	-22,46703676	-43,82457723
Rota 14 - Principal 8,378m	7515061,258	620952,023	-22,46650964	-43,82439572
Rota 14 - Principal 8,378m	7515080,678	620963,372	-22,46633343	-43,82428691
Rota 14 - Principal 8,378m	7515112,648	620979,222	-22,46604356	-43,82413532
Rota 14 - Principal 8,378m	7515125,19	620982,831	-22,46593002	-43,8241012
Rota 14 - Principal 8,378m	7515220,48	620913,04	-22,46507429	-43,82478668
Rota 14 - Principal 8,378m	7515287,613	621037,707	-22,4644591	-43,8235803
Rota 14 - Principal 8,378m	7515188,448	621083,257	-22,46535155	-43,82313008
Rota 14 - Principal 8,378m	7515205,128	621144,975	-22,46519652	-43,82253159
Rota 14 - Principal 8,378m	7515222,025	621191,316	-22,46504061	-43,82208254
Rota 14 - Principal 8,378m	7515238,053	621227,074	-22,4648933	-43,82173627
Rota 14 - Principal 8,378m	7515284,913	621301,014	-22,46446481	-43,82102131
Rota 14 - Principal 8,378m	7515320,398	621346,315	-22,46414109	-43,8205838
Rota 14 - Principal 8,378m	7515365,721	621396,368	-22,46372816	-43,82010085
Rota 14 - Principal 8,378m	7515435,54	621460,295	-22,463093	-43,81948497
Rota 14 - Principal 8,378m	7515542,891	621545,935	-22,46211731	-43,81866096
Rota 14 - Principal 8,378m	7515578,411	621574,686	-22,46179444	-43,81838428
Rota 14 - Principal 8,378m	7515631,762	621623,951	-22,46130906	-43,81790963
Rota 14 - Principal 8,378m	7515660,917	621660,014	-22,46104316	-43,81756141
Rota 14 - Principal 8,378m	7515680,928	621689,508	-22,46086032	-43,81727634
Rota 14 - Principal 8,378m	7515699,65	621737,96	-22,46068777	-43,81680693
Rota 14 - Principal 8,378m	7515717,762	621742,862	-22,46052383	-43,81676069
Rota 14 - Principal 8,378m	7515745,778	621727,369	-22,46027189	-43,8169134
Rota 14 - Principal 8,378m	7515801,57	621708,975	-22,45976927	-43,81709642
Rota 14 - Principal 8,378m	7515822,8	621696,174	-22,45957844	-43,81722244
Rota 14 - Principal 8,378m	7515838,728	621685,879	-22,45943531	-43,8173237
Rota 14 - Principal 8,378m	7515823,304	621642,947	-22,45957768	-43,81773971
Rota 14 - Principal 8,378m	7515779,503	621590,218	-22,45997704	-43,81824875
Rota 14 - Principal 8,378m	7515742,244	621541,991	-22,460317	-43,81871454
Rota 14 - Principal 8,378m	7515696,096	621489,076	-22,46073758	-43,81922522
Rota 14 - Principal 8,378m	7515681,765	621488,29	-22,46086708	-43,81923175
Rota 14 - Principal 8,378m	7515650,459	621512,822	-22,46114809	-43,81899097
Rota 14 - Principal 8,378m	7515626,838	621524,669	-22,4613606	-43,81887404
Rota 14 - Principal 8,378m	7515596,227	621492,996	-22,46163934	-43,81917948
Rota 14 - Principal 8,378m	7515530,324	621436,584	-22,46223859	-43,81972263
Rota 14 - Principal 8,378m	7515472,256	621383,344	-22,46276686	-43,82023556
Rota 14 - Principal 8,378m	7515391,105	621227,046	-22,46351092	-43,82174824
Rota 14 - Principal 8,378m	7515323,839	621096,198	-22,46412776	-43,82301465
Rota 14 - Principal 8,378m	7515193,157	620850,205	-22,46532552	-43,82539523
Rota 14 - Principal 8,378m	7515120,69	620714,568	-22,46598965	-43,82670783

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 14 - Principal 8,378m	7514986,939	620783,356	-22,46719285	-43,82602917
Rota 14 - Principal 8,378m	7514954,51	620762,669	-22,46748721	-43,82622774
Rota 14 - Principal 8,378m	7514935,397	620740,041	-22,46766144	-43,82644619
Rota 14 - Principal 8,378m	7514902,073	620690,87	-22,4679659	-43,82692151
Rota 14 - Principal 8,378m	7514851,339	620623,153	-22,46842892	-43,82757573
Rota 14 - Principal 8,378m	7514819,353	620377,792	-22,46873515	-43,82995777
Rota 14 - Principal 8,378m	7514846,83	620378,062	-22,46848695	-43,82995722
Rota 14 - Principal 8,378m	7514870,756	620387,767	-22,46827016	-43,82986472
Rota 14 - Principal 8,378m	7514921,044	620408,28	-22,46781451	-43,82966919
Rota 14 - Principal 8,378m	7514951,51	620418,437	-22,46753862	-43,8295728
Rota 14 - Principal 8,378m	7514989,387	620429,814	-22,4671957	-43,82946511
Rota 14 - Principal 8,378m	7515022,373	620440,016	-22,46689705	-43,82936847
Rota 14 - Principal 8,378m	7515087,914	620462,973	-22,46630345	-43,82915034
Rota 14 - Principal 8,378m	7515147,01	620492,98	-22,46576757	-43,82886322
Rota 14 - Principal 8,378m	7515186,876	620415,982	-22,46541293	-43,82961451
Rota 14 - Principal 8,378m	7515273,817	620261,877	-22,46463852	-43,83111869
Rota 14 - Principal 8,378m	7515286,569	620265,012	-22,46452313	-43,83108919
Rota 14 - Principal 8,378m	7515303,823	620241,996	-22,4643689	-43,83131416
Rota 14 - Principal 8,378m	7515325,69	620198,268	-22,46417447	-43,83174076
Rota 14 - Principal 8,378m	7515253,391	620157,113	-22,46483038	-43,83213523
Rota 14 - Principal 8,378m	7515216,412	620226,761	-22,46515948	-43,83145559
Rota 14 - Principal 8,378m	7515262,089	620251,468	-22,46474518	-43,83121895
Rota 14 - Principal 8,378m	7515293,76	620275,105	-22,46445746	-43,83099165
Rota 14 - Principal 8,378m	7515321,13	620317,955	-22,46420723	-43,83057731
Rota 14 - Principal 8,378m	7515358,07	620388,389	-22,46386862	-43,82989565
Rota 14 - Principal 8,378m	7515392,286	620449,719	-22,46355525	-43,82930224
Rota 14 - Principal 8,378m	7515405,781	620486,241	-22,46343079	-43,82894836
Rota 14 - Principal 8,378m	7515406,735	620512,111	-22,46342035	-43,82869703
Rota 14 - Principal 8,378m	7515409,368	620548,077	-22,46339402	-43,82834772
Rota 14 - Principal 8,378m	7515416,157	620572,976	-22,46333094	-43,82810627
Rota 14 - Principal 8,378m	7515426,206	620605,701	-22,46323788	-43,82778901
Rota 14 - Principal 8,378m	7515437,019	620634,042	-22,46313821	-43,82751443
Rota 14 - Principal 8,378m	7515471,314	620707,056	-22,46282329	-43,8268075
Rota 14 - Principal 8,378m	7515477,622	620730,479	-22,46276466	-43,82658036
Rota 14 - Principal 8,378m	7515481,863	620745,611	-22,46272529	-43,82643363
Rota 14 - Principal 8,378m	7515473,504	620759,738	-22,46279979	-43,82629571
Rota 14 - Principal 8,378m	7515454,025	620775,668	-22,4629746	-43,82613942
Rota 14 - Principal 8,378m	7515506,601	620832,938	-22,46249567	-43,82558689
Rota 14 - Principal 8,378m	7515533,276	620870,792	-22,46225206	-43,82522107
Rota 14 - Principal 8,378m	7515552,14	620907,264	-22,4620791	-43,82486808
Rota 14 - Principal 8,378m	7515562,174	620949,674	-22,46198547	-43,82445671
Rota 14 - Principal 8,378m	7515570,632	620988,863	-22,4619063	-43,82407653
Rota 14 - Principal 8,378m	7515585,563	621040,228	-22,4617678	-43,82357852

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 14 - Principal 8,378m	7515600,611	621067,14	-22,46162998	-43,82331815
Rota 14 - Principal 8,378m	7515634,388	621103,807	-22,4613223	-43,82296441
Rota 14 - Principal 8,378m	7515691,416	621158,588	-22,46080333	-43,82243641
Rota 14 - Principal 8,378m	7515751,314	621206,4	-22,46025893	-43,82197637
Rota 14 - Principal 8,378m	7515818,618	621250,252	-22,45964792	-43,82155537
Rota 14 - Principal 8,378m	7515857,445	621292,799	-22,45929421	-43,82114489
Rota 14 - Principal 8,378m	7515904,54	621347,149	-22,45886498	-43,82062034
Rota 14 - Principal 8,378m	7515989,334	621454,012	-22,45809152	-43,81958839
Rota 14 - Principal 8,378m	7516030,528	621513,434	-22,45771522	-43,81901411
Rota 14 - Principal 8,378m	7516066,191	621578,112	-22,4573885	-43,81838834
Rota 14 - Principal 8,378m	7516071,426	621601,662	-22,45733955	-43,8181599
Rota 14 - Principal 8,378m	7516082,877	621648,898	-22,45723275	-43,81770177
Rota 14 - Principal 8,378m	7516084,839	621685,398	-22,45721243	-43,81734723
Rota 14 - Principal 8,378m	7516097,135	621802,704	-22,45709302	-43,81620828
Rota 14 - Principal 8,378m	7516104,214	621874,612	-22,45702395	-43,81551006
Rota 14 - Principal 8,378m	7516107,589	621932,942	-22,4569893	-43,81494351
Rota 14 - Principal 8,378m	7516115,562	621968,757	-22,45691474	-43,81459609
Rota 14 - Principal 8,378m	7516151,856	622046,047	-22,4565814	-43,81384783
Rota 14 - Principal 8,378m	7516175,161	622096,317	-22,45636732	-43,81336114
Rota 14 - Principal 8,378m	7516192,551	622133,167	-22,45620762	-43,8130044
Rota 14 - Principal 8,378m	7516212,743	622164,387	-22,45602301	-43,81270258
Rota 14 - Principal 8,378m	7516256,014	622184,69	-22,45563073	-43,81250861
Rota 14 - Principal 8,378m	7516311,142	622210,114	-22,45513099	-43,81226581
Rota 14 - Principal 8,378m	7516400,145	622238,828	-22,45432505	-43,81199363
Rota 14 - Baroneza 81,4m	7514768,672	620921,912	-22,46915445	-43,82466604
Rota 14 - Baroneza 81,4m	7514751,593	620923,12	-22,46930863	-43,824653
Rota 14 - Baroneza 81,4m	7514733,892	620924,58	-22,4694684	-43,82463746
Rota 14 - Baroneza 81,4m	7514721,734	620921,912	-22,46957841	-43,82466247
Rota 14 - Baroneza 81,4m	7514719,587	620915,386	-22,46959826	-43,82472572
Rota 14 - Baroneza 81,4m	7514721,065	620903,098	-22,46958578	-43,82484525
Rota 14 - Baroneza 81,4m	7514727,517	620889,829	-22,46952844	-43,8249747
Rota 13 - Vila Helena 3,200m	7515699,872	621738,029	-22,46068576	-43,81680628
Rota 13 - Vila Helena 3,200m	7515735,067	621811,233	-22,46036265	-43,81609762
Rota 13 - Vila Helena 3,200m	7515766,299	621877,786	-22,46007581	-43,81545329
Rota 13 - Vila Helena 3,200m	7515799,914	621953,679	-22,45976678	-43,81471837
Rota 13 - Vila Helena 3,200m	7515841,558	622044,126	-22,45938418	-43,81384265
Rota 13 - Vila Helena 3,200m	7515869,893	622103,97	-22,45912399	-43,81326329
Rota 13 - Vila Helena 3,200m	7515944,641	622265,212	-22,45843732	-43,81170219
Rota 13 - Vila Helena 3,200m	7516014,252	622421,858	-22,45779737	-43,81018536
Rota 13 - Vila Helena 3,200m	7516065,13	622531,588	-22,45732997	-43,80912301
Rota 13 - Vila Helena 3,200m	7516094,688	622645,705	-22,45705481	-43,80801637
Rota 13 - Vila Helena 3,200m	7516149,898	622824,198	-22,45654332	-43,80628617
Rota 13 - Vila Helena 3,200m	7516167,255	622867,915	-22,45638341	-43,80586271

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 13 - Vila Helena 3,200m	7516173,963	622943,509	-22,45631738	-43,80512866
Rota 13 - Vila Helena 3,200m	7516174,496	623011,953	-22,45630765	-43,80446361
Rota 13 - Vila Helena 3,200m	7516177,112	623083,209	-22,45627888	-43,8037714
Rota 13 - Vila Helena 3,200m	7516194,265	623165,391	-22,45611803	-43,80297415
Rota 13 - Vila Helena 3,200m	7516226,143	623240,366	-22,4558247	-43,80224808
Rota 13 - Vila Helena 3,200m	7516282,549	623326,774	-22,45530901	-43,80141281
Rota 13 - Vila Helena 3,200m	7516347,345	623406,877	-22,45471798	-43,80063947
Rota 13 - Vila Helena 3,200m	7516439,013	623481,634	-22,45388463	-43,79992018
Rota 13 - Vila Helena 3,200m	7516486,833	623532,586	-22,45344903	-43,79942879
Rota 13 - Vila Helena 3,200m	7516526,097	623598,11	-22,45308966	-43,79879516
Rota 13 - Vila Helena 3,200m	7516549,696	623643,266	-22,45287324	-43,79835821
Rota 13 - Vila Helena 3,200m	7516604,437	623712,743	-22,45237379	-43,79768737
Rota 13 - Vila Helena 3,200m	7516668,609	623801,726	-22,45178774	-43,79682773
Rota 13 - Vila Helena 3,200m	7516754,94	623916,575	-22,45099967	-43,79571848
Rota 13 - Vila Helena 3,200m	7516860,092	624063,998	-22,45003923	-43,79429422
Rota 13 - Vila Helena 3,200m	7516954,465	624203,971	-22,44917668	-43,7929415
Rota 13 - Vila Helena 3,200m	7517057,414	624351,72	-22,4482361	-43,79151394
Rota 13 - Vila Helena 3,200m	7517109,439	624419,775	-22,44776125	-43,79085674
Rota 13 - Vila Helena 3,200m	7517153,568	624500,918	-22,44735677	-43,79007177
Rota 13 - Vila Helena 3,200m	7517153,568	624500,918	-22,44735677	-43,79007177
Rota 13 - Vila Helena 3,200m	7517173,448	624493,78	-22,44717773	-43,79014268
Rota 14 - Principal 88,8m	7515325,096	620198,359	-22,46417983	-43,83173984
Rota 14 - Principal 88,8m	7515342,549	620207,931	-22,46402152	-43,83164814
Rota 14 - Principal 88,8m	7515361,051	620218,84	-22,46385364	-43,83154352
Rota 14 - Principal 88,8m	7515338,812	620260,703	-22,46405156	-43,83113502
Rota 9 - BR393 Vazador 6,293m	7516400,185	622238,746	-22,45432469	-43,81199443
Rota 9 - BR393 Vazador 6,293m	7516423,628	622268,489	-22,45411083	-43,81170722
Rota 9 - BR393 Vazador 6,293m	7516432,529	622296,937	-22,4540284	-43,81143148
Rota 9 - BR393 Vazador 6,293m	7516442,714	622349,868	-22,45393261	-43,81091793
Rota 9 - BR393 Vazador 6,293m	7516453,367	622423,016	-22,45383115	-43,81020796
Rota 9 - BR393 Vazador 6,293m	7516453,367	622423,016	-22,45383115	-43,81020796
Rota 9 - BR393 Vazador 6,293m	7516464,504	622487,717	-22,45372593	-43,80958011
Rota 9 - BR393 Vazador 6,293m	7516477,271	622571,824	-22,45360459	-43,80876382
Rota 9 - BR393 Vazador 6,293m	7516487,123	622637,695	-22,45351087	-43,80812451
Rota 9 - BR393 Vazador 6,293m	7516500,443	622722,066	-22,4533845	-43,8073057
Rota 9 - BR393 Vazador 6,293m	7516514,191	622826,132	-22,45325286	-43,80629555
Rota 9 - BR393 Vazador 6,293m	7516528,531	622920,332	-22,45311656	-43,80538132
Rota 9 - BR393 Vazador 6,293m	7516541,874	622993,257	-22,4529908	-43,80467374
Rota 9 - BR393 Vazador 6,293m	7516549,953	623027,944	-22,45291533	-43,80433731
Rota 9 - BR393 Vazador 6,293m	7516572,67	623088,984	-22,45270575	-43,80374594
Rota 9 - BR393 Vazador 6,293m	7516635,071	623214,393	-22,4521331	-43,80253218
Rota 9 - BR393 Vazador 6,293m	7516705,279	623352,573	-22,45148901	-43,80119495
Rota 9 - BR393 Vazador 6,293m	7516763,712	623463,014	-22,45095327	-43,80012635

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - BR393 Vazador 6,293m	7516832,105	623596,551	-22,45032589	-43,79883412
Rota 9 - BR393 Vazador 6,293m	7516863,317	623654,822	-22,45003976	-43,79827033
Rota 9 - BR393 Vazador 6,293m	7516917,815	623737,753	-22,44954153	-43,79746876
Rota 9 - BR393 Vazador 6,293m	7516950,895	623780,013	-22,44923968	-43,79706071
Rota 9 - BR393 Vazador 6,293m	7516978,6	623809,13	-22,44898734	-43,79677994
Rota 9 - BR393 Vazador 6,293m	7517089,227	623909,518	-22,44798088	-43,79581313
Rota 9 - BR393 Vazador 6,293m	7517171,129	623984,075	-22,44723572	-43,79509508
Rota 9 - BR393 Vazador 6,293m	7517244,7	624055,57	-22,44656604	-43,79440614
Rota 9 - BR393 Vazador 6,293m	7517313,117	624128,854	-22,44594277	-43,79369942
Rota 9 - BR393 Vazador 6,293m	7517387,217	624206,568	-22,44526785	-43,7929501
Rota 9 - BR393 Vazador 6,293m	7517463,809	624288,573	-22,44457011	-43,7921593
Rota 9 - BR393 Vazador 6,293m	7517466,994	624291,855	-22,44454111	-43,79212766
Rota 9 - BR393 Vazador 6,293m	7517538,063	624366,745	-22,44389376	-43,79140556
Rota 9 - BR393 Vazador 6,293m	7517665,407	624502,443	-22,44273371	-43,79009705
Rota 9 - BR393 Vazador 6,293m	7517745,823	624591,246	-22,44200091	-43,78924052
Rota 9 - BR393 Vazador 6,293m	7517783,207	624634,66	-22,44166009	-43,78882164
Rota 9 - BR393 Vazador 6,293m	7517820,914	624694,094	-22,4413152	-43,78824712
Rota 9 - BR393 Vazador 6,293m	7517848,619	624760,989	-22,44106008	-43,78759934
Rota 9 - BR393 Vazador 6,293m	7517917,204	624924,274	-22,4404287	-43,78601823
Rota 9 - BR393 Vazador 6,293m	7517989,569	625104,78	-22,43976189	-43,78427012
Rota 9 - BR393 Vazador 6,293m	7518023,278	625176,227	-22,4394522	-43,7835786
Rota 9 - BR393 Vazador 6,293m	7518066,327	625241,341	-22,43905861	-43,78294934
Rota 9 - BR393 Vazador 6,293m	7518133,139	625319,122	-22,43844947	-43,78219889
Rota 9 - BR393 Vazador 6,293m	7518191,693	625382,605	-22,43791595	-43,78158671
Rota 9 - BR393 Vazador 6,293m	7518264,551	625458,265	-22,43725235	-43,78085736
Rota 9 - BR393 Vazador 6,293m	7518297,508	625503,964	-22,43695133	-43,78041595
Rota 9 - BR393 Vazador 6,293m	7518328,799	625550,039	-22,43666532	-43,77997077
Rota 9 - BR393 Vazador 6,293m	7518371,17	625625,519	-22,43627709	-43,77924078
Rota 9 - BR393 Vazador 6,293m	7518423,669	625713,81	-22,43579642	-43,77838711
Rota 9 - BR393 Vazador 6,293m	7518486,107	625818,118	-22,43522481	-43,77737862
Rota 9 - BR393 Vazador 6,293m	7518486,107	625818,118	-22,43522481	-43,77737862
Rota 9 - BR393 Vazador 6,293m	7518531,998	625898,444	-22,43480442	-43,77660184
Rota 9 - BR393 Vazador 6,293m	7518586,019	625985,141	-22,43431011	-43,7757638
Rota 9 - BR393 Vazador 6,293m	7518653,681	626097,44	-22,43369071	-43,77467811
Rota 9 - BR393 Vazador 6,293m	7518700,863	626171,752	-22,43325908	-43,77395988
Rota 9 - BR393 Vazador 6,293m	7518769,878	626251,869	-22,43262982	-43,77318698
Rota 9 - BR393 Vazador 6,293m	7518904,378	626392,751	-22,43140462	-43,77182893
Rota 9 - BR393 Vazador 6,293m	7519000,31	626495,965	-22,43053053	-43,7708338
Rota 9 - BR393 Vazador 6,293m	7519129,61	626634,42	-22,42935245	-43,76949896
Rota 9 - BR393 Vazador 6,293m	7519167,892	626671,782	-22,42900393	-43,76913903
Rota 9 - BR393 Vazador 6,293m	7519208,774	626706,139	-22,42863213	-43,7688085
Rota 9 - BR393 Vazador 6,293m	7519262,111	626747,87	-22,42814731	-43,76840733
Rota 9 - BR393 Vazador 6,293m	7519322,615	626794,052	-22,42759741	-43,76796348


## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSU</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 9 - BR393 Vazador 6,293m	7519377,564	626839,241	-22,42709776	-43,76752885
Rota 9 - BR393 Vazador 6,293m	7519440,525	626904,49	-22,42652426	-43,76689997
Rota 9 - BR393 Vazador 6,293m	7519512,464	626987,217	-22,42586837	-43,76610202
Rota 9 - BR393 Vazador 6,293m	7519607,274	627094,996	-22,42500405	-43,76506253
Rota 9 - BR393 Vazador 6,293m	7519693,442	627193,042	-22,42421849	-43,76411691
Rota 9 - BR393 Vazador 6,293m	7519721,911	627225,864	-22,42395892	-43,76380032
Rota 9 - BR393 Vazador 6,293m	7519736,426	627248,172	-22,42382616	-43,76358476
Rota 9 - BR393 Vazador 6,293m	7519749,43	627280,936	-22,42370627	-43,76326751
Rota 9 - BR393 Vazador 6,293m	7519752,967	627306,792	-22,4236724	-43,76301661
Rota 9 - BR393 Vazador 6,293m	7519752,741	627330,7	-22,42367266	-43,76278432
Rota 9 - BR393 Vazador 6,293m	7519748,315	627349,051	-22,42371128	-43,76260569
Rota 9 - BR393 Vazador 6,293m	7519737,652	627379,695	-22,4238053	-43,76230714




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 15 - 10,468m	7514668,217	620279,115	-22,47010718	-43,83090527
Rota 15 - 10,468m	7514599,347	620250,075	-22,47073128	-43,83118227
Rota 15 - 10,468m	7514567,874	620234,251	-22,47101666	-43,83133367
Rota 15 - 10,468m	7514526,865	620219,66	-22,47138808	-43,83147237
Rota 15 - 10,468m	7514482,269	620206,452	-22,47179181	-43,83159735
Rota 15 - 10,468m	7514424,816	620200,673	-22,47231114	-43,83164916
Rota 15 - 10,468m	7514376,813	620189,635	-22,47274549	-43,83175279
Rota 15 - 10,468m	7514339,459	620171,722	-22,47308414	-43,83192405
Rota 15 - 10,468m	7514307,072	620145,986	-22,47337848	-43,83217171
Rota 15 - 10,468m	7514274,679	620130,726	-22,47367213	-43,83231757
Rota 15 - 10,468m	7514250,484	620130,306	-22,47389069	-43,83231981
Rota 15 - 10,468m	7514220,563	620128,522	-22,47416106	-43,83233488
Rota 15 - 10,468m	7514183,352	620125,569	-22,47449737	-43,83236077
Rota 15 - 10,468m	7514140,076	620116,715	-22,47488887	-43,83244354
Rota 15 - 10,468m	7514110,732	620110,456	-22,47515435	-43,83250215
Rota 15 - 10,468m	7514074,319	620092,367	-22,47548451	-43,83267519
Rota 15 - 10,468m	7514026,502	620035,001	-22,47592044	-43,83322909
Rota 15 - 10,468m	7513987,897	619976,771	-22,47627322	-43,83379209
Rota 15 - 10,468m	7513937,828	619907,723	-22,4767303	-43,83445937
Rota 15 - 10,468m	7513905,127	619867,345	-22,4770285	-43,83484932
Rota 15 - 10,468m	7513875,96	619842,14	-22,47729371	-43,83509208
Rota 15 - 10,468m	7513847,801	619831,255	-22,4775488	-43,83519574
Rota 15 - 10,468m	7513812,644	619808,714	-22,47786793	-43,83541215
Rota 15 - 10,468m	7513758,36	619785,039	-22,4783599	-43,83563815
Rota 15 - 10,468m	7513721,964	619763,272	-22,47869016	-43,83584696
Rota 15 - 10,468m	7513692,89	619720,489	-22,47895576	-43,83626057
Rota 15 - 10,468m	7513668,343	619682,297	-22,47918016	-43,8366299
Rota 15 - 10,468m	7513654,453	619638,391	-22,47930869	-43,83705557
Rota 15 - 10,468m	7513642,606	619585,828	-22,47941938	-43,83756553
Rota 15 - 10,468m	7513634,214	619535,879	-22,47949868	-43,83805036
Rota 15 - 10,468m	7513630,406	619516,613	-22,47953442	-43,83823732
Rota 15 - 10,468m	7513596,242	619354,418	-22,47985435	-43,83981111
Rota 15 - 10,468m	7513571,887	619261,811	-22,4800808	-43,84070933
Rota 15 - 10,468m	7513531,447	619090,208	-22,48045804	-43,8423741
Rota 15 - 10,468m	7513523,032	619046,955	-22,48053707	-43,84279386
Rota 15 - 10,468m	7513527,852	618979,428	-22,48049824	-43,84345051
Rota 15 - 10,468m	7513553,632	618900,422	-22,4802709	-43,84422031
Rota 15 - 10,468m	7513595,967	618849,879	-22,47989204	-43,84471472
Rota 15 - 10,468m	7513671,517	618781,377	-22,47921443	-43,84538614
Rota 15 - 10,468m	7513703,204	618735,956	-22,47893139	-43,84582996
Rota 15 - 10,468m	7513731,328	618646,29	-22,4786836	-43,84670353
Rota 15 - 10,468m	7513775,339	618537,171	-22,47829367	-43,84776734
Rota 15 - 10,468m	7513820,017	618411,507	-22,47789885	-43,848992

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 15 - 10,468m	7513882,394	618260,457	-22,47734592	-43,85046469
Rota 15 - 10,468m	7513885,469	618083,54	-22,47733304	-43,85218435
Rota 15 - 10,468m	7513857,773	617875,503	-22,47759494	-43,85420417
Rota 15 - 10,468m	7513829,93	617771,35	-22,47785361	-43,85521436
Rota 15 - 10,468m	7513821,586	617727,623	-22,477932	-43,85563872
Rota 15 - 10,468m	7513863,187	617664,958	-22,47756056	-43,85625085
Rota 15 - 10,468m	7513915,839	617650,876	-22,47708597	-43,85639161
Rota 15 - 10,468m	7513953,938	617676,573	-22,47674008	-43,85614469
Rota 15 - 10,468m	7513979,376	617723,23	-22,4765071	-43,85569313
Rota 15 - 10,468m	7513967,8	617761,873	-22,47660899	-43,8553167
Rota 15 - 10,468m	7513944,327	617799,584	-22,4768184	-43,85494845
Rota 15 - 10,468m	7513864,075	617852,432	-22,47753961	-43,85442887
Rota 15 - 10,468m	7513439,266	618137,46	-22,48135687	-43,85162707
Rota 15 - 10,468m	7513384,915	618166,716	-22,48184575	-43,85133867
Rota 15 - 10,468m	7513334,302	618194,566	-22,48230097	-43,85106423
Rota 15 - 10,468m	7513229,324	618231,325	-22,48324661	-43,85069913
Rota 15 - 10,468m	7513102,222	618271,256	-22,48439185	-43,85030155
Rota 15 - 10,468m	7512961,649	618319,82	-22,48565816	-43,84981904
Rota 15 - 10,468m	7512907,234	618321,285	-22,48614956	-43,84980075
Rota 15 - 10,468m	7512815,918	618317,862	-22,48697457	-43,8498272
Rota 15 - 10,468m	7512749,505	618301,585	-22,48757555	-43,84998045
Rota 15 - 10,468m	7512683,306	618306,885	-22,48817312	-43,84992399
Rota 15 - 10,468m	7512549,067	618302,878	-22,48938586	-43,84995293
Rota 15 - 10,468m	7512478,791	618337,342	-22,49001822	-43,8496127
Rota 15 - 10,468m	7512321,774	618460,488	-22,49142788	-43,84840401
Rota 15 - 10,468m	7512284,117	618496,402	-22,49176551	-43,84805211
Rota 15 - 10,468m	7512296,941	618535,823	-22,49164694	-43,84766991
Rota 15 - 10,468m	7512340,828	618550,392	-22,49124953	-43,84753158
Rota 15 - 10,468m	7512427,584	618574,28	-22,49046428	-43,84730589
Rota 15 - 10,468m	7512467,051	618607,169	-22,49010552	-43,84698917
Rota 15 - 10,468m	7512524,537	618697,106	-22,48958004	-43,84611931
Rota 15 - 10,468m	7512577,248	618797,547	-22,48909695	-43,845147
Rota 15 - 10,468m	7512613,716	618846,368	-22,48876416	-43,84467521
Rota 15 - 10,468m	7512659,346	618906,052	-22,48834786	-43,84409853
Rota 15 - 10,468m	7512719,95	618930,958	-22,48779874	-43,84386099
Rota 15 - 10,468m	7512813,552	618936,675	-22,48695291	-43,84381245
Rota 15 - 10,468m	7512877,988	618959,935	-22,48636929	-43,84359121
Rota 15 - 10,468m	7512908,411	619003,177	-22,48609149	-43,84317321
Rota 15 - 10,468m	7512925,357	619061,739	-22,48593435	-43,84260529
Rota 15 - 10,468m	7512969,264	619098,329	-22,48553522	-43,84225295
Rota 15 - 10,468m	7513007,227	619139,006	-22,48518949	-43,84186045
Rota 15 - 10,468m	7513063,447	619210,815	-22,48467668	-43,84116673
Rota 15 - 10,468m	7513177,392	619303,905	-22,48364101	-43,84027053

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 15 - 10,468m	7513221,868	619373,595	-22,48323441	-43,83959655
Rota 15 - 10,468m	7513252,024	619486,799	-22,48295412	-43,83849857
Rota 15 - 10,468m	7513257,921	619553,099	-22,48289621	-43,83785462
Rota 15 - 10,468m	7513269,093	619597,346	-22,4827922	-43,83742542
Rota 15 - 10,468m	7513293,032	619627,063	-22,4825739	-43,8371384
Rota 15 - 10,468m	7513320,681	619632,875	-22,48232376	-43,837084
Rota 15 - 10,468m	7513402,091	619644,927	-22,48158761	-43,83697301
Rota 15 - 10,468m	7513429,178	619681,221	-22,48134041	-43,83662231
Rota 15 - 10,468m	7513431,347	619718,992	-22,48131817	-43,83625537
Rota 15 - 10,468m	7513431,095	619759,475	-22,4813176	-43,8358619
Rota 15 - 10,468m	7513455,315	619797,052	-22,48109621	-43,83549851
Rota 15 - 10,468m	7513509,158	619885,312	-22,48060369	-43,83464477
Rota 15 - 10,468m	7513608,921	620015,883	-22,47969343	-43,8333833
Rota 15 - 10,468m	7513728,347	620146,412	-22,47860557	-43,83212374
Rota 15 - 10,468m	7513919,167	620333,911	-22,47686885	-43,83031593
Rota 15 - 10,468m	7514124,012	620530,163	-22,47500482	-43,82842417
Rota 15 - 10,468m	7514190,891	620593,904	-22,47439626	-43,82780978
Rota 15 - 10,468m	7514323,781	620664,484	-22,47319099	-43,82713395
Rota 15 - 10,468m	7514365,845	620685,303	-22,47280959	-43,82693482
Rota 15 - 10,468m	7514615,585	620716,826	-22,47055167	-43,82664747
Rota 15 - 10,468m	7514592,892	620789,33	-22,47075151	-43,82594113
Rota 15 - 10,468m	7514662,503	620815,904	-22,47012089	-43,82568817
Rota 15 - 10,468m	7514809,376	620694,241	-22,46880292	-43,8268817
Rota 15 - 10,468m	7514859,649	620652,429	-22,46835181	-43,82729185
Rota 15 - 10,468m	7514870,608	620650,916	-22,46825292	-43,82730739
Rota 15 - 10,468m	7514932,333	620734,802	-22,46768949	-43,82649687
Rota 15 - 10,468m	7514960,779	620778,253	-22,46742948	-43,82607677
Rota 15 - 10,468m	7514952,543	620795,901	-22,46750262	-43,82590464
Rota 15 - 10,468m	7514921,573	620814,64	-22,46778102	-43,82572017
Rota 15 - 10,468m	7514861,816	620844,943	-22,46831862	-43,82542114
Rota 15 - 10,468m	7514813,37	620870,096	-22,4687544	-43,825173
Rota 15 - 10,468m	7514851,461	620917,45	-22,46840701	-43,82471572
Rota 15 - 10,468m	7514865,568	620926,436	-22,46827896	-43,82462946
Rota 15 - 10,468m	7514881,779	620921,576	-22,46813288	-43,82467792
Rota 15 - 10,468m	7515152,123	620782,251	-22,46570096	-43,82605248
Rota 15 - 10,468m	7515117,438	620709,843	-22,46601935	-43,8267535
Rota 15 - 10,468m	7515287,824	620620,479	-22,46448671	-43,82763489
Rota 15 - 10,468m	7515239,536	620564,791	-22,4649268	-43,82817239
Rota 15 - 10,468m	7515222,221	620546,57	-22,46508447	-43,82834814
Rota 15 - 10,468m	7515201,125	620534,064	-22,46527589	-43,82846808
UBS - Oficinas Velhas	7513649,664	619565,139	-22,47935708	-43,83776714
Rota 15 - Cantão 1,015m	7512629,173	618862,408	-22,48862343	-43,84452046
Rota 15 - Cantão 1,015m	7512661,51	618837,164	-22,48833312	-43,84476825

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 15 - Cantão 1,015m	7512725,341	618796,465	-22,48775942	-43,84516862
Rota 15 - Cantão 1,015m	7512767,481	618743,233	-22,48738251	-43,84568916
Rota 15 - Cantão 1,015m	7512801,87	618720,447	-22,48707349	-43,84591321
Rota 15 - Cantão 1,015m	7512859,632	618676,734	-22,48655481	-43,8463424
Rota 15 - Cantão 1,015m	7512920,563	618645,037	-22,48600667	-43,84665505
Rota 15 - Cantão 1,015m	7513001,796	618601,529	-22,48527599	-43,847084
Rota 15 - Cantão 1,015m	7513032,99	618571,334	-22,48499634	-43,84737981
Rota 15 - Cantão 1,015m	7513053,174	618559,784	-22,48481484	-43,84749357
Rota 15 - Cantão 1,015m	7513080,39	618579,32	-22,48456766	-43,84730573
Rota 15 - Cantão 1,015m	7513173,334	618649,443	-22,48372329	-43,84663114
Rota 15 - Cantão 1,015m	7513426,3	618424,269	-22,48145409	-43,84883856
UBS - Cantão	7513425,527	618425,567	-22,48146099	-43,84882589
ota 15 - Sec de Saãde 42r	7514479,896	620699,961	-22,47177843	-43,82680105
ota 15 - Sec de Saãde 42r	7514491,992	620659,716	-22,47167202	-43,82719308
Sec, de Saãde	7514504,957	620656,266	-22,47155516	-43,82722759
Saãde da Mulher	7514927,716	620821,907	-22,46772503	-43,82565002
UBS - Albert Saibim	7515195,188	620541,473	-22,465329	-43,82839563

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 16 - 18,826m	7514668,783	620279,637	-22,47010204	-43,83090025
Rota 16 - 18,826m	7514570,317	620231,385	-22,47099479	-43,83136171
Rota 16 - 18,826m	7514513,507	620210,872	-22,47150936	-43,83155675
Rota 16 - 18,826m	7514446,458	620201,81	-22,47211559	-43,83163975
Rota 16 - 18,826m	7514380,326	620191,244	-22,47271365	-43,83173742
Rota 16 - 18,826m	7514334,646	620166,923	-22,47312795	-43,83197032
Rota 16 - 18,826m	7514299,338	620141,469	-22,47344865	-43,83221502
Rota 16 - 18,826m	7514251,136	620132,454	-22,47388465	-43,83229899
Rota 16 - 18,826m	7514200,127	620126,503	-22,47434579	-43,83235296
Rota 16 - 18,826m	7514140,272	620121,967	-22,47488673	-43,83239251
Rota 16 - 18,826m	7514094,039	620106,875	-22,47530537	-43,83253568
Rota 16 - 18,826m	7514048,762	620062,821	-22,47571743	-43,8329604
Rota 16 - 18,826m	7514022,875	620021,209	-22,47595417	-43,83336286
Rota 16 - 18,826m	7513916,901	619880,21	-22,47692125	-43,83472518
Rota 16 - 18,826m	7513898,462	619862,73	-22,47708902	-43,83489367
Rota 16 - 18,826m	7513842,977	619827,63	-22,47759263	-43,83523061
Rota 16 - 18,826m	7513808,291	619807,529	-22,47790733	-43,83542334
Rota 16 - 18,826m	7513733,615	619773,768	-22,47858419	-43,83574582
Rota 16 - 18,826m	7513692,799	619730,018	-22,47895591	-43,83616794
Rota 16 - 18,826m	7513659,07	619651,702	-22,47926606	-43,83692655
Rota 16 - 18,826m	7513628,936	619511,085	-22,47954809	-43,83829093
Rota 16 - 18,826m	7513596,75	619357,335	-22,47984956	-43,8397828
Rota 16 - 18,826m	7513526,544	619059,667	-22,48050446	-43,84267057
Rota 16 - 18,826m	7513523,059	618976,914	-22,48054171	-43,84347459
Rota 16 - 18,826m	7513549,013	618909,217	-22,48031201	-43,84413448
Rota 16 - 18,826m	7513615,415	618835,559	-22,47971738	-43,84485535
Rota 16 - 18,826m	7513686,449	618760,788	-22,479081	-43,84558737
Rota 16 - 18,826m	7513710,643	618713,987	-22,47886573	-43,84604403
Rota 16 - 18,826m	7513770,668	618548,891	-22,47833504	-43,84765308
Rota 16 - 18,826m	7513877,997	618270,395	-22,47738495	-43,85036777
Rota 16 - 18,826m	7513887,438	618220,925	-22,4773031	-43,85084927
Rota 16 - 18,826m	7513884,136	618146,557	-22,47733807	-43,8515718
Rota 16 - 18,826m	7513872,217	617926,76	-22,47746094	-43,85370709
Rota 16 - 18,826m	7513839,237	617827,397	-22,47776568	-43,85467034
Rota 16 - 18,826m	7513822,867	617764,522	-22,47791787	-43,8552802
Rota 16 - 18,826m	7513828,472	617711,138	-22,47787093	-43,85579945
Rota 16 - 18,826m	7513848,202	617672,525	-22,47769539	-43,85617619
Rota 16 - 18,826m	7513845,91	617633,613	-22,47771878	-43,8565542
Rota 16 - 18,826m	7513825,486	617596,83	-22,47790579	-43,85691018
Rota 16 - 18,826m	7513817,988	617561,469	-22,47797594	-43,8572533
Rota 16 - 18,826m	7513835,113	617524,483	-22,47782381	-43,85761403
Rota 16 - 18,826m	7513897,164	617453,811	-22,47726822	-43,85830548
Rota 16 - 18,826m	7514025,011	617404,148	-22,4761169	-43,85879761

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 16 - 18,826m	7514165,379	617332,899	-22,47485395	-43,85950045
Rota 16 - 18,826m	7514259,937	617253,419	-22,47400535	-43,86027989
Rota 16 - 18,826m	7514368,248	617146,491	-22,4730344	-43,86132708
Rota 16 - 18,826m	7514444,797	617045,34	-22,47234992	-43,86231578
Rota 16 - 18,826m	7514508,184	617013,107	-22,4717796	-43,8626337
Rota 16 - 18,826m	7514547,831	616963,482	-22,4714249	-43,86311891
Rota 16 - 18,826m	7514582,54	616926,403	-22,47111394	-43,86348182
Rota 16 - 18,826m	7514637,641	616906,735	-22,47061761	-43,86367702
Rota 16 - 18,826m	7514667,531	616916,13	-22,47034698	-43,86358792
Rota 16 - 18,826m	7514694,684	616935,675	-22,47010039	-43,86339998
Rota 16 - 18,826m	7514759,395	616948,937	-22,469515	-43,86327586
Rota 16 - 18,826m	7514809,236	616946,766	-22,46906497	-43,86330063
Rota 16 - 18,826m	7514841,454	616927,267	-22,4687753	-43,8634925
Rota 16 - 18,826m	7514859,9	616880,646	-22,46861189	-43,86394694
Rota 16 - 18,826m	7514914,005	616885,759	-22,46812285	-43,86390124
Rota 16 - 18,826m	7514957,194	616927,695	-22,46772988	-43,86349687
Rota 16 - 18,826m	7515013,288	617023,3	-22,46721668	-43,86257189
Rota 16 - 18,826m	7515033,828	617110,769	-22,46702516	-43,86172337
Rota 16 - 18,826m	7515040,612	617218,394	-22,4669565	-43,86067795
Rota 16 - 18,826m	7515054,164	617353,731	-22,4668248	-43,85936373
Rota 16 - 18,826m	7515079,812	617531,405	-22,46658092	-43,85763895
Rota 16 - 18,826m	7515109,908	617585,306	-22,46630538	-43,85711737
Rota 16 - 18,826m	7515186,395	617658,259	-22,4656095	-43,85641408
Rota 16 - 18,826m	7515264,475	617715,238	-22,46490034	-43,85586614
Rota 16 - 18,826m	7515444,336	617951,004	-22,46325952	-43,85358833
Rota 16 - 18,826m	7515597,594	618171,01	-22,46186005	-43,85146174
Rota 16 - 18,826m	7515738,019	618364,725	-22,46057828	-43,84958973
Rota 16 - 18,826m	7515863,773	618533,027	-22,45943077	-43,84796361
Rota 16 - 18,826m	7515982,14	618802,65	-22,45834293	-43,84535238
Rota 16 - 18,826m	7516093,456	619089,431	-22,45731753	-43,84257392
Rota 16 - 18,826m	7516125,453	619206,343	-22,45702038	-43,84144024
Rota 16 - 18,826m	7516145,613	619336,012	-22,45682923	-43,84018171
Rota 16 - 18,826m	7516156,964	619409,624	-22,45672157	-43,83946725
Rota 16 - 18,826m	7516152,374	619413,535	-22,45676276	-43,8394289
Rota 16 - 18,826m	7516143,812	619418,612	-22,45683973	-43,83937892
Rota 16 - 18,826m	7516123,735	619417,926	-22,45702112	-43,83938407
Rota 16 - 18,826m	7516112,241	619414,358	-22,45712519	-43,83941788
Rota 16 - 18,826m	7516098,044	619405,262	-22,45725405	-43,8395052
Rota 16 - 18,826m	7516089,193	619398,223	-22,45733449	-43,83957294
Rota 16 - 18,826m	7516079,198	619392,093	-22,45742519	-43,83963176
Rota 16 - 18,826m	7516071,882	619398,527	-22,45749082	-43,83956868
Rota 16 - 18,826m	7516066,101	619409,228	-22,45754229	-43,83946427
Rota 16 - 18,826m	7516068,36	619416,257	-22,45752139	-43,83939613

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 16 - 18,826m	7516080,878	619424,639	-22,45740774	-43,83931562
Rota 16 - 18,826m	7516096,49	619437,696	-22,45726582	-43,83918991
Rota 16 - 18,826m	7516116,638	619460,198	-22,45708226	-43,83897276
Rota 16 - 18,826m	7516151,278	619502,114	-22,45676645	-43,83856805
Rota 16 - 18,826m	7516183,932	619487,818	-22,45647252	-43,83870944
Rota 16 - 18,826m	7516224,55	619559,695	-22,45610062	-43,83801404
Rota 16 - 18,826m	7516286,241	619658,176	-22,45553652	-43,83706171
Rota 16 - 18,826m	7516379,11	619818,915	-22,45468645	-43,83550677
Rota 16 - 18,826m	7516513,869	620047,443	-22,45345324	-43,8332963
Rota 16 - 18,826m	7516575,036	620154,839	-22,45289322	-43,83225734
Rota 16 - 18,826m	7516627,22	620202,006	-22,45241856	-43,83180296
Rota 16 - 18,826m	7516818,547	620236,789	-22,45068802	-43,83147946
Rota 16 - 18,826m	7516856,908	620274,899	-22,45033886	-43,83111205
Rota 16 - 18,826m	7516889,361	620329,122	-22,45004192	-43,83058763
Rota 16 - 18,826m	7516907,577	620390,742	-22,44987305	-43,82999025
Rota 16 - 18,826m	7516937,096	620521,293	-22,44959722	-43,82872394
Rota 16 - 18,826m	7516931,209	620566,107	-22,44964724	-43,82828804
Rota 16 - 18,826m	7516897,987	620615,743	-22,4499438	-43,82780322
Rota 16 - 18,826m	7516846,219	620643,016	-22,45040945	-43,82753427
Rota 16 - 18,826m	7516782,272	620656,344	-22,45098609	-43,82739991
Rota 16 - 18,826m	7516753,173	620669,018	-22,45124803	-43,82727455
Rota 16 - 18,826m	7516716,907	620707,763	-22,45157285	-43,82689531
Rota 16 - 18,826m	7516697,52	620767,859	-22,45174371	-43,82630988
Rota 16 - 18,826m	7516695,086	620827,535	-22,45176148	-43,82572983
Rota 16 - 18,826m	7516708,65	620914,779	-22,45163279	-43,82488311
Rota 16 - 18,826m	7516712,429	620955,921	-22,45159575	-43,82448362
Rota 16 - 18,826m	7516716,013	621029,266	-22,45155819	-43,82377121
Rota 16 - 18,826m	7516711,559	621094,271	-22,45159381	-43,82313921
Rota 16 - 18,826m	7516691,39	621219,736	-22,45176708	-43,82191854
Rota 16 - 18,826m	7516669,755	621305,57	-22,4519564	-43,82108283
Rota 16 - 18,826m	7516622,512	621482,473	-22,45237054	-43,81936025
Rota 16 - 18,826m	7516519,901	621874,836	-22,4532694	-43,81553978
Rota 16 - 18,826m	7516479,857	622095,089	-22,45361535	-43,81339649
Rota 16 - 18,826m	7516461,333	622177,017	-22,45377681	-43,81259897
Rota 16 - 18,826m	7516448,462	622212,314	-22,45389054	-43,81225499
Rota 16 - 18,826m	7516429,203	622231,566	-22,45406312	-43,81206643
Rota 16 - 18,826m	7516411,015	622236,838	-22,45422701	-43,81201381
Rota 16 - 18,826m	7516374,151	622227,768	-22,45456062	-43,8120991
Rota 16 - 18,826m	7516288,369	622199,224	-22,45533745	-43,81236987
Rota 16 - 18,826m	7516237,814	622180,785	-22,45579539	-43,81254516
Rota 16 - 18,826m	7516214,183	622164,417	-22,45601	-43,81270239
Rota 16 - 18,826m	7516197,871	622142,818	-22,45615888	-43,81291102
Rota 16 - 18,826m	7516177,85	622102,316	-22,4563426	-43,81330305

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 16 - 18,826m	7516162,731	622065,959	-22,45648175	-43,81365518
Rota 16 - 18,826m	7516147,825	622037,308	-22,45661844	-43,81393244
Rota 16 - 18,826m	7516184,075	622019,123	-22,45629232	-43,81411193
Rota 16 - 18,826m	7516228,532	621991,042	-22,45589279	-43,81438823
Rota 16 - 18,826m	7516321,924	621933,972	-22,45505333	-43,81494996
Rota 16 - 18,826m	7516454,716	621759,251	-22,4538664	-43,81665793
Rota 16 - 18,826m	7516516,763	621624,448	-22,45331558	-43,81797259
Rota 16 - 18,826m	7516560,373	621535,102	-22,45292804	-43,8188441
Rota 16 - 18,826m	7516578,649	621496,237	-22,45276573	-43,81922315
Rota 16 - 18,826m	7516580,23	621473,8	-22,45275305	-43,8194413
Rota 16 - 18,826m	7516568,713	621430,956	-22,45286012	-43,81985673
Rota 16 - 18,826m	7516536,232	621399,156	-22,45315576	-43,82016325
Rota 16 - 18,826m	7516470,629	621378,304	-22,45374977	-43,82036086
Rota 16 - 18,826m	7516448,788	621373,672	-22,45394737	-43,8204042
Rota 16 - 18,826m	7516416,297	621390,982	-22,4542396	-43,82023351
Rota 16 - 18,826m	7516395,949	621400,41	-22,45442272	-43,82014034
Rota 16 - 18,826m	7516325,152	621418,666	-22,45506088	-43,81995753
Rota 16 - 18,826m	7516263,898	621457,838	-22,45561135	-43,81957221
Rota 16 - 18,826m	7516248,82	621464,293	-22,45574708	-43,81950833
Rota 16 - 18,826m	7516215,591	621479,795	-22,4560461	-43,81935515
Rota 16 - 18,826m	7516198,257	621503,324	-22,45620099	-43,81912519
Rota 16 - 18,826m	7516166,063	621513,333	-22,45649106	-43,81902546
Rota 16 - 18,826m	7516132,554	621509,976	-22,45679395	-43,81905552
Rota 16 - 18,826m	7516106,707	621520,366	-22,45702667	-43,81895258
Rota 16 - 18,826m	7516050,524	621553,188	-22,45753178	-43,81862933
Rota 16 - 18,826m	7515933,064	621377,248	-22,45860521	-43,82033003
Rota 16 - 18,826m	7515843,26	621267,958	-22,45942409	-43,8213852
Rota 16 - 18,826m	7515797,756	621232,218	-22,45983763	-43,82172902
Rota 16 - 18,826m	7515616,08	621081,74	-22,46148922	-43,82317745
Rota 16 - 18,826m	7515594,942	621044,302	-22,4616828	-43,82353964
Rota 16 - 18,826m	7515575,915	620986,359	-22,46185876	-43,82410127
Rota 16 - 18,826m	7515558,992	620906,84	-22,46201724	-43,82487272
Rota 16 - 18,826m	7515539,744	620867,276	-22,46219389	-43,82525572
Rota 16 - 18,826m	7515499,439	620823,717	-22,46256101	-43,82567596
Rota 16 - 18,826m	7515318,863	620651,361	-22,46420419	-43,82733714
Rota 16 - 18,826m	7515294,71	620619,817	-22,46442457	-43,82764184
Rota 16 - 18,826m	7514980,069	620779,132	-22,4672552	-43,8260697
Rota 16 - 18,826m	7514953,072	620758,308	-22,46750051	-43,82627002
Rota 16 - 18,826m	7514911,039	620706,651	-22,46788381	-43,82676883
Rota 16 - 18,826m	7514853,811	620628,8	-22,4684062	-43,82752104
Rota 16 - 18,826m	7514841,956	620661,726	-22,46851095	-43,82720016
Rota 16 - 18,826m	7514825,819	620681,197	-22,46865533	-43,82700971
Rota 16 - 18,826m	7514755,775	620731,138	-22,46928444	-43,82651904



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 16 - 18,826m	7514693,174	620724,963	-22,4698503	-43,82657429
Rota 16 - 18,826m	7514518,532	620708,016	-22,47142889	-43,8267257
Rota 16 - 18,826m	7514376,472	620691,404	-22,47271317	-43,82687634
Rota 16 - 18,826m	7514217,652	620608,759	-22,4741535	-43,82766744
Rota 16 - 18,826m	7514151,295	620562,937	-22,47475608	-43,82810772
Rota 16 - 18,826m	7513860,527	620276,352	-22,47740256	-43,83087089
Rota 16 - 18,826m	7513663,583	620082,692	-22,47919502	-43,83273812
Rota 16 - 18,826m	7513514,378	619890,477	-22,48055618	-43,83459496
Rota 16 - 18,826m	7513418,836	619736,372	-22,48142995	-43,83608551
Rota 16 - 18,826m	7513425,049	619702,63	-22,4813762	-43,83641392
Rota 16 - 18,826m	7513419,41	619678,453	-22,48142883	-43,83664847
Rota 16 - 18,826m	7513409,49	619652,63	-22,48152024	-43,8368987
Rota 16 - 18,826m	7513380,539	619636,666	-22,48178285	-43,83705167
Rota 16 - 18,826m	7513282,033	619630,683	-22,48267299	-43,83710239
Rota 16 - 18,826m	7513250,665	619634,076	-22,48295608	-43,83706705
Rota 16 - 18,826m	7513231,902	619636,853	-22,48312534	-43,83703864
Rota 16 - 18,826m	7513254,875	619659,736	-22,48291625	-43,83681797
Rota 16 - 18,826m	7513282,895	619687,407	-22,48266123	-43,83655114
Rota 16 - 18,826m	7513290,615	619717,511	-22,48258938	-43,83625914
Rota 16 - 18,826m	7513271,848	619744,235	-22,48275702	-43,83599798
Rota 16 - 18,826m	7513232,017	619778,63	-22,48311436	-43,83566069
Rota 16 - 18,826m	7513213,122	619796,717	-22,48328375	-43,83548347
Rota 16 - 18,826m	7513216,232	619831,518	-22,48325322	-43,83514546
Rota 16 - 18,826m	7513234,692	619869,426	-22,48308382	-43,83477842
Rota 16 - 18,826m	7513233,76	619886,153	-22,48309107	-43,83461578
Rota 16 - 18,826m	7513218,465	619904,862	-22,4832279	-43,83443278
Rota 16 - 18,826m	7513144,608	619958,326	-22,48389123	-43,83390757
Rota 16 - 18,826m	7513105,66	619972,742	-22,484242	-43,8337645
Rota 16 - 18,826m	7512894,254	619998,647	-22,48614963	-43,83349673
Rota 16 - 18,826m	7512846,916	620011,253	-22,48657631	-43,83337063
Rota 16 - 18,826m	7512813,763	620021,609	-22,48687502	-43,83326746
Rota 16 - 18,826m	7512790,484	620024,937	-22,48708504	-43,83323335
Rota 16 - 18,826m	7512765,557	620023,114	-22,48731031	-43,83324918
Rota 16 - 18,826m	7512703,871	620039,977	-22,48786629	-43,83308061
Rota 16 - 18,826m	7512657,006	620042,225	-22,48828942	-43,83305522
Rota 16 - 18,826m	7512624,991	620042,08	-22,48857859	-43,83305419
Rota 16 - 18,826m	7512589,909	620026,576	-22,48889655	-43,83320223
Rota 16 - 18,826m	7512567,291	620005,992	-22,48910229	-43,83340059
Rota 16 - 18,826m	7512490,07	619995,859	-22,48980047	-43,83349324
Rota 16 - 18,826m	7512470,718	620003,272	-22,48997474	-43,83341971
Rota 16 - 18,826m	7512423,042	620018,419	-22,49040429	-43,83326888
Rota 16 - 18,826m	7512389,786	620019,074	-22,49070462	-43,83326
Rota 16 - 18,826m	7512352,287	620015,407	-22,49104357	-43,8332928

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 16 - 18,826m	7512318,905	620026,409	-22,49134431	-43,83318333
Rota 16 - 18,826m	7512280,187	620062,878	-22,49169145	-43,83282593
Rota 16 - 18,826m	7512234,902	620099,148	-22,49209792	-43,83246996
Rota 16 - 18,826m	7512207,542	620111,359	-22,49234418	-43,83234919
Rota 16 - 18,826m	7512174,495	620119,357	-22,4926421	-43,83226895
Rota 16 - 18,826m	7512143,759	620121,161	-22,49291958	-43,83224909
Rota 16 - 18,826m	7512123,944	620135,055	-22,49309757	-43,83211254
Rota 16 - 18,826m	7512089,899	620157,188	-22,49340352	-43,83189483
Rota 16 - 18,826m	7512059,274	620177,619	-22,49367868	-43,83169392
Rota 16 - 18,826m	7512030,417	620195,553	-22,49393806	-43,83151741
Rota 16 - 18,826m	7511992,398	620208,552	-22,49428054	-43,83138818
Rota 16 - 18,826m	7511957,459	620216,306	-22,49459556	-43,83131016
Rota 16 - 18,826m	7511936,871	620215,273	-22,49478159	-43,83131864
Rota 16 - 18,826m	7511913,152	620199,169	-22,49499696	-43,83147337
Rota 16 - 18,826m	7511881,421	620144,552	-22,49528741	-43,83200184
Rota 16 - 18,826m	7511852,677	620114,16	-22,49554916	-43,83229508
Rota 16 - 18,826m	7511842,921	620095,509	-22,49563859	-43,83247562
Rota 16 - Lago Azul 387m	7515039,633	617199,837	-22,46696662	-43,86085822
Rota 16 - Lago Azul 387m	7515024,571	617211,546	-22,46710185	-43,86074331
Rota 16 - Lago Azul 387m	7515013,929	617220,893	-22,46719733	-43,86065169
Rota 16 - Lago Azul 387m	7515003,37	617236,543	-22,46729163	-43,86049882
Rota 16 - Lago Azul 387m	7514998,637	617256,169	-22,46733303	-43,86030774
Rota 16 - Lago Azul 387m	7514985,54	617277,287	-22,46744988	-43,86010154
Rota 16 - Lago Azul 387m	7514966,858	617297,938	-22,4676172	-43,85989947
Rota 16 - Lago Azul 387m	7514955,646	617313,309	-22,46771741	-43,85974927
Rota 16 - Lago Azul 387m	7514954,796	617323,58	-22,46772438	-43,85964939
Rota 16 - Lago Azul 387m	7514962,227	617336,949	-22,46765635	-43,85952002
Rota 16 - Lago Azul 387m	7514980,23	617344,851	-22,4674932	-43,85944456
Rota 16 - Lago Azul 387m	7514992,612	617355,433	-22,46738063	-43,85934263
Rota 16 - Lago Azul 387m	7514997,066	617370,864	-22,46733935	-43,859193
Rota 16 - Lago Azul 387m	7514993,725	617393,882	-22,46736794	-43,85896906
Rota 16 - Lago Azul 387m	7514985,964	617409,943	-22,46743694	-43,8588124
Rota 16 - Lago Azul 387m	7514976,198	617422,33	-22,46752429	-43,8586913
Rota 16 - Lago Azul 387m	7514954,106	617428,875	-22,46772338	-43,85862606
Rota 16 - Lago Azul 387m	7514940,335	617435,805	-22,46784729	-43,85855769
Rota 16 - Lago Azul 387m	7514926,119	617447,21	-22,4679749	-43,8584458
Rota 16 - Lago Azul 387m	7514890,223	617484,917	-22,46829653	-43,8580767
UBS - Lago Azul	7514893,028	617490,146	-22,46827084	-43,85802609
UBS - Belvedere	7516080,064	619435,525	-22,45741433	-43,83920977
Rota 16 - Santo Antão nio 37,5m	7516472,393	621379,14	-22,45373378	-43,82035287
Rota 16 - Santo Antão nio 37,5m	7516479,47	621342,284	-22,45367247	-43,82071155
UBS - Santo Antão nio	7516464,586	621345,333	-22,4538067	-43,82068078
UBS - Boa Sorte	7513243,521	619905,183	-22,48300157	-43,83443156

ANEXO III



<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
<b>ROTAS E ETINERÁRIOS RSS</b>
MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066

PONTO	UTMY-N	UTMX-E	LAT	LON
UBS - Areal	7511828,296	620086,702	-22,49577131	-43,83256012

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 17 - 6,569m	7514665,246	620277,834	-22,47013411	-43,8309175
Rota 17 - 6,569m	7514780,359	620330,613	-22,46909067	-43,83041331
Rota 17 - 6,569m	7514808,795	620359,416	-22,46883181	-43,83013554
Rota 17 - 6,569m	7514849,257	620379,838	-22,4684649	-43,82994015
Rota 17 - 6,569m	7514957,045	620422,009	-22,46748837	-43,82953851
Rota 17 - 6,569m	7515006,555	620441,14	-22,46703984	-43,82935635
Rota 17 - 6,569m	7515050,94	620452,105	-22,46663818	-43,82925316
Rota 17 - 6,569m	7515087,237	620461,924	-22,46630964	-43,82916048
Rota 17 - 6,569m	7515121,695	620484,409	-22,46599683	-43,82894459
Rota 17 - 6,569m	7515144,674	620496,761	-22,4657884	-43,82882631
Rota 17 - 6,569m	7515198,281	620529,848	-22,46530188	-43,82850883
Rota 17 - 6,569m	7515236,261	620556,322	-22,46495698	-43,82825445
Rota 17 - 6,569m	7515262,627	620583,328	-22,46471693	-43,827994
Rota 17 - 6,569m	7515277,116	620605,941	-22,46458446	-43,82777536
Rota 17 - 6,569m	7515281,23	620623,359	-22,46454607	-43,8276064
Rota 17 - 6,569m	7515133,905	620704,173	-22,46587102	-43,82680986
Rota 17 - 6,569m	7514973,929	620784,418	-22,46731027	-43,82601786
Rota 17 - 6,569m	7514806,988	620870,559	-22,46881201	-43,82516802
Rota 17 - 6,569m	7514786,358	620851,638	-22,46899969	-43,82535033
Rota 17 - 6,569m	7514767,562	620843,226	-22,46917005	-43,82543065
Rota 17 - 6,569m	7514740,36	620847,628	-22,46941543	-43,8253858
Rota 17 - 6,569m	7514729,383	620859,82	-22,46951371	-43,82526647
Rota 17 - 6,569m	7514707,905	620902,044	-22,46970471	-43,8248545
Rota 17 - 6,569m	7514688,454	620945,69	-22,46987731	-43,82442885
Rota 17 - 6,569m	7514674,001	621066,095	-22,46999932	-43,82325762
Rota 17 - 6,569m	7514671,774	621092,95	-22,47001753	-43,82299647
Rota 17 - 6,569m	7514651,941	621104,784	-22,47019582	-43,82287995
Rota 17 - 6,569m	7514618,745	621122,473	-22,4704944	-43,8227055
Rota 17 - 6,569m	7514367,286	621268,564	-22,47275523	-43,82126653
Rota 17 - 6,569m	7514331,987	621296,214	-22,47307209	-43,82099512
Rota 17 - 6,569m	7514303,179	621318,03	-22,47333075	-43,8207809
Rota 17 - 6,569m	7514276,475	621330,315	-22,47357107	-43,82065946
Rota 17 - 6,569m	7514242,089	621350,408	-22,47388022	-43,82046156
Rota 17 - 6,569m	7514230,455	621358,311	-22,47398473	-43,82038387
Rota 17 - 6,569m	7514205,821	621390,204	-22,47420496	-43,82007202
Rota 17 - 6,569m	7514191,294	621406,708	-22,474335	-43,81991052
Rota 17 - 6,569m	7514162,237	621437,66	-22,47459524	-43,81960749
Rota 17 - 6,569m	7514144,635	621458,627	-22,47475273	-43,81940237
Rota 17 - 6,569m	7514119,509	621477,032	-22,47497837	-43,81922158
Rota 17 - 6,569m	7514099,976	621489,651	-22,47515389	-43,81909744
Rota 17 - 6,569m	7513965,223	621488,572	-22,47637107	-43,81909761
Rota 17 - 6,569m	7513940,608	621532,265	-22,47659029	-43,81867108
Rota 17 - 6,569m	7513933,316	621554,037	-22,47665459	-43,81845893

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 17 - 6,569m	7513922,244	621587,589	-22,47675221	-43,818132
Rota 17 - 6,569m	7513907,309	621624,964	-22,47688444	-43,81776761
Rota 17 - 6,569m	7513897,26	621650,202	-22,47697341	-43,81752157
Rota 17 - 6,569m	7513889,425	621670,646	-22,47704272	-43,81732228
Rota 17 - 6,569m	7513880,87	621685,302	-22,47711895	-43,81717918
Rota 17 - 6,569m	7513872,598	621689,355	-22,47719337	-43,81713916
Rota 17 - 6,569m	7513830,992	621676,158	-22,4775701	-43,81726422
Rota 17 - 6,569m	7513809,527	621676,551	-22,47776395	-43,81725875
Rota 17 - 6,569m	7513771,108	621683,736	-22,47811044	-43,81718598
Rota 17 - 6,569m	7513725,782	621689,15	-22,47851944	-43,81712988
Rota 17 - 6,569m	7513722,661	621657,062	-22,47854992	-43,8174415
Rota 17 - 6,569m	7513709,291	621649,666	-22,4786712	-43,81751236
Rota 17 - 6,569m	7513585,678	621614,223	-22,47979021	-43,81784734
Rota 17 - 6,569m	7513568,898	621602,567	-22,4799426	-43,81795934
Rota 17 - 6,569m	7513558,829	621569,01	-22,48003594	-43,81828471
Rota 17 - 6,569m	7513545,201	621583,367	-22,480158	-43,81814413
Rota 17 - 6,569m	7513521,87	621599,009	-22,48036762	-43,81799031
Rota 17 - 6,569m	7513482,083	621606,117	-22,48072647	-43,81791818
Rota 17 - 6,569m	7513399,734	621608,361	-22,4814701	-43,81789006
Rota 17 - 6,569m	7513296,887	621591,336	-22,48240024	-43,81804764
Rota 17 - 6,569m	7513241,031	621573,682	-22,48290599	-43,81821494
Rota 17 - 6,569m	7513194,711	621551,92	-22,48332591	-43,81842289
Rota 17 - 6,569m	7513145,419	621531,36	-22,48377258	-43,81861894
Rota 17 - 6,569m	7513077,145	621499,734	-22,48439149	-43,81892109
Rota 17 - 6,569m	7513021,968	621485,924	-22,48489084	-43,81905108
Rota 17 - 6,569m	7512980,996	621495,009	-22,48526025	-43,81895964
Rota 17 - 6,569m	7512944,029	621511,64	-22,48559296	-43,81879517
Rota 17 - 6,569m	7512915,109	621538,426	-22,48585227	-43,81853261
Rota 17 - 6,569m	7512890,855	621567,191	-22,48606927	-43,81825117
Rota 17 - 6,569m	7512841,896	621616,982	-22,48650793	-43,81776348
Rota 17 - 6,569m	7512804,355	621644,091	-22,48684507	-43,81749712
Rota 17 - 6,569m	7512765,526	621663,882	-22,48719437	-43,81730178
Rota 17 - 6,569m	7512732,864	621673,683	-22,48748867	-43,81720401
Rota 17 - 6,569m	7512706,701	621676,556	-22,48772478	-43,81717408
Rota 17 - 6,569m	7512679,629	621625,597	-22,48797293	-43,8176673
Rota 17 - 6,569m	7512635,3	621552,029	-22,48837855	-43,81837894
Rota 17 - 6,569m	7512708,457	621495,039	-22,48772185	-43,81893847
Rota 17 - 6,569m	7512773,413	621456,391	-22,48713792	-43,81931909
Rota 17 - 6,569m	7512832,858	621428,323	-22,486603	-43,81959644
Rota 17 - 6,569m	7512902,701	621407,048	-22,48597369	-43,81980857
Rota 17 - 6,569m	7512980,024	621392,951	-22,4852763	-43,8199515
Rota 17 - 6,569m	7513056,851	621391,965	-22,48458246	-43,81996697
Rota 17 - 6,569m	7513124,043	621396,394	-22,48397526	-43,81992906

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 17 - 6,569m	7513208,812	621402,697	-22,48320917	-43,8198743
Rota 17 - 6,569m	7513279,932	621409,682	-22,48256631	-43,81981186
Rota 17 - 6,569m	7513344,799	621410,848	-22,48198034	-43,81980549
Rota 17 - 6,569m	7513414,373	621394,486	-22,4813531	-43,81996983
Rota 17 - 6,569m	7513458,552	621376,828	-22,48095533	-43,82014484
Rota 17 - 6,569m	7513500,525	621344,795	-22,4805785	-43,82045938
Rota 17 - 6,569m	7513529,168	621326,215	-22,48032112	-43,82064215
Rota 17 - 6,569m	7513620,681	621280,029	-22,47949785	-43,82109803
Rota 17 - 6,569m	7513666,089	621267,153	-22,47908863	-43,82122664
Rota 17 - 6,569m	7513723,145	621263,848	-22,47857353	-43,82126313
Rota 17 - 6,569m	7513779,729	621273,709	-22,47806176	-43,82117161
Rota 17 - 6,569m	7513818,734	621286,955	-22,47770852	-43,82104586
Rota 17 - 6,569m	7513843,049	621298,97	-22,47748805	-43,82093095
Rota 17 - 6,569m	7513904,1	621335,219	-22,47693405	-43,82058332
Rota 17 - 6,569m	7513933,443	621348,375	-22,47666809	-43,82045771
Rota 17 - 6,569m	7513983,719	621357,484	-22,47621334	-43,82037303
Rota 17 - 6,569m	7514016,201	621353,737	-22,47592023	-43,82041193
Rota 17 - 6,569m	7514055,058	621337,318	-22,47557043	-43,82057447
Rota 17 - 6,569m	7514092,383	621306,237	-22,47523552	-43,82087939
Rota 17 - 6,569m	7514160,847	621242,673	-22,47462165	-43,82150238
Rota 17 - 6,569m	7514151,794	621214,494	-22,47470543	-43,82177554
Rota 17 - 6,569m	7514209,645	621180,5	-22,47418533	-43,82211034
Rota 17 - 6,569m	7514270,114	621125,951	-22,47364304	-43,82264509
Rota 17 - 6,569m	7514323,943	621074,163	-22,47316052	-43,8231525
Rota 17 - 6,569m	7514394,477	621027,056	-22,47252679	-43,82361569
Rota 17 - 6,569m	7514425,543	620988,937	-22,4722489	-43,82398852
Rota 17 - 6,569m	7514398,087	620958,56	-22,47249903	-43,82428164
Rota 17 - 6,569m	7514455,823	620887,96	-22,47198256	-43,82497216
Rota 17 - 6,569m	7514461,935	620862,63	-22,47192914	-43,8252188
Rota 17 - 6,569m	7514455,495	620847,879	-22,47198836	-43,82536166
Rota 17 - 6,569m	7514423,707	620789,479	-22,4722796	-43,8259268
Rota 17 - 6,569m	7514459,456	620755,473	-22,47195911	-43,82626
Rota 17 - 6,569m	7514478,5	620701,139	-22,47179095	-43,82678949
Rota 17 - 6,569m	7514490,708	620660,728	-22,47168355	-43,82718315
CAPS	7515161,789	620488,468	-22,4656344	-43,82890819
UBS - Albert Saibim	7515195,188	620541,473	-22,465329	-43,82839563
Rota 17 - Bairro São João 838m	7513726,221	621689,211	-22,47851547	-43,81712932
Rota 17 - Bairro São João 838m	7513736,622	621719,727	-22,47841935	-43,81683354
Rota 17 - Bairro São João 838m	7513750,628	621775,591	-22,47828887	-43,81629168
Rota 17 - Bairro São João 838m	7513738,906	621789,414	-22,47839375	-43,81615644
Rota 17 - Bairro São João 838m	7513659,473	621862,687	-22,47910597	-43,81543821
Rota 17 - Bairro São João 838m	7513647,759	621890,063	-22,47920981	-43,81517125
Rota 17 - Bairro São João 838m	7513639,08	621947,649	-22,47928409	-43,81461091

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 17 - Bairro São João 838m	7513652,153	621985,548	-22,47916331	-43,81424358
Rota 17 - Bairro São João 838m	7513719,178	622017,115	-22,47855567	-43,81394194
Rota 17 - Bairro São João 838m	7513734,216	622042,132	-22,47841806	-43,81369996
Rota 17 - Bairro São João 838m	7513774,297	622130,307	-22,47804973	-43,81284609
Rota 17 - Bairro São João 838m	7513770,88	622154,379	-22,47807888	-43,81261188
Rota 17 - Bairro São João 838m	7513777,955	622210,202	-22,47801098	-43,81206989
Rota 17 - Bairro São João 838m	7513775,926	622229,327	-22,47802793	-43,81188386
Rota 17 - Bairro São João 838m	7513767,515	622246,129	-22,4781027	-43,81171992
Rota 17 - Bairro São João 838m	7513760,896	622274,69	-22,47816043	-43,81144183
Rota 17 - Bairro São João 838m	7513757,465	622305,28	-22,47818923	-43,81114426
Rota 17 - Bairro São João 838m	7513784,426	622343,057	-22,47794301	-43,8107792
Rota 17 - Bairro São João 838m	7513797,496	622371,132	-22,47782295	-43,81050735
Rota 17 - Bairro São João 838m	7513793,175	622383,752	-22,47786107	-43,81038438
Rota 17 - Bairro São João 838m	7513770,239	622390,111	-22,47806778	-43,8103208
UBS - São João	7513773,01	622398,194	-22,47804217	-43,81024245
Rota 17 - Parque Santana 5,806m	7512707,93	621676,314	-22,48771369	-43,81717652
Rota 17 - Parque Santana 5,806m	7512666,838	621686,931	-22,48808408	-43,81707018
Rota 17 - Parque Santana 5,806m	7512617,223	621708,222	-22,48853069	-43,81685943
Rota 17 - Parque Santana 5,806m	7512593,582	621728,482	-22,48874277	-43,8166607
Rota 17 - Parque Santana 5,806m	7512561,78	621754,523	-22,48902816	-43,81640515
Rota 17 - Parque Santana 5,806m	7512387,561	621886,342	-22,4905923	-43,81511053
Rota 17 - Parque Santana 5,806m	7512357,684	621916,863	-22,49085997	-43,81481158
Rota 17 - Parque Santana 5,806m	7512339,92	621946,176	-22,49101832	-43,81452529
Rota 17 - Parque Santana 5,806m	7512330,48	621969,211	-22,49110193	-43,81430067
Rota 17 - Parque Santana 5,806m	7512308,179	621997,563	-22,49130133	-43,81402339
Rota 17 - Parque Santana 5,806m	7512273,085	622022,822	-22,49161649	-43,81377518
Rota 17 - Parque Santana 5,806m	7511991,895	622050,612	-22,49415424	-43,81348341
Rota 17 - Parque Santana 5,806m	7511934,372	622040,657	-22,4946745	-43,81357574
Rota 17 - Parque Santana 5,806m	7511894,847	622047,377	-22,49503101	-43,81350738
Rota 17 - Parque Santana 5,806m	7511813,358	622096,338	-22,49576352	-43,8130252
Rota 17 - Parque Santana 5,806m	7511776,955	622123,155	-22,4960904	-43,81276173
Rota 17 - Parque Santana 5,806m	7511721,954	622148,002	-22,49658539	-43,81251598
Rota 17 - Parque Santana 5,806m	7511656,489	622156,624	-22,49717605	-43,81242713
Rota 17 - Parque Santana 5,806m	7511606,069	622159,874	-22,49763122	-43,81239164
Rota 17 - Parque Santana 5,806m	7511558,698	622178,614	-22,49805773	-43,81220583
Rota 17 - Parque Santana 5,806m	7511534,526	622216,809	-22,49827332	-43,81183271
Rota 17 - Parque Santana 5,806m	7511510,204	622247,199	-22,49849082	-43,81153544
Rota 17 - Parque Santana 5,806m	7511482,694	622263,746	-22,49873811	-43,81137247
Rota 17 - Parque Santana 5,806m	7511453,18	622265,539	-22,49900455	-43,81135276
Rota 17 - Parque Santana 5,806m	7511426,67	622255,63	-22,4992447	-43,81144704
Rota 17 - Parque Santana 5,806m	7511392,896	622246,192	-22,49955043	-43,81153617
Rota 17 - Parque Santana 5,806m	7511349,679	622238,413	-22,49994132	-43,81160845
Rota 17 - Parque Santana 5,806m	7511316,042	622241,291	-22,50024493	-43,81157789

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 17 - Parque Santana 5,806m	7511280,277	622254,638	-22,500567	-43,81144538
Rota 17 - Parque Santana 5,806m	7511245,739	622267,765	-22,50087801	-43,81131512
Rota 17 - Parque Santana 5,806m	7511225,053	622280,796	-22,50106391	-43,81118685
Rota 17 - Parque Santana 5,806m	7511200,334	622283,604	-22,50128698	-43,81115765
Rota 17 - Parque Santana 5,806m	7511165,622	622279,997	-22,50160075	-43,81119004
Rota 17 - Parque Santana 5,806m	7511131,535	622258,13	-22,50191019	-43,81139996
Rota 17 - Parque Santana 5,806m	7511106,962	622204,973	-22,50213595	-43,81191477
Rota 17 - Parque Santana 5,806m	7511097,987	622165,919	-22,50221982	-43,8122937
Rota 17 - Parque Santana 5,806m	7511101,859	622085,239	-22,50219062	-43,81307825
Rota 17 - Parque Santana 5,806m	7511094,188	622018,792	-22,50226467	-43,81372356
Rota 17 - Parque Santana 5,806m	7511082,259	621964,107	-22,50237632	-43,8142542
Rota 17 - Parque Santana 5,806m	7511044,217	621890,798	-22,50272516	-43,81496388
Rota 17 - Parque Santana 5,806m	7511004,429	621866,217	-22,50308628	-43,81519975
Rota 17 - Parque Santana 5,806m	7510933,983	621844,715	-22,50372409	-43,81540334
Rota 17 - Parque Santana 5,806m	7510875,807	621812,679	-22,50425184	-43,81571028
Rota 17 - Parque Santana 5,806m	7510809,375	621753,275	-22,5048561	-43,81628262
Rota 17 - Parque Santana 5,806m	7510758,622	621700,4	-22,50531828	-43,8167927
Rota 17 - Parque Santana 5,806m	7510740,978	621666,374	-22,50548007	-43,81712209
Rota 17 - Parque Santana 5,806m	7510729,263	621613,488	-22,50558966	-43,81763529
Rota 17 - Parque Santana 5,806m	7510730,555	621566,683	-22,50558133	-43,81809036
Rota 17 - Parque Santana 5,806m	7510728,571	621540,344	-22,50560113	-43,81834624
Rota 17 - Parque Santana 5,806m	7510700,65	621498,585	-22,50585629	-43,81875004
Rota 17 - Parque Santana 5,806m	7510744,288	621426,974	-22,50546725	-43,81944949
Rota 17 - Parque Santana 5,806m	7510681,871	621385,658	-22,50603395	-43,81984633
Rota 17 - Parque Santana 5,806m	7510608,223	621470,677	-22,50669308	-43,81901423
Rota 17 - Parque Santana 5,806m	7510589,568	621493,777	-22,50685993	-43,81878825
Rota 17 - Parque Santana 5,806m	7510563,81	621524,432	-22,50709039	-43,81848828
Rota 17 - Parque Santana 5,806m	7510551,542	621553,685	-22,50719911	-43,81820298
Rota 17 - Parque Santana 5,806m	7510549,338	621593,57	-22,50721618	-43,81781509
Rota 17 - Parque Santana 5,806m	7510567,427	621675,924	-22,50704692	-43,81701593
Rota 17 - Parque Santana 5,806m	7510582,963	621741,346	-22,50690192	-43,81638117
Rota 17 - Parque Santana 5,806m	7510618,836	621792,253	-22,50657428	-43,81588907
Rota 17 - Parque Santana 5,806m	7510662,507	621848,734	-22,5061758	-43,81534339
Rota 17 - Parque Santana 5,806m	7510672,41	621866,818	-22,50608507	-43,81516836
Rota 17 - Parque Santana 5,806m	7510692,781	621937,121	-22,50589605	-43,81448653
Rota 17 - Parque Santana 5,806m	7510694,619	621988,022	-22,5058758	-43,81399188
Rota 17 - Parque Santana 5,806m	7510683,66	622031,419	-22,50597167	-43,81356918
Rota 17 - Parque Santana 5,806m	7510665,138	622082,057	-22,50613534	-43,81307552
Rota 17 - Parque Santana 5,806m	7510632,04	622163,625	-22,50642844	-43,81228006
Rota 17 - Parque Santana 5,806m	7510596,727	622203,743	-22,50674451	-43,81188736
Rota 17 - Parque Santana 5,806m	7510534,684	622240,114	-22,50730228	-43,81152902
Rota 17 - Parque Santana 5,806m	7510465,772	622264,617	-22,50792294	-43,81128551
Rota 17 - Parque Santana 5,806m	7510346,138	622279,494	-22,50900241	-43,81113165



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 17 - Parque Santana 5,806m	7510246,342	622300,832	-22,50990224	-43,81091652
Rota 17 - Parque Santana 5,806m	7510144,837	622315,016	-22,51081802	-43,81077079
Rota 17 - Parque Santana 5,806m	7510066,388	622331,174	-22,51152541	-43,81060765
Rota 17 - Parque Santana 5,806m	7509988,967	622343,135	-22,51222382	-43,8104854
Rota 17 - Parque Santana 5,806m	7509939,178	622372,966	-22,51267138	-43,81019156
Rota 17 - Parque Santana 5,806m	7509872,502	622408,51	-22,51327105	-43,80984087
Rota 17 - Parque Santana 5,806m	7509746,81	622477,6	-22,51440134	-43,8091595
Rota 17 - Parque Santana 5,806m	7509531,216	622595,905	-22,51634007	-43,80799273
Rota 17 - Parque Santana 5,806m	7509475,286	622629,106	-22,51684285	-43,80766563
Rota 17 - Parque Santana 5,806m	7509421,299	622655,656	-22,51732855	-43,80740334
Rota 17 - Parque Santana 5,806m	7509376,56	622694,827	-22,51772982	-43,80701907
Rota 17 - Parque Santana 5,806m	7509325,726	622747,246	-22,51818517	-43,80650553
Rota 17 - Parque Santana 5,806m	7509318,715	622759,077	-22,51824764	-43,80638997
Rota 17 - Parque Santana 5,806m	7509266,083	622820,908	-22,51871855	-43,8057848
Rota 17 - Parque Santana 5,806m	7509234,976	622861,3	-22,5189966	-43,80538971
Rota 17 - Parque Santana 5,806m	7509196,598	622892,973	-22,51934095	-43,80507881
Rota 17 - Parque Santana 5,806m	7509137,594	622917,749	-22,51987209	-43,80483336
Rota 17 - Parque Santana 5,806m	7509079,391	622925,298	-22,52039724	-43,80475546
Rota 17 - Parque Santana 5,806m	7509038,085	622930,374	-22,52076994	-43,80470289
Rota 17 - Parque Santana 5,806m	7508982,078	622947,198	-22,52127458	-43,80453499
Rota 17 - Parque Santana 5,806m	7508955,723	622963,456	-22,52151145	-43,80437488
Rota 17 - Parque Santana 5,806m	7508910,095	622983,639	-22,52192211	-43,80417512
Rota 17 - Parque Santana 5,806m	7508875,715	622999,831	-22,52223146	-43,80401503
Rota 17 - Parque Santana 5,806m	7508855,189	623004,958	-22,52241648	-43,80396359
UBS - Ponte Vermelha	7510730,137	621400,152	-22,50559698	-43,81970914
UBS - Santana da Barra	7508656,562	622956,05	-22,524214	-43,80442363
Rota 17 - Boca do Mato 487m	7508855,604	623004,641	-22,52241275	-43,8039667
Rota 17 - Boca do Mato 487m	7508823,393	623011,885	-22,52270316	-43,80389377
Rota 17 - Boca do Mato 487m	7508769,157	623011,927	-22,52319301	-43,80388915
Rota 17 - Boca do Mato 487m	7508703,705	622984,746	-22,52378614	-43,80414831
Rota 17 - Boca do Mato 487m	7508663,88	622952,815	-22,52414814	-43,80445565
Rota 17 - Boca do Mato 487m	7508761,745	623055,503	-22,52325681	-43,80346494
Rota 17 - Boca do Mato 487m	7508771,906	623074,145	-22,52316369	-43,80328449
Rota 17 - Boca do Mato 487m	7508777,077	623078,004	-22,52311671	-43,80324737
Rota 17 - Boca do Mato 487m	7508821,709	623027,382	-22,52271725	-43,80374299
Rota 17 - Boca do Mato 487m	7508844,096	623011,187	-22,52251622	-43,80390217
Rota 17 - Boca do Mato 487m	7508855,604	623004,641	-22,52241275	-43,8039667
Rota 17 - Boca do Mato 1,609m	7508776,95	623077,843	-22,52311786	-43,80324893
Rota 17 - Boca do Mato 1,609m	7508783,546	623102,001	-22,52305655	-43,80301458
Rota 17 - Boca do Mato 1,609m	7508790,646	623121,006	-22,52299104	-43,80283036
Rota 17 - Boca do Mato 1,609m	7508785,869	623141,657	-22,52303269	-43,80262923
Rota 17 - Boca do Mato 1,609m	7508772,879	623159,38	-22,52314874	-43,80245591
Rota 17 - Boca do Mato 1,609m	7508760,67	623171,746	-22,52325812	-43,80233474

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 17 - Boca do Mato 1,609m	7508729,64	623200,067	-22,52353633	-43,802057
Rota 17 - Boca do Mato 1,609m	7508714,882	623215,035	-22,52366854	-43,80191033
Rota 17 - Boca do Mato 1,609m	7508709,382	623226,3	-22,5237174	-43,80180038
Rota 17 - Boca do Mato 1,609m	7508701,044	623243,349	-22,52379148	-43,80163399
Rota 17 - Boca do Mato 1,609m	7508691,314	623263,271	-22,52387791	-43,80143954
Rota 17 - Boca do Mato 1,609m	7508677,295	623280,604	-22,52400328	-43,80126994
Rota 17 - Boca do Mato 1,609m	7508667,653	623285,375	-22,52409002	-43,80122281
Rota 17 - Boca do Mato 1,609m	7508627,285	623283,308	-22,52445477	-43,80123975
Rota 17 - Boca do Mato 1,609m	7508609,9	623279,766	-22,52461205	-43,80127283
Rota 17 - Boca do Mato 1,609m	7508591,281	623278,601	-22,52478031	-43,80128271
Rota 17 - Boca do Mato 1,609m	7508571,809	623280,549	-22,52495604	-43,80126226
Rota 17 - Boca do Mato 1,609m	7508559,189	623287,797	-22,52506949	-43,80119081
Rota 17 - Boca do Mato 1,609m	7508547,996	623297,066	-22,52516992	-43,80109982
Rota 17 - Boca do Mato 1,609m	7508517,694	623304,281	-22,52544309	-43,80102731
Rota 17 - Boca do Mato 1,609m	7508505,617	623313,759	-22,52555148	-43,80093423
Rota 17 - Boca do Mato 1,609m	7508496,813	623320,43	-22,52563051	-43,80086868
Rota 17 - Boca do Mato 1,609m	7508470,291	623326,993	-22,52586959	-43,80080281
Rota 17 - Boca do Mato 1,609m	7508445,585	623335,335	-22,52609212	-43,80071979
Rota 17 - Boca do Mato 1,609m	7508425,228	623353,633	-22,52627467	-43,8005403
Rota 17 - Boca do Mato 1,609m	7508414,141	623363,123	-22,52637411	-43,80044717
Rota 17 - Boca do Mato 1,609m	7508400,988	623381,449	-22,52649158	-43,80026798
Rota 17 - Boca do Mato 1,609m	7508383,721	623405,836	-22,52664576	-43,80002954
Rota 17 - Boca do Mato 1,609m	7508348,022	623426,819	-22,52696668	-43,79982275
Rota 17 - Boca do Mato 1,609m	7508317,063	623442,364	-22,52724517	-43,79966921
Rota 17 - Boca do Mato 1,609m	7508275,248	623459,075	-22,52762164	-43,79950348
Rota 17 - Boca do Mato 1,609m	7508245,777	623469,77	-22,52788704	-43,7993972
Rota 17 - Boca do Mato 1,609m	7508213,54	623476,969	-22,52817769	-43,79932469
Rota 17 - Boca do Mato 1,609m	7508195,002	623479,39	-22,52834494	-43,79929971
Rota 17 - Boca do Mato 1,609m	7508165,026	623486,029	-22,5286152	-43,79923281
Rota 17 - Boca do Mato 1,609m	7508139,168	623489,867	-22,52884847	-43,79919348
Rota 17 - Boca do Mato 1,609m	7508116,45	623498,918	-22,52905301	-43,79910372
Rota 17 - Boca do Mato 1,609m	7508098,729	623520,366	-22,52921151	-43,7988938
Rota 17 - Boca do Mato 1,609m	7508079,674	623541,908	-22,52938205	-43,79868287
Rota 17 - Boca do Mato 1,609m	7508049,568	623568,352	-22,52965205	-43,79842343
Rota 17 - Boca do Mato 1,609m	7508029,445	623575,353	-22,52983329	-43,79835379
Rota 17 - Boca do Mato 1,609m	7508006,958	623571,397	-22,53003668	-43,79839049
Rota 17 - Boca do Mato 1,609m	7507986,073	623561,151	-22,53022605	-43,79848848
Rota 17 - Boca do Mato 1,609m	7507958,384	623548,965	-22,53047703	-43,79860479
Rota 17 - Boca do Mato 1,609m	7507937,502	623543,602	-22,53066602	-43,7986553
Rota 17 - Boca do Mato 1,609m	7507859,256	623519,814	-22,53137447	-43,79888046
Rota 17 - Boca do Mato 1,609m	7507841,722	623520,071	-22,53153281	-43,7988766
Rota 17 - Boca do Mato 1,609m	7507808,413	623522,855	-22,53183346	-43,79884693
Rota 17 - Boca do Mato 1,609m	7507772,26	623529,739	-22,53215949	-43,79877718

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	


PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 17 - Boca do Mato 1,609m	7507748,57	623532,229	-22,53237328	-43,79875112
Rota 17 - Boca do Mato 1,609m	7507731,789	623540,18	-22,53252427	-43,7986725
Rota 17 - Boca do Mato 1,609m	7507726,625	623553,801	-22,53256991	-43,79853966
Rota 17 - Boca do Mato 1,609m	7507721,273	623575,95	-22,53261665	-43,79832391
Rota 17 - Boca do Mato 1,609m	7507715,278	623599,383	-22,53266909	-43,79809561
Rota 17 - Boca do Mato 1,609m	7507708,997	623630,616	-22,53272355	-43,79779145
Rota 17 - Boca do Mato 1,609m	7507685,326	623638,021	-22,53293681	-43,7977176
Rota 17 - Boca do Mato 1,609m	7507654,488	623645,892	-22,53321477	-43,79763867
Rota 17 - Boca do Mato 1,609m	7507610,832	623653,453	-22,53360852	-43,79756175
Rota 17 - Boca do Mato 1,609m	7507578,188	623652,553	-22,53390343	-43,79756794
Rota 17 - Boca do Mato 1,609m	7507551,102	623648,64	-22,53414835	-43,79760387
Rota 17 - Boca do Mato 1,609m	7507534,607	623626,267	-22,53429896	-43,7978201
Rota 17 - Boca do Mato 1,609m	7507513,674	623610,095	-22,5344892	-43,7979757
UBS - Boca do Mato	7507520,445	623601,834	-22,53442864	-43,79805655
Rota 17 - Parque Santana 873m	7509318,818	622758,781	-22,51824674	-43,80639286
Rota 17 - Parque Santana 873m	7509333,982	622777,307	-22,51810844	-43,80621394
Rota 17 - Parque Santana 873m	7509343,474	622781,594	-22,51802239	-43,806173
Rota 17 - Parque Santana 873m	7509382,173	622743,142	-22,51767564	-43,80654981
Rota 17 - Parque Santana 873m	7509432,249	622692,736	-22,51722698	-43,80704371
Rota 17 - Parque Santana 873m	7509476,361	622667,862	-22,51683035	-43,80728894
Rota 17 - Parque Santana 873m	7509512,479	622661,032	-22,51650462	-43,80735815
Rota 17 - Parque Santana 873m	7509534,686	622668,15	-22,51630354	-43,80729066
Rota 17 - Parque Santana 873m	7509571,979	622696,667	-22,51596465	-43,80701633
Rota 17 - Parque Santana 873m	7509660,325	622787,278	-22,51516018	-43,80614232
Rota 17 - Parque Santana 873m	7509687,604	622807,709	-22,51491232	-43,80594582
Rota 17 - Parque Santana 873m	7509728,116	622841,106	-22,51454401	-43,8056243
Rota 17 - Parque Santana 873m	7509774,168	622919,617	-22,5141224	-43,80486465
Rota 17 - Parque Santana 873m	7509874,398	623080,097	-22,51320553	-43,80331237
Rota 17 - Parque Santana 873m	7509915,85	623126,432	-22,5128278	-43,80286516
UBS - Parque Santana	7509917,284	623140,875	-22,5128138	-43,80272487
UBS - Vargem Grande	7512690,564	621501,188	-22,48788303	-43,81887732
Sec, de Saãde	7514504,957	620656,266	-22,47155516	-43,82722759

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 18 - 12,764m	7514663,484	620276,159	-22,47015014	-43,83093364
Rota 18 - 12,764m	7514557,665	620226,134	-22,47110944	-43,83141178
Rota 18 - 12,764m	7514502,947	620205,742	-22,4716051	-43,83160581
Rota 18 - 12,764m	7514461,314	620198,567	-22,47198164	-43,83167239
Rota 18 - 12,764m	7514380,581	620193,277	-22,47271121	-43,83171768
Rota 18 - 12,764m	7514333,934	620167,279	-22,47313435	-43,83196681
Rota 18 - 12,764m	7514302,615	620143,869	-22,47341888	-43,83219195
Rota 18 - 12,764m	7514265,136	620133,364	-22,47375814	-43,83229121
Rota 18 - 12,764m	7514182,857	620131,119	-22,47450145	-43,83230679
Rota 18 - 12,764m	7514155,252	620126,739	-22,47475109	-43,83234726
Rota 18 - 12,764m	7514099,782	620105,297	-22,47525361	-43,83255145
Rota 18 - 12,764m	7514080,665	620091,92	-22,47542722	-43,83268002
Rota 18 - 12,764m	7514054,502	620073,032	-22,47566486	-43,8328616
Rota 18 - 12,764m	7514035,865	620045,824	-22,47583511	-43,83312462
Rota 18 - 12,764m	7514010,152	620008,421	-22,47606998	-43,83348618
Rota 18 - 12,764m	7513972,088	619957,352	-22,47641737	-43,83397963
Rota 18 - 12,764m	7513916,836	619877,815	-22,47692201	-43,83474845
Rota 18 - 12,764m	7513889,035	619856,702	-22,47717459	-43,83495155
Rota 18 - 12,764m	7513817,916	619814,669	-22,4778199	-43,83535468
Rota 18 - 12,764m	7513737,166	619773,108	-22,47855217	-43,83575251
Rota 18 - 12,764m	7513703,391	619738,05	-22,47885969	-43,83609068
Rota 18 - 12,764m	7513676,814	619697,915	-22,47910255	-43,83647875
Rota 18 - 12,764m	7513660,858	619665,58	-22,47924894	-43,83679181
Rota 18 - 12,764m	7513638,588	619567,921	-22,47945692	-43,83773927
Rota 18 - 12,764m	7513628,64	619504,366	-22,47955123	-43,83835621
Rota 18 - 12,764m	7513600,458	619368,235	-22,4798153	-43,83967714
Rota 18 - 12,764m	7513560,226	619221,695	-22,48018893	-43,84109834
Rota 18 - 12,764m	7513523,047	619033,018	-22,48053791	-43,84292931
Rota 18 - 12,764m	7513528,068	618962,706	-22,48049745	-43,84361306
Rota 18 - 12,764m	7513561,4	618882,541	-22,48020199	-43,84439468
Rota 18 - 12,764m	7513636,38	618811,905	-22,47952967	-43,84508681
Rota 18 - 12,764m	7513693,198	618761,801	-22,47901997	-43,84557802
Rota 18 - 12,764m	7513720,915	618695,233	-22,47877425	-43,84622708
Rota 18 - 12,764m	7513862,393	618315,191	-22,47752278	-43,84993124
Rota 18 - 12,764m	7513886,013	618244,004	-22,47731437	-43,85062486
Rota 18 - 12,764m	7513886,548	618174,844	-22,47731433	-43,85129706
Rota 18 - 12,764m	7513883,417	617983,822	-22,47735583	-43,85315334
Rota 18 - 12,764m	7513866,427	617900,361	-22,47751506	-43,85396323
Rota 18 - 12,764m	7513836,095	617803,851	-22,47779569	-43,85489895
Rota 18 - 12,764m	7513824,973	617737,474	-22,47790072	-43,85554323
Rota 18 - 12,764m	7513839,199	617684,875	-22,47777585	-43,85605549
Rota 18 - 12,764m	7513850,861	617662,59	-22,47767206	-43,85627294
Rota 18 - 12,764m	7513841,869	617623,864	-22,47775595	-43,85664866

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 18 - 12,764m	7513826,657	617604,243	-22,47789469	-43,85683822
Rota 18 - 12,764m	7513820,334	617566,241	-22,47795443	-43,85720709
Rota 18 - 12,764m	7513830,645	617530,575	-22,47786375	-43,85755449
Rota 18 - 12,764m	7513899,544	617457,652	-22,47724646	-43,85826832
Rota 18 - 12,764m	7513941,633	617433,453	-22,47686797	-43,85850663
Rota 18 - 12,764m	7514052,689	617388,255	-22,47586799	-43,85895412
Rota 18 - 12,764m	7514176,707	617326,579	-22,47475207	-43,85956271
Rota 18 - 12,764m	7514274,124	617243,068	-22,47387791	-43,86038153
Rota 18 - 12,764m	7514351,516	617167,917	-22,47318405	-43,86111761
Rota 18 - 12,764m	7514445,498	617053,918	-22,472343	-43,86223246
Rota 18 - 12,764m	7514506,499	617018,113	-22,47179448	-43,86258493
Rota 18 - 12,764m	7514546,101	616963,475	-22,47144053	-43,86311885
Rota 18 - 12,764m	7514628,214	616910,674	-22,47070248	-43,86363805
Rota 18 - 12,764m	7514670,984	616922,817	-22,47031534	-43,86352318
Rota 18 - 12,764m	7514724,01	616952,26	-22,46983437	-43,86324095
Rota 18 - 12,764m	7514809,999	616945,837	-22,46905815	-43,86330971
Rota 18 - 12,764m	7514846,343	616915,747	-22,46873194	-43,86360482
Rota 18 - 12,764m	7514855,446	616886,235	-22,46865173	-43,86389229
Rota 18 - 12,764m	7514875,323	616851,781	-22,46847456	-43,8642286
Rota 18 - 12,764m	7514961,301	616928,66	-22,46769272	-43,8634878
Rota 18 - 12,764m	7515017,008	617029,571	-22,46718264	-43,86251122
Rota 18 - 12,764m	7515038,207	617124,891	-22,46698463	-43,86158645
Rota 18 - 12,764m	7515047,799	617243,281	-22,46688988	-43,86043662
Rota 18 - 12,764m	7515054,25	617315,698	-22,46682664	-43,85973334
Rota 18 - 12,764m	7515065,069	617402,346	-22,46672296	-43,85889208
Rota 18 - 12,764m	7515071,284	617469,828	-22,46666219	-43,85823674
Rota 18 - 12,764m	7515085,865	617540,582	-22,46652561	-43,85755023
Rota 18 - 12,764m	7515134,593	617613,781	-22,46608046	-43,85684247
Rota 18 - 12,764m	7515236,961	617695,76	-22,46515019	-43,85605339
Rota 18 - 12,764m	7515330,799	617795,589	-22,46429574	-43,85509021
Rota 18 - 12,764m	7515388,996	617884,127	-22,46376398	-43,85423412
Rota 18 - 12,764m	7515542,813	618094,546	-22,46236014	-43,85220073
Rota 18 - 12,764m	7515780,125	618424,828	-22,46019381	-43,84900881
Rota 18 - 12,764m	7515877,016	618564,556	-22,45930898	-43,84765821
Rota 18 - 12,764m	7515917,868	618659,813	-22,45893338	-43,8467356
Rota 18 - 12,764m	7516101,133	619099,215	-22,45724752	-43,84247943
Rota 18 - 12,764m	7516123,096	619177,818	-22,45704366	-43,84171726
Rota 18 - 12,764m	7516148,104	619333,434	-22,45680692	-43,84020695
Rota 18 - 12,764m	7516158,597	619413,377	-22,45670655	-43,8394309
Rota 18 - 12,764m	7516178,184	619462,241	-22,45652623	-43,83895754
Rota 18 - 12,764m	7516191,808	619464,64	-22,45640301	-43,83893525
Rota 18 - 12,764m	7516203,161	619452,446	-22,45630131	-43,8390546
Rota 18 - 12,764m	7516202,857	619400,732	-22,45630768	-43,83955711

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 18 - 12,764m	7516145,861	619414,435	-22,45682152	-43,83941966
Rota 18 - 12,764m	7516115,456	619413,899	-22,45709618	-43,83942258
Rota 18 - 12,764m	7516075,455	619385,489	-22,45745946	-43,83969565
Rota 18 - 12,764m	7515964,052	619316,568	-22,45847049	-43,84035701
Rota 18 - 12,764m	7515940,85	619317,222	-22,45868001	-43,84034892
Rota 18 - 12,764m	7515903,182	619356,624	-22,45901748	-43,8399632
Rota 18 - 12,764m	7515858,784	619401,729	-22,45941534	-43,83952154
Rota 18 - 12,764m	7515828,535	619408,77	-22,45968806	-43,83945085
Rota 18 - 12,764m	7515651,277	619445,414	-22,46128653	-43,83908142
Rota 18 - 12,764m	7515619,517	619448,753	-22,46157316	-43,83904658
Rota 18 - 12,764m	7515607,941	619467,667	-22,4616764	-43,83886191
Rota 18 - 12,764m	7515607,966	619510,557	-22,46167316	-43,83844512
Rota 18 - 12,764m	7515621,979	619541,788	-22,46154442	-43,83814268
Rota 18 - 12,764m	7515620,944	619568,003	-22,46155193	-43,83788785
Rota 18 - 12,764m	7515599,183	619586,966	-22,46174715	-43,83770193
Rota 18 - 12,764m	7515565,197	619617,297	-22,46205199	-43,83740463
Rota 18 - 12,764m	7515540,377	619659,054	-22,46227325	-43,83699697
Rota 18 - 12,764m	7515511,966	619753,187	-22,46252327	-43,83608006
Rota 18 - 12,764m	7515484,38	619811,87	-22,46276831	-43,83550771
Rota 18 - 12,764m	7515462,229	619839,441	-22,46296645	-43,83523811
Rota 18 - 12,764m	7515431,717	619886,527	-22,46323873	-43,83477823
Rota 18 - 12,764m	7515416,551	619930,709	-22,46337261	-43,83434774
Rota 18 - 12,764m	7515394,313	619964,722	-22,46357108	-43,83401552
Rota 18 - 12,764m	7515370,396	619981,581	-22,46378592	-43,83384988
Rota 18 - 12,764m	7515317,509	620033,417	-22,46425996	-43,83334215
Rota 18 - 12,764m	7515298,932	620077,22	-22,46442467	-43,83291507
Rota 18 - 12,764m	7515271,72	620128,235	-22,46466687	-43,83241725
Rota 18 - 12,764m	7515251,24	620164,934	-22,46484926	-43,83205906
Rota 18 - 12,764m	7515085,59	620460,631	-22,46632461	-43,82917293
Rota 18 - 12,764m	7515238,171	620549,633	-22,46494019	-43,82831959
Rota 18 - 12,764m	7515268,532	620587,154	-22,46466332	-43,82795728
Rota 18 - 12,764m	7515278,905	620622,931	-22,4645671	-43,82761038
Rota 18 - 12,764m	7515250,914	620638,386	-22,46481883	-43,82745807
Rota 18 - 12,764m	7515189,259	620668,686	-22,46537356	-43,82715893
Rota 18 - 12,764m	7515134,57	620698,023	-22,46586545	-43,82686967
Rota 18 - 12,764m	7514814,921	620869,124	-22,46874046	-43,82518257
Rota 18 - 12,764m	7514823,531	620892,564	-22,46866104	-43,82495544
Rota 18 - 12,764m	7514835,607	620915,113	-22,46855037	-43,82473722
Rota 18 - 12,764m	7514842,48	620930,667	-22,46848719	-43,82458659
Rota 18 - 12,764m	7514845,009	620944,401	-22,46846337	-43,8244533
Rota 18 - 12,764m	7514862,358	620949,651	-22,46830631	-43,82440361
Rota 18 - 12,764m	7514998,604	620960,954	-22,46707491	-43,82430415
Rota 18 - 12,764m	7515056,231	620979,297	-22,46655311	-43,82413029

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 18 - 12,764m	7515110,608	621018,061	-22,46605923	-43,82375772
Rota 18 - 12,764m	7515148,528	621067,509	-22,46571323	-43,82328008
Rota 18 - 12,764m	7515161,921	621136,706	-22,46558735	-43,82260865
Rota 18 - 12,764m	7515179,729	621197,212	-22,46542221	-43,82202202
Rota 18 - 12,764m	7515242,97	621306,245	-22,46484327	-43,82096727
Rota 18 - 12,764m	7515287,239	621349,678	-22,46444034	-43,82054857
Rota 18 - 12,764m	7515333,088	621412,378	-22,46402177	-43,81994278
Rota 18 - 12,764m	7515384,858	621455,578	-22,46355111	-43,81952693
Rota 18 - 12,764m	7515497,35	621542,273	-22,4625289	-43,81869306
Rota 18 - 12,764m	7515538,507	621578,919	-22,46215456	-43,81834009
Rota 18 - 12,764m	7515551,205	621601,623	-22,46203825	-43,81812043
Rota 18 - 12,764m	7515544,586	621643,369	-22,46209506	-43,81771425
Rota 18 - 12,764m	7515540,814	621675,645	-22,46212683	-43,81740032
Rota 18 - 12,764m	7515545,73	621715,035	-22,46207962	-43,81701791
Rota 18 - 12,764m	7515567,149	621745,688	-22,46188398	-43,81672167
Rota 18 - 12,764m	7515598,126	621804,344	-22,46160001	-43,81615406
Rota 18 - 12,764m	7515641,424	621845,284	-22,46120602	-43,81575953
Rota 18 - 12,764m	7515653,407	621869,859	-22,46109603	-43,81552165
Rota 18 - 12,764m	7515692,357	621955,109	-22,46073815	-43,81469621
Rota 18 - 12,764m	7515769,205	622123,102	-22,46003204	-43,81306963
Rota 18 - 12,764m	7515844,499	622271,281	-22,45934138	-43,81163551
Rota 18 - 12,764m	7515882,873	622360,546	-22,45898839	-43,81077102
Rota 18 - 12,764m	7515951,966	622488,384	-22,45835518	-43,8095341
Rota 18 - 12,764m	7516000,716	622585,322	-22,4579079	-43,80859588
UBS - Oficinas Velhas	7513649,664	619565,139	-22,47935708	-43,83776714
Rota 16 - Lago Azul 393m	7515043,725	617195,283	-22,46692997	-43,86090277
Rota 16 - Lago Azul 393m	7515024,571	617211,546	-22,46710185	-43,86074331
Rota 16 - Lago Azul 393m	7515013,929	617220,893	-22,46719733	-43,86065169
Rota 16 - Lago Azul 393m	7515003,37	617236,543	-22,46729163	-43,86049882
Rota 16 - Lago Azul 393m	7514998,637	617256,169	-22,46733303	-43,86030774
Rota 16 - Lago Azul 393m	7514985,54	617277,287	-22,46744988	-43,86010154
Rota 16 - Lago Azul 393m	7514966,858	617297,938	-22,4676172	-43,85989947
Rota 16 - Lago Azul 393m	7514955,646	617313,309	-22,46771741	-43,85974927
Rota 16 - Lago Azul 393m	7514954,796	617323,58	-22,46772438	-43,85964939
Rota 16 - Lago Azul 393m	7514962,227	617336,949	-22,46765635	-43,85952002
Rota 16 - Lago Azul 393m	7514980,23	617344,851	-22,4674932	-43,85944456
Rota 16 - Lago Azul 393m	7514992,612	617355,433	-22,46738063	-43,85934263
Rota 16 - Lago Azul 393m	7514997,066	617370,864	-22,46733935	-43,859193
Rota 16 - Lago Azul 393m	7514993,725	617393,882	-22,46736794	-43,85896906
Rota 16 - Lago Azul 393m	7514985,964	617409,943	-22,46743694	-43,8588124
Rota 16 - Lago Azul 393m	7514976,198	617422,33	-22,46752429	-43,8586913
Rota 16 - Lago Azul 393m	7514954,106	617428,875	-22,46772338	-43,85862606
Rota 16 - Lago Azul 393m	7514940,335	617435,805	-22,46784729	-43,85855769

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 16 - Lago Azul 393m	7514926,119	617447,21	-22,4679749	-43,8584458
Rota 16 - Lago Azul 393m	7514890,223	617484,917	-22,46829653	-43,8580767
UBS - Lago Azul	7514893,028	617490,146	-22,46827084	-43,85802609
Rota 18 - Ipiabas 12,189m	7516203,63	619384,812	-22,4563018	-43,83971186
Rota 18 - Ipiabas 12,189m	7516202,791	619401,318	-22,45630823	-43,8395514
Rota 18 - Ipiabas 12,189m	7516207,926	619320,255	-22,45626752	-43,84033951
Rota 18 - Ipiabas 12,189m	7516221,273	619277,149	-22,45614997	-43,84075938
Rota 18 - Ipiabas 12,189m	7516292,326	619189,359	-22,45551434	-43,84161781
Rota 18 - Ipiabas 12,189m	7516458,722	619067,644	-22,4540199	-43,84281303
Rota 18 - Ipiabas 12,189m	7516528,009	619012,042	-22,45339796	-43,84335851
Rota 18 - Ipiabas 12,189m	7516548,688	618986,114	-22,45321298	-43,84361201
Rota 18 - Ipiabas 12,189m	7516557,532	618927,832	-22,45313716	-43,84417901
Rota 18 - Ipiabas 12,189m	7516573,157	618619,817	-22,45301744	-43,84717321
Rota 18 - Ipiabas 12,189m	7516679,242	618314,065	-22,45208045	-43,85015215
Rota 18 - Ipiabas 12,189m	7516778,266	618028,805	-22,45120577	-43,85293142
Rota 18 - Ipiabas 12,189m	7516815,946	618005,145	-22,45086707	-43,85316412
Rota 18 - Ipiabas 12,189m	7516937,656	618016,286	-22,44976698	-43,8530649
Rota 18 - Ipiabas 12,189m	7517046,238	618047,795	-22,44878407	-43,8527668
Rota 18 - Ipiabas 12,189m	7517183,209	618089,692	-22,44754402	-43,85236988
Rota 18 - Ipiabas 12,189m	7517308,408	618103,906	-22,44641221	-43,85224106
Rota 18 - Ipiabas 12,189m	7517636,709	618136,14	-22,44344468	-43,85195226
Rota 18 - Ipiabas 12,189m	7517750,546	618082,491	-22,44242019	-43,852482
Rota 18 - Ipiabas 12,189m	7517928,812	617985,789	-22,44081672	-43,85343484
Rota 18 - Ipiabas 12,189m	7517967,57	617901,159	-22,44047248	-43,85426001
Rota 18 - Ipiabas 12,189m	7517965,802	617841,531	-22,44049256	-43,85483924
Rota 18 - Ipiabas 12,189m	7517923,748	617784,464	-22,44087634	-43,8553906
Rota 18 - Ipiabas 12,189m	7517874,119	617717,027	-22,44132924	-43,85604217
Rota 18 - Ipiabas 12,189m	7517847,924	617674,626	-22,44156876	-43,85645221
Rota 18 - Ipiabas 12,189m	7517845,136	617494,411	-22,44160634	-43,85820304
Rota 18 - Ipiabas 12,189m	7517832,197	617451,598	-22,44172614	-43,85861808
Rota 18 - Ipiabas 12,189m	7517796,854	617392,499	-22,44204943	-43,85918969
Rota 18 - Ipiabas 12,189m	7517764,815	617355,768	-22,44234134	-43,85954423
Rota 18 - Ipiabas 12,189m	7517749,517	617325,712	-22,44248158	-43,85983513
Rota 18 - Ipiabas 12,189m	7517775,679	617269,029	-22,44224916	-43,86038782
Rota 18 - Ipiabas 12,189m	7517857,87	617197,265	-22,44151171	-43,86109118
Rota 18 - Ipiabas 12,189m	7517918,937	617157,569	-22,44096286	-43,86148138
Rota 18 - Ipiabas 12,189m	7518104,93	617069,436	-22,43928896	-43,86235141
Rota 18 - Ipiabas 12,189m	7518160,721	617066,547	-22,43878523	-43,86238359
Rota 18 - Ipiabas 12,189m	7518213,45	617060,876	-22,43830936	-43,86244257
Rota 18 - Ipiabas 12,189m	7518268,425	617028,77	-22,43781501	-43,86275857
Rota 18 - Ipiabas 12,189m	7518345,597	616999,006	-22,43712	-43,86305344
Rota 18 - Ipiabas 12,189m	7518457,85	616972,322	-22,43610792	-43,86332097
Rota 18 - Ipiabas 12,189m	7518560,22	616956,783	-22,43518435	-43,86347947



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 18 - Ipiabas 12,189m	7518598,576	616955,871	-22,43483796	-43,86349115
Rota 18 - Ipiabas 12,189m	7518673,583	616990,373	-22,43415812	-43,86316146
Rota 18 - Ipiabas 12,189m	7518753,259	616981,268	-22,43343909	-43,86325579
Rota 18 - Ipiabas 12,189m	7518856,902	616946,53	-22,43250533	-43,86360091
Rota 18 - Ipiabas 12,189m	7518923,838	616900,489	-22,43190389	-43,86405316
Rota 18 - Ipiabas 12,189m	7519018,094	616891,939	-22,43105313	-43,86414316
Rota 18 - Ipiabas 12,189m	7519057,679	616920,066	-22,43069366	-43,86387279
Rota 18 - Ipiabas 12,189m	7519111,099	616978,196	-22,43020718	-43,86331195
Rota 18 - Ipiabas 12,189m	7519152,285	617040,09	-22,42983094	-43,86271364
Rota 18 - Ipiabas 12,189m	7519201,187	617068,86	-22,42938728	-43,86243773
Rota 18 - Ipiabas 12,189m	7519281,24	617056,655	-22,42866505	-43,8625622
Rota 18 - Ipiabas 12,189m	7519333,034	617047,02	-22,42819789	-43,86265962
Rota 18 - Ipiabas 12,189m	7519385,713	617060,482	-22,42772115	-43,8625327
Rota 18 - Ipiabas 12,189m	7519476,306	617077,918	-22,4269017	-43,86236997
Rota 18 - Ipiabas 12,189m	7519521,499	617086,692	-22,4264929	-43,86228805
Rota 18 - Ipiabas 12,189m	7519566,578	617068,611	-22,42608697	-43,86246704
Rota 18 - Ipiabas 12,189m	7519720,958	617005,18	-22,4246969	-43,86309465
Rota 18 - Ipiabas 12,189m	7519917,578	616908,859	-22,42292755	-43,86404487
Rota 18 - Ipiabas 12,189m	7520199,445	616792,025	-22,42038962	-43,86520062
Rota 18 - Ipiabas 12,189m	7520513,381	616670,358	-22,41756234	-43,86640563
Rota 18 - Ipiabas 12,189m	7520790,547	616565,212	-22,41506605	-43,8674474
Rota 18 - Ipiabas 12,189m	7520930,05	616574,396	-22,41380538	-43,86736839
Rota 18 - Ipiabas 12,189m	7521010,621	616574,364	-22,41307764	-43,8673746
Rota 18 - Ipiabas 12,189m	7521121,785	616488,936	-22,41207939	-43,86821263
Rota 18 - Ipiabas 12,189m	7521196,33	616433,97	-22,41140981	-43,86875203
Rota 18 - Ipiabas 12,189m	7521242,876	616435,639	-22,41098928	-43,86873923
Rota 18 - Ipiabas 12,189m	7521282,346	616460,425	-22,41063109	-43,86850133
Rota 18 - Ipiabas 12,189m	7521356,369	616478,484	-22,40996126	-43,86833132
Rota 18 - Ipiabas 12,189m	7521409,873	616473,431	-22,40947834	-43,86838432
Rota 18 - Ipiabas 12,189m	7521464,388	616430,356	-22,40898886	-43,86880675
Rota 18 - Ipiabas 12,189m	7521507,348	616429,112	-22,40860092	-43,86882197
Rota 18 - Ipiabas 12,189m	7521544,479	616411,731	-22,40826672	-43,86899353
Rota 18 - Ipiabas 12,189m	7521579,296	616363,905	-22,40795549	-43,86946066
Rota 18 - Ipiabas 12,189m	7521647,746	616322,727	-22,40734002	-43,86986567
Rota 18 - Ipiabas 12,189m	7521825,021	616218,178	-22,40574591	-43,8708942
Rota 18 - Ipiabas 12,189m	7521856,941	616135,117	-22,40546323	-43,87170337
Rota 18 - Ipiabas 12,189m	7521871,841	616090,011	-22,40533171	-43,87214262
Rota 18 - Ipiabas 12,189m	7521918,669	616071,96	-22,40490996	-43,87232138
Rota 18 - Ipiabas 12,189m	7521994,691	616072,606	-22,40422326	-43,87232065
Rota 18 - Ipiabas 12,189m	7522041,625	616076,891	-22,40379905	-43,87228244
Rota 18 - Ipiabas 12,189m	7522136,632	616084,186	-22,40294041	-43,87221851
Rota 18 - Ipiabas 12,189m	7522169,209	616084,433	-22,40264615	-43,87221848
Rota 18 - Ipiabas 12,189m	7522243,298	616131,889	-22,40197374	-43,8717629

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMS</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 18 - Ipiabas 12,189m	7522278,703	616163,249	-22,40165182	-43,87146086
Rota 18 - Ipiabas 12,189m	7522315,008	616169,418	-22,40132348	-43,87140359
Rota 18 - Ipiabas 12,189m	7522384,632	616139,468	-22,40069664	-43,87169959
Rota 18 - Ipiabas 12,189m	7522419,706	616158,716	-22,40037854	-43,87151518
Rota 18 - Ipiabas 12,189m	7522478,385	616177,995	-22,39984722	-43,87133219
Rota 18 - Ipiabas 12,189m	7522535,855	616162,228	-22,3993292	-43,87148953
Rota 18 - Ipiabas 12,189m	7522604,105	616132,464	-22,39871476	-43,87178362
Rota 18 - Ipiabas 12,189m	7522768,732	616057,717	-22,39723285	-43,87252166
Rota 18 - Ipiabas 12,189m	7522856,173	616056,395	-22,39644314	-43,87254088
Rota 18 - Ipiabas 12,189m	7522899,615	616100,775	-22,39604775	-43,87211297
Rota 18 - Ipiabas 12,189m	7522924,321	616150,952	-22,3958212	-43,87162738
Rota 18 - Ipiabas 12,189m	7522952,01	616224,795	-22,39556609	-43,87091214
Rota 18 - Ipiabas 12,189m	7522970,796	616285,639	-22,39539228	-43,87032253
Rota 18 - Ipiabas 12,189m	7523004,332	616330,398	-22,39508634	-43,86989022
Rota 18 - Ipiabas 12,189m	7523030,149	616352,898	-22,39485162	-43,86967356
Rota 18 - Ipiabas 12,189m	7523176,298	616358,762	-22,39353115	-43,86962727
Rota 18 - Ipiabas 12,189m	7523242,459	616380,977	-22,39293206	-43,86941632
Rota 18 - Ipiabas 12,189m	7523291,939	616391,358	-22,39248443	-43,86931911
Rota 18 - Ipiabas 12,189m	7523372,8	616378,229	-22,39175495	-43,86945254
Rota 18 - Ipiabas 12,189m	7523511,477	616322,764	-22,39050613	-43,87000139
Rota 18 - Ipiabas 12,189m	7523584,5	616325,842	-22,38984636	-43,86997682
Rota 18 - Ipiabas 12,189m	7523743,366	616351,376	-22,38840968	-43,8697404
Rota 18 - Ipiabas 12,189m	7523813,57	616354,508	-22,38777537	-43,86971511
Rota 18 - Ipiabas 12,189m	7523897,879	616388,595	-22,38701154	-43,86939019
Rota 18 - Ipiabas 12,189m	7523961,388	616441,783	-22,38643429	-43,86887823
Rota 18 - Ipiabas 12,189m	7524013,543	616470,451	-22,38596126	-43,86860359
Rota 18 - Ipiabas 12,189m	7524041,064	616482,752	-22,38571185	-43,86848614
Rota 18 - Ipiabas 12,189m	7524341,258	616446,148	-22,38300287	-43,86886358
Rota 18 - Ipiabas 12,189m	7524446,057	616414,474	-22,38205843	-43,86917885
Rota 18 - Ipiabas 12,189m	7524552,21	616349,918	-22,38110401	-43,86981359
Rota 18 - Ipiabas 12,189m	7524656,823	616296,596	-22,38016272	-43,8703391
Rota 18 - Ipiabas 12,189m	7524748,008	616251,621	-22,37934215	-43,87078254
Rota 18 - Ipiabas 12,189m	7524846,395	616219,968	-22,37845562	-43,87109713
Rota 18 - Ipiabas 12,189m	7524940,917	616190,449	-22,37760386	-43,87139071
Rota 18 - Ipiabas 12,189m	7525019,136	616154,851	-22,37689976	-43,87174213
Rota 18 - Ipiabas 12,189m	7525230,297	616033,288	-22,3750007	-43,8729381
Rota 18 - Ipiabas 12,189m	7525386,24	615951,964	-22,37359766	-43,87373924
Rota 18 - Ipiabas 12,189m	7525429,737	615988,209	-22,37320234	-43,87339041
UBS - Ipiabas	7525428,116	616000,921	-22,37321611	-43,87326683
UBS - Parque São Joaquim	7516028,398	622587,696	-22,45765771	-43,80857494

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - 3,391m	7514658,854	620272,307	-22,47019223	-43,83097072
Rota 19 - 3,391m	7514533,54	620222,653	-22,47132758	-43,83144378
Rota 19 - 3,391m	7514455,03	620199,778	-22,47203831	-43,83166014
Rota 19 - 3,391m	7514371,173	620188,936	-22,47279649	-43,83175915
Rota 19 - 3,391m	7514295,647	620146,937	-22,4734816	-43,83216161
Rota 19 - 3,391m	7514242,102	620132,513	-22,47396624	-43,83229773
Rota 19 - 3,391m	7514115,144	620113,563	-22,47511428	-43,83247229
Rota 19 - 3,391m	7514079,11	620089,424	-22,47544145	-43,83270416
Rota 19 - 3,391m	7514031,731	620038,025	-22,47587299	-43,8332001
Rota 19 - 3,391m	7513962,866	619947,927	-22,47650132	-43,83407052
Rota 19 - 3,391m	7513926,085	619890,358	-22,47683758	-43,83462724
Rota 19 - 3,391m	7513882,031	619845,36	-22,47723865	-43,83506125
Rota 19 - 3,391m	7513829,59	619813,195	-22,47771456	-43,83536989
Rota 19 - 3,391m	7513771,209	619791,855	-22,47824337	-43,83557288
Rota 19 - 3,391m	7513718,968	619758,102	-22,47871758	-43,83589697
Rota 19 - 3,391m	7513675,767	619694,363	-22,47911225	-43,83651319
Rota 19 - 3,391m	7513654,711	619637,928	-22,47930639	-43,83706009
Rota 19 - 3,391m	7513637,653	619546,342	-22,47946688	-43,83794892
Rota 19 - 3,391m	7513624,369	619471,68	-22,47959209	-43,83867356
Rota 19 - 3,391m	7513599,306	619372,119	-22,47982543	-43,8396393
Rota 19 - 3,391m	7513573,636	619286,688	-22,48006326	-43,84046768
Rota 19 - 3,391m	7513533,352	619106,084	-22,48043974	-43,84221995
Rota 19 - 3,391m	7513521,756	619014,14	-22,48055088	-43,84311269
Rota 19 - 3,391m	7513545,221	618913,805	-22,48034594	-43,84408961
Rota 19 - 3,391m	7513589,325	618849,018	-22,47995209	-43,84472258
Rota 19 - 3,391m	7513697,555	618752,432	-22,47898127	-43,84566941
Rota 19 - 3,391m	7513724,198	618691,807	-22,47874484	-43,84626062
Rota 19 - 3,391m	7513776,341	618537,598	-22,47828459	-43,84776327
Rota 19 - 3,391m	7513829,59	618384,936	-22,47781423	-43,84925095
Rota 19 - 3,391m	7513885,955	618249,469	-22,47731452	-43,85057175
Rota 19 - 3,391m	7513882,458	618164,448	-22,47735199	-43,85139779
Rota 19 - 3,391m	7513875,76	617982,763	-22,47742507	-43,85316306
Rota 19 - 3,391m	7513862,12	617879,811	-22,47755538	-43,85416263
Rota 19 - 3,391m	7513839,368	617806,572	-22,47776593	-43,85487274
Rota 19 - 3,391m	7513822,57	617751,682	-22,47792145	-43,85540497
Rota 19 - 3,391m	7513827,127	617711,951	-22,47788302	-43,85579145
Rota 19 - 3,391m	7513844,113	617680,847	-22,47773175	-43,856095
Rota 19 - 3,391m	7513849,866	617654,503	-22,4776816	-43,85635147
Rota 19 - 3,391m	7513845,615	617626,342	-22,47772194	-43,85662485
Rota 19 - 1,454m	7513846,02	617627,12	-22,47771823	-43,85661732
Rota 19 - 1,454m	7513827,02	617610,946	-22,47789096	-43,8567731
Rota 19 - 1,454m	7513822,309	617586,414	-22,4779352	-43,85701118
Rota 19 - 1,454m	7513824,37	617549,873	-22,4779191	-43,85736646

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - 1,454m	7513843,773	617511,902	-22,47774646	-43,85773695
Rota 19 - 1,454m	7513880,557	617470,56	-22,47741707	-43,85814147
Rota 19 - 1,454m	7513921,561	617443,437	-22,47704857	-43,85840811
Rota 19 - 1,454m	7514004,97	617411,858	-22,47629737	-43,8587212
Rota 19 - 1,454m	7514133,223	617350,836	-22,47514316	-43,85932375
Rota 19 - 1,454m	7514217,948	617288,949	-22,47438216	-43,85993148
Rota 19 - 1,454m	7514325,096	617192,24	-22,47342102	-43,86087927
Rota 19 - 1,454m	7514382,114	617121,815	-22,47291085	-43,86156791
Rota 19 - 1,454m	7514455	617048,669	-22,47225754	-43,86228418
Rota 19 - 1,454m	7514509,381	617010,459	-22,47176898	-43,86265953
Rota 19 - 1,454m	7514565,137	616946,903	-22,47126972	-43,86328131
Rota 19 - 1,454m	7514591,066	616920,096	-22,47103736	-43,86354374
Rota 19 - 1,454m	7514635,153	616908,346	-22,47063997	-43,86366118
Rota 19 - 1,454m	7514656,952	616916,959	-22,47044248	-43,86357908
Rota 19 - 1,454m	7514697,698	616937,895	-22,47007302	-43,86337862
Rota 19 - 1,454m	7514739,167	616947,621	-22,4696978	-43,86328715
Rota 19 - 1,454m	7514817,309	616942,87	-22,46899232	-43,86333909
Rota 19 - 1,454m	7514840,826	616917,859	-22,46878162	-43,86358389
Rota 19 - 1,454m	7514856,147	616889,795	-22,46864516	-43,86385774
Rota 19 - 1,454m	7514866,494	616856,322	-22,46855399	-43,86418381
Rota 19 - 1,454m	7514860,56	616836,793	-22,46860893	-43,86437316
Rota 19 - 9,608m	7514859,909	616836,372	-22,46861484	-43,86437721
Rota 19 - 9,608m	7514832,122	616799,711	-22,46886833	-43,86473145
Rota 19 - 9,608m	7514780,011	616761,191	-22,46934164	-43,86510196
Rota 19 - 9,608m	7514741,701	616699,121	-22,46969191	-43,86570236
Rota 19 - 9,608m	7514701,053	616640,143	-22,47006308	-43,86627254
Rota 19 - 9,608m	7514666,332	616543,924	-22,47038326	-43,86720509
Rota 19 - 9,608m	7514621,868	616298,857	-22,47080158	-43,8695835
Rota 19 - 9,608m	7514600,908	616222,495	-22,47099611	-43,87032409
Rota 19 - 9,608m	7514510,545	616015,734	-22,47182635	-43,87232689
Rota 19 - 9,608m	7514411,846	615797,797	-22,47273263	-43,87443772
Rota 19 - 9,608m	7514321,218	615590,676	-22,47356524	-43,87644405
Rota 19 - 9,608m	7514193,518	615365,821	-22,47473388	-43,87862006
Rota 19 - 9,608m	7514128,165	615280,912	-22,4753299	-43,87944053
Rota 19 - 9,608m	7514052,635	615192,296	-22,4760181	-43,88029628
Rota 19 - 9,608m	7514039,264	615120,725	-22,47614369	-43,8809909
Rota 19 - 9,608m	7514024,662	615017,074	-22,47628257	-43,88199721
Rota 19 - 9,608m	7514005,781	614884,406	-22,47646205	-43,88328524
Rota 19 - 9,608m	7513958,691	614797,712	-22,47689321	-43,8841244
Rota 19 - 9,608m	7513899,515	614684,482	-22,47743532	-43,88522059
Rota 19 - 9,608m	7513811,276	614484,825	-22,47824573	-43,88715469
Rota 19 - 9,608m	7513758,926	614384,04	-22,47872533	-43,88813045
Rota 19 - 9,608m	7513711,532	614265,91	-22,47916132	-43,88927515

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - 9,608m	7513519,699	613768,505	-22,48092726	-43,89409574
Rota 19 - 9,608m	7513457,052	613605,043	-22,48150399	-43,89567998
Rota 19 - 9,608m	7513375,618	613492,079	-22,48224705	-43,89677209
Rota 19 - 9,608m	7513319,077	613436,391	-22,48276146	-43,89730929
Rota 19 - 9,608m	7513207,003	613372,833	-22,48377797	-43,89791902
Rota 19 - 9,608m	7513060,573	613319,404	-22,48510413	-43,89842786
Rota 19 - 9,608m	7513012,333	613282,7	-22,48554228	-43,89878116
Rota 19 - 9,608m	7512967,565	613221,176	-22,48595073	-43,89937595
Rota 19 - 9,608m	7512922,628	612982,913	-22,48637241	-43,90168858
Rota 19 - 9,608m	7512902,225	612919,453	-22,4865609	-43,90230394
Rota 19 - 9,608m	7512854,954	612839,981	-22,48699313	-43,90307301
Rota 19 - 9,608m	7512749,89	612711,548	-22,48795059	-43,90431387
Rota 19 - 9,608m	7512701,318	612599,14	-22,48839674	-43,90540301
Rota 19 - 9,608m	7512692,629	612522,176	-22,4884803	-43,90615047
Rota 19 - 9,608m	7512709,428	612411,133	-22,48833589	-43,90723098
Rota 19 - 9,608m	7512779,419	612239,888	-22,48771498	-43,9089004
Rota 19 - 9,608m	7512773,066	612191,804	-22,48777553	-43,90936733
Rota 19 - 9,608m	7512742,798	612089,212	-22,48805566	-43,91036236
Rota 19 - 9,608m	7512731,418	612008,922	-22,48816373	-43,91114196
Rota 19 - 9,608m	7512748,443	611898,492	-22,48801719	-43,91221652
Rota 19 - 9,608m	7512764,875	611860,091	-22,4878713	-43,91259093
Rota 19 - 9,608m	7512775,609	611745,755	-22,48778183	-43,91370301
Rota 19 - 9,608m	7512740,644	611626,404	-22,48810546	-43,91486061
Rota 19 - 9,608m	7512713,49	611531,81	-22,48835692	-43,91577815
Rota 19 - 9,608m	7512756,403	611451,013	-22,48797459	-43,9165665
Rota 19 - 9,608m	7513052,192	611173,131	-22,48532104	-43,91928821
Rota 19 - 9,608m	7513255,75	610990,487	-22,48349431	-43,9210777
Rota 19 - 9,608m	7513373,198	610928,933	-22,48243747	-43,92168419
Rota 19 - 9,608m	7513514,599	610887,565	-22,48116296	-43,92209615
Rota 19 - 9,608m	7513680,19	610820,112	-22,47967166	-43,92276332
Rota 19 - 9,608m	7513728,711	610728,348	-22,47923935	-43,92365858
Rota 19 - 9,608m	7513779,945	610613,441	-22,47878404	-43,92477897
Rota 19 - 9,608m	7513834,605	610536,039	-22,47829534	-43,92553507
Rota 19 - 9,608m	7513877,334	610489,6	-22,4779124	-43,92598939
Rota 19 - 9,608m	7514101,052	610342,019	-22,47590123	-43,92743932
Rota 19 - 9,608m	7514137,894	610285,862	-22,47557208	-43,92798767
Rota 19 - 9,608m	7514144,851	610197,588	-22,47551494	-43,92884609
Rota 19 - 9,608m	7514117,538	610139,614	-22,47576539	-43,92940764
Rota 19 - 9,608m	7514037,297	609977,4	-22,47650062	-43,93097864
Rota 19 - 9,608m	7514018,284	609885,853	-22,47667825	-43,93186708
Rota 19 - 9,608m	7514013,165	609769,353	-22,47673198	-43,932999
Rota 19 - 9,608m	7514027,447	609543,695	-22,47661748	-43,93519317
Rota 19 - 9,608m	7514073,481	609056,234	-22,4762329	-43,93993403

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - 9,608m	7514079,503	608931,219	-22,47618649	-43,94114946
Rota 19 - 9,608m	7514058,585	608795,885	-22,47638406	-43,94246336
Rota 19 - 9,608m	7514031,305	608685,169	-22,47663753	-43,94353755
Rota 19 - 9,608m	7514026,641	608664,734	-22,47668095	-43,94373584
Rota 19 - Dorãçndia 971m	7514026,641	608664,734	-22,47668095	-43,94373584
Rota 19 - Dorãçndia 971m	7514081,36	608653,58	-22,47618742	-43,943848
Rota 19 - Dorãçndia 971m	7514132,854	608657,998	-22,47572201	-43,94380858
Rota 19 - Dorãçndia 971m	7514175,15	608638,234	-22,47534123	-43,94400357
Rota 19 - Dorãçndia 971m	7514230,372	608621,28	-22,47484351	-43,94417212
Rota 19 - Dorãçndia 971m	7514265,508	608635,561	-22,47452524	-43,94403574
Rota 19 - Dorãçndia 971m	7514306,674	608649,46	-22,47415253	-43,94390347
Rota 19 - Dorãçndia 971m	7514348,411	608646,003	-22,47377575	-43,94393993
Rota 19 - Dorãçndia 971m	7514378,833	608657,496	-22,47350024	-43,94383031
Rota 19 - Dorãçndia 971m	7514446,328	608713,911	-22,472887	-43,94328665
Rota 19 - Dorãçndia 971m	7514484,001	608760,636	-22,47254374	-43,94283512
Rota 19 - Dorãçndia 971m	7514533,931	608812,349	-22,47208945	-43,94233595
Rota 19 - Dorãçndia 971m	7514593,299	608839,427	-22,47155149	-43,94207686
Rota 19 - Dorãçndia 971m	7514641,84	608847,937	-22,4711125	-43,94199748
Rota 19 - Dorãçndia 971m	7514686,379	608863,899	-22,47070918	-43,9418454
Rota 19 - Dorãçndia 971m	7514724,608	608876,485	-22,47036308	-43,9417257
Rota 19 - Dorãçndia 971m	7514770,512	608877,945	-22,46994835	-43,94171467
Rota 19 - Dorãçndia 971m	7514825,532	608894,834	-22,46945031	-43,94155431
Rota 19 - Dorãçndia 971m	7514856,485	608898,903	-22,46917047	-43,94151688
Rota 19 - Dorãçndia 971m	7514898,717	608880,326	-22,46879019	-43,94170032
UBS - Dorandia	7515079,025	608756,221	-22,46716947	-43,94291881
Rota 19 - Dorãçndia 618m	7514898,823	608879,907	-22,46878926	-43,94170441
Rota 19 - Dorãçndia 618m	7514938,352	608842,165	-22,46843462	-43,94207392
Rota 19 - Dorãçndia 618m	7514963,257	608811,199	-22,46821164	-43,94237656
Rota 19 - Dorãçndia 618m	7514979,138	608766,948	-22,46807102	-43,94280771
Rota 19 - Dorãçndia 618m	7514985,154	608734,273	-22,46801876	-43,94312567
Rota 19 - Dorãçndia 618m	7514988,648	608716,343	-22,46798834	-43,94330017
Rota 19 - Dorãçndia 618m	7514998,174	608711,405	-22,46790261	-43,94334881
Rota 19 - Dorãçndia 618m	7515011,48	608716,089	-22,46778212	-43,9433042
Rota 19 - Dorãçndia 618m	7515023,643	608724,064	-22,46767176	-43,94322752
Rota 19 - Dorãçndia 618m	7515056,518	608731,022	-22,46737437	-43,94316216
Rota 19 - Dorãçndia 618m	7515067,125	608732,221	-22,46727848	-43,94315123
Rota 19 - Dorãçndia 618m	7515091,69	608739,694	-22,46705612	-43,94308029
Rota 19 - Dorãçndia 618m	7515097,961	608747,688	-22,46699897	-43,94300303
Rota 19 - Dorãçndia 618m	7515096,159	608762,582	-22,4670143	-43,94285816
Rota 19 - Dorãçndia 618m	7515086,907	608775,297	-22,46709706	-43,94273395
Rota 19 - Dorãçndia 618m	7515073,374	608795,53	-22,46721801	-43,94253639
Rota 19 - Dorãçndia 618m	7515060,041	608815,592	-22,46733716	-43,94234051
Rota 19 - Dorãçndia 618m	7515044,486	608827,823	-22,46747688	-43,94222058

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Dorãçndia 618m	7515030,096	608835,564	-22,46760636	-43,94214436
Rota 19 - Dorãçndia 618m	7515013,237	608847,917	-22,46775785	-43,94202315
Rota 19 - Dorãçndia 618m	7514996,888	608858,16	-22,46790488	-43,94192248
Rota 19 - Dorãçndia 618m	7514984,364	608868,479	-22,46801734	-43,94182134
Rota 19 - Dorãçndia 618m	7514976,009	608884,186	-22,4680918	-43,94166811
Rota 19 - Dorãçndia 618m	7514967,611	608907,257	-22,46816619	-43,94144332
Rota 19 - Dorãçndia 618m	7514965,381	608932,662	-22,46818471	-43,94119627
Rota 19 - Dorãçndia 618m	7514969,439	608956,19	-22,46814656	-43,94096789
Rota 19 - Dorãçndia 618m	7514972,771	608979,589	-22,46811497	-43,94074071
Rota 19 - Dorãçndia 618m	7514981,632	608996,162	-22,46803387	-43,94058026
Educandãjrio Oswaldo Aranha	7514937,862	609018,992	-22,46842776	-43,94035538
Rota 19 - Turvo 18,996m	7526889,186	601406,178	-22,36094337	-44,01510323
Rota 19 - Turvo 18,996m	7526852,807	601384,148	-22,36127328	-44,01531486
Rota 19 - Turvo 18,996m	7526816,218	601380,712	-22,36160398	-44,0153459
Rota 19 - Turvo 18,996m	7526746,106	601389,84	-22,36223676	-44,01525281
Rota 19 - Turvo 18,996m	7526654,731	601404,153	-22,36306128	-44,01510801
Rota 19 - Turvo 18,996m	7526616,821	601393,211	-22,36340436	-44,01521186
Rota 19 - Turvo 18,996m	7526446,94	601350,715	-22,36494138	-44,01561377
Rota 19 - Turvo 18,996m	7526426,632	601335,656	-22,36512571	-44,01575872
Rota 19 - Turvo 18,996m	7526341,149	601255,895	-22,36590257	-44,01652791
Rota 19 - Turvo 18,996m	7526315,375	601207,227	-22,36613826	-44,01699893
Rota 19 - Turvo 18,996m	7526270,957	601106,38	-22,36654542	-44,0179755
Rota 19 - Turvo 18,996m	7526193,791	600943,505	-22,36725203	-44,01955241
Rota 19 - Turvo 18,996m	7526171,021	600914,701	-22,36745941	-44,01983071
Rota 19 - Turvo 18,996m	7526074,873	600844,479	-22,36833202	-44,02050661
Rota 19 - Turvo 18,996m	7526002,067	600787,517	-22,36899301	-44,02105522
Rota 19 - Turvo 18,996m	7525943,807	600719,902	-22,36952323	-44,02170821
Rota 19 - Turvo 18,996m	7525848,676	600635,494	-22,37038749	-44,02252198
Rota 19 - Turvo 18,996m	7525829,47	600619,995	-22,37056189	-44,02267129
Rota 19 - Turvo 18,996m	7525815,102	600613,901	-22,37069203	-44,02272957
Rota 19 - Turvo 18,996m	7525803,383	600617,858	-22,37079765	-44,0226904
Rota 19 - Turvo 18,996m	7525795,032	600626,863	-22,37087256	-44,02260242
Rota 19 - Turvo 18,996m	7525795,371	600643,1	-22,37086854	-44,02244475
Rota 19 - Turvo 18,996m	7525803,31	600661,211	-22,37079577	-44,02226935
Rota 19 - Turvo 18,996m	7525809,189	600680,778	-22,37074151	-44,02207968
Rota 19 - Turvo 18,996m	7525812,322	600693,41	-22,37071247	-44,0219572
Rota 19 - Turvo 18,996m	7525813,378	600712,027	-22,37070184	-44,02177646
Rota 19 - Turvo 18,996m	7525808,003	600735,536	-22,37074902	-44,0215478
Rota 19 - Turvo 18,996m	7525784,369	600754,119	-22,3709614	-44,02136583
Rota 19 - Turvo 18,996m	7525760,591	600770,964	-22,3711752	-44,02120074
Rota 19 - Turvo 18,996m	7525738,391	600798,213	-22,37137413	-44,02093468
Rota 19 - Turvo 18,996m	7525721,002	600833,153	-22,37152914	-44,02059425
Rota 19 - Turvo 18,996m	7525692,061	600888,659	-22,3717873	-44,02005334

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7525653,852	600942,807	-22,37212925	-44,01952504
Rota 19 - Turvo 18,996m	7525640,946	600965,374	-22,3722445	-44,01930505
Rota 19 - Turvo 18,996m	7525628,886	600995,075	-22,37235169	-44,01901582
Rota 19 - Turvo 18,996m	7525611,806	601016,255	-22,37250472	-44,01880904
Rota 19 - Turvo 18,996m	7525580,688	601027,191	-22,37278516	-44,01870086
Rota 19 - Turvo 18,996m	7525559,554	601045,934	-22,37297495	-44,01851748
Rota 19 - Turvo 18,996m	7525541,462	601057,482	-22,3731377	-44,01840418
Rota 19 - Turvo 18,996m	7525513,9	601062,574	-22,37338636	-44,01835299
Rota 19 - Turvo 18,996m	7525484,718	601065,744	-22,37364977	-44,01832034
Rota 19 - Turvo 18,996m	7525458,794	601070,573	-22,37388365	-44,0182718
Rota 19 - Turvo 18,996m	7525444,819	601086,69	-22,37400894	-44,01811439
Rota 19 - Turvo 18,996m	7525428,702	601105,98	-22,37415338	-44,01792602
Rota 19 - Turvo 18,996m	7525385,371	601124,03	-22,37454372	-44,01774797
Rota 19 - Turvo 18,996m	7525353,578	601147,383	-22,37482952	-44,01751914
Rota 19 - Turvo 18,996m	7525332,194	601166,817	-22,37502153	-44,01732903
Rota 19 - Turvo 18,996m	7525297,721	601189,992	-22,37533156	-44,01710177
Rota 19 - Turvo 18,996m	7525274,805	601197,924	-22,37553808	-44,01702328
Rota 19 - Turvo 18,996m	7525260,702	601206,633	-22,37566496	-44,0169378
Rota 19 - Turvo 18,996m	7525249,95	601220,914	-22,37576123	-44,01679841
Rota 19 - Turvo 18,996m	7525239,218	601235,66	-22,3758573	-44,01665452
Rota 19 - Turvo 18,996m	7525226,555	601241,03	-22,37597137	-44,01660156
Rota 19 - Turvo 18,996m	7525204,648	601245,449	-22,37616899	-44,01655725
Rota 19 - Turvo 18,996m	7525184,01	601244,833	-22,37635545	-44,01656192
Rota 19 - Turvo 18,996m	7525169,736	601237,873	-22,37648479	-44,01662861
Rota 19 - Turvo 18,996m	7525145,516	601227,317	-22,37670419	-44,0167296
Rota 19 - Turvo 18,996m	7525130,007	601222,441	-22,37684457	-44,01677597
Rota 19 - Turvo 18,996m	7525117,247	601220,553	-22,37695994	-44,0167935
Rota 19 - Turvo 18,996m	7525090,896	601224,167	-22,37719775	-44,01675672
Rota 19 - Turvo 18,996m	7525055,623	601227,109	-22,37751619	-44,01672592
Rota 19 - Turvo 18,996m	7525024,083	601220,428	-22,37780148	-44,0167888
Rota 19 - Turvo 18,996m	7524994,731	601225,496	-22,37806631	-44,01673772
Rota 19 - Turvo 18,996m	7524969,073	601230,427	-22,37829778	-44,0166882
Rota 19 - Turvo 18,996m	7524942,268	601228,586	-22,37854002	-44,01670437
Rota 19 - Turvo 18,996m	7524919,917	601225,076	-22,37874212	-44,01673705
Rota 19 - Turvo 18,996m	7524885,154	601206,578	-22,37905722	-44,01691451
Rota 19 - Turvo 18,996m	7524856,99	601191,63	-22,3793125	-44,0170579
Rota 19 - Turvo 18,996m	7524833,324	601182,452	-22,37952681	-44,01714554
Rota 19 - Turvo 18,996m	7524806,978	601178,306	-22,37976503	-44,01718414
Rota 19 - Turvo 18,996m	7524753,709	601167,972	-22,38024681	-44,01728113
Rota 19 - Turvo 18,996m	7524722,133	601170,037	-22,38053191	-44,01725907
Rota 19 - Turvo 18,996m	7524678,25	601176,22	-22,38092793	-44,01719623
Rota 19 - Turvo 18,996m	7524649,106	601192,332	-22,38119024	-44,01703789
Rota 19 - Turvo 18,996m	7524620,672	601208,723	-22,3814461	-44,01687689




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7524593,69	601216,734	-22,38168936	-44,01679737
Rota 19 - Turvo 18,996m	7524532,676	601225,345	-22,38223998	-44,01670986
Rota 19 - Turvo 18,996m	7524486,941	601234,464	-22,38265255	-44,01661838
Rota 19 - Turvo 18,996m	7524443,095	601239,374	-22,38304832	-44,01656791
Rota 19 - Turvo 18,996m	7524413,382	601243,186	-22,38331648	-44,01652899
Rota 19 - Turvo 18,996m	7524385,675	601247,101	-22,38356652	-44,01648921
Rota 19 - Turvo 18,996m	7524356,823	601260,385	-22,38382635	-44,01635835
Rota 19 - Turvo 18,996m	7524336,5	601282,106	-22,38400864	-44,01614609
Rota 19 - Turvo 18,996m	7524308,778	601316,09	-22,38425704	-44,01581425
Rota 19 - Turvo 18,996m	7524294,417	601342,048	-22,38438523	-44,01556121
Rota 19 - Turvo 18,996m	7524265,853	601404,791	-22,38463953	-44,01494997
Rota 19 - Turvo 18,996m	7524260,055	601445,332	-22,3846895	-44,01455583
Rota 19 - Turvo 18,996m	7524244,445	601480,155	-22,38482845	-44,0142166
Rota 19 - Turvo 18,996m	7524231,246	601505,736	-22,38494615	-44,01396729
Rota 19 - Turvo 18,996m	7524224,756	601541,162	-22,38500268	-44,01362279
Rota 19 - Turvo 18,996m	7524215,223	601579,851	-22,3850865	-44,0132464
Rota 19 - Turvo 18,996m	7524195,517	601617,203	-22,38526228	-44,01288234
Rota 19 - Turvo 18,996m	7524172,494	601640,93	-22,38546884	-44,01265041
Rota 19 - Turvo 18,996m	7524147,981	601659,783	-22,38568914	-44,01246573
Rota 19 - Turvo 18,996m	7524087,389	601679,967	-22,38623526	-44,01226582
Rota 19 - Turvo 18,996m	7523977,775	601707,035	-22,38722378	-44,01199591
Rota 19 - Turvo 18,996m	7523950,784	601719,876	-22,38746682	-44,01186946
Rota 19 - Turvo 18,996m	7523926,46	601753,101	-22,38768456	-44,01154519
Rota 19 - Turvo 18,996m	7523887,353	601787,215	-22,38803578	-44,01121135
Rota 19 - Turvo 18,996m	7523872,25	601806,456	-22,38817106	-44,01102349
Rota 19 - Turvo 18,996m	7523837,57	601856,749	-22,38848133	-44,01053276
Rota 19 - Turvo 18,996m	7523807,643	601882,572	-22,38875012	-44,01028003
Rota 19 - Turvo 18,996m	7523785,655	601914,893	-22,38894681	-44,00996468
Rota 19 - Turvo 18,996m	7523761,296	601933,17	-22,38916575	-44,0097856
Rota 19 - Turvo 18,996m	7523730,103	601934,843	-22,38944741	-44,00976736
Rota 19 - Turvo 18,996m	7523699,561	601952,81	-22,38972222	-44,00959089
Rota 19 - Turvo 18,996m	7523688,453	601970,711	-22,38982149	-44,0094163
Rota 19 - Turvo 18,996m	7523665,752	601987,276	-22,39002556	-44,00925394
Rota 19 - Turvo 18,996m	7523639,316	602009,496	-22,39026303	-44,00903642
Rota 19 - Turvo 18,996m	7523604,994	602047,589	-22,39057078	-44,00866421
Rota 19 - Turvo 18,996m	7523573,629	602097,668	-22,39085112	-44,00817577
Rota 19 - Turvo 18,996m	7523561,601	602144,758	-22,39095696	-44,0077176
Rota 19 - Turvo 18,996m	7523558,949	602168,678	-22,39097949	-44,00748508
Rota 19 - Turvo 18,996m	7523544,312	602200,108	-22,39110983	-44,00717885
Rota 19 - Turvo 18,996m	7523539,6	602235,4	-22,39115029	-44,00683575
Rota 19 - Turvo 18,996m	7523548,811	602268,655	-22,39106509	-44,00651333
Rota 19 - Turvo 18,996m	7523569,188	602304,102	-22,39087892	-44,00617032
Rota 19 - Turvo 18,996m	7523592,552	602316,014	-22,39066717	-44,00605612

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7523632,119	602311,122	-22,39031006	-44,00610617
Rota 19 - Turvo 18,996m	7523665,8	602318,776	-22,39000537	-44,00603399
Rota 19 - Turvo 18,996m	7523685,62	602336,032	-22,38982531	-44,00586765
Rota 19 - Turvo 18,996m	7523695,016	602358,989	-22,38973907	-44,00564527
Rota 19 - Turvo 18,996m	7523699,593	602395,414	-22,38969556	-44,00529176
Rota 19 - Turvo 18,996m	7523692,667	602434,035	-22,3897558	-44,00491618
Rota 19 - Turvo 18,996m	7523668,957	602498,888	-22,38996609	-44,00428471
Rota 19 - Turvo 18,996m	7523650,615	602543,145	-22,39012913	-44,00385365
Rota 19 - Turvo 18,996m	7523629,872	602579,569	-22,39031431	-44,00349852
Rota 19 - Turvo 18,996m	7523610,934	602612,917	-22,39048338	-44,00317339
Rota 19 - Turvo 18,996m	7523583,11	602643,741	-22,39073286	-44,00287219
Rota 19 - Turvo 18,996m	7523571,906	602680,053	-22,39083189	-44,00251876
Rota 19 - Turvo 18,996m	7523566,879	602721,128	-22,39087483	-44,00211946
Rota 19 - Turvo 18,996m	7523565,254	602769,408	-22,39088662	-44,00165039
Rota 19 - Turvo 18,996m	7523554,219	602792,732	-22,3909849	-44,00142313
Rota 19 - Turvo 18,996m	7523541,865	602813,549	-22,39109524	-44,00122013
Rota 19 - Turvo 18,996m	7523537,642	602828,464	-22,39113249	-44,00107498
Rota 19 - Turvo 18,996m	7523520,656	602847,22	-22,3912848	-44,00089171
Rota 19 - Turvo 18,996m	7523483,051	602870,296	-22,39162309	-44,00066513
Rota 19 - Turvo 18,996m	7523451,376	602899,566	-22,39190744	-44,00037878
Rota 19 - Turvo 18,996m	7523422,86	602929,614	-22,39216322	-44,00008507
Rota 19 - Turvo 18,996m	7523398,623	602954,106	-22,39238067	-43,9998456
Rota 19 - Turvo 18,996m	7523381,261	602991,904	-22,39253523	-43,99947732
Rota 19 - Turvo 18,996m	7523364,198	603031,677	-22,39268696	-43,9990899
Rota 19 - Turvo 18,996m	7523358,219	603066,138	-22,3927389	-43,99875477
Rota 19 - Turvo 18,996m	7523348,325	603101,219	-22,39282616	-43,99841337
Rota 19 - Turvo 18,996m	7523338,575	603137,021	-22,39291207	-43,99806498
Rota 19 - Turvo 18,996m	7523330,897	603170,33	-22,39297942	-43,99774094
Rota 19 - Turvo 18,996m	7523336,885	603200,778	-22,3929235	-43,99744557
Rota 19 - Turvo 18,996m	7523347,834	603224,891	-22,39282314	-43,99721205
Rota 19 - Turvo 18,996m	7523354,204	603255,315	-22,39276377	-43,99691695
Rota 19 - Turvo 18,996m	7523363,427	603378,121	-22,39267306	-43,99572468
Rota 19 - Turvo 18,996m	7523359,351	603393,262	-22,39270897	-43,99557734
Rota 19 - Turvo 18,996m	7523346,838	603410,255	-22,39282097	-43,99541147
Rota 19 - Turvo 18,996m	7523334,01	603419,731	-22,39293627	-43,99531859
Rota 19 - Turvo 18,996m	7523320,916	603439,213	-22,39305337	-43,99512851
Rota 19 - Turvo 18,996m	7523305,198	603454,797	-22,3931944	-43,99497611
Rota 19 - Turvo 18,996m	7523288,103	603469,837	-22,39334791	-43,99482891
Rota 19 - Turvo 18,996m	7523262,873	603487,143	-22,39357476	-43,99465917
Rota 19 - Turvo 18,996m	7523215,533	603533,917	-22,39399954	-43,99420176
Rota 19 - Turvo 18,996m	7523183,785	603544,399	-22,39428569	-43,99409788
Rota 19 - Turvo 18,996m	7523151,09	603548,28	-22,39458077	-43,99405805
Rota 19 - Turvo 18,996m	7523082,41	603544,953	-22,39520134	-43,9940859

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7523020,801	603552,718	-22,39575737	-43,99400648
Rota 19 - Turvo 18,996m	7522972,559	603561,089	-22,39619262	-43,99392203
Rota 19 - Turvo 18,996m	7522941,781	603571,884	-22,39646998	-43,99381517
Rota 19 - Turvo 18,996m	7522919,491	603584,319	-22,39667056	-43,99369293
Rota 19 - Turvo 18,996m	7522904,19	603589,999	-22,39680844	-43,99363676
Rota 19 - Turvo 18,996m	7522883,344	603592,802	-22,39699656	-43,99360818
Rota 19 - Turvo 18,996m	7522856,552	603593,65	-22,39723852	-43,9935982
Rota 19 - Turvo 18,996m	7522832,744	603587,074	-22,39745396	-43,99366053
Rota 19 - Turvo 18,996m	7522817,359	603574,096	-22,39759372	-43,99378559
Rota 19 - Turvo 18,996m	7522810,225	603553,805	-22,39765938	-43,99398223
Rota 19 - Turvo 18,996m	7522808,276	603530,183	-22,39767841	-43,99421157
Rota 19 - Turvo 18,996m	7522806,306	603514,107	-22,39769718	-43,99436759
Rota 19 - Turvo 18,996m	7522797,376	603504,405	-22,39777843	-43,99446126
Rota 19 - Turvo 18,996m	7522780,645	603496,592	-22,39793003	-43,99453606
Rota 19 - Turvo 18,996m	7522751,3	603498,285	-22,39819499	-43,99451772
Rota 19 - Turvo 18,996m	7522731,118	603501,167	-22,39837711	-43,99448841
Rota 19 - Turvo 18,996m	7522708,276	603497,332	-22,39858367	-43,99452417
Rota 19 - Turvo 18,996m	7522696,926	603495,427	-22,39868631	-43,99454195
Rota 19 - Turvo 18,996m	7522682,559	603482,218	-22,39881688	-43,99466932
Rota 19 - Turvo 18,996m	7522665,524	603463,5	-22,39897188	-43,99485004
Rota 19 - Turvo 18,996m	7522650,705	603456,074	-22,39910618	-43,99492121
Rota 19 - Turvo 18,996m	7522612,294	603444,116	-22,39945386	-43,99503487
Rota 19 - Turvo 18,996m	7522571,667	603407,629	-22,39982304	-43,99538667
Rota 19 - Turvo 18,996m	7522520,595	603377,868	-22,40028615	-43,99567245
Rota 19 - Turvo 18,996m	7522493,874	603370,104	-22,40052799	-43,99574614
Rota 19 - Turvo 18,996m	7522466,288	603370,195	-22,40077716	-43,99574346
Rota 19 - Turvo 18,996m	7522439,946	603383,852	-22,40101427	-43,99560909
Rota 19 - Turvo 18,996m	7522424,835	603398,667	-22,40114988	-43,99546419
Rota 19 - Turvo 18,996m	7522394,425	603416,48	-22,40142349	-43,99528918
Rota 19 - Turvo 18,996m	7522371,486	603420,215	-22,40163046	-43,99525142
Rota 19 - Turvo 18,996m	7522344,924	603424,423	-22,40187013	-43,99520881
Rota 19 - Turvo 18,996m	7522323,182	603443,384	-22,40206538	-43,99502321
Rota 19 - Turvo 18,996m	7522317,443	603457,629	-22,40211635	-43,99488446
Rota 19 - Turvo 18,996m	7522305,532	603467,023	-22,40222338	-43,99479244
Rota 19 - Turvo 18,996m	7522286,641	603471,542	-22,40239375	-43,9947473
Rota 19 - Turvo 18,996m	7522235,327	603479,615	-22,40285676	-43,99466555
Rota 19 - Turvo 18,996m	7522206,215	603481,08	-22,40311964	-43,99464943
Rota 19 - Turvo 18,996m	7522176,927	603474,747	-22,40338457	-43,99470905
Rota 19 - Turvo 18,996m	7522142,497	603469,752	-22,40369587	-43,99475533
Rota 19 - Turvo 18,996m	7522114,714	603471,086	-22,40394674	-43,99474057
Rota 19 - Turvo 18,996m	7522073,548	603469,766	-22,40431866	-43,99475072
Rota 19 - Turvo 18,996m	7522059,812	603473,576	-22,4044425	-43,99471281
Rota 19 - Turvo 18,996m	7522038,993	603502,804	-22,40462879	-43,99442753

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7522028,841	603541,302	-22,40471816	-43,99405289
Rota 19 - Turvo 18,996m	7522011,337	603562,99	-22,40487496	-43,99384108
Rota 19 - Turvo 18,996m	7521994,265	603581,416	-22,40502806	-43,99366096
Rota 19 - Turvo 18,996m	7521978,834	603596,973	-22,4051665	-43,99350884
Rota 19 - Turvo 18,996m	7521963,301	603606,863	-22,40530621	-43,99341176
Rota 19 - Turvo 18,996m	7521936,079	603600,817	-22,40555246	-43,99346872
Rota 19 - Turvo 18,996m	7521924,488	603601,512	-22,40565712	-43,99346121
Rota 19 - Turvo 18,996m	7521908,585	603612,052	-22,40580012	-43,99335778
Rota 19 - Turvo 18,996m	7521907,572	603625,462	-22,40580846	-43,99322745
Rota 19 - Turvo 18,996m	7521911,846	603642,683	-22,40576881	-43,99306044
Rota 19 - Turvo 18,996m	7521917,021	603658,179	-22,40572114	-43,99291024
Rota 19 - Turvo 18,996m	7521918,707	603671,806	-22,40570507	-43,99277798
Rota 19 - Turvo 18,996m	7521915,957	603687,933	-22,40572894	-43,99262114
Rota 19 - Turvo 18,996m	7521909,742	603703,062	-22,40578416	-43,99247376
Rota 19 - Turvo 18,996m	7521887,898	603732,484	-22,40597969	-43,99218652
Rota 19 - Turvo 18,996m	7521822,295	603777,955	-22,40656951	-43,99174052
Rota 19 - Turvo 18,996m	7521787,383	603794,725	-22,40688385	-43,99157534
Rota 19 - Turvo 18,996m	7521756,659	603796,311	-22,40716127	-43,99155793
Rota 19 - Turvo 18,996m	7521720,416	603804,173	-22,40748817	-43,99147919
Rota 19 - Turvo 18,996m	7521707,608	603823,049	-22,40760272	-43,99129498
Rota 19 - Turvo 18,996m	7521686,834	603846,909	-22,40778891	-43,99106184
Rota 19 - Turvo 18,996m	7521671,868	603861,853	-22,40792319	-43,99091569
Rota 19 - Turvo 18,996m	7521660,472	603873,183	-22,40802544	-43,99080488
Rota 19 - Turvo 18,996m	7521614,19	603879,674	-22,40844309	-43,99073881
Rota 19 - Turvo 18,996m	7521591,041	603889,405	-22,4086516	-43,99064277
Rota 19 - Turvo 18,996m	7521568,203	603901,711	-22,40885715	-43,99052173
Rota 19 - Turvo 18,996m	7521539,374	603912,712	-22,40911688	-43,99041298
Rota 19 - Turvo 18,996m	7521503,655	603938,998	-22,40943793	-43,99015529
Rota 19 - Turvo 18,996m	7521468,255	603951,912	-22,4097569	-43,99002753
Rota 19 - Turvo 18,996m	7521441,999	603966,686	-22,40999317	-43,98988229
Rota 19 - Turvo 18,996m	7521416,133	603995,455	-22,41022505	-43,98960112
Rota 19 - Turvo 18,996m	7521397,338	604012,504	-22,41039379	-43,98943427
Rota 19 - Turvo 18,996m	7521383,092	604019,518	-22,41052205	-43,9893652
Rota 19 - Turvo 18,996m	7521351,385	604032,394	-22,41080766	-43,98923803
Rota 19 - Turvo 18,996m	7521339,098	604048,153	-22,4109177	-43,98908414
Rota 19 - Turvo 18,996m	7521336,369	604065,876	-22,41094127	-43,98891179
Rota 19 - Turvo 18,996m	7521334,529	604082,753	-22,41095686	-43,98874772
Rota 19 - Turvo 18,996m	7521322,417	604099,498	-22,41106525	-43,98858425
Rota 19 - Turvo 18,996m	7521320,614	604110,877	-22,41108084	-43,98847359
Rota 19 - Turvo 18,996m	7521326,335	604143,405	-22,41102719	-43,98815796
Rota 19 - Turvo 18,996m	7521327,907	604161,969	-22,41101186	-43,98797772
Rota 19 - Turvo 18,996m	7521320,125	604175,67	-22,41108132	-43,98784411
Rota 19 - Turvo 18,996m	7521308,082	604198,024	-22,41118873	-43,98762616

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7521282,768	604212,611	-22,4114165	-43,9874828
Rota 19 - Turvo 18,996m	7521231,691	604225,732	-22,41187707	-43,98735199
Rota 19 - Turvo 18,996m	7521196,711	604211,887	-22,41219388	-43,98748419
Rota 19 - Turvo 18,996m	7521172,942	604191,353	-22,41240982	-43,98768212
Rota 19 - Turvo 18,996m	7521135,831	604149,744	-22,41274757	-43,98808392
Rota 19 - Turvo 18,996m	7521114,22	604136,824	-22,41294356	-43,98820802
Rota 19 - Turvo 18,996m	7521092,739	604127,766	-22,41313813	-43,98829461
Rota 19 - Turvo 18,996m	7521079,622	604126,427	-22,4132567	-43,98830676
Rota 19 - Turvo 18,996m	7521070,391	604121,501	-22,41334038	-43,98835401
Rota 19 - Turvo 18,996m	7521059,627	604106,395	-22,41343853	-43,98850006
Rota 19 - Turvo 18,996m	7521040,369	604101,304	-22,41361279	-43,98854826
Rota 19 - Turvo 18,996m	7521026,415	604111,974	-22,41373818	-43,98844369
Rota 19 - Turvo 18,996m	7521003,68	604119,551	-22,41394308	-43,98836859
Rota 19 - Turvo 18,996m	7520983,049	604128,006	-22,41412892	-43,9882851
Rota 19 - Turvo 18,996m	7520976,76	604135,898	-22,41418524	-43,98820802
Rota 19 - Turvo 18,996m	7520978,283	604155,594	-22,41417029	-43,98801678
Rota 19 - Turvo 18,996m	7520983,39	604169,112	-22,41412334	-43,98788578
Rota 19 - Turvo 18,996m	7520977,996	604174,88	-22,41417171	-43,9878294
Rota 19 - Turvo 18,996m	7520957,966	604174,012	-22,41435268	-43,98783652
Rota 19 - Turvo 18,996m	7520921,385	604165,675	-22,41468362	-43,98791512
Rota 19 - Turvo 18,996m	7520896,851	604150,922	-22,41490612	-43,98805684
Rota 19 - Turvo 18,996m	7520881,712	604139,705	-22,41504356	-43,98816482
Rota 19 - Turvo 18,996m	7520860,091	604132,802	-22,41523927	-43,98823047
Rota 19 - Turvo 18,996m	7520835,694	604130,194	-22,4154598	-43,98825421
Rota 19 - Turvo 18,996m	7520806,072	604132,104	-22,41572725	-43,98823371
Rota 19 - Turvo 18,996m	7520773,118	604139,323	-22,41602447	-43,98816142
Rota 19 - Turvo 18,996m	7520745,802	604150,925	-22,4162705	-43,98804692
Rota 19 - Turvo 18,996m	7520722,672	604186,589	-22,41647726	-43,98769893
Rota 19 - Turvo 18,996m	7520714,621	604201,902	-22,41654905	-43,98754964
Rota 19 - Turvo 18,996m	7520698,064	604204,379	-22,41669845	-43,98752449
Rota 19 - Turvo 18,996m	7520678,977	604202,32	-22,41687099	-43,98754325
Rota 19 - Turvo 18,996m	7520653,531	604197,276	-22,41710114	-43,98759058
Rota 19 - Turvo 18,996m	7520627,198	604194,899	-22,41733915	-43,98761195
Rota 19 - Turvo 18,996m	7520609,071	604198,424	-22,41750266	-43,98757651
Rota 19 - Turvo 18,996m	7520587,35	604219,17	-22,4176976	-43,98737354
Rota 19 - Turvo 18,996m	7520577,384	604236,652	-22,41778655	-43,98720305
Rota 19 - Turvo 18,996m	7520579,053	604260,794	-22,41777001	-43,98696861
Rota 19 - Turvo 18,996m	7520589,689	604288,438	-22,41767225	-43,98670075
Rota 19 - Turvo 18,996m	7520603,025	604307,495	-22,41755063	-43,98651648
Rota 19 - Turvo 18,996m	7520612,659	604337,029	-22,41746181	-43,98623019
Rota 19 - Turvo 18,996m	7520617,034	604354,722	-22,41742122	-43,98605858
Rota 19 - Turvo 18,996m	7520624,97	604386,221	-22,41734761	-43,98575308
Rota 19 - Turvo 18,996m	7520633,849	604413,096	-22,41726577	-43,98549258

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7520639,122	604446,109	-22,41721612	-43,98517219
Rota 19 - Turvo 18,996m	7520637,332	604479,252	-22,41723027	-43,98485009
Rota 19 - Turvo 18,996m	7520640,937	604499,509	-22,41719647	-43,98465353
Rota 19 - Turvo 18,996m	7520645,443	604513,041	-22,41715494	-43,98452236
Rota 19 - Turvo 18,996m	7520678,393	604551,743	-22,41685495	-43,98414853
Rota 19 - Turvo 18,996m	7520694,986	604574,428	-22,41670369	-43,98392923
Rota 19 - Turvo 18,996m	7520700,515	604585,286	-22,41665308	-43,98382411
Rota 19 - Turvo 18,996m	7520691,366	604591,397	-22,41673535	-43,98376415
Rota 19 - Turvo 18,996m	7520673,699	604596,538	-22,41689461	-43,98371303
Rota 19 - Turvo 18,996m	7520649,897	604605,379	-22,41710907	-43,98362558
Rota 19 - Turvo 18,996m	7520626,995	604615,201	-22,41731534	-43,98352866
Rota 19 - Turvo 18,996m	7520606,377	604629,314	-22,41750071	-43,98339019
Rota 19 - Turvo 18,996m	7520589,734	604640,424	-22,41765036	-43,98328116
Rota 19 - Turvo 18,996m	7520557,966	604648,05	-22,41793685	-43,98320498
Rota 19 - Turvo 18,996m	7520526,816	604642,609	-22,41821855	-43,98325579
Rota 19 - Turvo 18,996m	7520503,249	604640,091	-22,41843157	-43,98327871
Rota 19 - Turvo 18,996m	7520480,754	604633,854	-22,41863515	-43,98333782
Rota 19 - Turvo 18,996m	7520428,483	604635,541	-22,41910719	-43,983318
Rota 19 - Turvo 18,996m	7520392,094	604635,382	-22,41943589	-43,98331714
Rota 19 - Turvo 18,996m	7520367,099	604634,74	-22,4196617	-43,98332174
Rota 19 - Turvo 18,996m	7520347,706	604643,68	-22,41983633	-43,98323361
Rota 19 - Turvo 18,996m	7520342,319	604658,11	-22,4198841	-43,98309306
Rota 19 - Turvo 18,996m	7520334,948	604673,285	-22,41994975	-43,98294515
Rota 19 - Turvo 18,996m	7520307,253	604691,385	-22,4201988	-43,98276748
Rota 19 - Turvo 18,996m	7520283,687	604709,783	-22,42041054	-43,98258719
Rota 19 - Turvo 18,996m	7520265,034	604728,974	-22,42057785	-43,98239951
Rota 19 - Turvo 18,996m	7520253,276	604743,251	-22,42068319	-43,98226003
Rota 19 - Turvo 18,996m	7520224,935	604788,141	-22,42093644	-43,98182205
Rota 19 - Turvo 18,996m	7520179,597	604829,033	-22,42134345	-43,98142178
Rota 19 - Turvo 18,996m	7520173,987	604845,167	-22,42139314	-43,98126466
Rota 19 - Turvo 18,996m	7520155,514	604880,515	-22,42155783	-43,98092002
Rota 19 - Turvo 18,996m	7520129,323	604915,227	-22,42179229	-43,98058106
Rota 19 - Turvo 18,996m	7520087,615	604954,451	-22,42216661	-43,98019722
Rota 19 - Turvo 18,996m	7520056,72	604972,909	-22,42244454	-43,98001586
Rota 19 - Turvo 18,996m	7520024,979	604995,72	-22,42272985	-43,97979214
Rota 19 - Turvo 18,996m	7520002,324	605013,292	-22,42293341	-43,97961993
Rota 19 - Turvo 18,996m	7519984,876	605041,506	-22,42308927	-43,97934466
Rota 19 - Turvo 18,996m	7519963,388	605067,103	-22,4232818	-43,97909456
Rota 19 - Turvo 18,996m	7519940,417	605071,123	-22,42348904	-43,97905398
Rota 19 - Turvo 18,996m	7519877,636	605081,817	-22,42405546	-43,97894594
Rota 19 - Turvo 18,996m	7519855,118	605093,477	-22,42425814	-43,97883116
Rota 19 - Turvo 18,996m	7519833,28	605117,075	-22,42445395	-43,97860046
Rota 19 - Turvo 18,996m	7519810,435	605135,971	-22,42465913	-43,97841536

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7519780,73	605144,73	-22,42492691	-43,97832829
Rota 19 - Turvo 18,996m	7519757,512	605138,859	-22,425137	-43,9783838
Rota 19 - Turvo 18,996m	7519723,941	605129,094	-22,42544083	-43,97847646
Rota 19 - Turvo 18,996m	7519708,509	605119,716	-22,4255808	-43,97856656
Rota 19 - Turvo 18,996m	7519685,504	605124,56	-22,4257883	-43,97851797
Rota 19 - Turvo 18,996m	7519670,134	605138,157	-22,4259263	-43,97838485
Rota 19 - Turvo 18,996m	7519656,603	605155,595	-22,42604744	-43,97821454
Rota 19 - Turvo 18,996m	7519649,532	605186,188	-22,42610943	-43,97791683
Rota 19 - Turvo 18,996m	7519652,194	605204,272	-22,42608428	-43,97774131
Rota 19 - Turvo 18,996m	7519645,072	605219,139	-22,42614769	-43,9775964
Rota 19 - Turvo 18,996m	7519627,774	605234,698	-22,42630299	-43,97744408
Rota 19 - Turvo 18,996m	7519607,752	605238,487	-22,42648361	-43,97740594
Rota 19 - Turvo 18,996m	7519567,393	605249,018	-22,42684751	-43,97730096
Rota 19 - Turvo 18,996m	7519537,139	605250,407	-22,42712069	-43,97728547
Rota 19 - Turvo 18,996m	7519498,466	605256,581	-22,42746963	-43,97722292
Rota 19 - Turvo 18,996m	7519480,863	605264,279	-22,42762816	-43,97714696
Rota 19 - Turvo 18,996m	7519466,17	605280,317	-22,42775989	-43,97699016
Rota 19 - Turvo 18,996m	7519454,465	605293,25	-22,42786482	-43,97686374
Rota 19 - Turvo 18,996m	7519415,273	605332,76	-22,42821639	-43,97647727
Rota 19 - Turvo 18,996m	7519390,897	605363,034	-22,42843471	-43,97618151
Rota 19 - Turvo 18,996m	7519359,021	605408,345	-22,42871984	-43,97573917
Rota 19 - Turvo 18,996m	7519330,416	605438,381	-22,42897637	-43,97544545
Rota 19 - Turvo 18,996m	7519311,242	605467,175	-22,42914779	-43,97516442
Rota 19 - Turvo 18,996m	7519285,883	605501,963	-22,4293747	-43,97482474
Rota 19 - Turvo 18,996m	7519279,258	605531,304	-22,42943274	-43,97453922
Rota 19 - Turvo 18,996m	7519288,389	605549,488	-22,42934914	-43,97436315
Rota 19 - Turvo 18,996m	7519312,353	605558,794	-22,4291321	-43,97427433
Rota 19 - Turvo 18,996m	7519348,196	605573,911	-22,42880741	-43,97412983
Rota 19 - Turvo 18,996m	7519366,309	605578,823	-22,4286435	-43,97408331
Rota 19 - Turvo 18,996m	7519394,741	605582,25	-22,42838648	-43,9740519
Rota 19 - Turvo 18,996m	7519422,318	605587,751	-22,42813704	-43,97400029
Rota 19 - Turvo 18,996m	7519447,628	605602,936	-22,42790749	-43,97385443
Rota 19 - Turvo 18,996m	7519472,261	605625,028	-22,42768362	-43,97364143
Rota 19 - Turvo 18,996m	7519510,347	605651,757	-22,42733795	-43,97338426
Rota 19 - Turvo 18,996m	7519537,521	605679,515	-22,42709079	-43,97311638
Rota 19 - Turvo 18,996m	7519550,373	605704,111	-22,42697318	-43,97287826
Rota 19 - Turvo 18,996m	7519553,377	605733,516	-22,42694424	-43,97259276
Rota 19 - Turvo 18,996m	7519541,084	605765,119	-22,42705332	-43,97228491
Rota 19 - Turvo 18,996m	7519518,17	605778,38	-22,42725947	-43,97215454
Rota 19 - Turvo 18,996m	7519469,87	605791,425	-22,42769494	-43,97202458
Rota 19 - Turvo 18,996m	7519433,294	605816,468	-22,42802377	-43,97177884
Rota 19 - Turvo 18,996m	7519415,806	605851,02	-22,42817959	-43,97144197
Rota 19 - Turvo 18,996m	7519401,098	605877,861	-22,42831078	-43,97118021

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7519382,784	605898,781	-22,42847491	-43,97097573
Rota 19 - Turvo 18,996m	7519356,781	605913,124	-22,4287089	-43,97083465
Rota 19 - Turvo 18,996m	7519341,918	605932,758	-22,42884194	-43,9706429
Rota 19 - Turvo 18,996m	7519324,755	605948,465	-22,42899599	-43,97048915
Rota 19 - Turvo 18,996m	7519309,303	605967,634	-22,42913437	-43,97030187
Rota 19 - Turvo 18,996m	7519296,825	606014,464	-22,42924418	-43,96984605
Rota 19 - Turvo 18,996m	7519284,82	606051,66	-22,42935032	-43,96948386
Rota 19 - Turvo 18,996m	7519278,583	606092,848	-22,4294041	-43,96908326
Rota 19 - Turvo 18,996m	7519277,314	606129,804	-22,42941327	-43,96872411
Rota 19 - Turvo 18,996m	7519275,603	606168,483	-22,42942632	-43,96833482
Rota 19 - Turvo 18,996m	7519268,763	606185,103	-22,42948708	-43,96818626
Rota 19 - Turvo 18,996m	7519248,199	606200,377	-22,42967187	-43,96803649
Rota 19 - Turvo 18,996m	7519215,126	606218,002	-22,42996952	-43,96786304
Rota 19 - Turvo 18,996m	7519198,546	606233,079	-22,43011834	-43,96771544
Rota 19 - Turvo 18,996m	7519195,375	606261,667	-22,43014521	-43,96743747
Rota 19 - Turvo 18,996m	7519191,367	606278,603	-22,43018035	-43,96727265
Rota 19 - Turvo 18,996m	7519173,616	606279,599	-22,43034063	-43,96726179
Rota 19 - Turvo 18,996m	7519151,355	606275,488	-22,43054196	-43,96730024
Rota 19 - Turvo 18,996m	7519124,956	606270,445	-22,43078073	-43,96734748
Rota 19 - Turvo 18,996m	7519108,839	606271,024	-22,43092627	-43,96734078
Rota 19 - Turvo 18,996m	7519098,904	606284,914	-22,43101515	-43,96720516
Rota 19 - Turvo 18,996m	7519089,489	606305,932	-22,43109888	-43,96700032
Rota 19 - Turvo 18,996m	7519067,153	606367,622	-22,4312968	-43,96639944
Rota 19 - Turvo 18,996m	7519065,069	606389,795	-22,43131425	-43,96618387
Rota 19 - Turvo 18,996m	7519054,661	606395,728	-22,43140789	-43,96612553
Rota 19 - Turvo 18,996m	7519041,583	606398,364	-22,43152585	-43,96609904
Rota 19 - Turvo 18,996m	7519027,763	606397,094	-22,43165076	-43,96611045
Rota 19 - Turvo 18,996m	7519015,632	606395,894	-22,43176042	-43,9661213
Rota 19 - Turvo 18,996m	7519005,28	606400,881	-22,43185361	-43,96607216
Rota 19 - Turvo 18,996m	7518995,136	606412,624	-22,4319445	-43,96595738
Rota 19 - Turvo 18,996m	7518974,38	606422,007	-22,4321314	-43,96586482
Rota 19 - Turvo 18,996m	7518946,165	606426,888	-22,43238595	-43,96581552
Rota 19 - Turvo 18,996m	7518910,858	606440,845	-22,43270399	-43,96567754
Rota 19 - Turvo 18,996m	7518856,866	606453,174	-22,43319092	-43,96555413
Rota 19 - Turvo 18,996m	7518840,055	606445,058	-22,43334327	-43,96563187
Rota 19 - Turvo 18,996m	7518812,155	606443,246	-22,43359539	-43,9656476
Rota 19 - Turvo 18,996m	7518797,135	606442,356	-22,43373112	-43,96565525
Rota 19 - Turvo 18,996m	7518776,233	606454,998	-22,43391913	-43,96553101
Rota 19 - Turvo 18,996m	7518749,34	606467,058	-22,4341613	-43,96541204
Rota 19 - Turvo 18,996m	7518731,93	606473,808	-22,43431813	-43,96534529
Rota 19 - Turvo 18,996m	7518706,321	606486,076	-22,43454868	-43,96522437
Rota 19 - Turvo 18,996m	7518693,94	606497,385	-22,43465981	-43,96511366
Rota 19 - Turvo 18,996m	7518676,532	606513,379	-22,43481605	-43,96495709




## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7518653,058	606521,372	-22,43502759	-43,96487786
Rota 19 - Turvo 18,996m	7518631,562	606516,544	-22,43522206	-43,96492333
Rota 19 - Turvo 18,996m	7518613,812	606510,206	-22,43538278	-43,96498373
Rota 19 - Turvo 18,996m	7518578,36	606504,75	-22,43570334	-43,96503436
Rota 19 - Turvo 18,996m	7518556,97	606497,499	-22,435897	-43,96510338
Rota 19 - Turvo 18,996m	7518536,08	606489,006	-22,43608622	-43,9651845
Rota 19 - Turvo 18,996m	7518470,517	606452,667	-22,43668069	-43,96553319
Rota 19 - Turvo 18,996m	7518443,053	606454,399	-22,43692865	-43,96551453
Rota 19 - Turvo 18,996m	7518419,297	606472,729	-22,43714209	-43,96533483
Rota 19 - Turvo 18,996m	7518409,076	606496,479	-22,43723293	-43,96510338
Rota 19 - Turvo 18,996m	7518399,623	606527,292	-22,4373164	-43,96480336
Rota 19 - Turvo 18,996m	7518387,095	606558,464	-22,43742761	-43,96449964
Rota 19 - Turvo 18,996m	7518368,771	606588,739	-22,43759125	-43,96420424
Rota 19 - Turvo 18,996m	7518345,722	606626,126	-22,4377971	-43,96383942
Rota 19 - Turvo 18,996m	7518334,16	606646,724	-22,43790025	-43,96363851
Rota 19 - Turvo 18,996m	7518310,018	606658,164	-22,43811761	-43,96352573
Rota 19 - Turvo 18,996m	7518286,01	606668,949	-22,43833379	-43,96341933
Rota 19 - Turvo 18,996m	7518253,99	606685,663	-22,43862197	-43,96325478
Rota 19 - Turvo 18,996m	7518213,8	606716,691	-22,43898305	-43,9629506
Rota 19 - Turvo 18,996m	7518190,799	606735,447	-22,43918964	-43,96276681
Rota 19 - Turvo 18,996m	7518172,785	606752,342	-22,4393513	-43,96260143
Rota 19 - Turvo 18,996m	7518147,49	606766,729	-22,43957888	-43,96245995
Rota 19 - Turvo 18,996m	7518131,057	606782,258	-22,43972634	-43,96230795
Rota 19 - Turvo 18,996m	7518095,698	606804,335	-22,44004434	-43,96209107
Rota 19 - Turvo 18,996m	7518071,879	606841,387	-22,44025718	-43,96172945
Rota 19 - Turvo 18,996m	7518057,842	606861,185	-22,44038274	-43,96153613
Rota 19 - Turvo 18,996m	7518057,866	606862,767	-22,44038242	-43,96152076
Rota 19 - Turvo 18,996m	7518045,962	606884,556	-22,44048858	-43,96130824
Rota 19 - Turvo 18,996m	7518038,085	606909,459	-22,44055817	-43,96106574
Rota 19 - Turvo 18,996m	7518037,377	606928,236	-22,4405634	-43,96088324
Rota 19 - Turvo 18,996m	7518027,606	606943,208	-22,44065071	-43,96073711
Rota 19 - Turvo 18,996m	7518021,195	606958,257	-22,44070768	-43,96059045
Rota 19 - Turvo 18,996m	7518015,691	606977,145	-22,44075622	-43,96040655
Rota 19 - Turvo 18,996m	7518016,26	606999,095	-22,44074971	-43,9601933
Rota 19 - Turvo 18,996m	7518022,077	607016,986	-22,44069604	-43,96001985
Rota 19 - Turvo 18,996m	7518018,731	607040,629	-22,44072478	-43,9597899
Rota 19 - Turvo 18,996m	7518007,42	607052,035	-22,44082623	-43,9596783
Rota 19 - Turvo 18,996m	7517984,681	607064,102	-22,44103088	-43,95955953
Rota 19 - Turvo 18,996m	7517960,668	607072,627	-22,44124724	-43,95947508
Rota 19 - Turvo 18,996m	7517927,699	607081,594	-22,44154447	-43,95938572
Rota 19 - Turvo 18,996m	7517918,102	607093,472	-22,44163041	-43,95926966
Rota 19 - Turvo 18,996m	7517913,595	607106,454	-22,44167031	-43,95914321
Rota 19 - Turvo 18,996m	7517924,635	607122,394	-22,44156959	-43,95898907

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7517945,667	607142,059	-22,44137839	-43,95879941
Rota 19 - Turvo 18,996m	7517982,316	607157,601	-22,44104637	-43,95865086
Rota 19 - Turvo 18,996m	7518019,329	607164,923	-22,44071159	-43,95858221
Rota 19 - Turvo 18,996m	7518034,781	607187,503	-22,44057061	-43,95836385
Rota 19 - Turvo 18,996m	7518039,547	607209,016	-22,44052621	-43,95815514
Rota 19 - Turvo 18,996m	7518037,856	607225,856	-22,44054043	-43,9579914
Rota 19 - Turvo 18,996m	7518021,417	607238,229	-22,44068814	-43,95787007
Rota 19 - Turvo 18,996m	7518009,343	607251,952	-22,44079634	-43,95773591
Rota 19 - Turvo 18,996m	7518004,092	607268,667	-22,44084272	-43,95757314
Rota 19 - Turvo 18,996m	7517996,555	607278,021	-22,44091021	-43,95748174
Rota 19 - Turvo 18,996m	7517978,497	607284,113	-22,44107293	-43,95742133
Rota 19 - Turvo 18,996m	7517969,983	607295,906	-22,44114911	-43,95730617
Rota 19 - Turvo 18,996m	7517978,088	607325,357	-22,44107405	-43,95702054
Rota 19 - Turvo 18,996m	7517987,428	607349,538	-22,44098816	-43,95678622
Rota 19 - Turvo 18,996m	7517985,048	607365,347	-22,44100866	-43,95663245
Rota 19 - Turvo 18,996m	7517968,313	607371,16	-22,44115946	-43,95657483
Rota 19 - Turvo 18,996m	7517943,251	607369,242	-22,44138596	-43,95659178
Rota 19 - Turvo 18,996m	7517904,794	607371,626	-22,44173317	-43,95656601
Rota 19 - Turvo 18,996m	7517891,715	607376,257	-22,44185102	-43,95652013
Rota 19 - Turvo 18,996m	7517879,791	607405,473	-22,44195689	-43,95623544
Rota 19 - Turvo 18,996m	7517877,849	607423,334	-22,44197331	-43,95606176
Rota 19 - Turvo 18,996m	7517868,908	607437,86	-22,44205315	-43,95592001
Rota 19 - Turvo 18,996m	7517860,774	607446,06	-22,44212611	-43,95583979
Rota 19 - Turvo 18,996m	7517849,705	607447,647	-22,44222599	-43,95582361
Rota 19 - Turvo 18,996m	7517835,814	607445,872	-22,44235158	-43,95583992
Rota 19 - Turvo 18,996m	7517818,642	607441,026	-22,44250699	-43,95588585
Rota 19 - Turvo 18,996m	7517802,117	607434,681	-22,44265665	-43,95594639
Rota 19 - Turvo 18,996m	7517789,665	607428,384	-22,44276952	-43,95600673
Rota 19 - Turvo 18,996m	7517775,177	607425,337	-22,44290057	-43,95603535
Rota 19 - Turvo 18,996m	7517765,048	607424,911	-22,44299209	-43,95603881
Rota 19 - Turvo 18,996m	7517749,676	607411,766	-22,44313176	-43,9561655
Rota 19 - Turvo 18,996m	7517728,321	607399,755	-22,44332541	-43,95628077
Rota 19 - Turvo 18,996m	7517713,625	607392,719	-22,4434586	-43,95634815
Rota 19 - Turvo 18,996m	7517696,779	607395,072	-22,44361061	-43,95632414
Rota 19 - Turvo 18,996m	7517677,926	607402,214	-22,44378045	-43,95625346
Rota 19 - Turvo 18,996m	7517657,039	607423,605	-22,44396777	-43,9560442
Rota 19 - Turvo 18,996m	7517646,833	607427,777	-22,4440597	-43,95600297
Rota 19 - Turvo 18,996m	7517629,456	607431,898	-22,44421639	-43,95596175
Rota 19 - Turvo 18,996m	7517611,084	607428,253	-22,44438257	-43,95599593
Rota 19 - Turvo 18,996m	7517596,76	607436,588	-22,44451143	-43,95591397
Rota 19 - Turvo 18,996m	7517587,065	607447,308	-22,44459833	-43,95580915
Rota 19 - Turvo 18,996m	7517571,536	607467,638	-22,44473731	-43,95561056
Rota 19 - Turvo 18,996m	7517555,162	607487,925	-22,44488394	-43,95541232

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7517533,537	607503,733	-22,44507828	-43,95525725
Rota 19 - Turvo 18,996m	7517514,947	607510,247	-22,44524578	-43,95519269
Rota 19 - Turvo 18,996m	7517497,599	607507,779	-22,44540264	-43,95521551
Rota 19 - Turvo 18,996m	7517486,218	607506,508	-22,44550551	-43,95522708
Rota 19 - Turvo 18,996m	7517472,468	607504,627	-22,44562983	-43,95524443
Rota 19 - Turvo 18,996m	7517458,459	607509,893	-22,44575603	-43,95519231
Rota 19 - Turvo 18,996m	7517440,048	607525,443	-22,44592135	-43,95503997
Rota 19 - Turvo 18,996m	7517429,786	607542,955	-22,44601295	-43,95486911
Rota 19 - Turvo 18,996m	7517415,504	607564,004	-22,44614063	-43,95466361
Rota 19 - Turvo 18,996m	7517400,861	607581,011	-22,44627182	-43,95449736
Rota 19 - Turvo 18,996m	7517384,464	607588,37	-22,44641947	-43,95442474
Rota 19 - Turvo 18,996m	7517364,574	607593,716	-22,44659878	-43,95437144
Rota 19 - Turvo 18,996m	7517353,742	607601,538	-22,44669613	-43,95429471
Rota 19 - Turvo 18,996m	7517341,596	607615,412	-22,44680497	-43,95415907
Rota 19 - Turvo 18,996m	7517333,494	607631,787	-22,44687712	-43,95399941
Rota 19 - Turvo 18,996m	7517313,55	607656,425	-22,44705571	-43,95375864
Rota 19 - Turvo 18,996m	7517296,114	607681,271	-22,44721164	-43,95351603
Rota 19 - Turvo 18,996m	7517270,881	607691,544	-22,44743891	-43,9534145
Rota 19 - Turvo 18,996m	7517256,943	607707,135	-22,44756383	-43,95326206
Rota 19 - Turvo 18,996m	7517242,478	607726,132	-22,44769328	-43,95307647
Rota 19 - Turvo 18,996m	7517230,863	607732,794	-22,44779778	-43,95301095
Rota 19 - Turvo 18,996m	7517218,911	607735,059	-22,44790559	-43,95298813
Rota 19 - Turvo 18,996m	7517201,342	607743,206	-22,44806377	-43,95290778
Rota 19 - Turvo 18,996m	7517194,315	607759,115	-22,44812624	-43,95275271
Rota 19 - Turvo 18,996m	7517189,086	607771,445	-22,44817269	-43,95263254
Rota 19 - Turvo 18,996m	7517176,544	607780,968	-22,44828538	-43,95253916
Rota 19 - Turvo 18,996m	7517163,836	607792,403	-22,44839944	-43,95242718
Rota 19 - Turvo 18,996m	7517152,36	607802,616	-22,44850245	-43,95232716
Rota 19 - Turvo 18,996m	7517146,975	607813,305	-22,44855042	-43,95222293
Rota 19 - Turvo 18,996m	7517148,954	607828,408	-22,44853159	-43,9520763
Rota 19 - Turvo 18,996m	7517156,178	607850,414	-22,44846495	-43,95186296
Rota 19 - Turvo 18,996m	7517153,93	607869,561	-22,44848404	-43,95167675
Rota 19 - Turvo 18,996m	7517142,398	607886,865	-22,44858712	-43,95150782
Rota 19 - Turvo 18,996m	7517124,521	607901,251	-22,44874769	-43,95136681
Rota 19 - Turvo 18,996m	7517102,617	607915,239	-22,44894465	-43,9512294
Rota 19 - Turvo 18,996m	7517084,691	607926,444	-22,44910587	-43,9511193
Rota 19 - Turvo 18,996m	7517076,514	607936,044	-22,44917912	-43,95102546
Rota 19 - Turvo 18,996m	7517063,458	607945,616	-22,44929644	-43,95093156
Rota 19 - Turvo 18,996m	7517049,549	607950,627	-22,44942176	-43,95088192
Rota 19 - Turvo 18,996m	7517022,74	607960,319	-22,4496633	-43,95078592
Rota 19 - Turvo 18,996m	7517007,677	607974,82	-22,44979844	-43,95064398
Rota 19 - Turvo 18,996m	7516998,913	607980,531	-22,44987724	-43,95058789
Rota 19 - Turvo 18,996m	7516991,323	607981,739	-22,44994572	-43,95057564

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7516981,182	607977,78	-22,45003757	-43,95061342
Rota 19 - Turvo 18,996m	7516964,807	607969,315	-22,45018601	-43,95069457
Rota 19 - Turvo 18,996m	7516952,303	607964,121	-22,45029928	-43,95074419
Rota 19 - Turvo 18,996m	7516940,438	607964,648	-22,45040642	-43,95073826
Rota 19 - Turvo 18,996m	7516932,201	607977,837	-22,45047999	-43,95060953
Rota 19 - Turvo 18,996m	7516927,608	608000,601	-22,45052004	-43,95038802
Rota 19 - Turvo 18,996m	7516923,592	608025,43	-22,45055474	-43,95014647
Rota 19 - Turvo 18,996m	7516912,168	608040,527	-22,45065698	-43,949999
Rota 19 - Turvo 18,996m	7516890,7	608062,999	-22,45084947	-43,94977917
Rota 19 - Turvo 18,996m	7516856,526	608092,533	-22,45115628	-43,94948985
Rota 19 - Turvo 18,996m	7516815,634	608124,608	-22,45152361	-43,94917538
Rota 19 - Turvo 18,996m	7516791,72	608140,17	-22,45173862	-43,94902253
Rota 19 - Turvo 18,996m	7516765,617	608172,143	-22,45197238	-43,94871006
Rota 19 - Turvo 18,996m	7516754,653	608190,791	-22,45207023	-43,9485281
Rota 19 - Turvo 18,996m	7516736,508	608217,373	-22,45223244	-43,94826856
Rota 19 - Turvo 18,996m	7516715,832	608232,435	-22,45241825	-43,94812079
Rota 19 - Turvo 18,996m	7516690,226	608241,972	-22,45264893	-43,94802636
Rota 19 - Turvo 18,996m	7516669,137	608246,989	-22,4528391	-43,94797617
Rota 19 - Turvo 18,996m	7516652,665	608248,023	-22,45298781	-43,94796501
Rota 19 - Turvo 18,996m	7516639,844	608251,844	-22,45310338	-43,947927
Rota 19 - Turvo 18,996m	7516631,9	608264,217	-22,45317435	-43,94780623
Rota 19 - Turvo 18,996m	7516625,791	608283,079	-22,45322834	-43,94762252
Rota 19 - Turvo 18,996m	7516626,277	608299,999	-22,45322287	-43,94745813
Rota 19 - Turvo 18,996m	7516620,251	608316,878	-22,45327623	-43,9472937
Rota 19 - Turvo 18,996m	7516606,352	608335,854	-22,45340057	-43,94710835
Rota 19 - Turvo 18,996m	7516589,432	608353,292	-22,4535523	-43,94693774
Rota 19 - Turvo 18,996m	7516564,189	608370,615	-22,45377921	-43,94676768
Rota 19 - Turvo 18,996m	7516536,263	608381,719	-22,45403075	-43,94665787
Rota 19 - Turvo 18,996m	7516518,23	608379,264	-22,45419378	-43,9466805
Rota 19 - Turvo 18,996m	7516494,567	608372,74	-22,45440793	-43,94674228
Rota 19 - Turvo 18,996m	7516476,134	608369,017	-22,45457467	-43,9467772
Rota 19 - Turvo 18,996m	7516453,973	608362,24	-22,45477527	-43,94684155
Rota 19 - Turvo 18,996m	7516433,783	608353,623	-22,45495818	-43,9469239
Rota 19 - Turvo 18,996m	7516389,675	608311,235	-22,45535928	-43,94733281
Rota 19 - Turvo 18,996m	7516363,169	608293,362	-22,45559983	-43,94750468
Rota 19 - Turvo 18,996m	7516337,784	608286,209	-22,45582957	-43,94757246
Rota 19 - Turvo 18,996m	7516313,572	608287,553	-22,45604818	-43,94755775
Rota 19 - Turvo 18,996m	7516271,886	608293,248	-22,45642434	-43,94749957
Rota 19 - Turvo 18,996m	7516220,898	608302,204	-22,45688434	-43,94740905
Rota 19 - Turvo 18,996m	7516171,812	608324,192	-22,45732631	-43,94719203
Rota 19 - Turvo 18,996m	7516147,734	608336,951	-22,45754298	-43,9470664
Rota 19 - Turvo 18,996m	7516131,086	608336,978	-22,45769336	-43,947065
Rota 19 - Turvo 18,996m	7516108,793	608349,349	-22,45789393	-43,94694326

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7516088,978	608363,249	-22,45807203	-43,94680684
Rota 19 - Turvo 18,996m	7516077,008	608367,29	-22,4581799	-43,94676675
Rota 19 - Turvo 18,996m	7516060,909	608361,469	-22,45832568	-43,94682221
Rota 19 - Turvo 18,996m	7516037,499	608356,481	-22,45853745	-43,94686909
Rota 19 - Turvo 18,996m	7516021,778	608362,896	-22,45867904	-43,94680568
Rota 19 - Turvo 18,996m	7516006,967	608371,692	-22,45881226	-43,94671919
Rota 19 - Turvo 18,996m	7515992,952	608373,998	-22,4589387	-43,94669583
Rota 19 - Turvo 18,996m	7515974,303	608375,443	-22,45910707	-43,94668051
Rota 19 - Turvo 18,996m	7515947,906	608384,499	-22,45934492	-43,9465907
Rota 19 - Turvo 18,996m	7515922,598	608397,657	-22,45957268	-43,9464611
Rota 19 - Turvo 18,996m	7515898,956	608415,411	-22,4597851	-43,94628695
Rota 19 - Turvo 18,996m	7515888,717	608427,228	-22,45987683	-43,94617142
Rota 19 - Turvo 18,996m	7515879,16	608440,442	-22,45996232	-43,94604235
Rota 19 - Turvo 18,996m	7515861,464	608456,999	-22,46012111	-43,94588024
Rota 19 - Turvo 18,996m	7515839,114	608461,305	-22,46032271	-43,94583687
Rota 19 - Turvo 18,996m	7515820,27	608469,917	-22,46049237	-43,94575189
Rota 19 - Turvo 18,996m	7515797,663	608478,272	-22,46069604	-43,94566915
Rota 19 - Turvo 18,996m	7515772,883	608476,266	-22,46091999	-43,94568696
Rota 19 - Turvo 18,996m	7515754,315	608479,674	-22,4610875	-43,94565257
Rota 19 - Turvo 18,996m	7515717,516	608499,856	-22,4614186	-43,94545392
Rota 19 - Turvo 18,996m	7515691,922	608519,539	-22,46164852	-43,94526089
Rota 19 - Turvo 18,996m	7515672,011	608543,353	-22,46182686	-43,9450281
Rota 19 - Turvo 18,996m	7515648,497	608567,407	-22,46203772	-43,94479274
Rota 19 - Turvo 18,996m	7515614,568	608583,198	-22,46234318	-43,94463696
Rota 19 - Turvo 18,996m	7515564,429	608603,134	-22,4627948	-43,94443979
Rota 19 - Turvo 18,996m	7515512,514	608629,57	-22,46326204	-43,94417932
Rota 19 - Turvo 18,996m	7515477,951	608641,14	-22,4635735	-43,94406452
Rota 19 - Turvo 18,996m	7515452,549	608646,315	-22,4638026	-43,94401249
Rota 19 - Turvo 18,996m	7515389,111	608661,464	-22,46437465	-43,94386093
Rota 19 - Turvo 18,996m	7515359,702	608676,344	-22,46463934	-43,94371431
Rota 19 - Turvo 18,996m	7515332,215	608704,677	-22,46488581	-43,94343707
Rota 19 - Turvo 18,996m	7515308,017	608728,137	-22,46510289	-43,94320743
Rota 19 - Turvo 18,996m	7515289,161	608753,785	-22,46527157	-43,94295688
Rota 19 - Turvo 18,996m	7515277,724	608767,245	-22,46537402	-43,94282529
Rota 19 - Turvo 18,996m	7515246,159	608828,629	-22,46565522	-43,94222657
Rota 19 - Turvo 18,996m	7515225,172	608857,905	-22,46584292	-43,94194061
Rota 19 - Turvo 18,996m	7515192,467	608891,633	-22,46613617	-43,94161059
Rota 19 - Turvo 18,996m	7515153,601	608928,542	-22,46648488	-43,94124923
Rota 19 - Turvo 18,996m	7515133,741	608946,979	-22,46666308	-43,94106869
Rota 19 - Turvo 18,996m	7515117,503	608963,767	-22,46680868	-43,94090442
Rota 19 - Turvo 18,996m	7515099,466	608975,76	-22,46697084	-43,94078663
Rota 19 - Turvo 18,996m	7515083,13	608987,789	-22,46711763	-43,94066686
Rota 19 - Turvo 18,996m	7515066,58	608993,511	-22,46726675	-43,94061186

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Turvo 18,996m	7515060,059	609006,703	-22,46732481	-43,9404832
Rota 19 - Turvo 18,996m	7515054,367	609018,409	-22,46737547	-43,94036905
Rota 19 - Turvo 18,996m	7515043,481	609029,822	-22,46747307	-43,94025738
Rota 19 - Turvo 18,996m	7515033,272	609031,269	-22,46756519	-43,94024262
Rota 19 - Turvo 18,996m	7515022,269	609030,9	-22,46766646	-43,94024545
Rota 19 - Turvo 18,996m	7515004,357	609018,773	-22,46782717	-43,94036208
Rota 19 - Turvo 18,996m	7514981,505	608995,99	-22,46803503	-43,94058192
UBS - Turvo	7526877,575	601423,276	-22,36104725	-44,01493645
Rota 19 - Dorandia 161m	7514981,975	608996,497	-22,46803075	-43,94057703
Rota 19 - Dorandia 161m	7514966,366	608970,492	-22,4681734	-43,94082868
Rota 19 - Dorandia 161m	7514959,015	608948,877	-22,46824118	-43,94103825
Rota 19 - Dorandia 161m	7514950,249	608906,937	-22,46832303	-43,94144524
Rota 19 - Dorandia 161m	7514934,436	608883,723	-22,46846734	-43,94166976
Rota 19 - Dorandia 161m	7514923,645	608878,652	-22,46856514	-43,94171831
Rota 19 - Dorandia 161m	7514898,97	608880,306	-22,46878791	-43,94170053
Rota 19 - V, Alegre 4,294m	7514026,348	608664,84	-22,47668359	-43,94373479
Rota 19 - V, Alegre 4,294m	7513820,25	608539,141	-22,47855317	-43,94494238
Rota 19 - V, Alegre 4,294m	7513770,505	608521,277	-22,47900362	-43,94511259
Rota 19 - V, Alegre 4,294m	7513735,923	608520,873	-22,47931602	-43,94511415
Rota 19 - V, Alegre 4,294m	7513684,176	608526,118	-22,47978309	-43,94505963
Rota 19 - V, Alegre 4,294m	7513659,695	608525,604	-22,48000425	-43,94506295
Rota 19 - V, Alegre 4,294m	7513617,705	608505,011	-22,48038483	-43,94526024
Rota 19 - V, Alegre 4,294m	7513562,286	608483,924	-22,48088674	-43,94546139
Rota 19 - V, Alegre 4,294m	7513504,219	608476,301	-22,48141172	-43,94553151
Rota 19 - V, Alegre 4,294m	7513430,176	608499,343	-22,48207905	-43,94530249
Rota 19 - V, Alegre 4,294m	7513394,673	608515,991	-22,48239867	-43,94513825
Rota 19 - V, Alegre 4,294m	7513356,419	608508,957	-22,48274464	-43,94520399
Rota 19 - V, Alegre 4,294m	7513322,866	608459,643	-22,48305084	-43,94568102
Rota 19 - V, Alegre 4,294m	7513287,554	608454,309	-22,48337014	-43,94573044
Rota 19 - V, Alegre 4,294m	7513229,284	608459,739	-22,48389612	-43,94567368
Rota 19 - V, Alegre 4,294m	7513159,129	608462,819	-22,48452959	-43,94563894
Rota 19 - V, Alegre 4,294m	7513135,925	608478,859	-22,48473816	-43,94548145
Rota 19 - V, Alegre 4,294m	7513118,505	608499,177	-22,48489422	-43,94528277
Rota 19 - V, Alegre 4,294m	7513091,019	608517,372	-22,48514133	-43,94510404
Rota 19 - V, Alegre 4,294m	7513040,029	608522,53	-22,48560157	-43,94505042
Rota 19 - V, Alegre 4,294m	7512997,142	608535,632	-22,48598811	-43,94492014
Rota 19 - V, Alegre 4,294m	7512925,569	608573,585	-22,48663217	-43,94454634
Rota 19 - V, Alegre 4,294m	7512904,924	608615,014	-22,48681601	-43,94414224
Rota 19 - V, Alegre 4,294m	7512903,785	608617,58	-22,48682614	-43,94411722
Rota 19 - V, Alegre 4,294m	7512901,367	608658,73	-22,48684536	-43,94371709
Rota 19 - V, Alegre 4,294m	7512907,483	608733,615	-22,48678535	-43,94298963
Rota 19 - V, Alegre 4,294m	7512879,846	608839,698	-22,48702821	-43,94195662
Rota 19 - V, Alegre 4,294m	7512803,064	608885,309	-22,48771884	-43,94150803

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - V, Alegre 4,294m	7512783,989	608900,689	-22,48789015	-43,94135722
Rota 19 - V, Alegre 4,294m	7512775,331	608941,728	-22,48796573	-43,94095773
Rota 19 - V, Alegre 4,294m	7512773,125	608972,521	-22,48798369	-43,94065827
Rota 19 - V, Alegre 4,294m	7512740,668	608973,343	-22,4882768	-43,94064806
Rota 19 - V, Alegre 4,294m	7512699,061	608972,227	-22,48865269	-43,94065604
Rota 19 - V, Alegre 4,294m	7512651,199	608962,344	-22,48908564	-43,94074881
Rota 19 - V, Alegre 4,294m	7512607,976	608973,897	-22,4894753	-43,94063355
Rota 19 - V, Alegre 4,294m	7512605,868	608974,731	-22,48949429	-43,94062529
Rota 19 - V, Alegre 4,294m	7512563,678	608988,618	-22,48987449	-43,94048741
Rota 19 - V, Alegre 4,294m	7512538,965	608995,1	-22,49009729	-43,9404227
Rota 19 - V, Alegre 4,294m	7512510,618	608978,786	-22,49035438	-43,94057933
Rota 19 - V, Alegre 4,294m	7512507,002	608975,409	-22,49038725	-43,94061191
Rota 19 - V, Alegre 4,294m	7512503,768	608973,712	-22,49041658	-43,94062818
Rota 19 - V, Alegre 4,294m	7512501,606	608972,865	-22,49043615	-43,94063626
Rota 19 - V, Alegre 4,294m	7512487,414	608965,134	-22,49056483	-43,94071044
Rota 19 - V, Alegre 4,294m	7512469,49	608956,396	-22,49072729	-43,94079413
Rota 19 - V, Alegre 4,294m	7512435,043	608984,156	-22,49103666	-43,94052194
Rota 19 - V, Alegre 4,294m	7512425,331	609028,615	-22,49112155	-43,94008912
Rota 19 - V, Alegre 4,294m	7512401,554	609070,031	-22,49133366	-43,93968492
Rota 19 - V, Alegre 4,294m	7512373,678	609076,697	-22,49158502	-43,93961821
Rota 19 - V, Alegre 4,294m	7512347,706	609077,318	-22,49181957	-43,93961038
Rota 19 - V, Alegre 4,294m	7512314,755	609093,044	-22,4921162	-43,93945525
Rota 19 - V, Alegre 4,294m	7512279,079	609116,533	-22,49243693	-43,93922448
Rota 19 - V, Alegre 4,294m	7512278,008	609117,294	-22,49244657	-43,939217
Rota 19 - V, Alegre 4,294m	7512220,819	609122,934	-22,49296276	-43,93915825
Rota 19 - V, Alegre 4,294m	7512149,968	609111,947	-22,49360342	-43,93926017
Rota 19 - V, Alegre 4,294m	7512102,825	609107,323	-22,49402953	-43,93930187
Rota 19 - V, Alegre 4,294m	7512040,065	609098,693	-22,49459696	-43,93938143
Rota 19 - V, Alegre 4,294m	7511989,882	609106,593	-22,49504973	-43,93930118
Rota 19 - V, Alegre 4,294m	7511956,571	609132,713	-22,49534894	-43,93904499
Rota 19 - V, Alegre 4,294m	7511927,57	609191,889	-22,4956071	-43,93846778
Rota 19 - V, Alegre 4,294m	7511925,69	609258,211	-22,49561984	-43,93782297
Rota 19 - V, Alegre 4,294m	7511941,275	609345,429	-22,49547347	-43,93697625
Rota 19 - V, Alegre 4,294m	7511943,857	609435,429	-22,49544438	-43,93610159
Rota 19 - V, Alegre 4,294m	7511970,565	609508,022	-22,49519848	-43,93539781
Rota 19 - V, Alegre 4,294m	7511970,31	609509,163	-22,49520071	-43,9353867
Rota 19 - V, Alegre 4,294m	7511973,504	609569,927	-22,49516796	-43,93479627
Rota 19 - V, Alegre 4,294m	7511915,108	609637,895	-22,49569104	-43,93413155
Rota 19 - V, Alegre 4,294m	7511848,078	609668,504	-22,49629452	-43,93382938
Rota 19 - V, Alegre 4,294m	7511741,486	609666,391	-22,49725744	-43,93384254
Rota 19 - V, Alegre 4,294m	7511694,387	609652,213	-22,49768378	-43,9339771
Rota 19 - V, Alegre 4,294m	7511681,011	609631,515	-22,49780593	-43,93417736
Rota 19 - V, Alegre 4,294m	7511666,867	609560,418	-22,49793825	-43,93486749

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - V, Alegre 4,294m	7511651,776	609553,888	-22,49807498	-43,93492992
Rota 19 - V, Alegre 4,294m	7511617,546	609561,178	-22,4983837	-43,93485669
Rota 19 - V, Alegre 4,294m	7511572,666	609576,327	-22,4987881	-43,93470633
Rota 19 - V, Alegre 4,294m	7511474,585	609602,1	-22,49967235	-43,93444901
Rota 19 - V, Alegre 4,294m	7511410,243	609634,536	-22,50025143	-43,93412927
Rota 19 - V, Alegre 4,294m	7511328,498	609683,83	-22,50098661	-43,93364443
Rota 19 - V, Alegre 4,294m	7511337,468	609695,328	-22,50090485	-43,93353328
Rota 19 - V, Alegre 4,294m	7511376,653	609718,644	-22,50054942	-43,93330935
Rota 19 - V, Alegre 4,294m	7511276,754	609777,705	-22,50144794	-43,9327283
Rota 19 - V, Alegre 4,294m	7511340,458	609813,762	-22,50087022	-43,93238222
Rota 19 - V, Alegre 4,294m	7511409,844	609860,886	-22,50024046	-43,93192894
Rota 19 - V, Alegre 4,294m	7511455,867	609902,212	-22,49982209	-43,93153042
Rota 19 - V, Alegre 4,294m	7511480,008	609934,911	-22,49960194	-43,93121424
Rota 19 - V, Alegre 4,294m	7511490,767	609952,435	-22,49950363	-43,93104464
UBS - Vargem Alegre	7511481,014	609959,053	-22,49959129	-43,93097963
Rota 19 - BR393 11,464m	7513935,146	598113,265	-22,4781466	-44,04628314
Rota 19 - BR393 11,464m	7513891,892	598175,391	-22,47853373	-44,04567663
Rota 19 - BR393 11,464m	7513807,769	598297,951	-22,47928653	-44,04448018
Rota 19 - BR393 11,464m	7513754,35	598374,359	-22,47976466	-44,04373422
Rota 19 - BR393 11,464m	7513716,441	598431,073	-22,48010381	-44,04318062
Rota 19 - BR393 11,464m	7513677,517	598490,086	-22,480452	-44,04260462
Rota 19 - BR393 11,464m	7513649,844	598561,537	-22,48069783	-44,04190841
Rota 19 - BR393 11,464m	7513631,108	598660,088	-22,48086138	-44,04094937
Rota 19 - BR393 11,464m	7513631,151	598717,958	-22,48085764	-44,04038689
Rota 19 - BR393 11,464m	7513643,315	598978,164	-22,48073269	-44,03785852
Rota 19 - BR393 11,464m	7513661,053	599247,283	-22,48055683	-44,03524387
Rota 19 - BR393 11,464m	7513670,784	599454,969	-22,48045684	-44,03322585
Rota 19 - BR393 11,464m	7513678,199	599648,625	-22,48037857	-44,03134405
Rota 19 - BR393 11,464m	7513691,707	599897,929	-22,48024198	-44,02892175
Rota 19 - BR393 11,464m	7513703,196	600124,265	-22,48012494	-44,02672257
Rota 19 - BR393 11,464m	7513714,379	600212,134	-22,48001876	-44,02586923
Rota 19 - BR393 11,464m	7513757,566	600309,577	-22,47962294	-44,02492485
Rota 19 - BR393 11,464m	7513792,396	600381,519	-22,4793041	-44,02422781
Rota 19 - BR393 11,464m	7513831,221	600461,315	-22,47894871	-44,02345468
Rota 19 - BR393 11,464m	7513855,952	600516,273	-22,47872209	-44,02292208
Rota 19 - BR393 11,464m	7513884,456	600572,675	-22,4784613	-44,0223757
Rota 19 - BR393 11,464m	7513913,231	600634,66	-22,47819773	-44,02177505
Rota 19 - BR393 11,464m	7513948,563	600719,768	-22,47787357	-44,0209501
Rota 19 - BR393 11,464m	7513959,446	600747,677	-22,47777361	-44,02067953
Rota 19 - BR393 11,464m	7513990,662	600857,454	-22,47748516	-44,01961455
Rota 19 - BR393 11,464m	7514004,406	600948,546	-22,47735563	-44,01873006
Rota 19 - BR393 11,464m	7514011,488	601018,622	-22,47728752	-44,01804941
Rota 19 - BR393 11,464m	7514026,502	601133,983	-22,47714507	-44,01692913



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - BR393 11,464m	7514046,932	601279,262	-22,47695191	-44,01551842
Rota 19 - BR393 11,464m	7514068,523	601445,945	-22,47674699	-44,01389974
Rota 19 - BR393 11,464m	7514110,376	601771,874	-22,47634954	-44,01073461
Rota 19 - BR393 11,464m	7514135,945	601964,626	-22,47610708	-44,00886284
Rota 19 - BR393 11,464m	7514154,662	602113,227	-22,47592913	-44,00741975
Rota 19 - BR393 11,464m	7514172,908	602282,66	-22,47575418	-44,00577417
Rota 19 - BR393 11,464m	7514188,515	602389,575	-22,47560679	-44,00473604
Rota 19 - BR393 11,464m	7514211,396	602589,725	-22,4753881	-44,00279221
Rota 19 - BR393 11,464m	7514232,986	602759,873	-22,47518285	-44,0011399
Rota 19 - BR393 11,464m	7514252,602	602836,186	-22,47500107	-44,00039948
Rota 19 - BR393 11,464m	7514278,25	602907,114	-22,47476512	-43,99971178
Rota 19 - BR393 11,464m	7514287,602	602942,619	-22,47467851	-43,9993673
Rota 19 - BR393 11,464m	7514283,026	602982,481	-22,47471744	-43,99897958
Rota 19 - BR393 11,464m	7514262,615	603020,442	-22,47489951	-43,9986093
Rota 19 - BR393 11,464m	7514214,319	603069,354	-22,4753328	-43,99813079
Rota 19 - BR393 11,464m	7514179,391	603112,55	-22,47564569	-43,99770868
Rota 19 - BR393 11,464m	7514164,411	603163,031	-22,47577794	-43,99721708
Rota 19 - BR393 11,464m	7514166,49	603191,072	-22,47575747	-43,99694467
Rota 19 - BR393 11,464m	7514182,548	603231,883	-22,47560996	-43,99654907
Rota 19 - BR393 11,464m	7514212,076	603267,54	-22,47534109	-43,99620444
Rota 19 - BR393 11,464m	7514234,809	603279,889	-22,475135	-43,99608589
Rota 19 - BR393 11,464m	7514314,52	603321,215	-22,47441249	-43,99568943
Rota 19 - BR393 11,464m	7514349,137	603352,371	-22,47409793	-43,99538887
Rota 19 - BR393 11,464m	7514368,428	603396,725	-22,47392099	-43,99495905
Rota 19 - BR393 11,464m	7514369,867	603442,101	-22,47390524	-43,99451813
Rota 19 - BR393 11,464m	7514352,055	603484,873	-22,47406354	-43,99410126
Rota 19 - BR393 11,464m	7514306,633	603536,814	-22,47447067	-43,99359347
Rota 19 - BR393 11,464m	7514266,975	603599,167	-22,4748251	-43,99298487
Rota 19 - BR393 11,464m	7514263,217	603624,347	-22,47485752	-43,9927399
Rota 19 - BR393 11,464m	7514269,075	603668,712	-22,47480191	-43,99230909
Rota 19 - BR393 11,464m	7514306,053	603788,545	-22,47446062	-43,99114684
Rota 19 - BR393 11,464m	7514331,537	603894,798	-22,47422397	-43,99011582
Rota 19 - BR393 11,464m	7514333,316	603987,073	-22,47420228	-43,98921911
Rota 19 - BR393 11,464m	7514309,009	604128,186	-22,47441324	-43,98784602
Rota 19 - BR393 11,464m	7514245,298	604250,309	-22,47498125	-43,98665491
Rota 19 - BR393 11,464m	7514143,261	604359,442	-22,47589625	-43,98558752
Rota 19 - BR393 11,464m	7514025,582	604480,244	-22,47695181	-43,98440566
Rota 19 - BR393 11,464m	7513861,13	604642,135	-22,47842732	-43,98282135
Rota 19 - BR393 11,464m	7513712,105	604788,641	-22,47976441	-43,98138756
Rota 19 - BR393 11,464m	7513645,888	604877,294	-22,48035708	-43,98052152
Rota 19 - BR393 11,464m	7513601,357	604953,599	-22,48075462	-43,97977693
Rota 19 - BR393 11,464m	7513572,168	605051,257	-22,48101226	-43,9788258
Rota 19 - BR393 11,464m	7513538,898	605210,63	-22,48130296	-43,97727456

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - BR393 11,464m	7513505,546	605379,157	-22,48159381	-43,97563435
Rota 19 - BR393 11,464m	7513495,875	605440,077	-22,4816774	-43,97504158
Rota 19 - BR393 11,464m	7513466,027	605594,815	-22,48193744	-43,97353561
Rota 19 - BR393 11,464m	7513409,927	605770,596	-22,48243328	-43,97182335
Rota 19 - BR393 11,464m	7513332,052	606010,593	-22,4831218	-43,96948547
Rota 19 - BR393 11,464m	7513270,358	606196,636	-22,48366748	-43,96767306
Rota 19 - BR393 11,464m	7513209,019	606403,497	-22,48420864	-43,96565832
Rota 19 - BR393 11,464m	7513155,776	606567,617	-22,48467932	-43,96405954
Rota 19 - BR393 11,464m	7513157,078	606616,792	-22,48466448	-43,96358166
Rota 19 - BR393 11,464m	7513211,147	606739,35	-22,48416844	-43,96239407
Rota 19 - BR393 11,464m	7513278,189	606883,467	-22,48355386	-43,96099781
Rota 19 - BR393 11,464m	7513308,451	606940,825	-22,48327692	-43,96044235
Rota 19 - BR393 11,464m	7513320,141	607007,079	-22,48316718	-43,95979917
Rota 19 - BR393 11,464m	7513327,738	607077,611	-22,48309413	-43,95911414
Rota 19 - BR393 11,464m	7513342,455	607164,765	-22,48295573	-43,95826804
Rota 19 - BR393 11,464m	7513357,489	607259,188	-22,482814	-43,9573513
Rota 19 - BR393 11,464m	7513379,709	607307,193	-22,48261028	-43,95688621
Rota 19 - BR393 11,464m	7513671,994	607680,995	-22,47994666	-43,95327287
Rota 19 - BR393 11,464m	7513780,902	607823,657	-22,47895394	-43,95189368
Rota 19 - BR393 11,464m	7513839,128	607890,377	-22,47842379	-43,95124917
Rota 19 - BR393 11,464m	7513862,541	607953,017	-22,47820836	-43,95064195
Rota 19 - BR393 11,464m	7513871,237	608060,891	-22,47812298	-43,94959409
Rota 19 - BR393 11,464m	7513888,237	608165,296	-22,47796281	-43,94858051
Rota 19 - BR393 11,464m	7513921,285	608293,366	-22,47765619	-43,94733803
Rota 19 - BR393 11,464m	7513962,095	608427,197	-22,47727907	-43,94604008
Rota 19 - BR393 11,464m	7513994,202	608540,135	-22,47698189	-43,94494461
Rota 19 - BR393 11,464m	7514028,181	608666,078	-22,47666696	-43,94372289
Rota 19 - Calif <sup>3</sup> rnia 570m	7513934,565	598113,795	-22,47815182	-44,04627795
Rota 19 - Calif <sup>3</sup> rnia 570m	7514250,156	597639,772	-22,47532833	-44,05090466
UBS - Calif <sup>3</sup> rnia 2	7514018,246	597560,034	-22,47742769	-44,05166541
Rota 19 - Calif <sup>3</sup> rnia 674m	7514249,652	597639,141	-22,47533292	-44,05091077
Rota 19 - Calif <sup>3</sup> rnia 674m	7514246,174	597632,061	-22,47536474	-44,05097937
Rota 19 - Calif <sup>3</sup> rnia 674m	7514225,896	597624,39	-22,47554835	-44,05105268
Rota 19 - Calif <sup>3</sup> rnia 674m	7514209,571	597628,229	-22,47569559	-44,05101436
Rota 19 - Calif <sup>3</sup> rnia 674m	7514199,291	597631,687	-22,47578824	-44,05098011
Rota 19 - Calif <sup>3</sup> rnia 674m	7514189,875	597644,84	-22,47587255	-44,0508517
Rota 19 - Calif <sup>3</sup> rnia 674m	7514170,839	597675,022	-22,47604277	-44,05055717
Rota 19 - Calif <sup>3</sup> rnia 674m	7514132,903	597731,842	-22,47638218	-44,05000259
Rota 19 - Calif <sup>3</sup> rnia 674m	7514099,584	597779,872	-22,4766804	-44,0495337
Rota 19 - Calif <sup>3</sup> rnia 674m	7514058,513	597844,027	-22,4770477	-44,04890762
Rota 19 - Calif <sup>3</sup> rnia 674m	7514036,098	597876,036	-22,47724834	-44,04859513
Rota 19 - Calif <sup>3</sup> rnia 674m	7514019,496	597900,266	-22,47739692	-44,0483586
Rota 19 - Calif <sup>3</sup> rnia 674m	7513992,34	597943,103	-22,47763975	-44,04794057

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Califórnia 674m	7513947,357	598009,607	-22,47804225	-44,0472914
Rota 19 - Califórnia 674m	7513926,952	598041,854	-22,47822471	-44,04697671
Rota 19 - Califórnia 674m	7513887,574	598101,386	-22,47857698	-44,04639566
Rota 19 - Califórnia 674m	7513897,709	598110,227	-22,47848493	-44,04631035
Rota 19 - Califórnia 674m	7513924,728	598106,867	-22,47824107	-44,04634468
Rota 19 - Califórnia 674m	7513935,454	598113,104	-22,47814383	-44,04628473
Rota 19 - Califórnia 202m	7514199,691	597631,424	-22,47578465	-44,0509827
Rota 19 - Califórnia 202m	7514184,464	597625,094	-22,47592255	-44,05104328
Rota 19 - Califórnia 202m	7514171,043	597616,711	-22,47604426	-44,05112394
Rota 19 - Califórnia 202m	7514144,181	597601,124	-22,4762878	-44,05127378
Rota 19 - Califórnia 202m	7514114,242	597580,087	-22,47655943	-44,0514764
Rota 19 - Califórnia 202m	7514086,06	597559,511	-22,47681517	-44,05167466
Rota 19 - Califórnia 202m	7514057,452	597539,6	-22,47707472	-44,05186642
Rota 19 - Califórnia 202m	7514025,053	597541,758	-22,47736724	-44,05184346
UBS - Califórnia 1	7513946,274	597989,772	-22,47805317	-44,04748412
Rua 25 Casa 86	7513822,898	598046,951	-22,47916432	-44,04692074
Rota 19 - Califórnia 83,5m	7513887,683	598101,571	-22,47857599	-44,04639386
Rota 19 - Califórnia 83,5m	7513819,336	598053,679	-22,47919611	-44,04685513
Rota 19 - Boa Sorte 4,299m	7513846,363	617628,566	-22,47771503	-43,85660328
Rota 19 - Boa Sorte 4,299m	7513884,756	617655,83	-22,47736638	-43,85634116
Rota 19 - Boa Sorte 4,299m	7513934,903	617661,045	-22,47691308	-43,8562942
Rota 19 - Boa Sorte 4,299m	7513965,571	617688,164	-22,47663421	-43,85603291
Rota 19 - Boa Sorte 4,299m	7513977,214	617720,872	-22,47652679	-43,85571588
Rota 19 - Boa Sorte 4,299m	7513971,243	617763,903	-22,47657775	-43,85529723
Rota 19 - Boa Sorte 4,299m	7513947,541	617795,071	-22,47678969	-43,85499256
Rota 19 - Boa Sorte 4,299m	7513449,916	618135,423	-22,48126081	-43,85164766
Rota 19 - Boa Sorte 4,299m	7513343,451	618189,534	-22,48221869	-43,85111381
Rota 19 - Boa Sorte 4,299m	7512978,423	618311,21	-22,48550725	-43,84990398
Rota 19 - Boa Sorte 4,299m	7512924,157	618322,325	-22,48599663	-43,8497919
Rota 19 - Boa Sorte 4,299m	7512858,744	618319,613	-22,48658764	-43,84981337
Rota 19 - Boa Sorte 4,299m	7512790,215	618307,284	-22,48720746	-43,84992809
Rota 19 - Boa Sorte 4,299m	7512741,011	618301,042	-22,48765231	-43,84998509
Rota 19 - Boa Sorte 4,299m	7512589,835	618296,229	-22,4890181	-43,85002059
Rota 19 - Boa Sorte 4,299m	7512489,189	618322,304	-22,48992535	-43,84975963
Rota 19 - Boa Sorte 4,299m	7512437,345	618360,175	-22,49039098	-43,84938767
Rota 19 - Boa Sorte 4,299m	7512376,078	618403,878	-22,49094133	-43,8489583
Rota 19 - Boa Sorte 4,299m	7512329,942	618442,521	-22,49135535	-43,84857925
Rota 19 - Boa Sorte 4,299m	7512310,97	618457,487	-22,49152567	-43,84843237
Rota 19 - Boa Sorte 4,299m	7512295,008	618458,54	-22,49166977	-43,84842094
Rota 19 - Boa Sorte 4,299m	7512266,441	618460,103	-22,49192768	-43,84840362
Rota 19 - Boa Sorte 4,299m	7512242,481	618461,011	-22,49214403	-43,848393
Rota 19 - Boa Sorte 4,299m	7512230,078	618472,916	-22,49225523	-43,84827636
Rota 19 - Boa Sorte 4,299m	7512227,411	618493,588	-22,49227789	-43,84807523

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Boa Sorte 4,299m	7512237,12	618510,851	-22,49218899	-43,84790816
Rota 19 - Boa Sorte 4,299m	7512254,359	618530,164	-22,49203194	-43,84772173
Rota 19 - Boa Sorte 4,299m	7512280,636	618543,482	-22,49179367	-43,84759425
Rota 19 - Boa Sorte 4,299m	7512321,79	618549,87	-22,49142153	-43,84753524
Rota 19 - Boa Sorte 4,299m	7512392,393	618561,594	-22,49078301	-43,84742656
Rota 19 - Boa Sorte 4,299m	7512441,793	618580,211	-22,49033552	-43,84724931
Rota 19 - Boa Sorte 4,299m	7512477,787	618612,794	-22,49000816	-43,8469353
Rota 19 - Boa Sorte 4,299m	7512531,52	618689,208	-22,48951751	-43,8461966
Rota 19 - Boa Sorte 4,299m	7512611,919	618834,661	-22,48878121	-43,84478887
Rota 19 - Boa Sorte 4,299m	7512650,808	618892,574	-22,48842592	-43,84422889
Rota 19 - Boa Sorte 4,299m	7512684,748	618921,297	-22,48811737	-43,84395226
Rota 19 - Boa Sorte 4,299m	7512742,362	618938,352	-22,48759579	-43,84379081
Rota 19 - Boa Sorte 4,299m	7512858,485	618949,248	-22,48654619	-43,84369362
Rota 19 - Boa Sorte 4,299m	7512890,785	618975,088	-22,48625265	-43,8434449
Rota 19 - Boa Sorte 4,299m	7512907,199	619003,984	-22,48610238	-43,84316527
Rota 19 - Boa Sorte 4,299m	7512929,596	619057,203	-22,48589638	-43,84264969
Rota 19 - Boa Sorte 4,299m	7512955,723	619080,091	-22,48565879	-43,84242919
Rota 19 - Boa Sorte 4,299m	7512998,145	619117,841	-22,48527299	-43,84206548
Rota 19 - Boa Sorte 4,299m	7513021,688	619155,606	-22,48505771	-43,8417002
Rota 19 - Boa Sorte 4,299m	7513040,594	619190,945	-22,48488449	-43,84135814
Rota 19 - Boa Sorte 4,299m	7513127,322	619272,911	-22,48409541	-43,840568
Rota 19 - Boa Sorte 4,299m	7513175,579	619313,48	-22,48365671	-43,84017734
Rota 19 - Boa Sorte 4,299m	7513207,726	619353,011	-22,48336359	-43,83979555
Rota 19 - Boa Sorte 4,299m	7513218,152	619386,486	-22,48326708	-43,83947098
Rota 19 - Boa Sorte 4,299m	7513231,684	619432,848	-22,48314161	-43,8390214
Rota 19 - Boa Sorte 4,299m	7513260,558	619548,914	-22,48287269	-43,8378955
Rota 19 - Boa Sorte 4,299m	7513260,981	619567,489	-22,48286756	-43,83771499
Rota 19 - Boa Sorte 4,299m	7513254,329	619584,002	-22,48292649	-43,837554
Rota 19 - Boa Sorte 4,299m	7513239,565	619606,996	-22,48305823	-43,83732941
Rota 19 - Boa Sorte 4,299m	7513232,529	619620,648	-22,48312082	-43,83719619
Rota 19 - Boa Sorte 4,299m	7513232,423	619635,91	-22,48312071	-43,83704784
Rota 19 - Boa Sorte 4,299m	7513241,559	619651,933	-22,48303706	-43,8368928
Rota 19 - Boa Sorte 4,299m	7513260,24	619661,083	-22,4828677	-43,83680528
Rota 19 - Boa Sorte 4,299m	7513277,434	619676,441	-22,48271132	-43,83665731
Rota 19 - Boa Sorte 4,299m	7513289,441	619704,371	-22,48260091	-43,83638676
Rota 19 - Boa Sorte 4,299m	7513285,204	619724,076	-22,4826378	-43,83619492
Rota 19 - Boa Sorte 4,299m	7513264,803	619751,98	-22,4828201	-43,83592218
Rota 19 - Boa Sorte 4,299m	7513236,726	619771,344	-22,48307234	-43,83573186
Rota 19 - Boa Sorte 4,299m	7513218,732	619785,374	-22,48323388	-43,83559413
Rota 19 - Boa Sorte 4,299m	7513208,875	619798,897	-22,48332196	-43,83546196
Rota 19 - Boa Sorte 4,299m	7513208,992	619816,434	-22,48331967	-43,83529152
Rota 19 - Boa Sorte 4,299m	7513212,792	619831,466	-22,4832843	-43,83514571
Rota 19 - Boa Sorte 4,299m	7513228,126	619861,295	-22,4831437	-43,83485695

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Boa Sorte 4,299m	7513233,832	619883,322	-22,48309062	-43,8346433
Rota 19 - Boa Sorte 4,299m	7513228,513	619896,33	-22,48313774	-43,83451647
Rota 19 - Boa Sorte 4,299m	7513196,671	619920,674	-22,48342363	-43,83427745
Rota 19 - Boa Sorte 4,299m	7513143,139	619958,907	-22,48390445	-43,83390182
UBS - Boa Sorte	7513243,521	619905,183	-22,48300157	-43,83443156
Rota 19 - Areal 1,459m	7513142,979	619959,245	-22,48390588	-43,83389852
Rota 19 - Areal 1,459m	7513114,188	619969,429	-22,48416521	-43,83379735
Rota 19 - Areal 1,459m	7513086,168	619976,444	-22,4844178	-43,83372706
Rota 19 - Areal 1,459m	7513055,621	619977,853	-22,4846936	-43,83371104
Rota 19 - Areal 1,459m	7513028,098	619983,459	-22,4849418	-43,83365448
Rota 19 - Areal 1,459m	7512914,045	619996,261	-22,48597104	-43,83352142
Rota 19 - Areal 1,459m	7512858,144	620006,593	-22,48647522	-43,83341677
Rota 19 - Areal 1,459m	7512823,304	620019,417	-22,48678899	-43,83328948
Rota 19 - Areal 1,459m	7512803,527	620027,185	-22,48696708	-43,83321249
Rota 19 - Areal 1,459m	7512780,277	620025,188	-22,48717722	-43,83323014
Rota 19 - Areal 1,459m	7512750,559	620030,326	-22,48744527	-43,83317795
Rota 19 - Areal 1,459m	7512711,791	620043,915	-22,48779448	-43,83304294
Rota 19 - Areal 1,459m	7512675,147	620044,305	-22,48812542	-43,83303637
Rota 19 - Areal 1,459m	7512619,592	620041,274	-22,48862742	-43,83306162
Rota 19 - Areal 1,459m	7512597,244	620029,355	-22,48883011	-43,83317578
Rota 19 - Areal 1,459m	7512574,331	620014,221	-22,48903812	-43,83332114
Rota 19 - Areal 1,459m	7512555,522	620002,776	-22,48920881	-43,83343096
Rota 19 - Areal 1,459m	7512527,021	619999,641	-22,48946646	-43,83345927
Rota 19 - Areal 1,459m	7512494,284	619997,121	-22,48976233	-43,83348128
Rota 19 - Areal 1,459m	7512474,392	620000,861	-22,48994173	-43,83344342
Rota 19 - Areal 1,459m	7512441,198	620011,752	-22,49024077	-43,83333506
Rota 19 - Areal 1,459m	7512413,582	620019,545	-22,49048965	-43,83325722
Rota 19 - Areal 1,459m	7512384,458	620018,092	-22,49075281	-43,83326914
Rota 19 - Areal 1,459m	7512347,391	620011,333	-22,49108808	-43,83333203
Rota 19 - Areal 1,459m	7512299,846	620041,522	-22,49151538	-43,833035
Rota 19 - Areal 1,459m	7512270,695	620067,144	-22,49177689	-43,83278374
Rota 19 - Areal 1,459m	7512248,054	620087,235	-22,49197997	-43,83258675
Rota 19 - Areal 1,459m	7512229,396	620102,201	-22,49214743	-43,83243986
Rota 19 - Areal 1,459m	7512214,473	620112,117	-22,49228152	-43,83234235
Rota 19 - Areal 1,459m	7512196,976	620118,261	-22,49243913	-43,83228131
Rota 19 - Areal 1,459m	7512171,683	620123,014	-22,49266724	-43,83223319
Rota 19 - Areal 1,459m	7512155,8	620119,21	-22,49281096	-43,83226897
Rota 19 - Areal 1,459m	7512134,429	620126,161	-22,4930035	-43,83219979
Rota 19 - Areal 1,459m	7512106,127	620147,932	-22,49325759	-43,83198602
Rota 19 - Areal 1,459m	7512082,872	620159,54	-22,49346682	-43,83187144
Rota 19 - Areal 1,459m	7512057,177	620176,81	-22,49369768	-43,83170163
Rota 19 - Areal 1,459m	7512035,264	620189,886	-22,49389468	-43,83157286
Rota 19 - Areal 1,459m	7512014,58	620203,567	-22,49408054	-43,83143832

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Areal 1,459m	7511998,169	620206,972	-22,49422853	-43,83140397
Rota 19 - Areal 1,459m	7511981,658	620209,775	-22,49437745	-43,83137548
Rota 19 - Areal 1,459m	7511961,313	620215,011	-22,49456084	-43,83132304
Rota 19 - Areal 1,459m	7511947,445	620214,951	-22,49468611	-43,83132257
Rota 19 - Areal 1,459m	7511923,464	620202,91	-22,49490355	-43,83143779
Rota 19 - Areal 1,459m	7511881,039	620147,764	-22,49529063	-43,83197059
Rota 19 - Areal 1,459m	7511834,065	620084,688	-22,49571935	-43,83258014
UBS - Areal	7511828,296	620086,702	-22,49577131	-43,83256012
Rota 19 - 12,280m	7513143,038	619959,356	-22,48390534	-43,83389744
Rota 19 - 12,280m	7513152,659	619968,055	-22,48381782	-43,83381362
Rota 19 - 12,280m	7513174,251	619978,818	-22,48362205	-43,83371065
Rota 19 - 12,280m	7513187,608	619986,546	-22,48350087	-43,83363654
Rota 19 - 12,280m	7513191,642	619990,983	-22,48346412	-43,83359373
Rota 19 - 12,280m	7513188,24	620003,126	-22,48349399	-43,83347545
Rota 19 - 12,280m	7513186,973	620009,689	-22,48350497	-43,83341156
Rota 19 - 12,280m	7513191,965	620022,225	-22,483459	-43,83329011
Rota 19 - 12,280m	7513204,716	620044,14	-22,48334229	-43,83307807
Rota 19 - 12,280m	7513222,418	620075,055	-22,48318023	-43,83277894
Rota 19 - 12,280m	7513253,281	620116,579	-22,48289855	-43,8323777
Rota 19 - 12,280m	7513261,907	620130,437	-22,48281966	-43,83224366
Rota 19 - 12,280m	7513261,495	620138,53	-22,48282281	-43,83216498
Rota 19 - 12,280m	7513253,523	620143,227	-22,48289448	-43,83211872
Rota 19 - 12,280m	7513233,546	620151,384	-22,48307434	-43,83203792
Rota 19 - 12,280m	7513215,007	620159,235	-22,48324123	-43,83196021
Rota 19 - 12,280m	7513199,035	620166,554	-22,48338498	-43,83188787
Rota 19 - 12,280m	7513184,183	620177,192	-22,48351838	-43,83178335
Rota 19 - 12,280m	7513145,67	620218,45	-22,48386332	-43,83137944
Rota 19 - 12,280m	7513135,846	620246,213	-22,48395011	-43,83110886
Rota 19 - 12,280m	7513125,035	620275,509	-22,48404568	-43,8308233
Rota 19 - 12,280m	7513114,71	620297,773	-22,48413737	-43,83060613
Rota 19 - 12,280m	7513098,416	620323,746	-22,48428271	-43,83035245
Rota 19 - 12,280m	7513088,858	620343,463	-22,48436765	-43,8301601
Rota 19 - 12,280m	7513080,823	620360,82	-22,48443899	-43,82999078
Rota 19 - 12,280m	7513089,354	620374,535	-22,48436097	-43,82985813
Rota 19 - 12,280m	7513096,287	620387,193	-22,48429746	-43,82973563
Rota 19 - 12,280m	7513087,074	620407,241	-22,48437927	-43,82954008
Rota 19 - 12,280m	7513087,376	620437,957	-22,48437436	-43,82924156
Rota 19 - 12,280m	7513102,115	620458,534	-22,48423979	-43,82904269
Rota 19 - 12,280m	7513107,514	620476,298	-22,48418978	-43,82887044
Rota 19 - 12,280m	7513118,576	620505,93	-22,48408776	-43,82858329
Rota 19 - 12,280m	7513130,263	620534,707	-22,48398018	-43,82830448
Rota 19 - 12,280m	7513133,296	620554,108	-22,48395141	-43,82811615
Rota 19 - 12,280m	7513125,951	620574,11	-22,48401634	-43,82792119

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - 12,280m	7513127,177	620595,496	-22,48400375	-43,82771343
Rota 19 - 12,280m	7513131,678	620622,137	-22,48396122	-43,82745483
Rota 19 - 12,280m	7513145,934	620642,473	-22,48383101	-43,82725827
Rota 19 - 12,280m	7513161,248	620659,682	-22,48369148	-43,82709218
Rota 19 - 12,280m	7513179,861	620678,562	-22,48352203	-43,8269101
Rota 19 - 12,280m	7513190,77	620679,755	-22,48342342	-43,82689934
Rota 19 - 12,280m	7513255,583	620682,301	-22,48283783	-43,82687952
Rota 19 - 12,280m	7513310,016	620677,667	-22,48234652	-43,8269287
Rota 19 - 12,280m	7513332,223	620670,731	-22,48214643	-43,8269978
Rota 19 - 12,280m	7513349,742	620665,115	-22,48198859	-43,82705372
Rota 19 - 12,280m	7513361,837	620669,773	-22,48187902	-43,82700936
Rota 19 - 12,280m	7513377,272	620667,332	-22,48173978	-43,82703426
Rota 19 - 12,280m	7513386,456	620660,021	-22,48165734	-43,82710602
Rota 19 - 12,280m	7513427,397	620632,337	-22,48128952	-43,8273782
Rota 19 - 12,280m	7513434,412	620622,567	-22,48122685	-43,82747369
Rota 19 - 12,280m	7513468,073	620607,632	-22,48092387	-43,8276214
Rota 19 - 12,280m	7513471,263	620614,519	-22,48089457	-43,82755471
Rota 19 - 12,280m	7513473,014	620626,862	-22,48087789	-43,82743488
Rota 19 - 12,280m	7513466,695	620640,024	-22,48093403	-43,82730648
Rota 19 - 12,280m	7513451,603	620648,659	-22,48106973	-43,82722141
Rota 19 - 12,280m	7513438,471	620653,369	-22,48118801	-43,82717463
Rota 19 - 12,280m	7513422,075	620654,344	-22,48133603	-43,8271639
Rota 19 - 12,280m	7513411,408	620661,435	-22,48143188	-43,82709418
Rota 19 - 12,280m	7513402,469	620675,388	-22,48151163	-43,82695788
Rota 19 - 12,280m	7513400,914	620687,539	-22,48152481	-43,82683967
Rota 19 - 12,280m	7513398,865	620697,383	-22,48154263	-43,82674384
Rota 19 - 12,280m	7513394,444	620713,834	-22,48158139	-43,82658361
Rota 19 - 12,280m	7513393,535	620726,578	-22,4815887	-43,82645968
Rota 19 - 12,280m	7513397,299	620742,16	-22,4815536	-43,82630853
Rota 19 - 12,280m	7513403,818	620761,852	-22,48149333	-43,82611764
Rota 19 - 12,280m	7513409,569	620772,485	-22,48144063	-43,82601473
Rota 19 - 12,280m	7513419,782	620783,105	-22,48134763	-43,82591229
Rota 19 - 12,280m	7513437,246	620795,123	-22,48118904	-43,82579682
Rota 19 - 12,280m	7513452,604	620807,41	-22,48104946	-43,82567857
Rota 19 - 12,280m	7513480,8	620822,342	-22,48079374	-43,8255356
Rota 19 - 12,280m	7513519,152	620836,374	-22,48044634	-43,82540215
Rota 19 - 12,280m	7513544,582	620843,707	-22,48021614	-43,82533281
Rota 19 - 12,280m	7513559,298	620829,965	-22,4800842	-43,82546749
Rota 19 - 12,280m	7513587,911	620788,198	-22,47982871	-43,8258756
Rota 19 - 12,280m	7513615,051	620748,199	-22,47958641	-43,82626642
Rota 19 - 12,280m	7513641,553	620729,517	-22,47934836	-43,82645001
Rota 19 - 12,280m	7513696,101	620712,869	-22,47885686	-43,82661596
Rota 19 - 12,280m	7513725,86	620706,256	-22,47858853	-43,82668249

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - 12,280m	7513770,548	620723,405	-22,47818369	-43,82651922
Rota 19 - 12,280m	7513795,448	620741,902	-22,47795749	-43,82634135
Rota 19 - 12,280m	7513822,912	620776,405	-22,47770698	-43,82600812
Rota 19 - 12,280m	7513856,344	620816,513	-22,47740218	-43,82562085
Rota 19 - 12,280m	7513865,408	620832,312	-22,4773192	-43,825468
Rota 19 - 12,280m	7513883,705	620831,022	-22,47715403	-43,82548193
Rota 19 - 12,280m	7513963,539	620779,54	-22,47643661	-43,82598836
Rota 19 - 12,280m	7513995,812	620820,08	-22,47614224	-43,82559681
Rota 19 - 12,280m	7514009,824	620829,102	-22,47601504	-43,82551019
Rota 19 - 12,280m	7514033,267	620821,442	-22,47580385	-43,82558643
Rota 19 - 12,280m	7514055,402	620807,487	-22,47560491	-43,82572374
Rota 19 - 12,280m	7514065,112	620795,981	-22,47551802	-43,8258363
Rota 19 - 12,280m	7514084,288	620770,69	-22,47534661	-43,82608356
Rota 19 - 12,280m	7514096,048	620767,341	-22,47524063	-43,826117
Rota 19 - 12,280m	7514109,14	620771,823	-22,47512206	-43,82607444
Rota 19 - 12,280m	7514125,188	620783,41	-22,47497629	-43,82596305
Rota 19 - 12,280m	7514143,082	620790,063	-22,4748142	-43,82589976
Rota 19 - 12,280m	7514163,494	620778,988	-22,47463062	-43,82600894
Rota 19 - 12,280m	7514165,704	620777,925	-22,47461074	-43,82601944
Rota 19 - 12,280m	7514178,295	620774,227	-22,47449728	-43,82605634
Rota 19 - 12,280m	7514189,032	620774,302	-22,47440029	-43,82605643
Rota 19 - 12,280m	7514203,926	620776,033	-22,47426564	-43,82604074
Rota 19 - 12,280m	7514219,392	620777,225	-22,47412586	-43,82603034
Rota 19 - 12,280m	7514228,444	620765,867	-22,47404491	-43,8261414
Rota 19 - 12,280m	7514233,321	620748,212	-22,47400211	-43,82631336
Rota 19 - 12,280m	7514228,959	620736,927	-22,47404231	-43,8264227
Rota 19 - 12,280m	7514222,356	620724,917	-22,47410279	-43,82653891
Rota 19 - 12,280m	7514202,814	620700,693	-22,47428102	-43,82677285
Rota 19 - 12,280m	7514197,548	620695,429	-22,47432895	-43,82682361
Rota 19 - 12,280m	7514194,708	620685,513	-22,47435531	-43,82691976
Rota 19 - 12,280m	7514198,303	620670,821	-22,47432387	-43,82706282
Rota 19 - 12,280m	7514209,807	620666,742	-22,47422025	-43,82710333
Rota 19 - 12,280m	7514224,177	620671,009	-22,47409016	-43,82706297
Rota 19 - 12,280m	7514238,499	620675,261	-22,4739605	-43,82702273
Rota 19 - 12,280m	7514267,766	620680,705	-22,47369577	-43,82697204
Rota 19 - 12,280m	7514299,521	620692,891	-22,4734081	-43,82685603
Rota 19 - 12,280m	7514337,547	620706,635	-22,47306367	-43,82672536
Rota 19 - 12,280m	7514367,233	620732,86	-22,47279368	-43,82647275
Rota 19 - 12,280m	7514407,034	620768,271	-22,47243169	-43,82613163
Rota 19 - 12,280m	7514421,375	620786,42	-22,47230088	-43,82595635
Rota 19 - 12,280m	7514452,764	620767,033	-22,47201874	-43,82614715
Rota 19 - 12,280m	7514473,374	620716,816	-22,47183614	-43,82663675
Rota 19 - 12,280m	7514479,782	620701,4	-22,47177936	-43,82678705



## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - 12,280m	7514506,866	620704,647	-22,4715345	-43,82675755
Rota 19 - 12,280m	7514557,239	620711,517	-22,47107903	-43,82669462
Rota 19 - 12,280m	7514597,955	620715,515	-22,470711	-43,82665887
Rota 19 - 12,280m	7514612,235	620717,47	-22,47058188	-43,82664096
Rota 19 - 12,280m	7514602,059	620745,918	-22,47067178	-43,82636371
Rota 19 - 12,280m	7514594,683	620763,087	-22,47073718	-43,8261963
Rota 19 - 12,280m	7514593,218	620774,566	-22,47074961	-43,82608462
Rota 19 - 12,280m	7514592,966	620787,973	-22,47075093	-43,82595432
Rota 19 - 12,280m	7514661,311	620816,032	-22,47013165	-43,82568683
Rota 19 - 12,280m	7514719,287	620769,589	-22,46961129	-43,82614259
Rota 19 - 12,280m	7514736,388	620751,517	-22,46945811	-43,82631953
Rota 19 - 12,280m	7514837,887	620663,994	-22,46854754	-43,82717781
Rota 19 - 12,280m	7514858,407	620650,988	-22,46836312	-43,82730577
Rota 19 - 12,280m	7514873,695	620654,601	-22,46822478	-43,82727181
Rota 19 - 12,280m	7514886,978	620671,344	-22,46810363	-43,82711012
Rota 19 - 12,280m	7514942,599	620750,987	-22,46759562	-43,82634036
Rota 19 - 12,280m	7514959,483	620787,078	-22,46744057	-43,82599091
Rota 19 - 12,280m	7514955,236	620795,059	-22,46747836	-43,82591303
Rota 19 - 12,280m	7514942,689	620802,652	-22,46759115	-43,82583828
Rota 19 - 12,280m	7514929,189	620810,553	-22,46771252	-43,82576047
Rota 19 - 12,280m	7514920,825	620815,261	-22,46778774	-43,82571408
Rota 19 - 12,280m	7514874,356	620839,744	-22,46820572	-43,82547262
Rota 19 - 12,280m	7514851,354	620849,824	-22,46841276	-43,8253729
Rota 19 - 12,280m	7514831,878	620858,97	-22,46858803	-43,82528254
Rota 19 - 12,280m	7514814,432	620871,29	-22,46874473	-43,82516148
Rota 19 - 12,280m	7514856,813	620924,33	-22,46835818	-43,82464926
Rota 19 - 12,280m	7514874,81	620924,79	-22,4681956	-43,82464616
Rota 19 - 12,280m	7514981,678	620868,665	-22,46723432	-43,82519973
Rota 19 - 12,280m	7515019,281	620845,555	-22,46689633	-43,82542718
Rota 19 - 12,280m	7515152,01	620778,917	-22,46570221	-43,82608487
Rota 19 - 12,280m	7515117,701	620712,198	-22,46601682	-43,82673063
Rota 19 - 12,280m	7515287,191	620618,186	-22,4644926	-43,82765713
Rota 19 - 12,280m	7515299,058	620628,875	-22,46438466	-43,82755415
Rota 19 - 12,280m	7515368,189	620702,075	-22,46375508	-43,82684806
Rota 19 - 12,280m	7515434,784	620764,862	-22,46314915	-43,82624298
Rota 19 - 12,280m	7515478,575	620805,647	-22,46275074	-43,82584997
Rota 19 - 12,280m	7515513,907	620843,73	-22,46242892	-43,82548258
Rota 19 - 12,280m	7515542,249	620879,762	-22,46217038	-43,82513458
Rota 19 - 12,280m	7515557,901	620914,267	-22,46202657	-43,82480046
Rota 19 - 12,280m	7515562,752	620941,64	-22,46198082	-43,82453483
Rota 19 - 12,280m	7515570,701	620980,862	-22,46190624	-43,82415429
Rota 19 - 12,280m	7515584,46	621036,024	-22,46177806	-43,82361929
Rota 19 - 12,280m	7515602,584	621069,791	-22,46161197	-43,82329253

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - 12,280m	7515645,518	621115,126	-22,46122096	-43,82285526
Rota 19 - 12,280m	7515720,232	621179,55	-22,46054157	-43,82223492
Rota 19 - 12,280m	7515775,266	621219,326	-22,46004167	-43,82185259
Rota 19 - 12,280m	7515819,13	621251,368	-22,45964321	-43,82154457
Rota 19 - 12,280m	7515847,557	621279,527	-22,45938446	-43,8212731
Rota 19 - 12,280m	7515896,817	621335,605	-22,45893555	-43,82073192
Rota 19 - 12,280m	7515935,077	621383,711	-22,45858657	-43,82026738
Rota 19 - 12,280m	7515995,91	621466,956	-22,4580312	-43,81946311
Rota 19 - 12,280m	7516052,992	621553,153	-22,45750949	-43,81862987
Rota 19 - 12,280m	7516073,983	621541,347	-22,45732074	-43,8187462
Rota 19 - 12,280m	7516117,469	621517,118	-22,4569297	-43,81898496
Rota 19 - 12,280m	7516132,129	621512,074	-22,45679764	-43,8190351
Rota 19 - 12,280m	7516149,741	621512,87	-22,45663851	-43,81902871
Rota 19 - 12,280m	7516163,395	621512,665	-22,4565152	-43,81903175
Rota 19 - 12,280m	7516182,594	621509,804	-22,45634199	-43,81906102
Rota 19 - 12,280m	7516204,6	621494,204	-22,45614434	-43,8192143
Rota 19 - 12,280m	7516215,255	621482,991	-22,45604891	-43,81932407
Rota 19 - 12,280m	7516258,854	621459,715	-22,45565677	-43,81955358
Rota 19 - 12,280m	7516302,579	621430,226	-22,45526394	-43,81984348
Rota 19 - 12,280m	7516324,787	621419,978	-22,45506407	-43,81994476
Rota 19 - 12,280m	7516309,242	621394,111	-22,45520632	-43,82019493
Rota 19 - 12,280m	7516298,948	621367,989	-22,45530115	-43,82044797
Rota 19 - 12,280m	7516298,577	621360,284	-22,45530505	-43,82052282
Rota 19 - 12,280m	7516335,399	621347,808	-22,45497336	-43,82064686
Rota 19 - 12,280m	7516403,969	621331,661	-22,45435517	-43,82080901
Rota 19 - 12,280m	7516446,184	621326,869	-22,45397421	-43,82085879
Rota 19 - 12,280m	7516477,912	621332,788	-22,45368722	-43,8208037
Rota 19 - 12,280m	7516482,655	621351,086	-22,45364308	-43,82062626
Rota 19 - 12,280m	7516476,858	621365,189	-22,45369444	-43,82048877
Rota 19 - 12,280m	7516476,348	621373,184	-22,45369848	-43,82041105
Rota 19 - 12,280m	7516495,966	621381,775	-22,45352068	-43,82032907
Rota 19 - 12,280m	7516523,702	621390,02	-22,45326958	-43,82025107
Rota 19 - 12,280m	7516553,703	621408,698	-22,45299727	-43,82007186
Rota 19 - 12,280m	7516568,248	621437,229	-22,45286388	-43,81979574
Rota 19 - 12,280m	7516578,702	621458,021	-22,45276798	-43,8195945
Rota 19 - 12,280m	7516579,556	621477,807	-22,45275886	-43,81940231
Rota 19 - 12,280m	7516577,082	621505,136	-22,45277926	-43,81913656
Rota 19 - 12,280m	7516564,815	621523,929	-22,45288872	-43,81895301
Rota 19 - 12,280m	7516545,79	621558,175	-22,45305812	-43,81861878
Rota 19 - 12,280m	7516499,816	621664,092	-22,45346583	-43,81758606
Rota 19 - 12,280m	7516485,125	621699,589	-22,45359599	-43,81724001
Rota 19 - 12,280m	7516464,772	621737,443	-22,45377712	-43,81687061
Rota 19 - 12,280m	7516443,636	621767,326	-22,45396589	-43,81657862

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - 12,280m	7516420,633	621795,878	-22,45417163	-43,81629941
Rota 19 - 12,280m	7516352,548	621887,327	-22,45478006	-43,81540557
Rota 19 - 12,280m	7516326,61	621921,886	-22,45501187	-43,81506776
Rota 19 - 12,280m	7516321,473	621931,514	-22,45505758	-43,81497381
Rota 19 - 12,280m	7516294,905	621952,922	-22,45529601	-43,81476374
Rota 19 - 12,280m	7516274,878	621965,46	-22,45547601	-43,81464037
Rota 19 - 12,280m	7516227,451	621987,212	-22,45590283	-43,81442536
Rota 19 - 12,280m	7516200,461	622006,173	-22,45614525	-43,81423903
Rota 19 - 12,280m	7516171,292	622022,353	-22,45640755	-43,81407957
Rota 19 - 12,280m	7516156,273	622037,186	-22,45654214	-43,81393428
Rota 19 - 12,280m	7516156,058	622052,892	-22,45654296	-43,81378164
Rota 19 - 12,280m	7516171,992	622097,978	-22,45639582	-43,81334476
Rota 19 - 12,280m	7516188,128	622131,828	-22,45624766	-43,81301706
Rota 19 - 12,280m	7516208,051	622161,902	-22,45606557	-43,81272636
Rota 19 - 12,280m	7516247,362	622186,713	-22,45570873	-43,81248829
Rota 19 - 12,280m	7516352,402	622220,538	-22,45475758	-43,81216769
Rota 19 - 12,280m	7516404,804	622240,952	-22,45428281	-43,81197336
Rota 19 - 12,280m	7516426,206	622259,805	-22,45408816	-43,81179181
Rota 19 - 12,280m	7516436,646	622297,619	-22,45399116	-43,81142516
Rota 19 - 12,280m	7516440,193	622335,153	-22,45395643	-43,81106072
Rota 19 - 12,280m	7516476,396	622565,682	-22,45361293	-43,80882344
Rota 19 - 12,280m	7516508,834	622795,874	-22,45330341	-43,80658915
Rota 19 - 12,280m	7516530,057	622930,993	-22,45310201	-43,80527785
Rota 19 - 12,280m	7516542,653	623007,704	-22,45298273	-43,80453342
Rota 19 - 12,280m	7516565,9	623071,939	-22,45276813	-43,80391105
Rota 19 - 12,280m	7516608,346	623165,111	-22,45237804	-43,80300898
Rota 19 - 12,280m	7516658,577	623264,065	-22,45191722	-43,80205136
Rota 19 - 12,280m	7516737,839	623409,308	-22,45119083	-43,80064619
Rota 19 - 12,280m	7516864,921	623652,145	-22,45002546	-43,79829647
Rota 19 - 12,280m	7516917,754	623738,65	-22,44954201	-43,79746004
Rota 19 - 12,280m	7516979,669	623810,308	-22,4489776	-43,79676858
Rota 19 - 12,280m	7517101,3	623922,958	-22,44787086	-43,79568348
Rota 19 - 12,280m	7517174,802	623986,044	-22,44720241	-43,79507623
Rota 19 - 12,280m	7517220,118	624027,145	-22,44679013	-43,79468041
Rota 19 - 12,280m	7517305,383	624117,702	-22,44601344	-43,79380717
Rota 19 - 12,280m	7517359,714	624177,317	-22,44551839	-43,79323217
Rota 19 - 12,280m	7517443,6	624268,093	-22,44475413	-43,79235671
Rota 19 - 12,280m	7517583,083	624417,144	-22,44348347	-43,79091939
Rota 19 - 12,280m	7517742,169	624586,369	-22,44203428	-43,78928762
Rota 19 - 12,280m	7517812,548	624678,754	-22,44139187	-43,78839552
Rota 19 - 12,280m	7517871,186	624805,666	-22,440853	-43,78716703
Rota 19 - 12,280m	7517924,053	624937,445	-22,44036587	-43,7858908
Rota 19 - 12,280m	7517955,564	625021,575	-22,44007511	-43,78507587

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - 12,280m	7518014,695	625159,349	-22,43953096	-43,78374191
Rota 19 - 12,280m	7518051,319	625222,709	-22,43919553	-43,78312918
Rota 19 - 12,280m	7518093,613	625276,473	-22,4388096	-43,78261015
Rota 19 - 12,280m	7518155,791	625345,187	-22,43824296	-43,78194743
Rota 19 - 12,280m	7518257,372	625452,368	-22,43731762	-43,78091408
Rota 19 - 12,280m	7518289,236	625493,108	-22,43702684	-43,78052078
Rota 19 - 12,280m	7518322,85	625539,18	-22,43671985	-43,78007581
Rota 19 - 12,280m	7518408,521	625686,768	-22,43593523	-43,77864864
Rota 19 - 12,280m	7518478,592	625804,173	-22,43529372	-43,77751352
Rota 19 - 12,280m	7518525,02	625881,007	-22,43486872	-43,7767707
Rota 19 - 12,280m	7518637,63	626070,933	-22,43383763	-43,77493438
Rota 19 - 12,280m	7518675,679	626134,558	-22,43348929	-43,77431924
Rota 19 - 12,280m	7518715,692	626193,126	-22,43312357	-43,7737534
Rota 19 - 12,280m	7518759,441	626239,015	-22,43272504	-43,77331103
UBS - Morro do Gama	7513539,058	620852,086	-22,48026544	-43,82525095
Rota 19 - 44m	7514479,78	620701,603	-22,47177936	-43,82678508
Rota 19 - 44m	7514483,99	620686,919	-22,47174237	-43,8269281
Rota 19 - 44m	7514492,703	620659,459	-22,47166561	-43,82719563
Sec. de Saãde	7514504,957	620656,266	-22,47155516	-43,82722759
Saãde da Mulher	7514927,716	620821,907	-22,46772503	-43,82565002
Rota 19 - 123m	7515287,026	620618,533	-22,46449406	-43,82765374
Rota 19 - 123m	7515271,464	620595,568	-22,46463624	-43,82787572
Rota 19 - 123m	7515252,408	620575,196	-22,4648098	-43,82807226
Rota 19 - 123m	7515225,549	620550,387	-22,46505415	-43,82831131
Rota 19 - 123m	7515200,266	620532,929	-22,46528374	-43,82847904
UBS - Albert Saibim	7515195,188	620541,473	-22,465329	-43,82839563
UBS - Santo Antnio	7516464,586	621345,333	-22,4538067	-43,82068078
Rota 19 - Coimbra 241m	7517162,386	623975,024	-22,44731535	-43,79518235
Rota 19 - Coimbra 241m	7517170,707	623955,612	-22,4472416	-43,79537161
Rota 19 - Coimbra 241m	7517173,626	623944,861	-22,44721602	-43,7954763
Rota 19 - Coimbra 241m	7517179,446	623930,003	-22,44716453	-43,79562112
Rota 19 - Coimbra 241m	7517189,135	623909,019	-22,44707854	-43,79582577
Rota 19 - Coimbra 241m	7517197,531	623892,676	-22,44700389	-43,79598523
Rota 19 - Coimbra 241m	7517204,293	623879,672	-22,44694375	-43,79611211
Rota 19 - Coimbra 241m	7517204,303	623869,859	-22,44694437	-43,79620746
Rota 19 - Coimbra 241m	7517197,735	623864,958	-22,44700406	-43,79625457
Rota 19 - Coimbra 241m	7517191,993	623868,217	-22,44705568	-43,79622245
Rota 19 - Coimbra 241m	7517188,451	623879,56	-22,44708685	-43,79611196
Rota 19 - Coimbra 241m	7517184,466	623888,498	-22,44712219	-43,7960248
Rota 19 - Coimbra 241m	7517180,012	623897,887	-22,44716174	-43,79593323
Rota 19 - Coimbra 241m	7517175,56	623910,173	-22,44720106	-43,7958135
Rota 19 - Coimbra 241m	7517172,356	623923,743	-22,44722902	-43,79568139
Rota 19 - Coimbra 241m	7517167,016	623940,238	-22,44727605	-43,7955207

## ANEXO III

	<b>PREFEITURA MUNICIPAL DE BARRA DO PIRAI</b>
	<b>SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP</b>
	<b>ROTAS E ETINERÁRIOS RSS</b>
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
CREA: 1996101066	

PONTO	UTMY-N	UTMX-E	LAT	LON
Rota 19 - Coimbra 241m	7517162,854	623953,446	-22,44731269	-43,79539205
Rota 19 - Coimbra 241m	7517162,386	623975,024	-22,44731535	-43,79518235
UBS - Coimbra	7517170,473	623888,884	-22,44724856	-43,79601996
Rota 19 - IML 76,8m	7518759,229	626238,902	-22,43272697	-43,77331211
Rota 19 - IML 76,8m	7518750,897	626254,197	-22,43280109	-43,77316286
Rota 19 - IML 76,8m	7518753,462	626271,852	-22,43277662	-43,77299153
Rota 19 - IML 76,8m	7518759,923	626288,761	-22,43271702	-43,77282776
Rota 19 - IML 76,8m	7518759,685	626300,765	-22,43271828	-43,77271112
Rota 19 - IML 76,8m	7518750,718	626307,819	-22,43279875	-43,77264188
Rota 19 - Fim da Rota 1,544m	7518759,29	626238,753	-22,43272642	-43,77331357
Rota 19 - Fim da Rota 1,544m	7518775,721	626255,535	-22,43257678	-43,77315182
Rota 19 - Fim da Rota 1,544m	7518835,041	626320,26	-22,43203623	-43,7725277
Rota 19 - Fim da Rota 1,544m	7518862,989	626349,817	-22,43178162	-43,77224277
Rota 19 - Fim da Rota 1,544m	7518887,492	626377,396	-22,43155827	-43,77197677
Rota 19 - Fim da Rota 1,544m	7518926,88	626418,801	-22,43119946	-43,77157764
Rota 19 - Fim da Rota 1,544m	7518969,867	626462,959	-22,43080793	-43,77115205
Rota 19 - Fim da Rota 1,544m	7519002,26	626501,216	-22,43051253	-43,77078294
Rota 19 - Fim da Rota 1,544m	7519062,901	626565,15	-22,42996009	-43,77016663
Rota 19 - Fim da Rota 1,544m	7519122,745	626629,581	-22,42941482	-43,76954542
Rota 19 - Fim da Rota 1,544m	7519150,6	626658,428	-22,4291611	-43,76926738
Rota 19 - Fim da Rota 1,544m	7519223,451	626716,709	-22,42849878	-43,76870698
Rota 19 - Fim da Rota 1,544m	7519280,704	626764,016	-22,42797817	-43,76825195
Rota 19 - Fim da Rota 1,544m	7519364,759	626830,687	-22,42721405	-43,76761093
Rota 19 - Fim da Rota 1,544m	7519411,475	626873,231	-22,42678895	-43,76720134
Rota 19 - Fim da Rota 1,544m	7519488,23	626956,607	-22,42608952	-43,76639746
Rota 19 - Fim da Rota 1,544m	7519550,496	627030,288	-22,42552167	-43,76568663
Rota 19 - Fim da Rota 1,544m	7519638,67	627129,399	-22,42471792	-43,76473081
Rota 19 - Fim da Rota 1,544m	7519721,981	627225,847	-22,42395829	-43,76380049
Rota 19 - Fim da Rota 1,544m	7519737,603	627253,262	-22,42381515	-43,76353541
Rota 19 - Fim da Rota 1,544m	7519750,907	627294,429	-22,42369193	-43,76313654
Rota 19 - Fim da Rota 1,544m	7519751,122	627320,228	-22,42368807	-43,76288593
Rota 19 - Fim da Rota 1,544m	7519749,15	627342,322	-22,42370424	-43,76267113
Rota 19 - Fim da Rota 1,544m	7519743,833	627359,435	-22,42375099	-43,76250446
Rota 19 - Fim da Rota 1,544m	7519737,673	627379,803	-22,4238051	-43,76230609



ESTADO DO RIO DE JANEIRO  
PREFEITURA MUNICIPAL DE BARRA DO PIRAI  
SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICOS

**ANEXO IV**


**Volume mensal de resíduos sólidos urbanos (RSU), acompanhado do quadro analítico de lixo coletado no exercício de 2017, contendo os manifestos dos resíduos e pesagens diárias no aterro sanitário.**

Com base nas informações referentes à destinação da Consorcio Intermunicipal de Gestão de Resíduos Sólidos do Vale do Café - CONVALE nos meses de junho a setembro de 2017, comprovadas através de tickets de pesagem, afirma-se que a média mensal ESTIMADA de resíduos a serem transportados será de **1426,72 toneladas por mês**.

<b>Item</b>	<b>Descrição dos serviços Coleta e transporte de resíduos sólidos urbanos (RSU)</b>	<b>Quantidade (Toneladas)</b>
01	Quantidade no período de 01/06/2017 a 31/06/2017	1449,19
02	Quantidade no período de 01/07/2017 a 31/07/2017	1416,99
03	Quantidade no período de 01/08/2017 a 31/08/2017	1459,75
04	Quantidade no período de 01/09/2017 a 30/09/2017	1380,93
<b>Total para o período de 04 (doze) meses</b>		<b>5706,86</b>
<b>MÉDIA ESTIMADA DE LIXO</b>		<b>1426,72</b>

NOTA:

PARA O CONHECIMENTO DA MÉDIA ANUAL DE LIXO COLETADO E TRANSPORTADO FOI NECESSÁRIO ESTIMAR A QUANTIDADE A SER PRODUZIDA NO PERÍODO DE 01/06/2017 A 30/09/2017, TOMANDO COMO BASE PARA SUA DEFINIÇÃO A MÉDIA DOS MESES APRESENTADOS.

	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066


## CONTROLE DE PESAGEM DE RESÍDUOS

### Sólidos Urbanos

	Tickt de Pesage	junho-17	Peso (Kg)
1	7867	01/06/2017	6.740,00
2	7868	01/06/2017	7.060,00
3	7869	01/06/2017	6.270,00
4	7872	01/06/2017	9.080,00
5	7885	01/06/2017	5.190,00
6	7889	01/06/2017	6.750,00
7	7890	01/06/2017	6.990,00
8	7893	01/06/2017	8.420,00
9	7894	01/06/2017	8.090,00
10	7895	02/06/2017	6.780,00
11	7898	02/06/2017	5.910,00
12	7911	02/06/2017	9.270,00
13	7915	02/06/2017	7.690,00
14	7921	02/06/2017	5.410,00
15	7923	02/06/2017	7.440,00
16	7925	02/06/2017	8.600,00
17	7926	03/06/2017	7.610,00
18	7928	03/06/2017	7.520,00
19	7934	03/06/2017	7.020,00
20	7939	03/06/2017	4.620,00
21	7941	03/06/2017	7.500,00
22	7942	03/06/2017	8.360,00
23	7943	03/06/2017	6.470,00
24	7945	05/06/2017	6.070,00
25	7949	05/06/2017	6.470,00
26	7954	05/06/2017	8.960,00
27	7964	05/06/2017	5.990,00
28	7965	05/06/2017	5.410,00
29	7966	05/06/2017	8.000,00
30	7973	05/06/2017	6.660,00
31	7977	05/06/2017	8.330,00
32	7979	06/06/2017	7.570,00
33	7982	06/06/2017	8.500,00
34	7984	06/06/2017	7.250,00
35	7992	06/06/2017	8.850,00
36	7993	06/06/2017	8.040,00
37	7995	06/06/2017	7.160,00
38	8000	06/06/2017	5.930,00
39	8001	06/06/2017	6.710,00
40	8004	07/06/2017	7.940,00
41	8005	07/06/2017	8.630,00
42	8007	07/06/2017	7.090,00

<b>Sólidos Urbanos (Ton):</b>	<b>1.449,19</b>
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## ANEXO IV

	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	

<b>Sólidos Urbanos</b>			
Tickt de Pesage	junho-17		Peso (Kg)
43	8013	07/06/2017	6.900,00
44	8017	07/06/2017	7.410,00
45	8022	07/06/2017	4.990,00
46	8028	07/06/2017	9.020,00
47	8029	07/06/2017	7.350,00
48	8031	08/06/2017	7.280,00
49	8035	08/06/2017	7.530,00
50	8039	08/06/2017	5.950,00
51	8043	08/06/2017	7.470,00
52	8047	08/06/2017	9.020,00
53	8048	08/06/2017	7.700,00
54	8049	09/06/2017	6.220,00
55	8052	09/06/2017	6.950,00
56	8054	09/06/2017	6.530,00
57	8064	09/06/2017	7.810,00
58	8066	09/06/2017	7.510,00
59	8069	09/06/2017	9.040,00
60	8071	09/06/2017	8.640,00
61	8072	10/06/2017	7.540,00
62	8075	10/06/2017	4.660,00
63	8078	10/06/2017	7.720,00
64	8080	10/06/2017	6.150,00
65	8083	10/06/2017	4.670,00
66	8086	10/06/2017	5.860,00
67	8090	10/06/2017	5.300,00
68	8091	12/06/2017	8.010,00
69	8092	12/06/2017	8.410,00
70	8095	12/06/2017	6.560,00
71	8098	12/06/2017	9.180,00
72	8108	12/06/2017	7.580,00
73	8110	12/06/2017	9.290,00
74	8118	12/06/2017	6.650,00
75	8119	12/06/2017	7.140,00
76	8120	12/06/2017	8.050,00
77	8121	13/06/2017	8.970,00
78	8122	13/06/2017	8.720,00
79	8124	13/06/2017	6.940,00
80	8129	13/06/2017	7.280,00
81	8135	13/06/2017	6.950,00
82	8141	13/06/2017	6.980,00
83	8142	13/06/2017	9.040,00
84	8145	13/06/2017	8.240,00
85	8149	14/06/2017	8.180,00



## ANEXO IV


	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

## CONTROLE DE PESAGEM DE RESÍDUOS

### Sólidos Urbanos

Tickt de Pesage	junho-17	Peso (Kg)	
86	8150	14/06/2017	8.860,00
87	8151	14/06/2017	9.170,00
88	8158	14/06/2017	8.640,00
89	8171	14/06/2017	5.750,00
90	8172	14/06/2017	9.420,00
91	8173	14/06/2017	7.540,00
92	8174	15/06/2017	8.270,00
93	8177	15/06/2017	7.140,00
94	8178	15/06/2017	6.960,00
95	8180	15/06/2017	5.670,00
96	8185	15/06/2017	4.340,00
97	8187	15/06/2017	8.670,00
98	8189	15/06/2017	8.180,00
99	8190	15/06/2017	9.070,00
100	8192	16/06/2017	6.740,00
101	8196	16/06/2017	8.120,00
102	8198	16/06/2017	5.690,00
103	8205	16/06/2017	7.650,00
104	8207	16/06/2017	5.200,00
105	8209	16/06/2017	6.830,00
106	8210	17/06/2017	7.690,00
107	8213	17/06/2017	9.110,00
108	8215	17/06/2017	9.680,00
109	8225	17/06/2017	6.570,00
110	8230	17/06/2017	8.120,00
111	8231	17/06/2017	6.080,00
112	8232	17/06/2017	8.890,00
113	8234	19/06/2017	6.910,00
114	8235	19/06/2017	7.380,00
115	8236	19/06/2017	8.950,00
116	8237	19/06/2017	7.300,00
117	8243	19/06/2017	8.390,00
118	8253	19/06/2017	8.570,00
119	8262	19/06/2017	7.960,00
120	8263	19/06/2017	7.800,00
121	8264	19/06/2017	8.700,00
122	8265	20/06/2017	7.780,00
123	8266	20/06/2017	8.630,00
124	8267	20/06/2017	8.850,00
125	8270	20/06/2017	7.820,00
126	8271	20/06/2017	6.770,00
127	8284	20/06/2017	8.000,00
128	8289	20/06/2017	8.460,00

## ANEXO IV


	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066

## CONTROLE DE PESAGEM DE RESÍDUOS

### Sólidos Urbanos

	Tickt de Pesage	junho-17	Peso (Kg)
129	8290	20/06/2017	6.990,00
130	8291	20/06/2017	9.730,00
131	8292	21/06/2017	8.150,00
132	8293	21/06/2017	8.730,00
133	8299	21/06/2017	7.730,00
134	8300	21/06/2017	8.830,00
135	8318	21/06/2017	7.710,00
136	8319	21/06/2017	6.860,00
137	8320	21/06/2017	8.950,00
138	8326	22/06/2017	6.690,00
139	8329	22/06/2017	7.780,00
140	8335	22/06/2017	8.000,00
141	8336	22/06/2017	7.300,00
142	8338	22/06/2017	8.170,00
143	8339	22/06/2017	8.100,00
144	8345	23/06/2017	6.820,00
145	8353	23/06/2017	7.900,00
146	8355	23/06/2017	7.080,00
147	8357	23/06/2017	7.160,00
148	8358	23/06/2017	9.040,00
149	8362	24/06/2017	8.330,00
150	8363	24/06/2017	5.580,00
151	8377	24/06/2017	8.460,00
152	8379	24/06/2017	5.520,00
153	8381	24/06/2017	9.080,00
154	8382	24/06/2017	8.840,00
155	8383	24/06/2017	7.770,00
156	8385	26/06/2017	8.290,00
157	8391	26/06/2017	6.310,00
158	8393	26/06/2017	9.630,00
159	8401	26/06/2017	7.940,00
160	8402	26/06/2017	8.140,00
161	8409	26/06/2017	9.370,00
162	8412	26/06/2017	9.780,00
163	8413	26/06/2017	8.280,00
164	8414	27/06/2017	8.380,00
165	8416	27/06/2017	8.030,00
166	8419	27/06/2017	9.080,00
167	8427	27/06/2017	7.950,00
168	8430	27/06/2017	7.180,00
169	8431	27/06/2017	9.700,00
170	8435	27/06/2017	9.200,00
171	8437	28/06/2017	8.650,00

## ANEXO IV

	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	

**Sólidos Urbanos**

	Tickt de Pesage	junho-17	Peso (Kg)
172	8438	28/06/2017	8.770,00
173	8440	28/06/2017	7.860,00
174	8444	28/06/2017	5.710,00
175	8450	28/06/2017	8.630,00
176	8452	28/06/2017	7.250,00
177	8457	28/06/2017	7.290,00
178	8462	28/06/2017	6.550,00
179	8463	23/06/2017	9.660,00
180	8464	23/06/2017	9.450,00
181	8470	29/06/2017	6.530,00
182	8473	29/06/2017	7.530,00
183	8483	29/06/2017	8.290,00
184	8484	29/06/2017	6.220,00
185	8485	29/06/2017	8.370,00
186	8486	30/06/2017	7.040,00
187	8488	30/06/2017	4.580,00
188	8498	30/06/2017	9.450,00
189	8503	30/06/2017	10.610,00
190	8505	30/06/2017	8.130,00
	<b>SOMA:</b>		1.449.190,00



PREFEITURA MUNICIPAL DE BARRA DO PIRAI  
 SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP  
 MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI  
 ELABORADO POR: ENG. RICARDO ELLER VIANA  
 CREA: 1996101066


## CONTROLE DE PESAGEM DE RESÍDUOS

### Sólidos Urbanos

Tickt de Pesage	julho-17	Peso (Kg)	
1	8506	01/07/2017	6.660,00
2	8507	01/07/2017	8.740,00
3	8508	01/07/2017	7.530,00
4	8512	01/07/2017	7.630,00
5	8524	01/07/2017	5.440,00
6	8527	01/07/2017	9.280,00
7	8528	01/07/2017	6.610,00
8	8529	01/07/2017	9.260,00
9	8530	01/07/2017	7.520,00
10	8531	03/07/2017	8.270,00
11	8532	03/07/2017	9.490,00
12	8538	03/07/2017	6.800,00
13	8544	03/07/2017	6.460,00
14	8553	03/07/2017	9.030,00
15	8556	03/07/2017	7.580,00
16	8559	03/07/2017	8.940,00
17	8560	03/07/2017	7.780,00
18	8561	04/07/2017	8.410,00
19	8566	04/07/2017	7.930,00
20	8568	04/07/2017	7.600,00
21	8572	04/07/2017	7.970,00
22	8573	04/07/2017	6.370,00
23	8580	04/07/2017	7.860,00
24	8581	04/07/2017	8.390,00
25	8582	05/07/2017	6.790,00
26	8585	05/07/2017	8.350,00
27	8587	05/07/2017	7.080,00
28	8593	05/07/2017	6.280,00
29	8600	05/07/2017	8.720,00
30	8602	05/07/2017	8.320,00
31	8606	05/07/2017	6.840,00
32	8607	05/07/2017	6.980,00
33	8608	06/07/2017	7.580,00
34	8614	06/07/2017	6.810,00
35	8622	06/07/2017	9.730,00
36	8624	06/07/2017	9.620,00
37	8625	06/07/2017	7.450,00
38	8627	07/07/2017	6.330,00
39	8633	07/07/2017	7.420,00
40	8637	07/07/2017	6.710,00
41	8638	07/07/2017	6.770,00
42	8647	07/07/2017	8.610,00
43	8648	07/07/2017	8.880,00


**Sólidos Urbanos (Ton): 1.416,99**

## ANEXO IV

	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	


<b>Sólidos Urbanos</b>			
Tickt de Pesage		julho-17	Peso (Kg)
44	8652	08/07/2017	9.230,00
45	8657	08/07/2017	7.300,00
46	8661	08/07/2017	9.490,00
47	8662	08/07/2017	8.780,00
48	8664	08/07/2017	8.400,00
49	8666	08/07/2017	7.330,00
50	8667	08/07/2017	8.400,00
51	8668	10/07/2017	6.920,00
52	8669	10/07/2017	7.400,00
53	8670	10/07/2017	6.430,00
54	8685	10/07/2017	7.390,00
55	8688	10/07/2017	8.510,00
56	8693	10/07/2017	8.670,00
57	8695	10/07/2017	7.150,00
58	8700	10/07/2017	7.850,00
59	8701	11/07/2017	8.240,00
60	8702	11/07/2017	7.540,00
61	8704	11/07/2017	9.120,00
62	8707	11/07/2017	7.570,00
63	8713	11/07/2017	8.980,00
64	8719	11/07/2017	8.150,00
65	8720	11/07/2017	8.130,00
66	8721	11/07/2017	7.430,00
67	8723	12/07/2017	6.510,00
68	8724	12/07/2017	7.720,00
69	8728	12/07/2017	6.790,00
70	8734	12/07/2017	5.830,00
71	8735	12/07/2017	9.520,00
72	8741	12/07/2017	8.930,00
73	8744	12/07/2017	6.300,00
74	8746	13/07/2017	7.780,00
75	8750	13/07/2017	5.220,00
76	8753	13/07/2017	6.680,00
77	8757	13/07/2017	8.100,00
78	8758	13/07/2017	7.310,00
79	8760	13/07/2017	6.370,00
80	8763	14/07/2017	8.180,00
81	8769	14/07/2017	8.290,00
82	8774	14/07/2017	7.540,00
83	8780	14/07/2017	8.040,00
84	8784	14/07/2017	8.920,00
85	8785	14/07/2017	7.950,00
86	8786	15/07/2017	8.010,00
87	8791	15/07/2017	7.020,00

## ANEXO IV

	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	

<b>Sólidos Urbanos</b>			
Tickt de Pesage	julho-17	Peso (Kg)	
88	8794	15/07/2017	9.280,00
89	8799	15/07/2017	9.090,00
90	8800	15/07/2017	9.190,00
91	8801	15/07/2017	7.860,00
92	8802	15/07/2017	7.390,00
93	8803	17/07/2017	6.240,00
94	8804	17/07/2017	6.410,00
95	8813	17/07/2017	8.910,00
96	8822	17/07/2017	8.370,00
97	8823	17/07/2017	7.820,00
98	8828	17/07/2017	8.930,00
99	8830	17/07/2017	7.730,00
100	8832	17/07/2017	7.640,00
101	8834	18/07/2017	7.620,00
102	8835	18/07/2017	8.380,00
103	8836	18/07/2017	8.200,00
104	8851	18/07/2017	9.290,00
105	8852	18/07/2017	8.800,00
106	8855	18/07/2017	7.740,00
107	8857	18/07/2017	8.190,00
108	8859	19/07/2017	6.770,00
109	8862	19/07/2017	8.740,00
110	8863	19/07/2017	8.290,00
111	8874	19/07/2017	8.290,00
112	8877	19/07/2017	7.210,00
113	8878	19/07/2017	8.770,00
114	8887	19/07/2017	6.610,00
115	8890	20/07/2017	7.300,00
116	8896	20/07/2017	8.600,00
117	8897	20/07/2017	7.480,00
118	8901	20/07/2017	5.970,00
119	8903	20/07/2017	7.840,00
120	8906	20/07/2017	6.230,00
121	8908	21/07/2017	7.160,00
122	8918	21/07/2017	7.830,00
123	8920	21/07/2017	6.540,00
124	8929	21/07/2017	7.010,00
125	8930	21/07/2017	7.800,00
126	8932	21/07/2017	7.130,00
127	8933	21/07/2017	7.020,00
128	8934	22/07/2017	6.860,00
129	8941	22/07/2017	8.650,00
130	8942	22/07/2017	7.250,00
131	8948	22/07/2017	8.790,00

## ANEXO IV

	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	

<b>Sólidos Urbanos</b>			
Tickt de Pesage		julho-17	Peso (Kg)
132	8951	22/07/2017	8.010,00
133	8952	22/07/2017	7.420,00
134	8953	22/07/2017	8.440,00
135	8955	24/07/2017	7.640,00
136	8956	24/07/2017	7.170,00
137	8968	24/07/2017	7.850,00
138	8970	24/07/2017	8.550,00
139	8972	24/07/2017	6.160,00
140	8978	24/07/2017	6.860,00
141	8979	24/07/2017	8.770,00
142	8981	25/07/2017	6.660,00
143	8982	25/07/2017	6.390,00
144	8984	25/07/2017	5.400,00
145	8990	25/07/2017	8.720,00
146	8995	25/07/2017	5.050,00
147	8996	25/07/2017	6.250,00
148	8998	25/07/2017	6.860,00
149	8999	25/07/2017	9.090,00
150	9006	25/07/2017	8.380,00
151	9007	26/07/2017	7.960,00
152	9008	26/07/2017	8.650,00
153	9012	26/07/2017	6.400,00
154	9016	26/07/2017	7.290,00
155	9020	26/07/2017	5.680,00
156	9026	26/07/2017	8.320,00
157	9028	26/07/2017	5.760,00
158	9029	26/07/2017	8.300,00
159	9032	26/07/2017	6.150,00
160	9042	27/07/2017	7.530,00
161	9044	27/07/2017	7.710,00
162	9047	27/07/2017	6.470,00
163	9048	27/07/2017	8.330,00
164	9051	27/07/2017	6.910,00
165	9053	28/07/2017	7.290,00
166	9056	28/07/2017	5.840,00
167	9065	28/07/2017	8.620,00
168	9068	28/07/2017	9.210,00
169	9070	28/07/2017	7.860,00
170	9072	28/07/2017	5.230,00
171	9076	28/07/2017	7.400,00
172	9077	29/07/2017	7.090,00
173	9085	29/07/2017	7.560,00
174	9088	29/07/2017	8.590,00
175	9091	29/07/2017	6.110,00




PREFEITURA MUNICIPAL DE BARRA DO PIRAI  
 SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP  
 MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI  
 ELABORADO POR: ENG. RICARDO ELLER VIANA  
 CREA: 1996101066

## CONTROLE DE PESAGEM DE RESÍDUOS

### Sólidos Urbanos

Tickt de Pesage	julho-17	Peso (Kg)
176	9095 29/07/2017	7.840,00
177	9096 29/07/2017	7.460,00
178	9097 29/07/2017	7.830,00
179	9099 31/07/2017	5.890,00
180	9103 31/07/2017	4.860,00
181	9109 31/07/2017	9.160,00
182	9116 31/07/2017	9.010,00
183	9119 31/07/2017	7.660,00
184	9123 31/07/2017	8.430,00
185	9126 31/07/2017	9.460,00
<b>SOMA:</b>		<b>1.416.990,00</b>




	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	

**Sólidos Urbanos**

Tickt de Pesage	agosto-17	Peso (Kg)	
1	9127	01/08/2017	7.350,00
2	9129	01/08/2017	7.720,00
3	9130	01/08/2017	7.850,00
4	9135	01/08/2017	8.670,00
5	9141	01/08/2017	6.460,00
6	9142	01/08/2017	7.840,00
7	9143	01/08/2017	7.010,00
8	9151	01/08/2017	7.240,00
9	9152	01/08/2017	7.940,00
10	9153	02/08/2017	8.420,00
11	9155	02/08/2017	7.520,00
12	9162	02/08/2017	8.070,00
13	9166	02/08/2017	7.790,00
14	9172	02/08/2017	8.620,00
15	9176	02/08/2017	6.040,00
16	9177	03/08/2017	6.550,00
17	9180	03/08/2017	8.350,00
18	9185	03/08/2017	7.570,00
19	9186	03/08/2017	6.770,00
20	9190	03/08/2017	6.590,00
21	9191	03/08/2017	6.170,00
22	9194	03/08/2017	5.730,00
23	9195	04/08/2017	6.960,00
24	9204	04/08/2017	5.080,00
25	9208	04/08/2017	8.640,00
26	9215	04/08/2017	8.830,00
27	9216	04/08/2017	6.120,00
28	9219	04/08/2017	6.270,00
29	9221	04/08/2017	7.570,00
30	9222	05/08/2017	7.020,00
31	9231	05/08/2017	7.640,00
32	9234	05/08/2017	6.020,00
33	9237	05/08/2017	5.890,00
34	9240	05/08/2017	8.220,00
35	9242	05/08/2017	7.350,00
36	9243	05/08/2017	7.240,00
37	9244	07/08/2017	7.760,00
38	9245	07/08/2017	8.050,00
39	9260	07/08/2017	7.810,00
40	9262	07/08/2017	9.340,00
41	9266	07/08/2017	7.300,00
42	9272	07/08/2017	6.940,00

<b>Sólidos Urbanos (Ton):</b>	<b>1.459,75</b>
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## ANEXO IV

	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	

**Sólidos Urbanos**

Tickt de Pesage	agosto-17	Peso (Kg)	
43	9275	07/08/2017	6.750,00
44	9276	07/08/2017	5.600,00
45	9277	08/08/2017	6.910,00
46	9278	08/08/2017	6.910,00
47	9286	08/08/2017	8.330,00
48	9291	08/08/2017	7.800,00
49	9292	08/08/2017	9.010,00
50	9297	08/08/2017	6.170,00
51	9298	08/08/2017	7.330,00
52	9299	08/08/2017	7.410,00
53	9300	09/08/2017	7.710,00
54	9304	09/08/2017	6.500,00
55	9309	09/08/2017	8.590,00
56	9315	09/08/2017	6.370,00
57	9319	09/08/2017	7.630,00
58	9328	09/08/2017	8.730,00
59	9331	09/08/2017	6.600,00
60	9334	10/08/2017	6.110,00
61	9336	10/08/2017	7.100,00
62	9342	10/08/2017	6.500,00
63	9348	10/08/2017	8.670,00
64	9349	10/08/2017	8.200,00
65	9352	10/08/2017	6.850,00
66	9353	10/08/2017	5.720,00
67	9357	11/08/2017	6.880,00
68	9365	11/08/2017	6.480,00
69	9367	11/08/2017	8.190,00
70	9368	11/08/2017	6.120,00
71	9379	11/08/2017	7.730,00
72	9381	11/08/2017	8.400,00
73	9382	11/08/2017	7.240,00
74	9383	12/08/2017	7.720,00
75	9394	12/08/2017	7.160,00
76	9399	12/08/2017	8.180,00
77	9400	12/08/2017	9.240,00
78	9401	12/08/2017	7.890,00
79	9402	12/08/2017	7.640,00
80	9403	14/08/2017	8.150,00
81	9404	14/08/2017	8.020,00
82	9415	14/08/2017	7.700,00
83	9418	14/08/2017	9.310,00
84	9420	14/08/2017	6.950,00
85	9421	14/08/2017	5.890,00


## ANEXO IV

	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	

**Sólidos Urbanos**

	Tickt de Pesage	agosto-17	Peso (Kg)
86	9427	14/08/2017	7.650,00
87	9428	14/08/2017	7.130,00
88	9431	15/08/2017	6.840,00
89	9433	15/08/2017	8.160,00
90	9436	15/08/2017	9.100,00
91	9445	15/08/2017	8.570,00
92	9447	15/08/2017	7.560,00
93	9452	15/08/2017	5.440,00
94	9458	15/08/2017	8.740,00
95	9459	15/08/2017	7.620,00
96	9460	15/08/2017	6.800,00
97	9461	16/08/2017	6.920,00
98	9462	16/08/2017	6.350,00
99	9465	16/08/2017	8.230,00
100	9473	16/08/2017	7.050,00
101	9481	16/08/2017	7.580,00
102	9483	16/08/2017	8.130,00
103	9488	16/08/2017	6.190,00
104	9489	17/08/2017	5.600,00
105	9496	17/08/2017	8.650,00
106	9503	17/08/2017	8.980,00
107	9504	17/08/2017	6.730,00
108	9505	17/08/2017	9.500,00
109	9507	18/08/2017	8.000,00
110	9516	18/08/2017	8.590,00
111	9519	18/08/2017	9.140,00
112	9520	18/08/2017	5.940,00
113	9525	18/08/2017	8.030,00
114	9529	18/08/2017	6.850,00
115	9530	19/08/2017	9.310,00
116	9532	19/08/2017	5.820,00
117	9537	19/08/2017	6.950,00
118	9542	19/08/2017	9.030,00
119	9544	19/08/2017	6.400,00
120	9547	19/08/2017	9.760,00
121	9548	19/08/2017	8.060,00
122	9549	21/08/2017	9.620,00
123	9550	21/08/2017	7.920,00
124	9553	21/08/2017	7.250,00
125	9560	21/08/2017	7.300,00
126	9561	21/08/2017	6.690,00
127	9565	21/08/2017	9.720,00
128	9572	21/08/2017	6.890,00


## ANEXO IV

	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	

**Sólidos Urbanos**


	Tickt de Pesage	agosto-17	Peso (Kg)
129	9576	21/08/2017	9.130,00
130	9577	22/08/2017	8.400,00
131	9578	22/08/2017	8.060,00
132	9584	22/08/2017	8.050,00
133	9586	22/08/2017	6.850,00
134	9594	22/08/2017	6.760,00
135	9595	22/08/2017	8.630,00
136	9597	22/08/2017	9.320,00
137	9598	23/08/2017	8.180,00
138	9599	23/08/2017	10.440,00
139	9602	23/08/2017	8.910,00
140	9615	23/08/2017	9.390,00
141	9616	23/08/2017	6.690,00
142	9622	23/08/2017	8.570,00
143	9624	23/08/2017	5.050,00
144	9626	24/08/2017	7.960,00
145	9627	24/08/2017	7.720,00
146	9628	24/08/2017	7.380,00
147	9635	24/08/2017	6.810,00
148	9641	24/08/2017	8.550,00
149	9642	24/08/2017	6.440,00
150	9643	24/08/2017	9.090,00
151	9647	25/08/2017	8.910,00
152	9653	25/08/2017	8.210,00
153	9657	25/08/2017	9.980,00
154	9664	25/08/2017	4.600,00
155	9667	25/08/2017	6.390,00
156	9668	25/08/2017	9.840,00
157	9669	25/08/2017	8.330,00
158	9673	26/08/2017	7.300,00
159	9677	26/08/2017	7.130,00
160	9685	26/08/2017	7.930,00
161	9686	26/08/2017	6.240,00
162	9688	26/08/2017	7.580,00
163	9690	26/08/2017	8.030,00
164	9693	28/08/2017	6.610,00
165	9694	28/08/2017	3.850,00
166	9695	28/08/2017	8.710,00
167	9697	28/08/2017	7.930,00
168	9710	28/08/2017	9.920,00
169	9712	28/08/2017	6.280,00
170	9720	28/08/2017	7.040,00
171	9721	28/08/2017	8.830,00

## ANEXO IV

	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	

**Sólidos Urbanos**

Tickt de Pesage	agosto-17	Peso (Kg)	
172	9722	28/08/2017	8.450,00
173	9725	29/08/2017	8.110,00
174	9730	29/08/2017	7.280,00
175	9737	29/08/2017	8.230,00
176	9743	29/08/2017	7.770,00
177	9749	29/08/2017	6.410,00
178	9750	29/08/2017	9.300,00
179	9753	29/08/2017	9.150,00
180	9755	30/08/2017	7.950,00
181	9760	30/08/2017	8.920,00
182	9766	30/08/2017	8.640,00
183	9768	30/08/2017	7.650,00
184	9773	30/08/2017	7.800,00
185	9778	30/08/2017	8.480,00
186	9782	30/08/2017	6.020,00
187	9784	31/08/2017	7.170,00
188	9787	31/08/2017	6.270,00
189	9789	31/08/2017	5.310,00
190	9794	31/08/2017	5.910,00
191	9796	31/08/2017	6.930,00
192	9800	31/08/2017	6.220,00
193	9801	31/08/2017	8.260,00
<b>Soma:</b>			<b>1.459.750,00</b>


	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	

**Sólidos Urbanos**

	Tickt de Pesage	setembro-17	Peso (Kg)
1	9807	01/09/2017	7.740,00
2	9812	01/09/2017	7.520,00
3	9813	01/09/2017	8.520,00
4	9819	01/09/2017	8.450,00
5	9825	01/09/2017	8.400,00
6	9827	02/09/2017	8.040,00
7	9831	02/09/2017	8.630,00
8	9832	02/09/2017	7.260,00
9	9836	02/09/2017	5.910,00
10	9840	02/09/2017	8.710,00
11	9841	02/09/2017	8.960,00
12	9842	02/09/2017	7.450,00
13	9843	04/09/2017	8.050,00
14	9844	04/09/2017	7.790,00
15	9850	04/09/2017	7.370,00
16	9858	04/09/2017	9.030,00
17	9860	04/09/2017	7.260,00
18	9870	04/09/2017	7.350,00
19	9873	04/09/2017	8.160,00
20	9874	04/09/2017	9.060,00
21	9875	05/09/2017	6.320,00
22	9876	05/09/2017	7.690,00
23	9877	05/09/2017	7.500,00
24	9887	05/09/2017	8.080,00
25	9890	05/09/2017	7.340,00
26	9896	05/09/2017	8.610,00
27	9899	05/09/2017	6.190,00
28	9900	05/09/2017	6.170,00
29	9902	06/09/2017	7.710,00
30	9903	06/09/2017	7.010,00
31	9910	06/09/2017	8.220,00
32	9913	06/09/2017	6.760,00
33	9918	06/09/2017	6.770,00
34	9920	06/09/2017	7.180,00
35	9930	06/09/2017	9.280,00
36	9931	07/09/2017	7.080,00
37	9935	07/09/2017	6.760,00
38	9942	07/09/2017	8.280,00
39	9943	07/09/2017	5.470,00
40	9944	07/09/2017	8.420,00
41	9945	08/09/2017	7.450,00

<b>Sólidos Urbanos (Ton): 1.380,93</b>
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## ANEXO IV

	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	

**Sólidos Urbanos**

Tickt de Pesage	setembro-17	Peso (Kg)
42	9953 08/09/2017	7.980,00
43	9954 08/09/2017	8.390,00
44	9958 08/09/2017	7.850,00
45	9965 08/09/2017	5.660,00
46	9966 08/09/2017	6.260,00
47	9967 08/09/2017	6.930,00
48	9970 09/09/2017	7.780,00
49	9979 09/09/2017	6.280,00
50	9980 09/09/2017	7.430,00
51	9984 09/09/2017	7.320,00
52	9988 09/09/2017	6.970,00
53	9991 09/09/2017	7.490,00
54	9993 09/09/2017	8.000,00
55	9994 11/09/2017	7.950,00
56	9996 11/09/2017	8.440,00
57	10004 11/09/2017	7.790,00
58	10012 11/09/2017	9.250,00
59	10013 11/09/2017	7.280,00
60	10018 11/09/2017	7.260,00
61	10023 11/09/2017	9.010,00
62	10025 11/09/2017	8.250,00
63	10026 12/09/2017	6.850,00
64	10028 12/09/2017	7.570,00
65	10032 12/09/2017	6.750,00
66	10041 12/09/2017	7.680,00
67	10043 12/09/2017	8.860,00
68	10048 12/09/2017	6.650,00
69	10050 12/09/2017	8.380,00
70	10053 12/09/2017	7.130,00
71	10054 13/09/2017	8.340,00
72	10056 13/09/2017	7.390,00
73	10061 13/09/2017	7.910,00
74	10065 13/09/2017	7.900,00
75	10069 13/09/2017	8.150,00
76	10072 13/09/2017	7.870,00
77	10075 13/09/2017	7.650,00
78	10081 14/09/2017	7.330,00
79	10086 14/09/2017	7.620,00
80	10090 14/09/2017	7.810,00
81	10101 14/09/2017	8.910,00
82	10102 14/09/2017	7.370,00

## ANEXO IV


	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	

**Sólidos Urbanos**

	Tickt de Pesage	setembro-17	Peso (Kg)
83	10103	14/09/2017	8.670,00
84	10107	15/09/2017	8.520,00
85	10115	15/09/2017	6.470,00
86	10117	15/09/2017	9.250,00
87	10118	15/09/2017	7.950,00
88	10124	15/09/2017	7.750,00
89	10125	16/09/2017	8.010,00
90	10126	16/09/2017	5.910,00
91	10130	16/09/2017	7.600,00
92	10135	16/09/2017	8.500,00
93	10136	16/09/2017	8.370,00
94	10139	16/09/2017	5.340,00
95	10142	16/09/2017	6.810,00
96	10144	16/09/2017	7.220,00
97	10146	18/09/2017	7.540,00
98	10147	18/09/2017	7.230,00
99	10153	18/09/2017	6.950,00
100	10159	18/09/2017	8.210,00
101	10166	18/09/2017	8.760,00
102	10175	18/09/2017	6.400,00
103	10178	18/09/2017	5.550,00
104	10179	18/09/2017	8.420,00
105	10180	18/09/2017	9.290,00
106	10181	18/09/2017	7.030,00
107	10183	19/09/2017	7.080,00
108	10188	19/09/2017	7.440,00
109	10189	19/09/2017	8.690,00
110	10193	19/09/2017	8.190,00
111	10197	19/09/2017	6.010,00
112	10202	19/09/2017	8.160,00
113	10203	19/09/2017	6.360,00
114	10204	20/09/2017	8.770,00
115	10206	20/09/2017	6.830,00
116	10211	20/09/2017	7.530,00
117	10214	20/09/2017	9.410,00
118	10219	20/09/2017	7.900,00
119	10220	20/09/2017	7.590,00
120	10225	20/09/2017	6.370,00
121	10226	20/09/2017	6.290,00
122	10227	21/09/2017	6.780,00
123	10236	21/09/2017	6.910,00




## ANEXO IV

	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICIPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	

**Sólidos Urbanos**

	Tickt de Pesage	setembro-17	Peso (Kg)
124	10239	21/09/2017	6.470,00
125	10249	21/09/2017	6.870,00
126	10250	21/09/2017	6.230,00
127	10251	21/09/2017	8.010,00
128	10254	22/09/2017	6.000,00
129	10263	22/09/2017	9.590,00
130	10264	22/09/2017	6.280,00
131	10265	22/09/2017	7.920,00
132	10269	22/09/2017	8.390,00
133	10273	22/09/2017	6.910,00
134	10275	22/09/2017	6.670,00
135	10282	23/09/2017	6.410,00
136	10284	23/09/2017	7.190,00
137	10285	23/09/2017	7.560,00
138	10288	23/09/2017	6.010,00
139	10290	23/09/2017	7.870,00
140	10295	23/09/2017	7.040,00
141	10296	25/09/2017	7.640,00
142	10297	25/09/2017	7.210,00
143	10298	25/09/2017	7.830,00
144	10303	25/09/2017	8.170,00
145	10311	25/09/2017	9.270,00
146	10314	25/09/2017	6.960,00
147	10317	25/09/2017	6.500,00
148	10323	25/09/2017	8.640,00
149	10324	25/09/2017	8.040,00
150	10325	26/09/2017	7.990,00
151	10326	26/09/2017	7.470,00
152	10327	26/09/2017	6.620,00
153	10341	26/09/2017	7.070,00
154	10342	26/09/2017	8.590,00
155	10344	26/09/2017	7.950,00
156	10349	26/09/2017	6.880,00
157	10351	26/09/2017	6.460,00
158	10352	27/09/2017	8.210,00
159	10353	27/09/2017	7.390,00
160	10359	27/09/2017	8.510,00
161	10362	27/09/2017	7.150,00
162	10372	27/09/2017	9.470,00
163	10373	27/09/2017	7.380,00
164	10376	27/09/2017	5.690,00

## ANEXO IV

	PREFEITURA MUNICIPAL DE BARRA DO PIRAI
	SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICO- SMSP
	MUNICÍPIO SEDE E DEMAIS DISTRITOS DE BARRA DO PIRAI
	ELABORADO POR: ENG. RICARDO ELLER VIANA
	CREA: 1996101066
<b>CONTROLE DE PESAGEM DE RESÍDUOS</b>	

**Sólidos Urbanos**

Tickt de Pesage	setembro-17	Peso (Kg)
-----------------	-------------	-----------

165	10377	28/09/2017	6.670,00
166	10383	28/09/2017	8.610,00
167	10392	28/09/2017	5.600,00
168	10393	28/09/2017	7.490,00
169	10394	28/09/2017	9.670,00
170	10395	29/09/2017	7.460,00
171	10408	29/09/2017	8.430,00
172	10409	29/09/2017	7.400,00
173	10410	29/09/2017	8.640,00
174	10413	29/09/2017	6.940,00
175	10418	29/09/2017	7.840,00
176	10419	29/09/2017	7.100,00
177	10420	30/09/2017	7.380,00
178	10425	30/09/2017	6.930,00
179	10428	30/09/2017	7.730,00
180	10430	30/09/2017	7.370,00
181	10435	30/09/2017	5.890,00
182	10436	30/09/2017	7.010,00
183	10438	30/09/2017	6.560,00

**SOMA: 1.380.930,00**



ESTADO DO RIO DE JANEIRO  
PREFEITURA MUNICIPAL DE BARRA DO PIRAI  
SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICOS

ANEXO V

Informações por Cidades e Estados - Instituto Brasileiro de Geografia e Estatística

Barra do Piraí	
Prefeito	MARIO REIS ESTEVES [2017]
Gentílico	barrense
Área territorial	584,610 km <sup>2</sup> [2017]
População estimada	99.969 pessoas [2018]
Densidade demográfica	163,70 hab/km <sup>2</sup> [2010]
Escolarização 6 a 14 anos	98,7 % [2010]
IDHM Índice de desenvolvimento	0,733 [2010]
Mortalidade infantil	13,99 óbitos por mil nascidos vivos [2014]
Receitas realizadas	222.232 R\$ (×1000) [2017]
Despesas empenhadas	84.263 R\$ (×1000) [2008]
PIB per capita	19.857,28 R\$ [2015]

Notas:

Escolarização 6 a 14 anos: [população residente no município de 6 a 14 anos de idade matriculada no ensino regular/total de população residente no município de 6 a 14 anos de idade]

Fontes:

Área territorial: Área territorial brasileira. Rio de Janeiro: IBGE, 2018  
População estimada: IBGE, Diretoria de Pesquisas, Coordenação de População e Indicadores Sociais, Estimativas da população residente com data de referência 1o de julho de 2017  
Densidade demográfica: IBGE, Censo Demográfico 2010, Área territorial brasileira. Rio de Janeiro: IBGE, 2010  
IDHM Índice de desenvolvimento humano municipal: Programa das Nações Unidas para o Desenvolvimento  
Escolarização 6 a 14 anos: IBGE, Censo Demográfico 2010  
Receitas realizadas: Contas anuais. Receitas orçamentárias realizadas (Anexo I-C) 2014 e Despesas orçamentárias empenhadas (Anexo I-D) 2014. In: Brasil. Secretaria do Tesouro Nacional, Siconfi - Sistema de Informações Contábeis e Fiscais do Setor Público Brasileiro. Brasília: IBGE, 2015  
População estimada: IBGE, Diretoria de Pesquisas, Coordenação de População e Indicadores Sociais, Estimativas da população residente com data de referência 1o de julho de 2017  
PIB per capita: IBGE, em parceria com os Órgãos Estaduais de Estatística, Secretarias Estaduais de Governo e Superintendência da Zona Franca de Manaus - SUFRAMA  
Mortalidade infantil: Ministério da Saúde, Departamento de Informática do Sistema Único de

FONTE: <https://www.ibge.gov.br/estatisticas-novoportal/por-cidade-estado-estatisticas.html?c=3300308>

MEMO CÁLCULO:

RSS-TON/MÊS-BARRA DO PIRAI
14,70377375

POP. BP 2018 IBGE UND.	COLETA RSS (KG/HAB/ANO) FONTE: ABRELPE 2017 -ITEM 3.5 PÁG. 54 - RJ	RSS TON/ANO
99969	1,765	176,445285

3.5 REGIÃO SUDESTE (ABRELPE - 2017)

TABELA 7. QUANTIDADE ANUAL DE RSS COLETADOS PELOS MUNICÍPIOS DA REGIÃO SUDESTE

UF

2016 2017

(t/ano)/(kg/hab/ano) (t/ano)/(kg/hab/ano)

Espírito Santo 7.199/1,812 6.782/1,689

Minas Gerais 39.650/1,888 38.667/1,831

Rio de Janeiro 31.712/1,906 29.507/1,765

São Paulo 102.943/2,300 103.248/2,290

TOTAL 181.504/2,102 178.204/2,050



Anotação de Responsabilidade Técnica - ART  
Lei nº 6.496, de 7 de dezembro de 1977

**CREA-RJ**

ART de Obra ou Serviço  
**2020180053463**

1ª Via - CONTRATADO

Conselho Regional de Engenharia e Agronomia do Rio de Janeiro

1. Responsável Técnico

**RICARDO ELLER VIANA**

Título profissional:  
**ENGENHEIRO CIVIL**

RNP: **2010848241**

Registro: **1996101066**

Fato Gerador: NAO INFORMADO

Tipo ART: NORMAL

Empresa contratada:

Registro: -

2. Dados do contrato

Contratante: PREFEITURA MUNICIPAL DE BARRA DO PIRAI

CPF/CNPJ: 28576080000147

TRAVESSA ASSUMPÇÃO

Nº: 69

Complemento: -

Bairro: CENTRO

Cidade: BARRA DO PIRAI

UF: RJ CEP: 27123080

3. Dados da obra/serviço

2ª TRAVESSA ASSUMPÇÃO

Nº: 69

Complemento: -

Bairro: CENTRO

Cidade: BARRA DO PIRAI

UF: RJ CEP: 27100000

Data de Início: 03/04/2018

Previsão de término: 03/04/2019

Valor do contrato: R\$ 5.000,00

Número documento: -

4. Atividade técnica

49 PROJETO  
73 OUTROS  
95 LIXO

Quantidade **1.600,00** Unidade **t** Pavimento **-**

Após a conclusão das atividades técnicas o profissional deverá proceder a baixa desta ART

5. Observações

- ELABORAÇÃO DE PROJETO PARA COLETA DE LIXO

6. Declarações

Acessibilidade: Declara o cumprimento das normas da ABNT referentes à Acessibilidade em atendimento ao parágrafo 1º do artigo nº 11 do Decreto nº 5.286/2004.

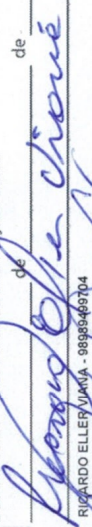
7. Entidade de classe

AEVR - ASSOC DE ENG DE VOLTA REDONDA

9. Informações

8. Assinaturas  
Declaro serem verdadeiras as informações acima

- A ART é válida somente quando quitada, mediante apresentação do comprovante do pagamento ou conferência no site do Crea-RJ: [www.crea-rj.org.br/servicos/autenticidade](http://www.crea-rj.org.br/servicos/autenticidade)
- A autenticidade deste documento pode ser verificada no site [www.crea-rj.org.br/servicos/autenticidade](http://www.crea-rj.org.br/servicos/autenticidade).
- A guarda da via assinada da ART será de responsabilidade do profissional e do contratante com o objetivo de documentar o vínculo contratual.

de   
RICARDO ELLER VIANA - 9988669704

PREFEITURA MUNICIPAL DE BARRA DO PIRAI - 28576080000147

Valor ART: **R\$82,94**

Registrada em **27/03/2018**

Valor Pago **R\$82,94**

Nosso Número: **28078570000140810**

[www.crea-rj.org.br](http://www.crea-rj.org.br)  
Tel: (21) 2179-2007



Anotação de Responsabilidade Técnica - ART  
Lei nº 6.496, de 7 de dezembro de 1977

**CREA-RJ**

2ª Via - CONTRATANTE

**ART de Obra ou Serviço  
2020180053463**

Conselho Regional de Engenharia e Agronomia do Rio de Janeiro

Tipo ART: NORMAL

1. Responsável Técnico

**RICARDO ELLER VIANA**

Título profissional:  
**ENGENHEIRO CIVIL**

Fato Gerador: NAO INFORMADO

RNP: 2010848241

Registro: 1996101066

Empresa contratada:

Registro: -

2. Dados do contrato

Contratante: PREFEITURA MUNICIPAL DE BARRA DO PIRAI

CPF/CNPJ: 28576080000147

TRAVESSA ASSUMPÇÃO

Nº: 69

Complemento: -

Bairro: CENTRO

Cidade: BARRA DO PIRAI

CEP: 27123080

3. Dados da obra/serviço

2ª TRAVESSA ASSUMPÇÃO

Complemento: -

Cidade: BARRA DO PIRAI

UF: RJ

Data de Início: 03/04/2018

Previsão de término: 03/04/2019

Valor do contrato: R\$ 5.000,00

Número documento: -

4. Atividade técnica

49 PROJETO  
73 OUTROS  
95 LIXO

Quantidade	Unidade	Pavimento
1.600,00	t	-

Após a conclusão das atividades técnicas o profissional deverá proceder a baixa desta ART

5. Observações  
- ELABORAÇÃO DE PROJETO PARA COLETA DE LIXO

6. Declarações

Acessibilidade: Declara o cumprimento das normas da ABNT referentes à Acessibilidade em atendimento ao parágrafo 1º do artigo nº 11 do Decreto nº 5.296/2004.

7. Entidade de classe

AEVR - ASSOC DE ENG DE VOLTA REDONDA

8. Assinaturas

Declaro serem verdadeiras as informações acima

de

*Ricardo Eller Viana*  
RICARDO ELLER VIANA - 9899669704

www.crea-rj.org.br/servicos/autenticidade

A guarda da via assinada da ART será de responsabilidade do profissional e do contratante com o objetivo de documentar o vínculo contratual.

9. Informações

A ART é válida somente quando quitada, mediante apresentação do comprovante do pagamento ou conferência no site do Crea-RJ:

A autenticidade deste documento pode ser verificada no site www.crea-rj.org.br/servicos/autenticidade.

Valor ART: R\$82,94

Registrada em 27/03/2018

Valor Pego R\$82,94

Nosso Número: 28076570000140810

www.crea-rj.org.br  
Tel: (21) 2179-2007



Anotação de Responsabilidade Técnica - ART  
Lei nº 6.496, de 7 de dezembro de 1977

**CREA-RJ**

1ª Via - CONTRATADO

**ART de Obra ou Serviço  
2020180093105**

Conselho Regional de Engenharia e Agronomia do Rio de Janeiro

Tipo ART: NORMAL

1. Responsável Técnico \_\_\_\_\_

**RICARDO ELLER VIANA**

Título profissional:  
**ENGENHEIRO CIVIL**

Fato Gerador: EXIGENCIA DE  
Descrição: TCE-RJ

RNP: 2010848241

Registro: 1996101066

Empresa contratada: \_\_\_\_\_  
Registro: -

2. Dados do contrato \_\_\_\_\_

Contratante: PREFEITURA MUNICIPAL DE BARRA DO PIRAI

CPF/CNPJ: 28576080000147

TRAVESSA ASSUMPÇÃO

Complemento: -

Bairro: CENTRO

Nº: 69

Cidade: BARRA DO PIRAI

UF: RJ CEP: 27123080

3. Dados da obra/serviço \_\_\_\_\_

TRAVESSA ASSUMPÇÃO

Complemento: SEDE

Bairro: CENTRO

Nº: 69

Cidade: RIO DE JANEIRO

UF: RJ CEP: 27100000

Data de Início: 03/05/2018

Previsão de término: 03/08/2018

Valor do contrato: R\$ 5.000,00

Número documento: 003/2017

4. Atividade técnica \_\_\_\_\_

20 ELABORACAO DE ORCAMENTO  
7 CALCULO  
95 LIXO

Quantidade 120,00  
Unidade h  
Pavimento -

Após a conclusão das atividades técnicas o profissional deverá proceder a baixa desta ART

5. Observações \_\_\_\_\_

ELABORAÇÃO DE PLANILHA ORÇAMENTÁRIA EM ATENDIMENTO AO PROCESSO TCE-RJ PROCESSO Nº224.687-9/2017

6. Declarações \_\_\_\_\_

Acessibilidade: Declara o cumprimento das normas da ABNT referentes à Acessibilidade em atendimento ao parágrafo 1º do artigo nº 11 do Decreto nº 5.296/2004.

7. Entidade de classe \_\_\_\_\_

AEAV - ASSOCIAÇÃO DE ENGENHEIROS E ARQUITETOS DE VALENCA

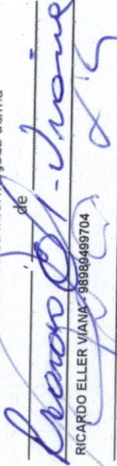
9. Informações \_\_\_\_\_

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- A autenticidade deste documento pode ser verificada no site [www.crea-rj.org.br/servicos/autenticidade](http://www.crea-rj.org.br/servicos/autenticidade).

8. Assinaturas \_\_\_\_\_

Declaro serem verdadeiras as informações acima

de \_\_\_\_\_ de \_\_\_\_\_

  
RICARDO ELLER VIANA - 98989499704

PREFEITURA MUNICIPAL DE BARRA DO PIRAI - 28576080000147

- A guarda da via assinada da ART será de responsabilidade do profissional e do contratante com o objetivo de documentar o vínculo contratual.

Valor ART: R\$82,94

Registrada em 25/05/2018

Valor Pago R\$82,94

Nosso Número: 28076570000188208

[www.crea-rj.org.br](http://www.crea-rj.org.br)  
Tel: (21) 2179-2007



Conselho Regional de Engenharia e Agronomia do Rio de Janeiro

Tipo ART: NORMAL

**1. Responsável Técnico**

**RICARDO ELLER VIANA**

Título profissional:  
**ENGENHEIRO CIVIL**

Fato Gerador: EXIGENCIA DE  
Descrição: TCE-RJ

RNP: 2010848241

Registro: 1996101066

Empresa contratada:

Registro: -

**2. Dados do contrato**

Contratante: PREFEITURA MUNICIPAL DE BARRA DO PIRAI

CPF/CNPJ: 28576080000147

TRAVESSA ASSUMPÇÃO

Complemento: -

Bairro: CENTRO

Nº: 69

Cidade: BARRA DO PIRAI

UF: RJ

CEP: 27123080

**3. Dados da obra/serviço**

TRAVESSA ASSUMPÇÃO

Complemento: SEDE

Bairro: CENTRO

Nº: 69

Cidade: RIO DE JANEIRO

UF: RJ

CEP: 27100000

Data de Início: 03/05/2018

Previsão de término: 03/08/2018

Valor do contrato: R\$ 5.000,00

Número documento: 003/2017

**4. Atividade técnica**

20 ELABORACAO DE ORCAMENTO  
7 CALCULO  
95 LIXO

Quantidade 120,00  
Unidade h  
Pavimento -

Após a conclusão das atividades técnicas o profissional deverá proceder a baixa desta ART

**5. Observações**

ELABORAÇÃO DE PLANILHA ORÇAMENTÁRIA EM ATENDIMENTO AO PROCESSO TCE-RJ PROCESSO Nº224.687-9/2017

**6. Declarações**

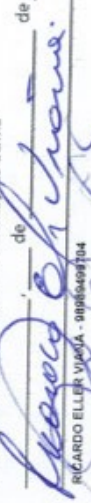
Acessibilidade: Declara o cumprimento das normas da ABNT referentes à Acessibilidade em atendimento ao parágrafo 1º do artigo nº 11 do Decreto nº 5.296/2004.

**7. Entidade de classe**

AEAV - ASSOCIAÇÃO DE ENGENHEIROS E ARQUITETOS DE VALENÇA

**8. Assinaturas**

Declaro serem verdadeiras as informações acima

de  de  
RICARDO ELLER VIANA - 9896498704

▪ A ART é válida somente quando quitada, mediante apresentação do comprovante do pagamento ou conferência no site do Crea-RJ: [www.crea-rj.org.br/servicos/autenticidade](http://www.crea-rj.org.br/servicos/autenticidade)

▪ A autenticidade deste documento pode ser verificada no site [www.crea-rj.org.br/servicos/autenticidade](http://www.crea-rj.org.br/servicos/autenticidade).

▪ A guarda da via assinada da ART será de responsabilidade do profissional e do contratante com o objetivo de documentar o vínculo contratual.

PREFEITURA MUNICIPAL DE BARRA DO PIRAI - 28576080000147

Valor ART: R\$82,94

Registrada em 25/06/2018

Valor Pago R\$82,94

Nosso Número: 28076570000188208

[www.crea-rj.org.br](http://www.crea-rj.org.br)  
Tel: (21) 2179-2007

**9. Informações**



ESTADO DO RIO DE JANEIRO  
PREFEITURA MUNICIPAL DE BARRA DO PIRAI  
SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICOS  
COLETA DE RESÍDUOS DE SAÚDE - RSS

SERVIÇO: COLETA E TRANSPORTES DE RESÍDUOS SÓLIDOS DE SAÚDE - RSS					Mês base: 10/18	
PLANILHA DE VALORES E CUSTOS						
DADOS OPERACIONAIS		VOLUME MENSAL DE RESÍDUOS			Ton/Mês	
<b>1. MÃO DE OBRA</b>						
<b>1.1. MÃO DE OBRA DIRETA</b>						
<b>1.1.1. Motorista de Veiculo Coletor</b>						
Discriminação		Unid.	Quant.	Valr Unit.	Discriminação	Valor mensal
1.1.1.1. Salário Base Mensal		nº func.		R\$		R\$
					<b>Subtotal</b>	<b>R\$</b>
1.1.1.2. Encargos Sociais		Percentual				R\$
1.1.1.3. V. Transp. (considerando o desc. de 6% no salário)		nº func.		R\$		R\$
1.1.1.4. Vale Alimentação		nº func.		R\$		R\$
1.1.1.5. Outros beneficios		nº func.		R\$		R\$
<b>1.1.1. Motorista de Veiculo Coletor</b>						<b>R\$</b>
<b>1.1.2. Coletor de Lixo</b>						
Discriminação		Unid.	Quant.	Valr Unit.	Discriminação	Valor mensal
1.1.2.1. Salário Base Mensal		nº func.		R\$		R\$
1.1.2.2. Insalubridade (40%)		vb por coletor		R\$		R\$
					<b>Subtotal</b>	<b>R\$</b>
1.1.2.3. Encargos Sociais		Percentual				R\$
1.1.2.4. V. Transp. (considerando o desc. de 6% no salário)		nº func.		R\$		R\$
1.1.2.5. Vale Alimentação		nº func.		R\$		R\$
1.1.2.6. Outros beneficios		nº func.		R\$		R\$
<b>1.2 Coletor de Lixo</b>						<b>R\$</b>
<b>1.1. MÃO DE OBRA DIRETA</b>						<b>R\$</b>
<b>1.2. MÃO DE OBRA INDIRETA</b>						
<b>1.2.1. Fiscal de Coleta</b>						
Discriminação		Unid.	Quant.	Valr Unit.	Discriminação	Valor mensal
1.2.1.1. Salário Base Mensal		nº func.		R\$		R\$
					<b>Subtotal</b>	<b>R\$</b>
1.2.1.3. Encargos Sociais		Percentual				R\$
1.2.1.4. V. Transp. (considerando o desc. de 6% no salário)		nº func.		R\$		R\$
1.2.1.5. Vale Alimentação		nº func.		R\$		R\$
1.2.1.6. Outros beneficios		nº func.		R\$		R\$
<b>1.2.1. Fiscal de Coleta</b>						<b>R\$</b>
<b>1.2. MÃO DE OBRA INDIRETA</b>						<b>R\$</b>
<b>1. MÃO DE OBRA DIRETA E INDIRETA (MENSAL)</b>						





**ESTADO DO RIO DE JANEIRO**  
**PREFEITURA MUNICIPAL DE BARRA DO PIRAÍ**  
**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICOS**  
**COLETA DE RESÍDUOS DE SAÚDE - RSS**

2. UNIFORME - COTAÇÕES					
Funcionário	Discriminação	Unidade	Quant.	Valor Unit	Valor anual
2.1. Motorista	2.1.1 Calça reflexiva	und/ano		R\$	R\$
	2.1.2 Camisa reflexiva	und/ano		R\$	R\$
	2.1.3 Calçado couro	und/ano		R\$	R\$
2.1.4 Valor do Kit					
<b>Valor do kit para 1 motorista</b>					
Funcionário	Discriminação	Unidade	Quant.	Valor Unit	Valor anual
2.2. Fiscal	2.2.1 Calça reflexiva	und/ano		R\$	R\$
	2.2.2 Camisa reflexiva	und/ano		R\$	R\$
	2.2.3 Calçado couro	und/ano		R\$	R\$
2.2.4 Valor do Kit					
<b>Valor do kit para 1 fiscal</b>					
Funcionário	Discriminação	Unidade	Quant.	Valor Unit	Valor anual
2.3. Coletor de Lixo	2.3.1 Calça reflexiva	und/ano		R\$	R\$
	2.3.1 Camisa reflexiva	und/ano		R\$	R\$
	2.3.3 Calçado couro	und/ano		R\$	R\$
	2.3.4 Boné	und/ano		R\$	R\$
	2.3.5 Capa de chuva	und/ano		R\$	R\$
	2.3.6 Protetor Solar	und/ano		R\$	R\$
	2.3.7 Luva de raspa	und/ano		R\$	R\$
2.3.8 Valor do Kit					
<b>Valor do kit para 1 coletor</b>					
<b>2. UNIFORMES ANUAL</b>					<b>R\$</b>
<b>2. UNIFORMES MENSAL</b>					<b>R\$</b>



ESTADO DO RIO DE JANEIRO  
PREFEITURA MUNICIPAL DE BARRA DO PIRAI  
SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICOS  
COLETA DE RESÍDUOS DE SAÚDE - RSS

<b>3. VEÍCULOS (Mensal)</b>
<b>3.1 Veiculo para coleta de RSS (veiculo utilitário min. 1,4CV, 2 lugares, 2 portas, flex)</b>

1 unidade

Discriminação	Quant.	Valor Unit.	Fator	Referência	Valor Mensal
3.1.1 Manutenção		R\$			R\$
3.1.2 Depreciação		R\$			R\$
3.1.3 Custo de capital		R\$			R\$
3.1.4 Licenciamento (IPVA + Seg)		R\$			R\$
<b>SUBTOTAL VEICULOS MENSAL</b>					
<b>SUBTOTAL VEICULOS ANUAL</b>					



**ESTADO DO RIO DE JANEIRO**  
**PREFEITURA MUNICIPAL DE BARRA DO PIRAÍ**  
**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICOS**  
**COLETA DE RESÍDUOS DE SAÚDE - RSS**

4. FERRAMENTAS DE TRABALHO E LIMPEZA / LUBRIFICAÇÃO DOS VEICULOS						
4.1 Ferramentas de Trabalho e Limpeza						
Discriminação	Unidade	Quantidade	Valor Unit.	Veiculos	Valor Mensal	
4.1.1. Vassoura (2 por veiculo)	Unidade x Mês / Veiculo				R\$	
4.1.2. Pá Quadrada (2 por veiculo)	Unidade x Mês / Veiculo				R\$	
SUBTOTAL Ferramenta de Trabalho						
4.2 Lavagem e lubrificação de Veiculo						
Discriminação	Unidade	Quantidade	Valor Unit.	Valor Mensal		
4.2.1. Lavagem de Pintura e caçamba (2 por veiculo)	Unidade x mês / veiculo		R\$			
4.2.2. Lubrificação do veiculo	lb para km / mês		R\$			
SUBTOTAL Lavagem e Lubrificação dos Veiculos						
SUBTOTAL FERRAMENTAS DE TRABALHO E LIMPEZA / LUBRIFICAÇÃO DOS VEICULOS - MENSAL						
SUBTOTAL FERRAMENTAS DE TRABALHO E LIMPEZA / LUBRIFICAÇÃO DOS VEICULOS - ANUAL						
4.3. CUSTO COMBUSTÍVEL VEÍCULO COLETOR						
Discriminação	Unidade	Quantidade	Rendimento (km/L)	Valor Unit.	Valor Mensal	
4.3.1. Serviços de Coleta	Km x mês			R\$		
SUBTOTAL COMBUSTIVEL MENSAL						
SUBTOTAL COMBUSTIVEL ANUAL						
4.4. CUSTO PNEUMÁTICO						
Discriminação	Km rodados (ano)	Pneus necessários por posição	Nº de pneus em operação	Troca de pneus (anual)	Valor Unit.	Valor Mensal
4.4.1. Aquisição do pneu 185/70r14 88t						
total						
SUBTOTAL CUSTO PNEUMÁTICO MENSAL						
SUBTOTAL CUSTO PNEUMÁTICO ANUAL						
4.5. CUSTO COMBUSTÍVEL VEÍCULO FISCALIZAÇÃO						
Discriminação	Km rodados (mês)	Rendimento Considerado (km/l)	Valor Unitário (R\$/L) ANP		Valor Mensal	
4.5.1. Combustível						
SUBTOTAL CUSTO COMBUSTÍVEL VEÍCULO FISCALIZAÇÃO MENSAL						
SUBTOTAL CUSTO COMBUSTÍVEL VEÍCULO FISCALIZAÇÃO ANUAL						
4.6. OUTRAS DESPESAS NOMINAIS						
Discriminação	Valor Unitário	Quant. Meses	TOTAL			
4.6.1. Comunicação (telefonia e sistema de radio veicular)						
4.6.2. ART de responsabilidade técnica para o prestador dos serviços						
SUBTOTAL OUTRAS DESPESAS NOMINAIS - MENSAL						
SUBTOTAL OUTRAS DESPESAS NOMINAIS - ANUAL						
TOTAL CUSTO DE OPERACIONAL - MENSAL						



**ESTADO DO RIO DE JANEIRO**  
**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**  
**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICOS**  
**COLETA DE RESÍDUOS DE SAÚDE - RSS**

5. COMBUSTÍVEL			
5.1 Preço do Diesel -Fonte: ANP-OUT/18			
Município	Média	Desvio Padrão	Total
5.1.1 Barra do Piraí			
5.1.2 Barra Mansa			
5.1.3 Volta Redonda			
5.1.4 Preço médio regional			
5.2 Preço da Gasolina -Fonte: ANP-OUT/18			
Município	Média	Desvio Padrão	Total
5.2.1 Barra do Piraí			
5.2.2 Barra Mansa			
5.2.3 Volta Redonda			
5.2.4 Preço médio regional			
5.3 Preço de Pneu 275/80r22.5 - RSU			
		R\$	
5.4 Preço de Pneu 185/70r14 88t paineldepreços.planejamento.gov.br Out/2018			
Marca / Modelo		Valor	
		R\$	
		R\$	
		<b>R\$</b>	
5.5 Veiculo para Fiscalização e Supervisão - DETRAN/RJ-Re.SEFAZ nº 176/2017			
Marca / Modelo		Valor	



**ESTADO DO RIO DE JANEIRO**  
**PREFEITURA MUNICIPAL DE BARRA DO PIRAÍ**  
**SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICOS**  
**COLETA DE RESÍDUOS DE SAÚDE - RSS**

6 - Mão de Obra: Motorista			
Função:			
Composição de Encargos Sociais			Valor R\$
Salário Sindicato das Empresas de Asseio e Conservação do Rio de Janeiro			
II - TAXAS DE LEIS SOCIAIS E RISCO DO TRABALHO (%)			
GRUPO "A"			Percentual
A 1	Previdência Social		R\$
A 2	FGTS		R\$
A 3	Salário Educação		R\$
A 4	SESI		R\$
A 5	SENAI		R\$
A 6	SEBRAE		R\$
A 7	INCRA		R\$
A 8	Seguro Acidente de Trabalho - (INSS)		R\$
Total do Grupo "A"			R\$
GRUPO "B"			Percentual
B 1	Repouso Semanal		R\$
B 2	Férias sem abono		R\$
B 3	Auxílio enfermidade - (≤ 15 dias)		R\$
B 4	Faltas Legais		R\$
B 5	Licença paternidade		R\$
B 6	Auxílio doença - (≤ 15 dias)		R\$
B 7	Aviso prévio		R\$
Total do Grupo "B"			R\$
GRUPO "C"			Percentual
C 1	Abono constitucional de férias		R\$
C 2	13º Salário		R\$
Total do Grupo "C"			R\$
GRUPO "D"			Percentual
D 1	Indenização compensatória por demissão sem justa causa		R\$
D 2	Contribuição social (art. 1º da Lei Complementar 110/ 01)		R\$
D 3	Aviso prévio indenizado		R\$
D 4	Reflexo do aviso prévio indenizado sobre as férias e 13º salário		R\$
D 5	Indenização adicional		R\$
Total do Grupo "D"			R\$
GRUPO "E"			Percentual
E 1	Licença maternidade		R\$
E 2	Auxílio acidente de trabalho		R\$
E 3	Incidência do FGTS sobre o aviso prévio indenizado		R\$
E 4	Incidência do FGTS sobre reflexo do aviso prévio indenizado no 13º sal.		R\$
E 5	Abono pecuniário		R\$
Total do Grupo "E"			R\$
GRUPO "F"			Percentual
F 1	Grupo A x (Grupo B + Grupo C)		R\$
Total do Grupo "F"			R\$
TOTAL DE ENCARGOS SOCIAIS			R\$
VALOR TOTAL DA MÃO DE OBRA (Remuneração + Encargos Sociais)			



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7 - Mão de Obra : Coletor			
Função:			
Composição de Encargos Sociais			Valor R\$
Salário Sindicato das Empresas de Asseio e Conservação do Rio de Janeiro			
II - TAXAS DE LEIS SOCIAIS E RISCO DO TRABALHO (%)			
GRUPO "A"		Percentual	Valor R\$
A 1	Previdência Social		R\$
A 2	FGTS		R\$
A 3	Salário Educação		R\$
A 4	SESI		R\$
A 5	SENAI		R\$
A 6	SEBRAE		R\$
A 7	INCRA		R\$
A 8	Seguro Acidente de Trabalho - (INSS)		R\$
Total do Grupo "A"			R\$
GRUPO "B"		Percentual	Valor R\$
B 1	Repouso Semanal		R\$
B 2	Férias sem abono		R\$
B 3	Auxílio enfermidade - (≤ 15 dias)		R\$
B 4	Faltas Legais		R\$
B 5	Licença paternidade		R\$
B 6	Auxílio doença - (≤ 15 dias)		R\$
B 7	Aviso prévio		R\$
Total do Grupo "B"			R\$
GRUPO "C"		Percentual	Valor R\$
C 1	Abono constitucional de férias		R\$
C 2	13º Salário		R\$
Total do Grupo "C"			R\$
GRUPO "D"		Percentual	Valor R\$
D 1	Indenização compensatória por demissão sem justa causa		R\$
D 2	Contribuição social (art. 1º da Lei Complementar 110/ 01)		R\$
D 3	Aviso prévio indenizado		R\$
D 4	Reflexo do aviso prévio indenizado sobre as férias e 13º salário		R\$
D 5	Indenização adicional		R\$
Total do Grupo "D"			R\$
GRUPO "E"		Percentual	Valor R\$
E 1	Licença maternidade		R\$
E 2	Auxílio acidente de trabalho		R\$
E 3	Incidência do FGTS sobre o aviso prévio indenizado		R\$
E 4	Incidência do FGTS sobre reflexo do aviso prévio indenizado no 13º sal.		R\$
E 5	Abono pecuniário		R\$
Total do Grupo "E"			R\$
GRUPO "F"		Percentual	Valor R\$
F 1	Grupo A x (Grupo B + Grupo C)		R\$
Total do Grupo "F"			R\$
<b>TOTAL DE ENCARGOS SOCIAIS</b>			<b>R\$</b>



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8- Mão de Obra: Fiscal de Coleta			
Função:			
Composição de Encargos Sociais			Valor R\$
Salário Sindicato das Empresas de Asseio e Conservação do Rio de Janeiro			
II - TAXAS DE LEIS SOCIAIS E RISCO DO TRABALHO (%)			
GRUPO "A"		Percentual	Valor R\$
A 1	Previdência Social		R\$
A 2	FGTS		R\$
A 3	Salário Educação		R\$
A 4	SESI		R\$
A 5	SENAI		R\$
A 6	SEBRAE		R\$
A 7	INCRA		R\$
A 8	Seguro Acidente de Trabalho - (INSS)		R\$
Total do Grupo "A"			R\$
GRUPO "B"		Percentual	Valor R\$
B 1	Repouso Semanal		R\$
B 2	Férias sem abono		R\$
B 3	Auxílio enfermidade - (≤ 15 dias)		R\$
B 4	Faltas Legais		R\$
B 5	Licença paternidade		R\$
B 6	Auxílio doença - (≤ 15 dias)		R\$
B 7	Aviso prévio		R\$
Total do Grupo "B"			R\$
GRUPO "C"		Percentual	Valor R\$
C 1	Abono constitucional de férias		R\$
C 2	13º Salário		R\$
Total do Grupo "C"			R\$
GRUPO "D"		Percentual	Valor R\$
D 1	Indenização compensatória por demissão sem justa causa		R\$
D 2	Contribuição social (art. 1º da Lei Complementar 110/ 01)		R\$
D 3	Aviso prévio indenizado		R\$
D 4	Reflexo do aviso prévio indenizado sobre as férias e 13º salário		R\$
D 5	Indenização adicional		R\$
Total do Grupo "D"			R\$
GRUPO "E"		Percentual	Valor R\$
E 1	Licença maternidade		R\$
E 2	Auxílio acidente de trabalho		R\$
E 3	Incidência do FGTS sobre o aviso prévio indenizado		R\$
E 4	Incidência do FGTS sobre reflexo do aviso prévio indenizado no 13º sal.		R\$
E 5	Abono pecuniário		R\$
Total do Grupo "E"			R\$
GRUPO "F"		Percentual	Valor R\$
F 1	Grupo A x (Grupo B + Grupo C)		R\$
Total do Grupo "F"			R\$
<b>TOTAL DE ENCARGOS SOCIAIS</b>			<b>R\$</b>



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9. ADMINISTRAÇÃO LOCAL - EMOP 07/2018						
Item	Descrição	Código EMOP	Quant.	Und.	Valor Unit.	Total
9.1	Mão de obra de secretária Inclusive encargos sociais			H		
9.2	Mão de obra de Engenheiro Sanitarista, para serviços de consultoria de engenharia e arquitetura, inclusive encargos sociais			H		
9.3	Mão de obra de estagiário Inclusive encargos sociais			H		
9.4	Unidade de referência p/ despesas como: água, telefone, energia e etc			UR		
<b>SUBTOTAL - ADMINISTRAÇÃO LOCAL (Mensal)</b>						





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<b>10. BDI - COMPOSIÇÃO DO PREÇO FINAL</b>			
PARÂMETROS	Percentual	Fonte	Valor Mensal
10.1 Administração Central			
10.2 Seguro e Garantia			
10.3 Risco			
10.4 Despesa Financeira			
10.5 Lucro			
10.6 Impostos (Pis, Cofins, Iss)			
<b>Subtotal</b>			
<b>SUBTOTAL - VALOR DO BDI DO PREÇO FINAL (MENSAL)</b>			

<b>PAGAMENTO SERVIÇO DE COLETA E TRANSPORTE RSS (MENSAL) COM BDI</b>	
<b>PAGAMENTO ADMINISTRAÇÃO (MENSAL) COM BDI</b>	
<b>PAGAMENTO SERVIÇO DE COLETA E TRANSPORTE RSS (ANUAL) COM BDI</b>	
<b>PAGAMENTO ADMINISTRAÇÃO (ANUAL) COM BDI</b>	

<b>A) TOTAL DE PAGAMENTO (MENSAL) SEM BDI</b>	
<b>B) TOTAL DE PAGAMENTO (MENSAL) COM BDI</b>	
<b>C) TOTAL DE PAGAMENTO (ANUAL) COM BDI</b>	
<b>D) VOLUME MENSAL TON. DE RESÍDUOS ESTIMADO (ABRELPE 2017)</b>	
<b>E) VOLUME ANUAL TON. DE RESÍDUOS ESTIMADO (ABRELPE 2017)</b>	
<b>F) PREÇO MENSAL POR TONELADA REAL COM BDI</b>	
<b>G) PREÇO MENSAL POR KG COM BDI</b>	





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SERVIÇO: COLETA E TRANSPORTES DE RESÍDUOS SÓLIDOS DOMICILIARES						Mês base:
PLANILHA DE VALORES E CUSTOS						
DADOS OPERACIONAIS		VOLUME MENSAL DE RESÍDUOS			Ton/Mês	
<b>1. MÃO DE OBRA</b>						
<b>1.1. MÃO DE OBRA DIRETA</b>						
<b>1.1.1. Motorista de Veículo Coletor</b>						
Discriminação	Unid.	Quant.	Valr Unit.	Discriminação	Valor mensal	
1.1.1.1. Salário Base Mensal	nº func.		R\$		R\$	
					<b>Subtotal</b>	<b>R\$</b>
1.1.1.2. Encargos Sociais	Percentual				R\$	
1.1.1.3. V. Transp. (considerando o desc. de 6% no salário)	nº func.		R\$		R\$	
1.1.1.4. Vale Alimentação	nº func.		R\$		R\$	
1.1.1.5. Outros beneficios	nº func.		R\$		R\$	
<b>1.1.1. Motorista de Veículo Coletor</b>						<b>R\$</b>
<b>1.1.2. Coletor de Lixo</b>						
Discriminação	Unid.	Quant.	Valr Unit.	Discriminação	Valor mensal	
1.1.2.1. Salário Base Mensal	nº func.		R\$		R\$	
1.1.2.2. Insalubridade (40%)	vb por coletor		R\$		R\$	
					<b>Subtotal</b>	<b>R\$</b>
1.1.2.3. Encargos Sociais	Percentual				R\$	
1.1.2.4. V. Transp. (considerando o desc. de 6% no salário)	nº func.		R\$		R\$	
1.1.2.5. Vale Alimentação	nº func.		R\$		R\$	
1.1.2.6. Outros beneficios	nº func.		R\$		R\$	
<b>1.2 Coletor de Lixo</b>						<b>R\$</b>
<b>1.1. MÃO DE OBRA DIRETA</b>						<b>R\$</b>
<b>1.2. MÃO DE OBRA INDIRETA</b>						
<b>1.2.1. Fiscal de Coleta</b>						
Discriminação	Unid.	Quant.	Valr Unit.	Discriminação	Valor mensal	
1.2.1.1. Salário Base Mensal	nº func.		R\$		R\$	
					<b>Subtotal</b>	<b>R\$</b>
1.2.1.3. Encargos Sociais	Percentual	1,0964			R\$	
1.2.1.4. V. Transp. (considerando o desc. de 6% no salário)	nº func.		R\$		R\$	
1.2.1.5. Vale Alimentação	nº func.		R\$		R\$	
1.2.1.6. Outros beneficios	nº func.		R\$		R\$	
<b>1.2.1. Fiscal de Coleta</b>						<b>R\$</b>
<b>1.2. MÃO DE OBRA INDIRETA</b>						<b>R\$</b>
<b>1. MÃO DE OBRA DIRETA E INDIRETA (MENSAL)</b>						



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2. UNIFORME - COTAÇÕES					
Funcionário	Discriminação	Unidade	Quant.	Valor Unit	Valor anual
2.1. Motorista	2.1.1 Calça reflexiva	und/ano		R\$	R\$
	2.1.2 Camisa reflexiva	und/ano		R\$	R\$
	2.1.3 Calçado couro	und/ano		R\$	R\$
2.1.4 Valor do Kit					
<b>Valor do kit para 7 motoristas</b>					
Funcionário	Discriminação	Unidade	Quant.	Valor Unit	Valor anual
2.2. Fiscal	2.2.1 Calça reflexiva	und/ano		R\$	R\$
	2.2.2 Camisa reflexiva	und/ano		R\$	R\$
	2.2.3 Calçado couro	und/ano		R\$	R\$
2.2.4 Valor do Kit					
<b>Valor do kit para 1 fiscal</b>					
Funcionário	Discriminação	Unidade	Quant.	Valor Unit	Valor anual
2.3. Coletor de Lixo	2.3.1 Calça reflexiva	und/ano		R\$	R\$
	2.3.2 Camisa reflexiva	und/ano		R\$	R\$
	2.3.3 Calçado couro	und/ano		R\$	R\$
	2.3.4 Boné	und/ano		R\$	R\$
	2.3.5 Capa de chuva	und/ano		R\$	R\$
	2.3.6 Protetor Solar	und/ano		R\$	R\$
	2.3.7 Luva de raspa	und/ano		R\$	R\$
2.3.8 Valor do Kit					
<b>2.4 Valor do kit para 21 coletores</b>					
<b>2. UNIFORMES ANUAL</b>					<b>R\$</b>
<b>2. UNIFORMES MENSAL</b>					<b>R\$</b>



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**3. VEÍCULOS (Mensal)**  
**3.1 Compactador de 15 m<sup>3</sup>**

Valor do Chassi

Valor da Caçamba (compactador)

Vida útil 60 meses

Discriminação	Quant.	Valor Unit.	Fator	Referência	Valor Mensal
3.1.1 Manutenção		R\$			R\$
3.1.2 Depreciação		R\$			R\$
3.1.3 Custo de capital		R\$			R\$
3.1.4 Licenciamento (IPVA + Seg)		R\$			R\$
<b>3.1 Compactador de 15 m<sup>3</sup> (Veiculo + Equipamento)</b>					<b>R\$</b>
<b>3.2 Veiculo para fiscalização/supervisão (veiculo utilitário min. 1,4CV, 2 lugares, 2 portas, flex)</b>					

1 unidade

Vida útil 60 meses

Discriminação	Quant.	Valor Unit.	Fator	Referência	Valor Mensal
3.3.1 Manutenção		R\$			R\$
3.3.2 Depreciação		R\$			R\$
3.3.3 Custo de capital		R\$			R\$
3.3.4 Licenciamento (IPVA + Seg)		R\$			R\$
<b>3.3 Veiculo Fiscalização</b>					<b>R\$</b>
<b>SUBTOTAL VEICULOS MENSAL</b>					
<b>SUBTOTAL VEICULOS ANUAL</b>					



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4. FERRAMENTAS DE TRABALHO E LIMPEZA / LUBRIFICAÇÃO DOS VEICULOS						
4.1 Ferramentas de Trabalho e Limpeza						
Discriminação	Unidade	Quantidade	Valor Unit.	Veiculos	Valor Mensal	
4.1.1. Vassoura (4por veiculo)	Unidade x Mês / Veiculo				R\$	
4.1.2. Pa Quadrada (2 por veiculo)	Unidade x Mês / Veiculo				R\$	
<b>SUBTOTAL Ferramenta de Trabalho</b>						
4.2 Lavagem e lubrificação de Veiculo						
Discriminação	Unidade	Quantidade	Valor Unit.	Valor Mensal		
4.2.1. Lavagem de Pintura e caçamba	Unidade x mês / veiculo		R\$			
4.2.2. Lubrificação do veiculo	vb para km / mês					
4.2.3. Lavagem de Pint. Veiculos Passelo (2 p/Veic.)	Unidade x mês / veiculo		R\$			
<b>SUBTOTAL Lavagem e Lubrificação dos Veiculos</b>						
<b>SUBTOTAL FERRAMENTAS DE TRABALHO E LIMPEZA / LUBRIFICAÇÃO DOS VEICULOS - MENSAL</b>						
<b>SUBTOTAL FERRAMENTAS DE TRABALHO E LIMPEZA / LUBRIFICAÇÃO DOS VEICULOS - ANUAL</b>						
4.3. CUSTO COMBUSTIVEL CAMINHÃO COMPACTADOR 15m³						
Discriminação	Unidade	Quantidade	Rendimento (km/L)	Valor Unit.	Valor Mensal	
4.3.1. Serviços de Coleta	Km x mês			R\$		
<b>SUBTOTAL COMBUSTIVEL MENSAL</b>						
<b>SUBTOTAL COMBUSTIVEL ANUAL</b>						
4.4. CUSTO PNEUMÁTICO						
Discriminação	Km rodados (ano)	Pneus necessários por posição	Nº de pneus em operação	Troca de pneus (anual)	Valor Unit.	Valor Anual
4.4.1. Recapagem do pneu 275/80R 22.5						
4.4.2. Aquisição do pneu 275/80R 22.5						
4.4.3. Aquisição do pneu 275/80R 22.5						
<b>total</b>						
<b>SUBTOTAL CUSTO PNEUMÁTICO MENSAL</b>						
<b>SUBTOTAL CUSTO PNEUMÁTICO ANUAL</b>						
4.5. CUSTO COMBUSTIVEL VEÍCULO FISCALIZAÇÃO						
Discriminação	Km rodados (mês)	Rendimento Considerado (km/l)	Valor Unitário (R\$/l) ANP	Valor Mensal		
4.5.1. Combustivel			R\$			
<b>SUBTOTAL CUSTO COMBUSTIVEL VEÍCULO FISCALIZAÇÃO MENSAL</b>						
<b>SUBTOTAL CUSTO COMBUSTIVEL VEÍCULO FISCALIZAÇÃO ANUAL</b>						
4.6. OUTRAS DESPESAS NOMINAIS						
Discriminação	Valor Unitário	Quant. Meses	TOTAL			
4.6.1. Comunicação (telefonia e sistema de radio veicular)						
4.6.2. ART de responsabilidade técnica para o prestador dos serviços						
<b>SUBTOTAL OUTRAS DESPESAS NOMINAIS - MENSAL</b>						
<b>SUBTOTAL OUTRAS DESPESAS NOMINAIS - ANUAL</b>						
<b>TOTAL CUSTO DE OPERACIONAL MENSAL</b>						



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5. COMBUSTIVEL			
5.1 Preço do Diesel -Fonte: ANP-OUT/18			
Município	Média	Desvio Padrão	Total
5.1.1 Barra do Piraí			
5.1.2 Barra Mansa			
5.1.3 Volta Redonda			
<b>5.1.4 Preço médio regional</b>			
5.2 Preço da Gasolina -Fonte: ANP-OUT/18			
Município	Média	Desvio Padrão	Total
5.2.1 Barra do Piraí			
5.2.2 Barra Mansa			
5.2.3 Volta Redonda			
<b>5.2.4 Preço médio regional</b>			
5.3 Preço de Pneu 275/80r22.5			
5.3.1 Cotações Out/2018		R\$	
5.4 Caminhão p/ Compactador de 15,00 m <sup>3</sup> - TABELA FIPE/DETRAN-RJ			
Marca / Modelo	Valor		
5.4.1 M. Benz - Atego 1729	R\$		
5.4.2 Ford - Cargo 1731 TRACTOR	R\$		
5.4.3 Volkswagen - 17-190 E	R\$		
5.4.4 Total	R\$		
<b>5.4.5 Média</b>	<b>R\$</b>		
5.5 Compactador de Lixo 15m <sup>3</sup> - Cotações Mai/2018			
Marca / modelo	Valor		
5.5.1 Usimeca			
5.5.2 Damaeq			
5.5.3 Planalto			
5.5.4 Total			
<b>5.5.5 Média</b>			
5.6 Veículo para Fiscalização e Supervisão - DETRAN/RJ-Re.SEFAZ nº 176/2017			
Marca / Modelo	Valor		
5.6.1 Fiat / Fiorino Gran car AM 2017			
5.6.2 Peugeot Expert Businpk 2017			
5.6.3 Renault Kgoo Expert 1.6 2017			
5.6.4 Total			
<b>5.6.5 Média</b>			
5.7 Preço de Pneu 185/70 r14 - paineldepreços.planejamento.gov.br (Out/2018)			
Marca / Modelo	Valor		
5.7.1 Painel de Preços			
5.7.2 Total			
<b>5.7.3 Média</b>			



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6 - Mão de Obra: Motorista			
Função:			
Composição de Encargos Sociais			Valor R\$
Salário Sindicato das Empresas de Asseio e Conservação do Rio de Janeiro			
II - TAXAS DE LEIS SOCIAIS E RISCO DO TRABALHO (%)			
GRUPO "A"		Percentual	Valor R\$
A 1	Previdência Social		R\$
A 2	FGTS		R\$
A 3	Salário Educação		R\$
A 4	SESI		R\$
A 5	SENAI		R\$
A 6	SEBRAE		R\$
A 7	INCRA		R\$
A 8	Seguro Acidente de Trabalho - (INSS)		R\$
Total do Grupo "A"			R\$
GRUPO "B"		Percentual	Valor R\$
B 1	Repouso Semanal		R\$
B 2	Férias sem abono		R\$
B 3	Auxílio enfermidade - (≤ 15 dias)		R\$
B 4	Faltas Legais		R\$
B 5	Licença paternidade		R\$
B 6	Auxílio doença - (≤ 15 dias)		R\$
B 7	Aviso prévio		R\$
Total do Grupo "B"			R\$
GRUPO "C"		Percentual	Valor R\$
C 1	Abono constitucional de férias		R\$
C 2	13º Salário		R\$
Total do Grupo "C"			R\$
GRUPO "D"		Percentual	Valor R\$
D 1	Indenização compensatória por demissão sem justa causa		R\$
D 2	Contribuição social (art. 1º da Lei Complementar 110/ 01)		R\$
D 3	Aviso prévio indenizado		R\$
D 4	Reflexo do aviso prévio indenizado sobre as férias e 13º salário		R\$
D 5	Indenização adicional		R\$
Total do Grupo "D"			R\$
GRUPO "E"		Percentual	Valor R\$
E 1	Licença maternidade		R\$
E 2	Auxílio acidente de trabalho		R\$
E 3	Incidência do FGTS sobre o aviso prévio indenizado		R\$
E 4	Incidência do FGTS sobre reflexo do aviso prévio indenizado no 13º sal.		R\$
E 5	Abono pecuniário		R\$
Total do Grupo "E"			R\$
GRUPO "F"		Percentual	Valor R\$
F 1	Grupo A x (Grupo B + Grupo C)		
Total do Grupo "F"			
<b>TOTAL DE ENCARGOS SOCIAIS</b>			
<b>VALOR TOTAL DA MÃO DE OBRA (Remuneração + Encargos Sociais)</b>			





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7 - Mão de Obra: Coletor			
Função:			
Composição de Encargos Sociais			Valor R\$
Salário Sindicato das Empresas de Asseio e Conservação do Rio de Janeiro			
II - TAXAS DE LEIS SOCIAIS E RISCO DO TRABALHO (%)			
GRUPO "A"		Percentual	Valor R\$
A 1	Previdência Social		R\$
A 2	FGTS		R\$
A 3	Salário Educação		R\$
A 4	SESI		R\$
A 5	SENAI		R\$
A 6	SEBRAE		R\$
A 7	INCRA		R\$
A 8	Seguro Acidente de Trabalho - (INSS)		R\$
Total do Grupo "A"			R\$
GRUPO "B"		Percentual	Valor R\$
B 1	Repouso Semanal		R\$
B 2	Férias sem abono		R\$
B 3	Auxílio enfermidade - (≤ 15 dias)		R\$
B 4	Faltas Legais		R\$
B 5	Licença paternidade		R\$
B 6	Auxílio doença - (≤ 15 dias)		R\$
B 7	Aviso prévio		R\$
Total do Grupo "B"			R\$
GRUPO "C"		Percentual	Valor R\$
C 1	Abono constitucional de férias		R\$
C 2	13º Salário		R\$
Total do Grupo "C"			R\$
GRUPO "D"		Percentual	Valor R\$
D 1	Indenização compensatória por demissão sem justa causa		R\$
D 2	Contribuição social (art. 1º da Lei Complementar 110/ 01)		R\$
D 3	Aviso prévio indenizado		R\$
D 4	Reflexo do aviso prévio indenizado sobre as férias e 13º salário		R\$
D 5	Indenização adicional		R\$
Total do Grupo "D"			R\$
GRUPO "E"		Percentual	Valor R\$
E 1	Licença maternidade		R\$
E 2	Auxílio acidente de trabalho		R\$
E 3	Incidência do FGTS sobre o aviso prévio indenizado		R\$
E 4	Incidência do FGTS sobre reflexo do aviso prévio indenizado no 13º sal.		R\$
E 5	Abono pecuniário		R\$
Total do Grupo "E"			R\$
GRUPO "F"		Percentual	Valor R\$
F 1	Grupo A x (Grupo B + Grupo C)		R\$
Total do Grupo "F"			R\$
TOTAL DE ENCARGOS SOCIAIS			R\$



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SECRETARIA MUNICIPAL DE SERVIÇOS PÚBLICOS  
COLETA DE RESÍDUOS URBANOS-RSU

8 - Mão de Obra: Fiscal de Coleta			
Função:			
Composição de Encargos Sociais			Valor R\$
Salário Sindicato das Empresas de Asseio e Conservação do Rio de Janeiro			
II - TAXAS DE LEIS SOCIAIS E RISCO DO TRABALHO (%)			
GRUPO "A"		Percentual	Valor R\$
A 1	Previdência Social		R\$
A 2	FGTS		R\$
A 3	Salário Educação		R\$
A 4	SESI		R\$
A 5	SENAI		R\$
A 6	SEBRAE		R\$
A 7	INCRA		R\$
A 8	Seguro Acidente de Trabalho - (INSS)		R\$
Total do Grupo "A"			R\$
GRUPO "B"		Percentual	Valor R\$
B 1	Repouso Semanal		R\$
B 2	Férias sem abono		R\$
B 3	Auxílio enfermidade - (≤ 15 dias)		R\$
B 4	Faltas Legais		R\$
B 5	Licença paternidade		R\$
B 6	Auxílio doença - (≤ 15 dias)		R\$
B 7	Aviso prévio		R\$
Total do Grupo "B"			R\$
GRUPO "C"		Percentual	Valor R\$
C 1	Abono constitucional de férias		R\$
C 2	13º Salário		R\$
Total do Grupo "C"			R\$
GRUPO "D"		Percentual	Valor R\$
D 1	Indenização compensatória por demissão sem justa causa		R\$
D 2	Contribuição social (art. 1º da Lei Complementar 110/ 01)		R\$
D 3	Aviso prévio indenizado		R\$
D 4	Reflexo do aviso prévio indenizado sobre as férias e 13º salário		R\$
D 5	Indenização adicional		R\$
Total do Grupo "D"			R\$
GRUPO "E"		Percentual	Valor R\$
E 1	Licença maternidade		R\$
E 2	Auxílio acidente de trabalho		R\$
E 3	Incidência do FGTS sobre o aviso prévio indenizado		R\$
E 4	Incidência do FGTS sobre reflexo do aviso prévio indenizado no 13º sal.		R\$
E 5	Abono pecuniário		R\$
Total do Grupo "E"			R\$
GRUPO "F"		Percentual	Valor R\$
F 1	Grupo A x (Grupo B + Grupo C)		R\$
Total do Grupo "F"			R\$
<b>TOTAL DE ENCARGOS SOCIAIS</b>			<b>R\$</b>



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9. ADMINISTRAÇÃO LOCAL- EMOP 07/2018						
Item	Descrição	Código EMOP	Quant.	Und.	Valor Unit.	Total
9.1	Mão de obra de secretária Inclusive encargos sociais			H		
9.2	Mão de obra de Engenheiro Sanitarista, para serviços de consultoria de engenharia e arquitetura, inclusive encargos sociais			H		
9.3	Mão de obra de estagiário Inclusive encargos sociais			H		
9.4	Unidade de referência p/ despesas como: água, telefone, energia e etc			UR		
<b>SUBTOTAL ADMINISTRAÇÃO LOCAL (Mensal)</b>						



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<b>10. BDI-COMPOSIÇÃO DO PREÇO FINAL</b>			
PARÂMETROS	Percentual	Fonte	Valor Mensal
10.1 Administração Central			
10.2 Seguro e Garantia			
10.3 Risco			
10.4 Despesa Financeira			
10.5 Lucro			
10.6 Impostos (Pis, Cofins, Iss)			
<b>Subtotal</b>			
<b>SUBTOTAL VALOR DO BDI DO PREÇO FINAL (MENSAL)</b>			

<b>PAGAMENTO SERVIÇO DE COLETA E TRANSPORTE RSU (MENSAL) COM BDI</b>	
<b>PAGAMENTO ADMINISTRAÇÃO (MENSAL) COM BDI</b>	
<b>PAGAMENTO SERVIÇO DE COLETA E TRANSPORTE RSU (ANUAL) COM BDI</b>	
<b>PAGAMENTO ADMINISTRAÇÃO (ANUAL) COM BDI</b>	

<b>A) TOTAL DE PAGAMENTO (MENSAL) SEM BDI</b>	
<b>B) TOTAL DE PAGAMENTO (MENSAL) COM BDI</b>	
<b>C) TOTAL DE PAGAMENTO (ANUAL) COM BDI</b>	
<b>D) VOLUME MENSAL DE RESÍDUOS ESTIMADO (FONTE:SMSP-PMBP)</b>	
<b>E) PREÇO MENSAL POR TONELADA REAL COM BDI</b>	
<b>F) PREÇO MENSAL POR KG COM BDI</b>	





PREFEITURA MUNICIPAL DE BARRA DO PIRAÍ  
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**ANEXO III - MODELO DE PROPOSTA COMERCIAL**

  <p><b>SERVIÇO PÚBLICO MUNICIPAL</b> <b>ANEXO III – fl. 01/02</b></p>		<b>Licitação por: Concorrência</b> <b>A realizar-se em: às :00hs</b> <b>Requisição: nº</b>				
<b>Proposta de Preços</b>		<b>CARIMBO DA FIRMA</b>				
A empresa ao lado propõe-se a prestar os serviços à Prefeitura de Barra do Piraí pelos preços assinalados, obedecendo rigorosamente às condições constantes no Edital de <b>Concorrência Pública nº 002/2017</b> .						
ITEM	CÓDIGO	ESPECIFICAÇÃO	Unid	Marca	Qtde.	PREVISÃO DE CUSTO R\$ Valor Unitário
01		Contratação de empresa especializada para prestar serviços de coleta e transporte de resíduo sólido domiciliar e comercial no perímetro urbano e rural (RSU), na circunscrição do Município de Barra do Piraí, bem como Coleta Semanal, transporte e disposição final dos resíduos de serviços de Saúde (RSS), conforme definição contida neste projeto em associação às especificações técnicas inseridas nas planilhas orçamentárias, memórias de cálculo e cronograma físico-financeiro (ANEXOS I a II DESTE EDITAL), com destinação final dos resíduos para Aterro Sanitário licenciado por Órgão Ambiental Estadual (Consórcio Intermunicipal de Gestão de Resíduos Sólidos do Vale do Café – CONVALE). OBS: Especificação na folha 02;				
<b>VALOR TOTAL POR EXTENSO</b> ( _____ )			<b>TOTAL GERAL (R\$)</b>		R\$ _____	
<b>OBSERVAÇÕES:</b> 1. Ser datilografada, sem emendas e rasuras; conter os preços em algarismo e por extenso, por unidade, já incluídas as despesas de fretes, impostos federais ou estaduais e descontos especiais a ser datada e assinada pelo gerente ou seu procurador. 2. O proponente se obrigará, mediante devolução da PROPOSTA DE PREÇOS a cumprir os termos nela contidos. 3. As duas primeiras vias da PROPOSTA DE PREÇOS deverão ser devolvidas a este ÓRGÃO, até a hora e data marcadas, em envelope fechado, com a indicação do seu número e data do encerramento. 4. A licitação mediante PROPOSTA DE PREÇOS poderá ser anulada no todo ou em parte, de conformidade com a legislação vigente.			<b>Prazo de execução:</b> <b>Validade da Proposta De Preços (preços válidos), por: 60 (sessenta) dias</b> <b>Local da execução:</b> Declaramos inteira submissão ao presente Termo e Legislação vigente Em ___/___/___			
Obs.: Informar dados bancários:			<b>Firma Proponente</b>			
Banco: N°						
Agência: C/c:						



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ANEXO III – fl. 02/02

PROPOSTA DE PREÇOS

Licitação por: Concorrência

A realizar-se em:

Requisição: nº

Lote 01

Item	Descrição	TONELADA /ANO	Valor Unit./ TONELADA (R\$)	Valor MÊS/ TONELADA (R\$)	Valor Total / ANO (R\$)
01	Contratação de empresa especializada para prestar serviços de coleta e transporte de resíduo sólido domiciliar e comercial no perímetro urbano e rural (RSU), na circunscrição do Município de Barra do Piraí, conforme definição contida neste projeto em associação às especificações técnicas inseridas nas planilhas orçamentárias, memórias de cálculo e cronograma físico-financeiro (ANEXOS I a II DESTE EDITAL, com destinação final dos resíduos para Aterro Sanitário licenciado por Órgão Ambientar Estadual (Consórcio Intermunicipal de Gestão de Resíduos Sólidos do Vale do Café – CONVALE).	17.120,64			

Valor Total do Lote 01 = R\$ \_\_\_\_\_

Lote 2

Item	Descrição	TONELADA/ ANO	Valor Unit./ TONELADA	Valor MÊS/ TONELADA	Valor Total/ANO (R\$)
01	Contratação de empresa especializada para prestar serviços de coleta Semanal, transporte e disposição final dos resíduos de serviços de Saúde (RSS), conforme definição contida neste projeto em associação às especificações técnicas inseridas nas planilhas orçamentárias, memórias de cálculo e cronograma físico-financeiro (ANEXOS I a II DESTE EDITAL), com destinação final dos resíduos para Aterro Sanitário licenciado por Órgão Ambientar Estadual (Consórcio Intermunicipal de Gestão de Resíduos Sólidos do Vale do Café – CONVALE).	176,436			

Valor Total do Lote 02 = R\$ \_\_\_\_\_



**ANEXO IV – MODELO DE CARTA DE CREDENCIAMENTO**

À  
Comissão Permanente de Licitação  
Travessa Assumpção nº69 Centro Barra do Pirai-RJ

Ref. **Concorrência Pública nº 002/2017**

Prezados,

A

\_\_\_\_\_  
(empresa) – <nome> – <sede> – CNPJ nº \_\_\_\_\_, CREDENCIA o Sr.(a) \_\_\_\_\_(representante) – <nome> - <qualificação>, para representá-la no Procedimento Licitatório da **Concorrência Pública nº 002/2017**, podendo para tanto apresentar os documentos referentes ao procedimento licitatório em referência, assinar, prestar esclarecimentos, satisfazer exigências, impugnar documentos, interpor recursos, transigir, desistir, receber notificações e intimações, concordar e discordar de atos e decisões da Comissão de Licitação, enfim, praticar todos os demais atos que se fizerem necessários no decorrer da Concorrência.

Barra do Piraí, \_\_\_\_\_ de \_\_\_\_\_ de \_\_\_\_\_.

[assinatura do representante legal]





**ANEXO V**  
**MINUTA DE CONTRATO**

**CONTRATO Nº \_\_\_\_\_ / 2017**

**CONTRATO DE PRESTAÇÃO DE  
SERVIÇOS QUE ENTRE SI  
CELEBRAM O MUNICÍPIO DE BARRA  
DO PIRAÍ ATRAVÉS DA PREFEITURA  
MUNICIPAL DE BARRA DO PIRAÍ POR  
INTERMÉDIO DA SECRETARIA  
MUNICIPAL DE SERVIÇOS PÚBLICOS  
E A EMPRESA**

O Município de Barra do Piraí, através da Prefeitura Municipal de Barra do Piraí, pessoa jurídica de direito público, inscrita no CNPJ/MF sob o nº 28.576.080/0001- 47, com sede na Travessa Assumpção, nº 69, Centro, Barra do Piraí/RJ, doravante denominada **CONTRATANTE**, representada neste ato pelo **Exmo. Sr. Prefeito Mário Reis Esteves**, residente e domiciliado à Rua José Mastrângelo, nº 04, Vila Suíça, Centro, Barra do Piraí/RJ CEP: 27.120-250, portador da carteira de identidade nº 06.070.917-7 e CPF nº 052.436.087-18, por intermédio da **Secretaria Municipal de Serviços Públicos** \_\_\_\_\_ e a empresa \_\_\_\_\_, situada na \_\_\_\_\_, inscrita no **CNPJ/MF** sob o nº \_\_\_\_\_, daqui por diante denominada **CONTRATADA**, representada neste ato por \_\_\_\_\_, residente e domiciliado à \_\_\_\_\_, portador da carteira de identidade nº \_\_\_\_\_ e CPF nº \_\_\_\_\_, resolvem celebrar o presente **CONTRATO DE PRESTAÇÃO DE SERVIÇOS**, em decorrência do resultado da licitação na modalidade **Concorrência nº 002/2017**, com fundamento no processo administrativo nº **9222/2017**, que se regerá pelas normas da Lei Federal nº 8.666/93 e suas alterações, pela Lei Complementar nº 123/2006 e suas



alterações, do instrumento convocatório, aplicando-se a este contrato suas disposições irrestrita e incondicionalmente, bem como pelas cláusulas e condições seguintes:

### **CLÁUSULA PRIMEIRA: DO OBJETO**

Contratação de empresa especializada para prestar serviços de coleta e transporte de resíduo sólido domiciliar e comercial no perímetro urbano e rural (RSU), na circunscrição do Município de Barra do Piraí, conforme definição contida neste projeto em associação às especificações técnicas inseridas nas planilhas orçamentárias, memórias de cálculo e cronograma físico-financeiro (ANEXOS I a II DESTE EDITAL, com destinação final dos resíduos para Aterro Sanitário licenciado por Órgão Ambiental Estadual (Consórcio Intermunicipal de Gestão de Resíduos Sólidos do Vale do Café – CONVALE).

PARÁGRAFO ÚNICO: O objeto será executado segundo Projeto Básico.

### **CLÁUSULA SEGUNDA: PRAZO**

O prazo de vigência do Contrato **será de** \_\_\_\_\_ (\_\_\_\_\_) \_\_\_\_\_ contados a partir da data de assinatura, com posterior publicação no Boletim Oficial Eletrônico (BOE), conforme artigo 61 parágrafo único da Lei Federal 8.666/93.

PARÁGRAFO ÚNICO – O prazo contratual poderá ser prorrogado, observando-se o limite previsto no art. 57 da Lei nº 8.666/93, desde que a proposta da CONTRATADA seja mais vantajosa para o **CONTRATANTE**.

### **CLÁUSULA TERCEIRA: DAS OBRIGAÇÕES DO CONTRATANTE**

Constituem obrigações do **CONTRATANTE**:

a) efetuar os pagamentos devidos ao fornecedor, de acordo com as condições estabelecidas no Edital e seus anexos;



- b) entregar ao fornecedor documentos, informações e demais elementos que possuir e pertinentes à execução do presente contrato;
- c) exercer a fiscalização da execução do objeto;
- d) receber provisória e definitivamente o objeto, nas formas definidas no edital e no contrato.

#### **CLÁUSULA QUARTA: DAS OBRIGAÇÕES DA CONTRATADA**

Constituem obrigações da **CONTRATADA**:

- a) conduzir os serviços de acordo com as normas do serviço e as especificações técnicas e, ainda, com estrita observância do instrumento convocatório, do Projeto Básico, da Proposta de Preços e da legislação vigente;
- b) prestar o serviço no endereço constante da Proposta Detalhe;
- c) prover os serviços ora contratados, com pessoal adequado e capacitado em todos os níveis de trabalho;
- d) iniciar e concluir os serviços nos prazos estipulados;
- e) comunicar ao Fiscal do contrato, por escrito e tão logo constatado problema ou a impossibilidade de execução de qualquer obrigação contratual, para a adoção das providências cabíveis;
- f) responder pelos serviços que executar, na forma do ato convocatório e da legislação aplicável;
- g) reparar, corrigir, remover, reconstruir ou substituir, no todo ou em parte e às suas expensas, bens ou prestações objeto do contrato em que se verificarem vícios, defeitos ou incorreções resultantes de execução irregular ou do emprego ou fornecimento de materiais inadequados ou desconformes com as especificações;



h) observado o disposto no artigo 68 da Lei nº 8.666/93, designar e manter preposto, no local do serviço, que deverá se reportar diretamente ao Fiscal do contrato, para acompanhar e se responsabilizar pela execução dos serviços, inclusive pela regularidade técnica e disciplinar da atuação da equipe técnica disponibilizada para os serviços;

i) elaborar relatório mensal sobre a prestação dos serviços, dirigido ao fiscal do contrato, relatando todos os serviços realizados, eventuais problemas verificados e qualquer fato relevante sobre a execução do objeto contratual;

j) manter em estoque um mínimo de materiais, peças e componentes de reposição regular e necessários à execução do objeto do contrato;

l) manter, durante toda a duração deste contrato, em compatibilidade com as obrigações assumidas, as condições de habilitação e qualificação exigidas para participação na licitação;

m) cumprir todas as obrigações e encargos sociais trabalhistas e demonstrar o seu adimplemento;

n) indenizar todo e qualquer dano e prejuízo pessoal ou material que possa advir, direta ou indiretamente, do exercício de suas atividades ou serem causados por seus prepostos à **CONTRATANTE**, aos usuários ou terceiros.

o) observar o cumprimento do quantitativo de pessoas com deficiência, estipulado pelo art. 93, da Lei Federal nº 8.213/91.

p) na forma da Lei Federal nº 8.213/91, a empresa com 100 (cem) ou mais empregados alocados a este contrato está obrigada a preencher de 2% (dois por cento) a 5% (cinco por cento) dos seus postos de trabalho com beneficiários reabilitados ou pessoas portadoras de deficiência, habilitadas, na seguinte proporção: (alínea incluída pela Resolução PGE nº 3.996 de 13.12.2016);

l – de 100 até 200 empregados.....2%;



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II - de 201 a 500..... 3%;  
III - de 501 a 1.000..... 4%;  
IV - de 1.001 em diante. .... 5%.

**CLÁUSULA QUINTA: DA DOTAÇÃO ORÇAMENTÁRIA**

As despesas com a execução do presente contrato correrão à conta das seguintes dotações orçamentárias, assim classificadas:

20.13.04.452.0011.2.035.3.3.90.39.01.00.00.00

**Parágrafo Único** – As despesas relativas aos exercícios subsequentes correrão por conta das dotações orçamentárias respectivas, devendo ser empenhadas no início de cada exercício.

**CLÁUSULA SEXTA: VALOR DO CONTRATO**

Dá-se a este contrato o valor total de **R\$**

\_\_\_\_\_

**CLÁUSULA SÉTIMA: DA EXECUÇÃO, DO RECEBIMENTO E DA FISCALIZAÇÃO DO CONTRATO**

O contrato deverá ser executado de acordo com as cláusulas avençadas, nos termos do instrumento convocatório, do Projeto Básico, da legislação vigente, respondendo o inadimplente pelas consequências da inexecução total ou parcial.

**PARÁGRAFO PRIMEIRO** – O contrato será acompanhado e fiscalizado por representante(s) do **CONTRATANTE** especialmente designado(s) pela autoridade competente, conforme ato de nomeação.

**PARÁGRAFO SEGUNDO** – O objeto do contrato será recebido da seguinte forma:

- a) Provisoriamente, pelo fiscal designado para o acompanhamento mediante termo circunstanciado, assinado pelas partes em até 15 dias da comunicação do contrato.



- b) Definitivamente, por servidor ou comissão designada pelo Secretário responsável pelo contrato, mediante termo circunstanciado assinado pelas partes, após vistoria que comprove que o objeto está em conformidade com o contratado, em prazo não superior a 90 (noventa) dias.

PARÁGRAFO TERCEIRO – Os serviços cujos padrões de qualidade e desempenho estejam em desacordo com a especificação do edital e do Projeto Básico deverão ser recusados pelo responsável pela execução e fiscalização do contrato, que anotarà em registro próprio as ocorrências e determinará o que for necessário à regularização das faltas ou defeitos observados. No que exceder à sua competência, comunicará o fato à autoridade superior, em 05 (cinco) dias, para ratificação.

PARÁGRAFO QUARTO – A CONTRATADA declara, antecipadamente, aceitar todas as condições, métodos e processos de inspeção, verificação e controle adotados pela fiscalização, obrigando-se a fornecer todos os dados, elementos, explicações, esclarecimentos e comunicações de que esta necessitar e que forem julgados necessários ao desempenho de suas atividades.

PARÁGRAFO QUINTO – A instituição e a atuação da fiscalização não exclui ou atenua a responsabilidade da CONTRATADA, nem a exime de manter fiscalização própria.

PARÁGRAFO SEXTO - A CONTRATANTE procederá à fiscalização do regime de cotas de que trata a alínea p, cláusula quarta, realizando a verificação no local do cumprimento da obrigação assumida no contrato.

#### **CLÁUSULA OITAVA: DA RESPONSABILIDADE**

A CONTRATADA é responsável por danos causados a CONTRATANTE ou a terceiros, decorrentes de culpa ou dolo na execução do contrato, não excluída ou



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reduzida essa responsabilidade pela presença de fiscalização ou pelo acompanhamento da execução por órgão da Administração.

PARÁGRAFO PRIMEIRO – A CONTRATADA é responsável por encargos trabalhistas, inclusive decorrentes de acordos, dissídios e convenções coletivas, previdenciários, fiscais e comerciais oriundos da execução do contrato, podendo o CONTRATANTE, a qualquer tempo, exigir a comprovação do cumprimento de tais encargos.

PARÁGRAFO SEGUNDO – A CONTRATADA será obrigada a reapresentar a Certidão Conjunta Negativa de Débitos relativos a Tributos Federais e à Dívida Ativa da União, ou Certidão Conjunta Positiva com efeito negativo, expedida pela Secretaria da Receita Federal do Brasil (RFB) e Procuradoria-Geral da Fazenda Nacional (PGFN), que abrange, inclusive, as contribuições sociais previstas nas alíneas a a d, do parágrafo único, do art. 11, da Lei nº 8.212, de 1991, da comprovação de regularidade fiscal em relação aos tributos incidentes sobre a atividade objeto deste contrato e do Certificado de Regularidade perante o Fundo de Garantia por Tempo de Serviço (FGTS), assim como a Certidão Negativa de Débitos Trabalhistas (CNDT), sempre que expirados os respectivos prazos de validade.

PARÁGRAFO TERCEIRO – A ausência da apresentação dos documentos mencionados no PARÁGRAFO SEGUNDO ensejará a imediata expedição de notificação à CONTRATADA, assinalando o prazo de 10 (dez) dias para a cabal demonstração do cumprimento das obrigações trabalhistas e previdenciárias e para a apresentação de defesa, no mesmo prazo, para eventual aplicação da penalidade de advertência, na hipótese de descumprimento total ou parcial destas obrigações no prazo assinalado.

PARÁGRAFO QUARTO – Permanecendo a inadimplência total ou parcial o contrato será rescindido.



PARÁGRAFO QUINTO – No caso do parágrafo quarto, será expedida notificação à CONTRATADA para apresentar prévia defesa, no prazo de 05 (cinco) dias úteis, para dar início ao procedimento de rescisão contratual e de aplicação da penalidade de suspensão temporária de participação em licitação e impedimento de contratar com a PMBP, pelo prazo de 01 (um) ano.

### **CLÁUSULA NONA: CONDIÇÕES DE PAGAMENTO**

A CONTRATANTE deverá pagar à CONTRATADA, mediante adimplemento do cumprimento com a declaração de recebimento da execução do objeto, devidamente atestada pelo (s) agente (s) competente (s) e diretamente na conta corrente: nº \_\_\_\_\_, agência: \_\_\_\_\_, banco: \_\_\_\_\_, de titularidade da CONTRATADA.

PARÁGRAFO PRIMEIRO – Considera-se adimplemento o cumprimento da prestação com a entrega do objeto, devidamente atestado pelo (s) agente (s) competente (s).

PARÁGRAFO SEGUNDO – A CONTRATADA deverá encaminhar a fatura para pagamento a PMBP, acompanhada de comprovante de recolhimento mensal do FGTS e INSS.

PARÁGRAFO TERCEIRO – O pagamento será realizado no prazo de 30 (trinta) dias, a contar da data final do período de adimplemento de cada parcela e somente será autorizado após a declaração de recebimento da execução do objeto, mediante atestação.

PARÁGRAFO QUARTO – Caso se faça necessária à reapresentação de qualquer nota fiscal por culpa da CONTRATADA, o prazo de 30 (trinta) dias ficará suspenso, prosseguindo a sua contagem a partir da data da respectiva reapresentação.

PARÁGRAFO QUINTO – Os pagamentos eventualmente realizados com atraso, desde que não decorram de ato ou fato atribuível à CONTRATADA, sofrerão a





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incidência de atualização financeira pelo IGPM e juros moratórios de 0,5% ao mês, calculado pro rata die, e aqueles pagos em prazo inferior ao estabelecido neste edital serão feitos mediante desconto de 0,5% ao mês pro rata die.

PARÁGRAFO SEXTO – A CONTRATADA deverá emitir a Nota Fiscal Eletrônica – NF-e, consoante o Protocolo ICMS 42, de 3 de julho de 2009, com a redação conferida pelo Protocolo ICMS 85, de 9 de julho de 2010, e caso seu estabelecimento estiver localizado no Estado do Rio de Janeiro deverá observar a forma prescrita no § 1º, alíneas a, b, c e d, do art. 2º da Resolução SER 047/2003.

PARÁGRAFO SÉTIMO – Caso a contratada não esteja aplicando o regime de cotas de que trata a alínea p, da cláusula quarta, suspender-se-á o pagamento devido, até que seja sanada a irregularidade apontada pelo órgão de fiscalização do contrato

PARÁGRAFO OITAVO – Tratando-se de mão de obra alocada exclusivamente no contrato, decorrido o prazo de 12 (doze) meses da data do orçamento a que essa proposta se referir, assim entendido o acordo, convenção ou dissídio coletivo de trabalho, vigente à época da apresentação da proposta de licitação, poderá a CONTRATADA fazer jus ao reajuste do valor contratual referente aos custos decorrentes de mão de obra, se estes estiverem vinculados às datas-bases dos referidos instrumentos, aplicando-se o índice que tiver sido homologado, quando for o caso, na forma do que dispõe o art. 40, XI, da Lei n.º 8.666/93.

PARÁGRAFO NONO - A anualidade dos reajustes será sempre contada a partir da data da proposta.

PARÁGRAFO DÉCIMO - Os reajustes serão precedidos de requerimento da CONTRATADA, acompanhada de demonstração analítica da alteração dos custos, por meio de apresentação da planilha de custos e formação de preços e do novo acordo, convenção ou dissídio coletivo que fundamenta o reajuste.



PARÁGRAFO DÉCIMO PRIMEIRO – É vedada a inclusão, por ocasião do reajuste, de benefícios não previstos na proposta, exceto quanto se tornarem obrigatórios por força de instrumento legal, sentença normativa, acordo, convenção coletiva ou dissídio.

PARÁGRAFO DÉCIMO SEGUNDO – Na ausência de lei federal, acordo, convenção ou dissídio coletivo de trabalho, o reajuste contratual poderá derivar de lei que fixe novo piso salarial para a categoria, nos moldes da Lei Complementar nº 103/2000.

PARÁGRAFO DÉCIMO TERCEIRO - O preço dos demais insumos poderá ser reajustado após 12 (doze) meses da data da apresentação da proposta, de acordo com o Índice Oficial do Governo (IPCA-M DA FGV), que deverá retratar a variação efetiva dos insumos utilizados na consecução do objeto contratual, na forma do que dispõe o art. 40, XI, da Lei n.º 8.666/93 .

PARÁGRAFO DÉCIMO QUARTO - As partes convencionam que o prazo decadencial para o Contratado solicitar o pagamento do reajuste contratual, que deverá ser protocolizado na Unidade Protocoladora do órgão contratante, é de 60 (sessenta) dias, contados da publicação do índice ajustado contratualmente, sob pena de decair o seu respectivo direito de crédito, nos termos do art. 211, do Código Civil.

#### **CLÁUSULA DÉCIMA: DA ALTERAÇÃO DO CONTRATO**

O presente contrato poderá ser alterado, com as devidas justificativas, nas hipóteses previstas no artigo 65, da Lei nº 8.666/93.

#### **CLÁUSULA DÉCIMA PRIMEIRA: DA RESCISÃO**

O presente contrato poderá ser rescindido por ato unilateral do **CONTRATANTE**, pela inexecução total ou parcial do disposto na cláusula quarta ou das demais cláusulas e condições, nos termos dos artigos 77 e 80 da Lei n.º 8.666/93, sem que caiba à **CONTRATADA** direito a indenizações de qualquer espécie.



**PARÁGRAFO PRIMEIRO** – Os casos de rescisão contratual serão formalmente motivados nos autos do processo administrativo, assegurado a **CONTRATADA** o direito ao contraditório e a prévia e ampla defesa.

**PARÁGRAFO SEGUNDO** – A declaração de rescisão deste contrato, independentemente da prévia notificação judicial ou extrajudicial, operará seus efeitos a partir da assinatura com posterior publicação no **Boletim Oficial Eletrônico (BOE)**.

**PARÁGRAFO TERCEIRO** – Na hipótese de rescisão administrativa, além das demais sanções cabíveis, a Administração poderá:

- a) reter, a título de compensação, os créditos devidos à contratada e cobrar as importâncias por ela recebidas indevidamente;
- b) cobrar da contratada multa de 10% (dez por cento), calculada sobre o saldo reajustado dos serviços não executados e;
- c) cobrar indenização suplementar se o prejuízo for superior ao da multa.

**CLÁUSULA DÉCIMA SEGUNDA: DAS SANÇÕES ADMINISTRATIVAS E  
DEMAIS PENALIDADES**

A inexecução dos serviços, total ou parcial, a execução imperfeita, a mora na execução ou qualquer inadimplemento ou infração contratual, sujeitará o contratado, sem prejuízo da responsabilidade civil ou criminal que couber, às seguintes penalidades, que deverá(ão) ser graduada(s) de acordo com a gravidade da infração:

- a) advertência;
- b) multa administrativa;
- c) suspensão temporária da participação em licitação e impedimento de contratar com a Administração Pública;
- d) declaração de inidoneidade para licitar e contratar com a Administração Pública.



**Parágrafo Primeiro** - A sanção administrativa deve ser determinada de acordo com a natureza e a gravidade da falta cometida.

**Parágrafo Segundo** - Quando a penalidade envolver prazo ou valor, a natureza e a gravidade da falta cometida também deverão ser considerados para a sua fixação.

**Parágrafo Terceiro** - A imposição das penalidades é de competência exclusiva do órgão licitante, devendo ser aplicada pela autoridade competente, na forma abaixo descrita:

- a) a advertência e a multa, previstas nas alíneas a e b, do *caput*, serão impostas pelo Exm<sup>o</sup>. Senhor Ordenador de Despesa;
- b) a suspensão temporária da participação em licitação e impedimento de contratar com a Administração, prevista na alínea c, do *caput*, será imposta pelo próprio Exm<sup>o</sup>. Senhor Prefeito ou pelo Ordenador de Despesa;
- c) a aplicação da sanção prevista na alínea d, do *caput*, é de competência exclusiva do Exm<sup>o</sup> Senhor Prefeito.

**Parágrafo Quarto** - A multa administrativa, prevista na alínea b, do *caput*:

- a) corresponderá ao valor de até 5% (cinco por cento) sobre o valor do Contrato, aplicada de acordo com a gravidade da infração e proporcionalmente às parcelas não executadas;
- b) poderá ser aplicada cumulativamente a qualquer outra;
- c) não tem caráter compensatório e seu pagamento não exime a responsabilidade por perdas e danos das infrações cometidas;



d) deverá ser graduada conforme a gravidade da infração;

e) nas reincidências específicas, deverá corresponder ao dobro do valor da que tiver sido inicialmente imposta, observando-se sempre o limite de 20% (vinte por cento) do valor do contrato ou do empenho.

**Parágrafo Quinto** - Dentre outras hipóteses, a pena de advertência será aplicada à **CONTRATADA** quando não apresentada a documentação exigida nos **parágrafos Segundo e Terceiro da Cláusula Oitava**, no prazo de 10 (dez) dias da sua exigência, o que configura a mora.

**Parágrafo Sexto** - A suspensão temporária da participação em licitação e impedimento de contratar com a Administração Pública, prevista na alínea c, do *caput*.

a) não poderá ser aplicada em prazo superior a 02 (dois) anos;

b) sem prejuízo de outras hipóteses, deverá ser aplicada quando o adjudicatário faltoso, sancionado com multa, não realizar o depósito do respectivo valor, no prazo devido;

c) será aplicada, pelo prazo de 01 (um) ano, conjuntamente à rescisão contratual, no caso de descumprimento total ou parcial do objeto, configurando inadimplemento, na forma prevista no **parágrafo quarto**, da **Cláusula Oitava**.

**Parágrafo Sétimo** - A Declaração de Inidoneidade para licitar e contratar com a Administração Pública, prevista na alínea d, do *caput*, perdurará pelo tempo em que os motivos determinantes da punição ou até que seja promovida a reabilitação perante a própria autoridade que aplicou a penalidade, que será concedida sempre que o contratado ressarcir a Administração Pública pelos prejuízos causados.

**Parágrafo Oitavo** - A reabilitação referida pelo parágrafo sétimo poderá ser requerida após 02 (dois) anos de sua aplicação.



**Parágrafo Nono** - O atraso injustificado no cumprimento das obrigações contratuais sujeitará a **CONTRATADA** à multa de mora de 1% (um por cento) por dia útil que exceder o prazo estipulado, a incidir sobre o valor do contrato, da nota de empenho ou do saldo não atendido, respeitado o limite do art. 412 do Código Civil, sem prejuízo da possibilidade de rescisão unilateral do contrato pela **CONTRATANTE** ou da aplicação das sanções administrativas.

**Parágrafo Décimo** - A aplicação de sanção não exclui a possibilidade de rescisão administrativa do Contrato, garantido o contraditório e a defesa prévia.

**Parágrafo Décimo Primeiro** - A aplicação de qualquer sanção será antecedida de intimação do interessado que indicará a infração cometida, os fatos e os fundamentos legais pertinentes para a aplicação da penalidade, assim como a penalidade que se pretende imputar e o respectivo prazo e/ou valor, se for o caso.

**Parágrafo Décimo Segundo** - Ao interessado será garantido o contraditório e a defesa prévia.

**Parágrafo Décimo Terceiro** - A intimação do interessado deverá indicar o prazo e o local para a apresentação da defesa.

**Parágrafo Décimo Quarto** - A defesa prévia do interessado será exercida no prazo de 05 (cinco) dias úteis, no caso de aplicação das penalidades previstas nas alíneas a, b e c, do *caput*, e no prazo de 10 (dez) dias, no caso da alínea d.

**Parágrafo Décimo Quinto** - Será emitida decisão conclusiva sobre a aplicação ou não da sanção, pela AUTORIDADE COMPETENTE, devendo ser apresentada a devida motivação, com a demonstração dos fatos e dos respectivos fundamentos jurídicos.

**Parágrafo Décimo Sexto**- Os licitantes, adjudicatários e contratantes que forem penalizados com as sanções de suspensão temporária da participação em licitação



e impedimento de contratar e a **Declaração de Inidoneidade** para licitar e contratar por qualquer Ente ou Entidade da Administração Federal, Estadual, Distrital e Municipal ficarão impedidos de contratar com a **PMBP** enquanto perdurarem os efeitos da respectiva penalidade.

### **CLÁUSULA DÉCIMA TERCEIRA: DO RECURSO AO JUDICIÁRIO**

As importâncias decorrentes de quaisquer penalidades impostas à **CONTRATADA**, inclusive as perdas e danos ou prejuízos que a execução do contrato tenha acarretado, quando superiores aos créditos que a **CONTRATADA** tenha em face da **CONTRATANTE**, que não comportarem cobrança amigável, serão cobrados judicialmente.

**PARÁGRAFO ÚNICO** – Caso a **CONTRATANTE** tenha de recorrer ou comparecer a juízo para haver o que lhe for devido, a **CONTRATADA** ficará sujeita ao pagamento, principal do débito, dos juros de mora, despesas de processo e honorários de advogado.

### **CLÁUSULA DÉCIMA QUARTA: DO INADIMPLEMENTO**

Constitui cláusula de essencial do presente contrato, de observância obrigatória por parte da **CONTRATADA**, a impossibilidade, perante o **CONTRATANTE**, de opor, administrativamente, exceção de inadimplemento, como fundamento para a interrupção unilateral do serviço.

**PARAGRAFO ÚNICO:** É vedada a suspensão do contrato a que se refere o art. 78, XIV, da Lei nº 8.666/93, pela **CONTRATADA**, sem a prévia autorização judicial.

### **CLÁUSULA DÉCIMA QUINTA: CONDIÇÕES DE HABILITAÇÃO**

A **CONTRATADA** se obriga a manter, durante toda a execução do contrato, em compatibilidade com as obrigações por ele assumidas, todas as condições de habilitação e qualificação exigidas na licitação.



## **CLÁUSULA DÉCIMA SEXTA: DA PUBLICAÇÃO E CONTROLE DO CONTRATO**

Após a assinatura do contrato deverá seu extrato ser publicado, no **Boletim Oficial Eletrônico (BOE)**, conforme artigo 61, parágrafo único, da Lei Federal 8.666/1993.

## **CLÁUSULA DÉCIMA SÉTIMA: DA GARANTIA**

Como garantia para execução do Contrato, a licitante vencedora fornecerá à Prefeitura de Barra do Piraí/RJ, no ato da assinatura do contrato, o valor correspondente a 2% ( dois por cento ) do valor total contratado, ficando a seu critério optar por uma das modalidades descritas no Art. 56, § 1º, da Lei 8.666/93, atualizada, a saber:

- a) Caução em dinheiro ou em título da dívida pública, emitidos sob a forma escritural, mediante registro em sistema centralizado de liquidação e de custódia autorizado pelo Banco Central do Brasil e avaliados pelos seus valores econômicos, conforme definido pelo Ministério da Fazenda;
- b) Seguro – garantia;
- c) Fiança bancária;

Os depósitos para garantia das obrigações decorrentes da execução do contrato, quando em dinheiro, serão obrigatoriamente efetuados em Conta Corrente, específica para tal fim a ser informada pela Secretaria da Fazenda, devendo o comprovante do depósito ser entregue no ato da assinatura do contrato. No caso da licitante vencedora optar por outra forma de garantia, o documento será entregue na Tesouraria da Prefeitura de Barra do Piraí para registro e guarda.

## **CLÁUSULA DÉCIMA OITAVA: DO FORO DE ELEIÇÃO**

Fica eleito o Foro do Município de Barra do Piraí-RJ, Comarca do Município, para dirimir qualquer litígio decorrente do presente contrato que não possa ser resolvido por meio amigável, com expressa renúncia a qualquer outro, por mais privilegiado que seja.





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E, por estarem assim acordes em todas as condições e cláusulas estabelecidas neste contrato, firmam as partes o presente instrumento em **05 (cinco) vias** de igual forma e teor, depois de lido e achado conforme, em presença de testemunhas abaixo firmadas.

Barra do Piraí, em \_\_\_\_\_ de \_\_\_\_\_ de \_\_\_\_\_.

\_\_\_\_\_  
**MÁRIO REIS ESTEVES**

PREFEITURA MUNICIPAL DE BARRA DO PIRAÍ

\_\_\_\_\_  
REPRESENTANTE

Testemunha: \_\_\_\_\_ CPF: \_\_\_\_\_

Testemunha: \_\_\_\_\_ CPF: \_\_\_\_\_



**ANEXO V  
MINUTA DE CONTRATO**

**CONTRATO Nº \_\_\_\_\_ / 20\_\_\_\_**

**CONTRATO DE PRESTAÇÃO DE  
SERVIÇOS QUE ENTRE SI  
CELEBRAM O MUNICÍPIO DE BARRA  
DO PIRAÍ ATRAVÉS DA PREFEITURA  
MUNICIPAL DE BARRA DO PIRAÍ POR  
INTERMÉDIO DA SECRETARIA  
MUNICIPAL DE SAUDE E A EMPRESA**

**O Município de Barra do Piraí, através da do Fundo Municipal de Saúde de Barra do Piraí, pessoa jurídica de direito público, inscrita no CNPJ (MF) sob o nº 01.606.604/0001-49, com sede administrativa localizada na Rua Paulo de Frontin, nº 182, Centro, Barra do Piraí (RJ), doravante denominado CONTRATANTE, representado neste ato pelo Juberto Folena de Oliveira Junior, portador da carteira de identidade nº 10182241-9, CPF nº 075.376.347-85, residente e domiciliado nesta cidade e a empresa, situada na , nº - Bairro –cidade – CEP e a empresa \_\_\_\_\_, situada na \_\_\_\_\_, inscrita no CNPJ/MF sob o nº \_\_\_\_\_, daqui por diante denominada CONTRATADA, representada neste ato por \_\_\_\_\_, residente e domiciliado à \_\_\_\_\_, portador da carteira de identidade nº \_\_\_\_\_ e CPF nº \_\_\_\_\_, resolvem celebrar o presente **CONTRATO DE PRESTAÇÃO DE SERVIÇOS**, em decorrência do resultado da licitação na modalidade **Concorrência nº 002/2017**, com fundamento no processo administrativo nº **9222/2017**, que se regerá pelas normas da Lei Federal nº 8.666/93 e suas alterações, pela Lei Complementar nº 123/2006 e suas alterações, do instrumento convocatório, aplicando-se a este contrato suas disposições irrestrita e incondicionalmente, bem como pelas cláusulas e condições seguintes:**

**CLÁUSULA PRIMEIRA: DO OBJETO**

Contratação de empresa especializada para prestar serviços de coleta e transporte de resíduo sólido domiciliar e comercial no perímetro urbano e rural (RSU), na circunscrição do Município de Barra do Piraí, conforme definição contida neste projeto em associação às especificações técnicas inseridas nas planilhas



orçamentárias, memórias de cálculo e cronograma físico-financeiro (ANEXOS I a II DESTE EDITAL, com destinação final dos resíduos para Aterro Sanitário licenciado por Órgão Ambiental Estadual (Consórcio Intermunicipal de Gestão de Resíduos Sólidos do Vale do Café – CONVALE).

PARÁGRAFO ÚNICO: O objeto será executado segundo Projeto Básico.

### **CLÁUSULA SEGUNDA: PRAZO**

O prazo de vigência do Contrato **será de** \_\_\_\_\_ (\_\_\_\_\_) \_\_\_\_\_ contados a partir da data de assinatura, com posterior publicação no Boletim Oficial Eletrônico (BOE), conforme artigo 61 parágrafo único da Lei Federal 8.666/93.

PARÁGRAFO ÚNICO – O prazo contratual poderá ser prorrogado, observando-se o limite previsto no art. 57 da Lei nº 8.666/93, desde que a proposta da CONTRATADA seja mais vantajosa para o **CONTRATANTE**.

### **CLÁUSULA TERCEIRA: DAS OBRIGAÇÕES DO CONTRATANTE**

Constituem obrigações do **CONTRATANTE**:

- a) efetuar os pagamentos devidos ao fornecedor, de acordo com as condições estabelecidas no Edital e seus anexos;
- b) entregar ao fornecedor documentos, informações e demais elementos que possuir e pertinentes à execução do presente contrato;
- c) exercer a fiscalização da execução do objeto;
- d) receber provisória e definitivamente o objeto, nas formas definidas no edital e no contrato.

### **CLÁUSULA QUARTA: DAS OBRIGAÇÕES DA CONTRATADA**



Constituem obrigações da **CONTRATADA**:

- a) conduzir os serviços de acordo com as normas do serviço e as especificações técnicas e, ainda, com estrita observância do instrumento convocatório, do Projeto Básico, da Proposta de Preços e da legislação vigente;
- b) prestar o serviço no endereço constante da Proposta Detalhe;
- c) prover os serviços ora contratados, com pessoal adequado e capacitado em todos os níveis de trabalho;
- d) iniciar e concluir os serviços nos prazos estipulados;
- e) comunicar ao Fiscal do contrato, por escrito e tão logo constatado problema ou a impossibilidade de execução de qualquer obrigação contratual, para a adoção das providências cabíveis;
- f) responder pelos serviços que executar, na forma do ato convocatório e da legislação aplicável;
- g) reparar, corrigir, remover, reconstruir ou substituir, no todo ou em parte e às suas expensas, bens ou prestações objeto do contrato em que se verificarem vícios, defeitos ou incorreções resultantes de execução irregular ou do emprego ou fornecimento de materiais inadequados ou desconformes com as especificações;
- h) observado o disposto no artigo 68 da Lei nº 8.666/93, designar e manter preposto, no local do serviço, que deverá se reportar diretamente ao Fiscal do contrato, para acompanhar e se responsabilizar pela execução dos serviços, inclusive pela regularidade técnica e disciplinar da atuação da equipe técnica disponibilizada para os serviços;



- i) elaborar relatório mensal sobre a prestação dos serviços, dirigido ao fiscal do contrato, relatando todos os serviços realizados, eventuais problemas verificados e qualquer fato relevante sobre a execução do objeto contratual;
- j) manter em estoque um mínimo de materiais, peças e componentes de reposição regular e necessários à execução do objeto do contrato;
- l) manter, durante toda a duração deste contrato, em compatibilidade com as obrigações assumidas, as condições de habilitação e qualificação exigidas para participação na licitação;
- m) cumprir todas as obrigações e encargos sociais trabalhistas e demonstrar o seu adimplemento;
- n) indenizar todo e qualquer dano e prejuízo pessoal ou material que possa advir, direta ou indiretamente, do exercício de suas atividades ou serem causados por seus prepostos à **CONTRATANTE**, aos usuários ou terceiros.
- o) observar o cumprimento do quantitativo de pessoas com deficiência, estipulado pelo art. 93, da Lei Federal nº 8.213/91.
- p) na forma da Lei Federal nº 8.213/91, a empresa com 100 (cem) ou mais empregados alocados a este contrato está obrigada a preencher de 2% (dois por cento) a 5% (cinco por cento) dos seus postos de trabalho com beneficiários reabilitados ou pessoas portadoras de deficiência, habilitadas, na seguinte proporção: (alínea incluída pela Resolução PGE nº 3.996 de 13.12.2016);

I – de 100 até 200 empregados.....	2%;
II - de 201 a 500.....	3%;
III - de 501 a 1.000.....	4%;
IV - de 1.001 em diante. ....	5%.

#### **CLÁUSULA QUINTA: DA DOTAÇÃO ORÇAMENTÁRIA**

As despesas com a execução do presente contrato correrão à conta das seguintes dotações orçamentárias, assim classificadas:



30.04.10.122.0020.2.961.3.3.90.39.99.00.00.00

**Parágrafo Único** – As despesas relativas aos exercícios subsequentes correrão por conta das dotações orçamentárias respectivas, devendo ser empenhadas no início de cada exercício.

### **CLÁUSULA SEXTA: VALOR DO CONTRATO**

Dá-se a este contrato o valor total de **R\$**

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### **CLÁUSULA SÉTIMA: DA EXECUÇÃO, DO RECEBIMENTO E DA FISCALIZAÇÃO DO CONTRATO**

O contrato deverá ser executado de acordo com as cláusulas avençadas, nos termos do instrumento convocatório, do Projeto Básico, da legislação vigente, respondendo o inadimplente pelas consequências da inexecução total ou parcial.

PARÁGRAFO PRIMEIRO – O contrato será acompanhado e fiscalizado por representante(s) do **CONTRATANTE** especialmente designado(s) pela autoridade competente, conforme ato de nomeação.

PARÁGRAFO SEGUNDO – O objeto do contrato será recebido da seguinte forma:

- c) Provisoriamente, pelo fiscal designado para o acompanhamento mediante termo circunstanciado, assinado pelas partes em até 15 dias da comunicação do contrato.
- d) Definitivamente, por servidor ou comissão designada pelo Secretário responsável pelo contrato, mediante termo circunstanciado assinado pelas partes, após vistoria que comprove que o objeto está em conformidade com o contratado, em prazo não superior a 90 (noventa) dias.



PARÁGRAFO TERCEIRO – Os serviços cujos padrões de qualidade e desempenho estejam em desacordo com a especificação do edital e do Projeto Básico deverão ser recusados pelo responsável pela execução e fiscalização do contrato, que anotará em registro próprio as ocorrências e determinará o que for necessário à regularização das faltas ou defeitos observados. No que exceder à sua competência, comunicará o fato à autoridade superior, em 05 (cinco) dias, para ratificação.

PARÁGRAFO QUARTO – A CONTRATADA declara, antecipadamente, aceitar todas as condições, métodos e processos de inspeção, verificação e controle adotados pela fiscalização, obrigando-se a fornecer todos os dados, elementos, explicações, esclarecimentos e comunicações de que esta necessitar e que forem julgados necessários ao desempenho de suas atividades.

PARÁGRAFO QUINTO – A instituição e a atuação da fiscalização não exclui ou atenua a responsabilidade da CONTRATADA, nem a exime de manter fiscalização própria.

PARÁGRAFO SEXTO - A CONTRATANTE procederá à fiscalização do regime de cotas de que trata a alínea p, cláusula quarta, realizando a verificação no local do cumprimento da obrigação assumida no contrato.

#### **CLÁUSULA OITAVA: DA RESPONSABILIDADE**

A CONTRATADA é responsável por danos causados a CONTRATANTE ou a terceiros, decorrentes de culpa ou dolo na execução do contrato, não excluída ou reduzida essa responsabilidade pela presença de fiscalização ou pelo acompanhamento da execução por órgão da Administração.

PARÁGRAFO PRIMEIRO – A CONTRATADA é responsável por encargos trabalhistas, inclusive decorrentes de acordos, dissídios e convenções coletivas, previdenciários, fiscais e comerciais oriundos da execução do contrato, podendo o



CONTRATANTE, a qualquer tempo, exigir a comprovação do cumprimento de tais encargos.

PARÁGRAFO SEGUNDO – A CONTRATADA será obrigada a reapresentar a Certidão Conjunta Negativa de Débitos relativos a Tributos Federais e à Dívida Ativa da União, ou Certidão Conjunta Positiva com efeito negativo, expedida pela Secretaria da Receita Federal do Brasil (RFB) e Procuradoria-Geral da Fazenda Nacional (PGFN), que abrange, inclusive, as contribuições sociais previstas nas alíneas a a d, do parágrafo único, do art. 11, da Lei nº 8.212, de 1991, da comprovação de regularidade fiscal em relação aos tributos incidentes sobre a atividade objeto deste contrato e do Certificado de Regularidade perante o Fundo de Garantia por Tempo de Serviço (FGTS), assim como a Certidão Negativa de Débitos Trabalhistas (CNDT), sempre que expirados os respectivos prazos de validade.

PARÁGRAFO TERCEIRO – A ausência da apresentação dos documentos mencionados no PARÁGRAFO SEGUNDO ensejará a imediata expedição de notificação à CONTRATADA, assinalando o prazo de 10 (dez) dias para a cabal demonstração do cumprimento das obrigações trabalhistas e previdenciárias e para a apresentação de defesa, no mesmo prazo, para eventual aplicação da penalidade de advertência, na hipótese de descumprimento total ou parcial destas obrigações no prazo assinalado.

PARÁGRAFO QUARTO – Permanecendo a inadimplência total ou parcial o contrato será rescindido.

PARÁGRAFO QUINTO – No caso do parágrafo quarto, será expedida notificação à CONTRATADA para apresentar prévia defesa, no prazo de 05 (cinco) dias úteis, para dar início ao procedimento de rescisão contratual e de aplicação da penalidade de suspensão temporária de participação em licitação e impedimento de contratar com a PMBP, pelo prazo de 01 (um) ano.

### **CLÁUSULA NONA: CONDIÇÕES DE PAGAMENTO**





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A CONTRATANTE deverá pagar à CONTRATADA, mediante adimplemento do cumprimento com a declaração de recebimento da execução do objeto, devidamente atestada pelo (s) agente (s) competente (s) e diretamente na conta corrente: nº \_\_\_\_\_, agência: \_\_\_\_\_, banco: \_\_\_\_\_, de titularidade da CONTRATADA.

PARÁGRAFO PRIMEIRO – Considera-se adimplemento o cumprimento da prestação com a entrega do objeto, devidamente atestado pelo (s) agente (s) competente (s).

PARÁGRAFO SEGUNDO – A CONTRATADA deverá encaminhar a fatura para pagamento a PMBP, acompanhada de comprovante de recolhimento mensal do FGTS e INSS.

PARÁGRAFO TERCEIRO – O pagamento será realizado no prazo de 30 (trinta) dias, a contar da data final do período de adimplemento de cada parcela e somente será autorizado após a declaração de recebimento da execução do objeto, mediante atestação.

PARÁGRAFO QUARTO – Caso se faça necessária à reapresentação de qualquer nota fiscal por culpa da CONTRATADA, o prazo de 30 (trinta) dias ficará suspenso, prosseguindo a sua contagem a partir da data da respectiva reapresentação.

PARÁGRAFO QUINTO – Os pagamentos eventualmente realizados com atraso, desde que não decorram de ato ou fato atribuível à CONTRATADA, sofrerão a incidência de atualização financeira pelo IGPM e juros moratórios de 0,5% ao mês, calculado pro rata die, e aqueles pagos em prazo inferior ao estabelecido neste edital serão feitos mediante desconto de 0,5% ao mês pro rata die.

PARÁGRAFO SEXTO – A CONTRATADA deverá emitir a Nota Fiscal Eletrônica – NF-e, consoante o Protocolo ICMS 42, de 3 de julho de 2009, com a redação conferida pelo Protocolo ICMS 85, de 9 de julho de 2010, e caso seu



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estabelecimento estiver localizado no Estado do Rio de Janeiro deverá observar a forma prescrita no § 1º, alíneas a, b, c e d, do art. 2º da Resolução SER 047/2003.

PARÁGRAFO SÉTIMO – Caso a contratada não esteja aplicando o regime de cotas de que trata a alínea p, da cláusula quarta, suspender-se-á o pagamento devido, até que seja sanada a irregularidade apontada pelo órgão de fiscalização do contrato

PARÁGRAFO OITAVO – Tratando-se de mão de obra alocada exclusivamente no contrato, decorrido o prazo de 12 (doze) meses da data do orçamento a que essa proposta se referir, assim entendido o acordo, convenção ou dissídio coletivo de trabalho, vigente à época da apresentação da proposta de licitação, poderá a CONTRATADA fazer jus ao reajuste do valor contratual referente aos custos decorrentes de mão de obra, se estes estiverem vinculados às datas-bases dos referidos instrumentos, aplicando-se o índice que tiver sido homologado, quando for o caso, na forma do que dispõe o art. 40, XI, da Lei n.º 8.666/93.

PARÁGRAFO NONO - A anualidade dos reajustes será sempre contada a partir da data da proposta.

PARÁGRAFO DÉCIMO - Os reajustes serão precedidos de requerimento da CONTRATADA, acompanhada de demonstração analítica da alteração dos custos, por meio de apresentação da planilha de custos e formação de preços e do novo acordo, convenção ou dissídio coletivo que fundamenta o reajuste.

PARÁGRAFO DÉCIMO PRIMEIRO – É vedada a inclusão, por ocasião do reajuste, de benefícios não previstos na proposta, exceto quanto se tornarem obrigatórios por força de instrumento legal, sentença normativa, acordo, convenção coletiva ou dissídio.

PARÁGRAFO DÉCIMO SEGUNDO – Na ausência de lei federal, acordo, convenção ou dissídio coletivo de trabalho, o reajuste contratual poderá derivar de



lei que fixe novo piso salarial para a categoria, nos moldes da Lei Complementar nº 103/2000.

PARÁGRAFO DÉCIMO TERCEIRO - O preço dos demais insumos poderá ser reajustado após 12 (doze) meses da data da apresentação da proposta, de acordo com o Índice Oficial do Governo (IPCA-M DA FGV), que deverá retratar a variação efetiva dos insumos utilizados na consecução do objeto contratual, na forma do que dispõe o art. 40, XI, da Lei n.º 8.666/93 .

PARÁGRAFO DÉCIMO QUARTO - As partes convencionam que o prazo decadencial para o Contratado solicitar o pagamento do reajuste contratual, que deverá ser protocolizado na Unidade Protocoladora do órgão contratante, é de 60 (sessenta) dias, contados da publicação do índice ajustado contratualmente, sob pena de decair o seu respectivo direito de crédito, nos termos do art. 211, do Código Civil.

#### **CLÁUSULA DÉCIMA: DA ALTERAÇÃO DO CONTRATO**

O presente contrato poderá ser alterado, com as devidas justificativas, nas hipóteses previstas no artigo 65, da Lei nº 8.666/93.

#### **CLÁUSULA DÉCIMA PRIMEIRA: DA RESCISÃO**

O presente contrato poderá ser rescindido por ato unilateral do **CONTRATANTE**, pela inexecução total ou parcial do disposto na cláusula quarta ou das demais cláusulas e condições, nos termos dos artigos 77 e 80 da Lei n.º 8.666/93, sem que caiba à **CONTRATADA** direito a indenizações de qualquer espécie.

**PARÁGRAFO PRIMEIRO** – Os casos de rescisão contratual serão formalmente motivados nos autos do processo administrativo, assegurado a **CONTRATADA** o direito ao contraditório e a prévia e ampla defesa.

**PARÁGRAFO SEGUNDO** – A declaração de rescisão deste contrato, independentemente da prévia notificação judicial ou extrajudicial, operará seus



efeitos a partir da assinatura com posterior publicação no **Boletim Oficial Eletrônico (BOE)**.

**PARÁGRAFO TERCEIRO** – Na hipótese de rescisão administrativa, além das demais sanções cabíveis, a Administração poderá:

- a) reter, a título de compensação, os créditos devidos à contratada e cobrar as importâncias por ela recebidas indevidamente;
- b) cobrar da contratada multa de 10% (dez por cento), calculada sobre o saldo reajustado dos serviços não executados e;
- c) cobrar indenização suplementar se o prejuízo for superior ao da multa.

**CLÁUSULA DÉCIMA SEGUNDA: DAS SANÇÕES ADMINISTRATIVAS E DEMAIS PENALIDADES**

A inexecução dos serviços, total ou parcial, a execução imperfeita, a mora na execução ou qualquer inadimplemento ou infração contratual, sujeitará o contratado, sem prejuízo da responsabilidade civil ou criminal que couber, às seguintes penalidades, que deverá(ão) ser graduada(s) de acordo com a gravidade da infração:

- a) advertência;
- b) multa administrativa;
- c) suspensão temporária da participação em licitação e impedimento de contratar com a Administração Pública;
- d) declaração de inidoneidade para licitar e contratar com a Administração Pública.

**Parágrafo Primeiro** - A sanção administrativa deve ser determinada de acordo com a natureza e a gravidade da falta cometida.

**Parágrafo Segundo** - Quando a penalidade envolver prazo ou valor, a natureza e a gravidade da falta cometida também deverão ser considerados para a sua fixação.



**Parágrafo Terceiro** - A imposição das penalidades é de competência exclusiva do órgão licitante, devendo ser aplicada pela autoridade competente, na forma abaixo descrita:

- d)** a advertência e a multa, previstas nas alíneas a e b, do *caput*, serão impostas pelo Exm<sup>o</sup>. Senhor Ordenador de Despesa;
- e)** a suspensão temporária da participação em licitação e impedimento de contratar com a Administração, prevista na alínea c, do *caput*, será imposta pelo próprio Exm<sup>o</sup>. Senhor Prefeito ou pelo Ordenador de Despesa;
- f)** a aplicação da sanção prevista na alínea d, do *caput*, é de competência exclusiva do Exm<sup>o</sup> Senhor Prefeito.

**Parágrafo Quarto** - A multa administrativa, prevista na alínea b, do *caput*:

- a)** corresponderá ao valor de até 5% (cinco por cento) sobre o valor do Contrato, aplicada de acordo com a gravidade da infração e proporcionalmente às parcelas não executadas;
- b)** poderá ser aplicada cumulativamente a qualquer outra;
- c)** não tem caráter compensatório e seu pagamento não exime a responsabilidade por perdas e danos das infrações cometidas;
- d)** deverá ser graduada conforme a gravidade da infração;
- e)** nas reincidências específicas, deverá corresponder ao dobro do valor da que tiver sido inicialmente imposta, observando-se sempre o limite de 20% (vinte por cento) do valor do contrato ou do empenho.



**Parágrafo Quinto** - Dentre outras hipóteses, a pena de advertência será aplicada à **CONTRATADA** quando não apresentada a documentação exigida nos **parágrafos Segundo e Terceiro da Cláusula Oitava**, no prazo de 10 (dez) dias da sua exigência, o que configura a mora.

**Parágrafo Sexto** - A suspensão temporária da participação em licitação e impedimento de contratar com a Administração Pública, prevista na alínea c, do *caput*.

**a)** não poderá ser aplicada em prazo superior a 02 (dois) anos;

**b)** sem prejuízo de outras hipóteses, deverá ser aplicada quando o adjudicatário faltoso, sancionado com multa, não realizar o depósito do respectivo valor, no prazo devido;

**c)** será aplicada, pelo prazo de 01 (um) ano, conjuntamente à rescisão contratual, no caso de descumprimento total ou parcial do objeto, configurando inadimplemento, na forma prevista no **parágrafo quarto**, da **Cláusula Oitava**.

**Parágrafo Sétimo** - A Declaração de Inidoneidade para licitar e contratar com a Administração Pública, prevista na alínea d, do *caput*, perdurará pelo tempo em que os motivos determinantes da punição ou até que seja promovida a reabilitação perante a própria autoridade que aplicou a penalidade, que será concedida sempre que o contratado ressarcir a Administração Pública pelos prejuízos causados.

**Parágrafo Oitavo** - A reabilitação referida pelo parágrafo sétimo poderá ser requerida após 02 (dois) anos de sua aplicação.

**Parágrafo Nono** - O atraso injustificado no cumprimento das obrigações contratuais sujeitará a **CONTRATADA** à multa de mora de 1% (um por cento) por dia útil que exceder o prazo estipulado, a incidir sobre o valor do contrato, da nota de empenho ou do saldo não atendido, respeitado o limite do art. 412 do Código



Civil, sem prejuízo da possibilidade de rescisão unilateral do contrato pela **CONTRATANTE** ou da aplicação das sanções administrativas.

**Parágrafo Décimo** - A aplicação de sanção não exclui a possibilidade de rescisão administrativa do Contrato, garantido o contraditório e a defesa prévia.

**Parágrafo Décimo Primeiro** - A aplicação de qualquer sanção será antecedida de intimação do interessado que indicará a infração cometida, os fatos e os fundamentos legais pertinentes para a aplicação da penalidade, assim como a penalidade que se pretende imputar e o respectivo prazo e/ou valor, se for o caso.

**Parágrafo Décimo Segundo** - Ao interessado será garantido o contraditório e a defesa prévia.

**Parágrafo Décimo Terceiro** - A intimação do interessado deverá indicar o prazo e o local para a apresentação da defesa.

**Parágrafo Décimo Quarto** - A defesa prévia do interessado será exercida no prazo de 05 (cinco) dias úteis, no caso de aplicação das penalidades previstas nas alíneas a, b e c, do *caput*, e no prazo de 10 (dez) dias, no caso da alínea d.

**Parágrafo Décimo Quinto** - Será emitida decisão conclusiva sobre a aplicação ou não da sanção, pela AUTORIDADE COMPETENTE, devendo ser apresentada a devida motivação, com a demonstração dos fatos e dos respectivos fundamentos jurídicos.

**Parágrafo Décimo Sexto**- Os licitantes, adjudicatários e contratantes que forem penalizados com as sanções de suspensão temporária da participação em licitação e impedimento de contratar e a **Declaração de Inidoneidade** para licitar e contratar por qualquer Ente ou Entidade da Administração Federal, Estadual, Distrital e Municipal ficarão impedidos de contratar com a **PMBP** enquanto perdurarem os efeitos da respectiva penalidade.



### **CLÁUSULA DÉCIMA TERCEIRA: DO RECURSO AO JUDICIÁRIO**

As importâncias decorrentes de quaisquer penalidades impostas à **CONTRATADA**, inclusive as perdas e danos ou prejuízos que a execução do contrato tenha acarretado, quando superiores aos créditos que a **CONTRATADA** tenha em face da **CONTRATANTE**, que não comportarem cobrança amigável, serão cobrados judicialmente.

**PARÁGRAFO ÚNICO** – Caso a **CONTRATANTE** tenha de recorrer ou comparecer a juízo para haver o que lhe for devido, a **CONTRATADA** ficará sujeita ao pagamento, principal do débito, dos juros de mora, despesas de processo e honorários de advogado.

### **CLÁUSULA DÉCIMA QUARTA: DA CESSÃO OU TRANSFERÊNCIA**

O presente contrato não poderá ser objeto de cessão ou transferência no todo ou em parte, a não ser com prévio e expresso consentimento do **CONTRATANTE** e sempre mediante instrumento próprio, devidamente motivado, a ser publicado no **Boletim Oficial Eletrônico (BOE)**.

**PARÁGRAFO PRIMEIRO** – O cessionário ficará sub-rogado em todos os direitos e obrigações do cedente e deverá atender a todos os requisitos de habilitação estabelecidos no instrumento convocatório e legislação específica.

**PARÁGRAFO SEGUNDO** – Mediante despacho específico e devidamente motivado, poderá a Administração consentir na cessão do contrato, desde que esta convenha ao interesse público e o cessionário atenda às exigências previstas no edital da licitação, nos seguintes casos:

I - quando ocorrerem os motivos de rescisão contratual previstos nos incisos I a IV e VIII a XII do artigo 83 do Decreto nº 3.149/1980;





II - quando tiver sido dispensada a licitação ou esta houver sido realizada pelas modalidades de convite ou tomada de preços.

PARÁGRAFO TERCEIRO: Em qualquer caso, o consentimento na cessão não importa na quitação, exoneração ou redução da responsabilidade, da cedente-**CONTRATADA** perante a **CONTRATANTE**.

#### **CLÁUSULA DÉCIMA QUINTA: DO INADIMPLEMENTO**

Constitui cláusula de essencial do presente contrato, de observância obrigatória por parte da **CONTRATADA**, a impossibilidade, perante o **CONTRATANTE**, de opor, administrativamente, exceção de inadimplemento, como fundamento para a interrupção unilateral do serviço.

PARAGRAFO ÚNICO: É vedada a suspensão do contrato a que se refere o art. 78, XIV, da Lei nº 8.666/93, pela **CONTRATADA**, sem a prévia autorização judicial.

#### **CLÁUSULA DÉCIMA SEXTA: CONDIÇÕES DE HABILITAÇÃO**

A **CONTRATADA** se obriga a manter, durante toda a execução do contrato, em compatibilidade com as obrigações por ele assumidas, todas as condições de habilitação e qualificação exigidas na licitação.

#### **CLÁUSULA DÉCIMA SÉTIMA: DA PUBLICAÇÃO E CONTROLE DO CONTRATO**

Após a assinatura do contrato deverá seu extrato ser publicado, no **Boletim Oficial Eletrônico (BOE)**, conforme artigo 61, parágrafo único, da Lei Federal 8.666/1993.

#### **CLÁUSULA DÉCIMA OITAVA: DA GARANTIA**

Como garantia para execução do Contrato, a licitante vencedora fornecerá à Prefeitura de Barra do Piraí/RJ, no ato da assinatura do contrato, o valor correspondente a 2% ( dois por cento ) do valor total contratado, ficando a seu



critério optar por uma das modalidades descritas no Art. 56, § 1º, da Lei 8.666/93, atualizada, a saber:

- a) Caução em dinheiro ou em título da dívida pública, emitidos sob a forma escritural, mediante registro em sistema centralizado de liquidação e de custódia autorizado pelo Banco Central do Brasil e avaliados pelos seus valores econômicos, conforme definido pelo Ministério da Fazenda;
- b) Seguro – garantia;
- c) Fiança bancária;

Os depósitos para garantia das obrigações decorrentes da execução do contrato, quando em dinheiro, serão obrigatoriamente efetuados em Conta Corrente, específica para tal fim a ser informada pela Secretaria da Fazenda, devendo o comprovante do depósito ser entregue no ato da assinatura do contrato. No caso da licitante vencedora optar por outra forma de garantia, o documento será entregue na Tesouraria da Prefeitura de Barra do Piraí para registro e guarda.

#### **CLÁUSULA DÉCIMA NONA: DO FORO DE ELEIÇÃO**

Fica eleito o Foro do Município de Barra do Piraí-RJ, Comarca do Município, para dirimir qualquer litígio decorrente do presente contrato que não possa ser resolvido por meio amigável, com expressa renúncia a qualquer outro, por mais privilegiado que seja.

E, por estarem assim acordes em todas as condições e cláusulas estabelecidas neste contrato, firmam as partes o presente instrumento em **05 (cinco) vias** de igual forma e teor, depois de lido e achado conforme, em presença de testemunhas abaixo firmadas.

Barra do Piraí, em \_\_\_\_\_ de \_\_\_\_\_ de \_\_\_\_\_.

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**Juberto Folena de Oliveira Junior**



**PREFEITURA MUNICIPAL DE BARRA DO PIRAI**  
**SECRETARIA MUNICIPAL DE SERVIÇO PÚBLICO**

SERVIÇO PÚBLICO MUNICIPAL

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Secretario Municipal de Saúde

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REPRESENTANTE

Testemunha: \_\_\_\_\_ CPF: \_\_\_\_\_

Testemunha: \_\_\_\_\_ CPF: \_\_\_\_\_



**ANEXO VI - MODELO DE DECLARAÇÃO DE CONDIÇÃO DE ME OU EPP**

**DECLARAÇÃO  
ME/EPP**

Declaro, sob as penas da Lei, que cumpro os requisitos estabelecidos no artigo 3º da Lei Complementar nº 123, de 14 de dezembro de 2006 e nº 147, de 07 de Agosto de 2014, que essa empresa está apta a usufruir o tratamento favorecido estabelecido nos artigos 42 ao 48 da referida Lei.

**NOME DA EMPRESA:** \_\_\_\_\_

**CNPJ** \_\_\_\_\_

**LOCAL** \_\_\_\_\_

**DATA** \_\_\_\_/\_\_\_\_/\_\_\_\_

(Empresa e assinatura do responsável legal)

**Obs.:** A apresentação desta declaração é obrigatória para as Microempresas e Empresas de Pequeno Porte que desejarem usufruir do tratamento favorecido às mesmas.



**ANEXO VII - MODELO DE DECLARAÇÃO DE EMPREGADOR PESSOA JURÍDICA**

**Ref.: Concorrência Pública nº 002/2017**

A empresa \_\_\_\_\_, inscrito no CNPJ nº \_\_\_\_\_, por intermédio de seu representante legal o (a) Sr(a) \_\_\_\_\_, portador da Carteira de Identidade nº \_\_\_\_\_ e do CPF nº \_\_\_\_\_.

**DECLARA**, para fins do disposto no inciso V do art. 27 da Lei Federal nº 8.666/93, de 21 de junho de 1993, acrescido pela Lei nº 9.854, de 27 de outubro de 1999, que não emprega menor de dezoito anos em trabalho noturno, perigoso ou insalubre e não emprega menor de dezesseis anos.

**Ressalva:** emprega menor, a partir de quatorze anos, na condição de aprendiz( )

.....

data)

.....

...

(representantelegal)

(Observação: em caso afirmativo, assinalar a ressalva acima)

**A Declaração em epígrafe deverá ser apresentada em papel timbrado da licitante e estar assinada pelo representante legal da empresa.**



**ANEXO VIII – MODELO DECLARAÇÃO DE REQUISITOS DE HABILITAÇÃO**

**MODELO DE DECLARAÇÃO DE ATENDIMENTO AOS REQUISITOS DE HABILITAÇÃO**

A empresa \_\_\_\_\_, com sede na \_\_\_\_\_, C.N.P.J. nº \_\_\_\_\_, por intermédio de seu representante legal (a) Sr.(a) \_\_\_\_\_, portador(a) da Carteira de Identidade nº \_\_\_\_\_ e do CPF nº \_\_\_\_\_ participante da licitação modalidade **Concorrência Pública n.º 002/2017** referente ao **Processo Administrativo n.º 9222/2017**, declara que atendeu a todas as exigências habilitatórias e que detém capacidades técnico-operacional (instalações, aparelhamento e pessoal) para fornecimento do(s) objeto(s) para o(s) qual(is) apresentamos proposta.

Por ser expressão da verdade, firmamos a presente.

(local) \_\_\_\_\_, \_\_\_ de \_\_\_\_\_ de \_\_\_\_\_.

\_\_\_\_\_  
(assinatura do representante legal da empresa proponente)



**ANEXO IX – MODELO DE DECLARAÇÃO DE INEXISTÊNCIA DE PENALIDADE**

**Modelo de Declaração de Inexistência de Penalidade**

Papel Timbrado da Empresa, dispensa em caso de carimbo com CNPJ

Local e data

Referente a(ao) **Concorrência Pública nº 002/2017**

....., inscrita no CNPJ sob o nº ....., sediada na  
....., neste ato representada pelo seu representante legal, o(a)  
Sr.(a) ....., inscrito(a) no CPF sob o nº ....., portador(a)  
da cédula de identidade nº ....., expedida por .....,  
**DECLARA**, sob as penas da Lei, que não foram aplicadas penalidades de  
suspensão temporária da participação em licitação, impedimento de contratar ou  
declaração de inidoneidade para licitar e contratar por qualquer Ente ou Entidade  
da Administração Federal, Estadual, Distrital e Municipal cujos efeitos ainda  
vigorem.

Barra do Piraí-RJ, ..... de ..... de \_\_\_\_\_.

.....  
(Assinatura do representante legal)



**ANEXO X – MODELO DE DECLARAÇÃO DE DISPONIBILIDADE**

(Local e data)

À

Prefeitura de Barra do Piraí

A/C – Comissão Permanente de Licitação

Referência: Processo nº 9222/2017 –Concorrência nº 002/2017

Prezada Senhores,

A empresa \_\_\_\_\_, inscrita no **CNPJ** sob o Nº \_\_\_\_\_, neste ato representada por \_\_\_\_\_ (**nome, qualificação: nacionalidade, estado civil, cargo ocupado na empresa**), em atendimento ao disposto no Edital de Licitação, na modalidade de **Concorrência nº 002/2017**, **Declara** que tem disponibilidade de máquinas equipamentos e pessoal técnico, devidamente capacitados, para a execução dos serviços pertinente ao objeto da licitação, para a adequada realização dos serviços.

Atenciosamente.

\_\_\_\_\_  
Representante Legal da Licitante

Nota: Declaração a ser emitida em papel timbrado, de forma que identifique a proponente.





**ANEXO XI - MODELO DE DECLARAÇÃO DE CONCORDÂNCIA COM OS  
TERMOS DO EDITAL**

(Local e data)

A

Prefeitura de Barra do Piraí

A/C Comissão Permanente de Licitação

Referência: Concorrência Pública nº 002/2017

Prezados Senhores,

A empresa \_\_\_\_\_, inscrita no CNPJ sob o nº \_\_\_\_\_, neste ato representada por \_\_\_\_\_ (nome, qualificação: nacionalidade, estado civil, cargo ocupado na empresa), em atendimento ao disposto no Edital da Concorrência Pública nº 002/2017, vem perante Vossas Senhorias declarar que aceita todas as condições do Edital e que tem pleno conhecimento de todas as especificações técnicas necessárias à execução da prestação de serviços.

Atenciosamente,

\_\_\_\_\_  
Representante Legal da Licitante

- Declaração a ser emitida em papel timbrado, de forma que identifique a proponente.



Prefeitura Municipal de Barra do Piraí  
Secretaria Municipal de Administração  
Comissão Permanente de Licitação

## RECIBO

### COMISSÃO PERMANENTE DE LICITAÇÃO

### CONCORRÊNCIA PÚBLICA Nº 002/2017

Nome da Empresa: \_\_\_\_\_

Endereço: \_\_\_\_\_

Bairro: \_\_\_\_\_ Município \_\_\_\_\_

Tel: \_\_\_\_\_

Email: \_\_\_\_\_

Retirei o Edital e seus anexos referentes à Licitação na modalidade CONCORRÊNCIA PÚBLICA nº 002/2017 a realizar-se na Travessa Assumpção, nº 69 – Centro - Barra do Piraí - RJ, sala de Reunião, conforme abaixo:

Processo nº 9222/2017

Data da Realização: 25/03/2019

Horário: 14:00 hs

Barra do Piraí, \_\_\_\_/\_\_\_\_/\_\_\_\_

\_\_\_\_\_  
*Assinatura e carimbo  
com CNPJ da empresa*