



IX GOVERNO CONSTITUCIONAL
MINISTÉRIO DO PLANEAMENTO E INVESTIMENTO ESTRATÉGICO
FUNDO DAS INFRAESTRUTURAS



Conselho de Administração

DELIBERASAUN N. 125/IX/CAFI/2025

Conselho de Administração do Fundo das Infraestruturas – CAFI, bazeia ba artigo 10º (1) e (3) DL Nº. 25/2024, de 22 de maio, Primeira Alteração ao DL Nº.13/2016, 18 de Maio, realiza reuniaun extraordinária iha loron Quinta-feira, 25 de Setembro de 2025, e halo deliberasaun ba assunto tuir mai ne’ e:

Asuntu: Pedido Aprovasaun no autorizasaun CAFI ba Projetu hanesan tuir mai:

- 1) Rehabilitation of Road and Drainagem Aldeia Aimeti Laran and Beco Aidit Kulit (1.109Km);
- 2) Road Improvment Section 1: Hatudo – Ainaro Urban Road, L= 21.795, Municipality of Ainaro;
- 3) Upgrading and Maintenance of Aituto – Hatubuilico Road Project Contrct Package 1: Aituto – Hatubuilico Section Sta. 0+000 – Sta. 11+900;

Proponente: Ministério das Obras Publicas – MOP

Analise:

- Bazeia ba despacho husi Ministro MPIE ho karta no. Ref.: 1420/CG-GMPIE/IX/2025, data 9 de setembro de 2025, ba pedidu husi Ministro das Obras Publicas karta ho no. Ref.: 1765/GAB.MOP/IX/2025, data 9 de setembro de 2025, ho asuntu: Pedidu Ajendamentu CAFI;
- SGP simu karta husi Ministro das Obras Publicas ho no. Ref.: 1765/GAB.MOP/IX/2025, data 9 de setembro de 2025, ho asuntu: Pedidu Ajendamentu CAFI;
- Desizaun kona ba abertura ka inisiasaun prosesu aprvisionamentu bazeia, Artigo 24 & 25, Decreto Lei No.43/2024, de 20 de Dezembro, regra ezekusaun OGE 2025;
- DL Nº. 25/2024, de 22 de maio, Primeira Alteração ao DL Nº.13/2016, 18 de Maio, kona ba Regulamentu Fundo da Infraestrutura, determina katak aprovisionamento projetu FI nian sei lao tuir Regime Juridiku Aprovizionamento em vigor. Modalidade aprovisionamento sei lao tuir Regime Juridiku Aprovizionamento em vigor;
- Projetu nain sei assume responsabilidade hodi assegura orsamentu ba Ezekusaun no Implementasaun projetu;
- Projetu nain sei asume responsabilidade ba koordenasaun entre entidade relevantes ba implementasaun projetu ne’ e, e ba supervizaun, monitorizaun e akompanhamentu ba projetu ne’ e iha faze implementasaun, e sei garante kualidade servisu konstrusaun nian tuir espesifikasiuna nebe aprova ona;

DELIBERASAUN N.º125/IX/CAFI/2025



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Lista Proposta

| No. | Naran Projetu | Resultadu Verifikasi saun ADN,I.P./referensi | Alokasaun Orsamentu FI / kodigu atividade |
|-----|---|--|---|
| 1 | Rehabilitation of Road and Drainagem Aldeia Aimeti Laran and Beco Aidit Kulit (1.109Km); | \$1,590,240.02 | <ul style="list-style-type: none"> • Alokasaun FI 2025 : \$ 0; • Programa 026: Estradas e Pontes, Sub-Programa Pontes; • Kodigo atividade 02605B4: Rehabilitasaun estrada Urbana Dili B, 26.9 Km |
| 2 | <i>Road Improvement Section 1: Hatudo – Ainaro Urban Road, L= 21.795, Municipality of Ainaro</i> | 17,957,591.45 | <ul style="list-style-type: none"> • Alokasaun FI 2025 : \$ 500,000.00 • Programa 026: Estradas e Pontes, Sub-Programa Pontes; • Kodigo atividade 02605A4: Rehabilitasaun Estrada Municipal,Hatuudo - Ainaro (Ainaro) C23 (25.02) |
| 3 | <i>Upgrading and Maintenance of Aituto – Hatubuilico Road Project Contract Package 1: Aituto – Hatubuilico Section Sta. 0+000 – Sta. 11+900</i> | \$18,663,577.34 | <ul style="list-style-type: none"> • Alokasaun FI 2025 : \$ 500,000.00 • Programa 026: Estradas e Pontes, Sub-Programa Pontes; • Kodigo atividade 02605F8: Upgrading and Maintenance of Aituto - Hatubuilico Roads Project Package I: Aituto - Hatubuilico Section Sta0+000 to 11+900 Municipio Ainaro) |

Rekomendasau:

- 1) CAFI atu aprova no autoriza despezas no kustu total projetu nune'e mos konfirma finasiamentu iha FI tinan 2025, bazeia ba pedidu husi Ministério das Obras Publicas - MOP;
- 2) Refere ba lista no.1 CAFI konfirma disponibilidade Orsamentu iha FI tinan 2025 no autoriza despezas bazeia alinea 1 (b) Artigo 5º Dekreto Lei 23/2022, de 19 de Maio, Competência Para a Autorização de Despesa;
- 3) Refere ba lista no.2 & no.3 CAFI konfirma disponibilidade orsamentu iha FI tinan 2025, molok CdM autoriza despezas bazeia alinea 1 (a) Artigo 5º Dekreto Lei 23/2022, de 19 de Maio, Competência Para a Autorização de Despesa;
- 4) Desizaun kona ba abertura ka inisiasaun prosesu aprovisionamentu bazeia, Artigo 24 & 25, Decreto Lei No.43/2024, de 20 de Dezembro, regra ezekusaun OGE 2025;
- 5) DL No. 25/2024, de 22 de maio, Primeira Alteração ao DL No.13/2016, 18 de Maio, kona ba Regulamentu Fundo da Infraestrutura, determina katak aprovisionamento projetu FI nian sei lao tuir Regime Juridiku Aprovizionamento em vigor;



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- 6) Modalidade aprovisionamento sei lao tuir Regime Juridiku Aprovizionamento em vigor, (Decreto-Lei No.22/2022 de 11 de Maio);
- 7) Decreto-Lei No. 22/2022 de 11 de Maio, o regime jurídico do aprovisionamento, dos contratos públicos e das respectivas infracções, artigo 42º Regras Espesias, desizaun kona ba modalidade aprovisionamentu determina bazeia ba kustu projetu no justifikasaun tekniku no legal husi MOP hanesan entidade adjudikante;
- 8) Dono do projeto sei assume responsabilidade hodi assegura orsamentu ba, Ezekusaun no Implementasaun projeto;
- 9) Projetu nain sei assume responsabilidade ba koordenasau entre entidade relevantes ba implementasaun projeto ne'e, e ba supervisaun, monitorizasaun e akompanhamentu ba projeto ne'e iha faze implementasaun, e sei garante kualidade servisu konstrusaun nian tuir espesifikasiunaun nebe aprova ona;

Desizaun:

1. CAFI aprova no autoriza despezas no kustu total projeto nune'e mos konfirma finasiamentu iha FI tinan 2025, bazeia ba pedidu husi Ministério das Obras Publicas - MOP;
2. Refere ba lista no.1 CAFI konfirma disponibilidade Orsamentu iha FI tinan 2025 no autoriza despezas bazeia alinea 1 (b) Artigo 5º Dekreto Lei 23/2022, de 19 de Maio, Competência Para a Autorização de Despesa;
3. Refere ba lista no.2 & no.3 CAFI konfirma disponibilidade orsamentu iha FI tinan 2025, molok CdM autoriza despezas bazeia alinea 1 (a) Artigo 5º Dekreto Lei 23/2022, de 19 de Maio, Competência Para a Autorização de Despesa;
4. Desizaun kona ba abertura ka inisiasiun prosesu aprovisionamentu bazeia, Artigo 24 & 25, Decreto Lei No.43/2024, de 20 de Dezembro, regra ezekusaun OGE 2025;
5. DL No. 25/2024, de 22 de maio, Primeira Alteração ao DL No.13/2016, 18 de Maio, kona ba Regulamentu Fundo da Infraestrutura, determina katak aprovisionamento projeto FI nian sei lao tuir Regime Juridiku Aprovizionamento em vigor;
6. Modalidade aprovisionamento sei lao tuir Regime Juridiku Aprovizionamento em vigor, (Decreto-Lei No.22/2022 de 11 de Maio);
7. Decreto-Lei No. 22/2022 de 11 de Maio, o regime jurídico do aprovisionamento, dos contratos públicos e das respectivas infracções, artigo 42º Regras Espesias, desizaun kona ba modalidade aprovisionamentu determina bazeia ba kustu projetu no justifikasaun tekniku no legal husi MOP hanesan entidade adjudikante;
8. Projetu nain sei assume responsabilidade hodi assegura orsamentu ba, Ezekusaun no Implementasaun projeto;

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9. Projeto nain sei assume responsabilidade ba koordenasaun entre entidade relevantes ba implementasaun projeto ne'e, e ba supervizaun, monitorizasaun e akompanhamentu ba projeto ne'e iha faze implementasaun, e sei garante kualidade servisu konstrusaun nian tuir espesifikasiasaun nebe aprova ona;

10. Lista aprovasaun CAFI:

| No. | Naran Projetu | Resultadu Verifikasiasaun ADN,I.P. | Alokasaun Orsamentu FI / kodigu atividade | Orgaun Kompetênti - DL No. 23/2022, 19 de Maio |
|-----|---|--|--|--|
| 1 | Rehabilitation of Road and Drainagem Aldeia Aimeti Laran and Beco Aidit Kulit (1.109Km); | \$1,590,240.02 | <ul style="list-style-type: none"> Alokasaun FI 2025 : \$ 0; Programa 026: Estradas e Pontes, Sub-Programa Pontes; Kodigo atividade 02605B4: <i>Reabilitasaun estrada Urbana Dili B, 26.9 Km)</i> | <ul style="list-style-type: none"> CAFI : Konfirmasasaun Finansiamentu; CAFI: alinea 1 (b) Artigo Artigo 5.^o Competência para a autorização da despesa. |
| 2 | <i>Road Improvement Section 1: Hatudo – Ainaro Urban Road, L=</i> <i>21.795, Municipality of Ainaro</i> | \$17,957,591.45 | <ul style="list-style-type: none"> Alokasaun FI 2025 : \$ 500,000.00 Programa 026: Estradas e Pontes, Sub-Programa Pontes; Kodigo atividade 02605A4: <i>- Rehabilitasaun Estrada Municipal,Hatuudo - Ainaro (Ainaro) C23 (25.02)</i> | <ul style="list-style-type: none"> CAFI : Konfirmasasaun Finansiamentu; CdM: alinea 1 (a) Artigo Artigo 5.^o Competência para a autorização da despesa. |
| 3 | Upgrading and Maintenance of Aituto – Hatuubilico Road Project Contract Package 1: Aituto – Hatuubilico Section Sta. 0+000 – Sta. 11+900 | \$18,663,577.34 | <ul style="list-style-type: none"> Alokasaun FI 2025 : \$ 500,000.00 Programa 026: Estradas e Pontes, Sub-Programa Pontes; Kodigo atividade 02605F8: <i>Upgrading and Maintenance of Aituto - Hatuubilico Roads Project Package I: Aituto - Hatuubilico Section Sta0+000 to 11+900 Municipio Ainaro</i> | <ul style="list-style-type: none"> CAFI : Konfirmasasaun Finansiamentu; CdM: alinea 1 (a) Artigo Artigo 5.^o Competência para a autorização da despesa. |

✓ ✓ ✓

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FUNDO DAS INFRAESTRUTURAS



Conselho de
Administração

Aprovado husi CAFI iha loron 25 de Setembro de 2025.

O Conselho de Administração do Fundo das Infraestruturas
O presidente,



Gastão Francisco de Sousa

Ministro do Planeamento e Investimento Estratégico

Santina José Rodrigues Ferreira Viegas Cardoso

Ministra das Finanças

(La Partisipa iha Reuniaun)



Miguel Marques Gonçalves Manetelu

Ministro dos Transportes e Comunicações



Samuel Marçal

Ministro das Obras Públicas

DELIBERASAUN N.º125/IX/CAFI/2025



IX GOVERNO CONSTITUCIONAL
MINISTÉRIO DO PLANEAMENTO E INVESTIMENTO ESTRATÉGICO
FUNDO DAS INFRAESTRUTURAS



**Conselho de
Administração**

Annexo:



REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE
Ministério do Planeamento e Investimento Estratégico
Fundo das Infraestruturas

NOTA DE DESPAICHO

1. ORIGEM DO DOCUMENTO

N Ref; 1420/CG-GMPIE/IX/2025

Data do Documento : 09 / 09 /2025

Proveniência do Documento

CG-GMPIE

2. DETALHES DO DOCUMENTO

Data Entrada do Documento: 10 / 9 /2025

Enviado ao

1. Sr/ Mauricio Borges
2. Sr/a _____
3. Sr/a _____
4. Assessores Nacionais / Internacionais

Assunto:

Encaminha Despacho Ministro MPIE kona-ba karta ho Ref No. 1765/GAB.MOP/IX/2025, data data de Setembro de 2025 husi Exelencia Ministro das Obras Publicas ho assunto Pedido Agendaento CAFI

3. INSTRUÇÃO DO DIRETOR DO SGP

Data do Despacho: 10/9/2025

Para Sr/a

1. Sr/a Marcos X
2. Sr/a José X
3. Sr/a _____

Despacho:

Mauricio Borges C. Lopes

Assinatura :

Mauricio Borges



**MINISTÉRIO DO PLANEAMENTO
E INVESTIMENTO ESTRATÉGICO
IX GOVERNO CONSTITUCIONAL
GABINETE DO MINISTRO**



Dili, 9 de Setembro de 2025
Nu. Ref : 1420/CG-GMPIE/IX/2025

Hato'ba : Diretor SGP
Senhor Mauricio Borges

Assunto : Encaminha Despacho Ministro MPIE

Ho Respeito,

Konforme assunto iha leten, Gabinete do Ministro encaminha Despacho Ministro MPIE kona ba karta ho Ref No: I765/GAB.MOP//IX/2025, data 9 de Setembro de 2025 husi Excelencia Ministro das Obras Públicas ho assunto Pedido Agendamento CAFI. Despacho Ministro MPIE hakerek iha kraik no anexo iha kotuk.

Despacho Ministro MPIE : Para, SGP – MPIE

Agendar

Data Despacho : 09.09.2025

Ba atensaun no kolabarasaun lahaluha hato'obrigado wain.

Hau nia melhores Cumprimentos

Tomás de Fatima da Silva
Chefe Gabinete do Ministro-MPIE

Pela

Ester do Rosário de Sousa
Chefe Gabinete do Ministro MPIE-Interina



REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE
IX GOVERNO CONSTITUCIONAL
MINISTÉRIO DAS OBRAS PÚBLICAS
Avenida 20 de Maio Dili, Timor -Leste

S6P



GABINETE DO MINISTRO DAS OBRAS PÚBLICAS

Dili, 09 de Setembro de 2025

Ref No : 1765/GAB.MOP/IX/2025

Hatoó ba : Sua Exceléncia Sr. Gastão Francisco de Sousa
Ministro do Planeamento e Investimento Estratégico e Presidente CAFI

Cc : Sr. Mauricio Borges
Director Secretariado dos Grandes Projectos (SGP)

Asunto : Pedido Agendamento CAFI

Excelência,

Refere ba asuntu iha leten, Ministerio das Obras Públicas hato'o ba Sua Exceléncia hodi bele agenda iha reuniaun Conselho de Administração do Fundo das Infraestruturas (CAFI) tuir mai ba projetu hanesan lista aneksu.

Nudar informasaun, projetu hirak ne'e hetan ona verifikasiadaun husi Agência Desenvolvimento Nacional, IP (ADN, IP). (*Kopia resultadu verifikasiadaun ADN, IP aneksu*)

Maka ne'e deit, Exceléncia nia atensaun no serviso hamutuk la haluha hato'o obrigado wain.



Samuel Marçal
Ministro das Obras Públicas

GABINETE DO
Ministro do Planeamento e
Investimento Estratégico

RECIDIDO
DIA 09/09/2025
POR Hilario 2225



REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE
IX GOVERNO CONSTITUCIONAL
MINISTÉRIO DAS OBRAS PÚBLICAS

Avenida 20 de Maio Dili, Timor -Leste



LISTA PROJETU FUNDO DE INFRAESTRUTURA MINISTERIO DAS OBRAS PUBLICAS
NE'EBE HETAN ONA VERIFIKASAUN HUSI ADN, I.P.

| NO. | MUNICIPIO | NARAN PROJETO | MONTANTE ORSAMENTO | OBSERVASAUN |
|-----|-----------|---|-----------------------|---|
| 1 | Dili | Rehabilitation of Roads and Drainage Aldeia Aimeti Laran and Beco Aidit Kulit (1.109 km) | \$ 1,590,240.02 | Projetu foun ne'ebe tama iha planu projetu FI Ministerio das Obras Publicas tinan 2025 (02605B4 - Rehabilitasaun estrada Urbana Dili B, 26.9 Km) |
| 2 | Ainaro | Road Improvement Section 1 : Hatudo - Ainaro Urban Road, L = 21.795, Municipality of Ainaro | \$ 17,957,591.45 | Projetu foun ne'ebe tama iha planu projetu FI Ministerio das Obras Publicas tinan 2025 (02605A4 - Rehabilitasaun Estrada Municipal, Hatuudo - Ainaro (Ainaro) C23 (25.02)) |
| 3 | Ainaro | Upgrading and Maintenance of Aituto - Hatubuilico Road Project Contract Package 1 : Aituto - Hatubuilico Section Sta. 0+000 - Sta. 11+900 | \$ 18,663,577.34 | Projetu foun ne'ebe tama iha planu projetu FI Ministerio das Obras Publicas tinan 2025 (02605F8- Upgrading and Maintenance of Aituto - Hatubuilico Roads Project Package I: Aituto - Hatubuilico Section Sta0+000 to 11+900 Municipio Ainaro) |
| 4 | Viqueque | Reabilitasaun Seksau Estrada Lokal Ossolekimeta-Edemumu (Sta.00+000.00-09+700.00) | \$ 2,158,469.01 | Projetu emergencia |
| | | | \$ 40,369,877.82 | |



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

SUMMARY

NAME OF PROJECT : Rehabilitation of Roads and Drainage Aldeia Aimeti Laran and Beco Aidit Kulit (1.109 km)

LOCATION OF PROJECT : Aldeia Ai Meti Laran and Beco Aidik Kulit (1.109 km) Municipio Dili

| SECTION NO. | DESCRIPTION | PROPOSED BY OWNER AMOUNT (USD) | VERIFIED BY ADN, I.P. AMOUNT (USD) |
|-------------|--|--------------------------------|------------------------------------|
| 100 | GENERAL REQUIREMENTS | \$ 43.655,68 | \$ 36.682,42 |
| 200 | EARTHWORKS | \$ 58.046,58 | \$ 55.081,89 |
| 300 | SUB BASE AND BASE COURSE | \$ 111.401,18 | \$ 106.324,54 |
| 400 | SURFACE COURSE | \$ 351.398,52 | \$ 325.620,20 |
| 500 | BRIDGE CONSTRUCTION | \$ 231.335,09 | \$ 238.496,06 |
| 600 | DRAINAGE AND SLOPE PROTECTION STRUCTURES | \$ 620.205,02 | \$ 592.452,96 |
| 700 | MISCELLANEOUS STRUCTURES | \$ 62.085,69 | \$ 35.797,24 |
| A | CONSTRUCTION COST | \$ 1.478.127,76 | \$ 1.390.455,31 |
| B | CONTRACTOR PROFIT (10%)*A | \$ 147.812,78 | \$ 139.045,53 |
| C | OVERHEAD | \$ 26.794,10 | \$ 29.558,00 |
| D | TAX 2%*(A+B+C) | \$ 33.054,69 | \$ 31.181,18 |
| E | GRAND TOTAL (A+B+C+D) | \$ 1.685.789,33 | \$ 1.590.240,02 |

Verified by :

(Eng. Mário Gusmão Mendeita)
Engineer Civil, UAP - ADN, I.P.

Checked By:

(Eng. Rogerio Marçal Pires)
Chefe Departamentu, ITIAS, UAP - ADN, I.P.

Certified By:

(Arch. José Fernando Liu Soares)
Coordenador UAP - ADN, I.P.
18/8/25



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

BILL OF QUANTITY

Name of Project : Rehabilitation of Roads and Drainage Aldeia Aimeti Laran and Beco Aidi Kulit (1.109 km)

Location of Project : Aldeia Ai Meti Laran and Beco Aidi Kulit (1.109 km) Municipio Dili

| SECTION NO. | DESCRIPTION | PROPOSED BY OWNER | | | VERIFIED BY ADN, I.P. | | | |
|---|-------------|-------------------|-------------|----------------------|-----------------------|----------|-------------|----------------------|
| | | UNIT | QUANTITY | UNIT COST US\$ | AMOUNT US\$ | UNIT | QUANTITY | UNIT COST US\$ |
| 100 GENERAL REQUIREMENTS | | | | | | | | |
| 102 Mobilization | Ls | 1,00 | \$ 5.025,68 | \$ 5.025,68 | Ls | 1,00 | \$ 5.025,68 | \$ 5.025,68 |
| 102(2) Demobilization | Ls | 1,00 | \$ 2.600,00 | \$ 2.600,00 | Ls | 1,00 | \$ 2.600,00 | \$ 2.600,00 |
| 115(2) Relocation of Existing Electric Utility Pole - Low Voltage | Ea | 10,00 | \$ 2.276,40 | \$ 22.764,00 | Ea | 10,00 | \$ 1.592,03 | \$ 15.920,30 |
| 115(4) Relocation of Existing Water Supply Utility Pipe Diameter 2" | Ln.m. | 1.100,00 | \$ 12,06 | \$ 13.266,00 | Ln.m. | 1.100,00 | \$ 11,94 | \$ 13.136,44 |
| | | | | SUB TOTAL 100 | | | | \$ 36.682,42 |
| 200 EARTHWORKS | | | | | | | | |
| 201(1) Clearing and Grubbing | ha | 0,22 | \$ 2.625,02 | \$ 527,44 | ha | 0,22 | \$ 2.425,02 | \$ 527,44 |
| 202(3a) Removal of Pavement | Sq.m. | 5.474,00 | \$ 1,50 | \$ 8.211,00 | Sq.m. | 5.474,00 | \$ 2,53 | \$ 13.824,25 |
| 202(4a) Removal of Existing Reinforced Concrete | Cu.m. | 33,91 | \$ 17,68 | \$ 599,48 | Cu.m. | 33,91 | \$ 15,93 | \$ 539,99 |
| 202(4b) Removal of Existing Stone Masonry | Cu.m. | 269,32 | \$ 16,06 | \$ 4.325,82 | Cu.m. | 269,32 | \$ 7,25 | \$ 1.951,74 |
| 203(2) Surplus Common Excavation | Cu.m. | 2.683,30 | \$ 4,19 | \$ 11.243,02 | Cu.m. | 2.683,30 | \$ 3,78 | \$ 10.155,97 |
| 204(6) Pipe Culverts and Drain Excavation | Cu.m. | 2.252,80 | \$ 4,42 | \$ 12.167,38 | Cu.m. | 2.252,80 | \$ 4,74 | \$ 13.047,76 |
| 205(1) Common Embankment | Cu.m. | 1.269,00 | \$ 8,03 | \$ 10.190,04 | Cu.m. | 1.269,00 | \$ 2,30 | \$ 2.924,61 |
| 205(2) Selected Embankment | Cu.m. | 506,80 | \$ 11,10 | \$ 5.625,48 | Cu.m. | 506,80 | \$ 13,15 | \$ 6.662,33 |
| 206(2) Subgrade Preparation (Existing Pavement) | Sq.m. | 8.317,60 | \$ 0,62 | \$ 5.156,91 | Sq.m. | 8.317,60 | \$ 0,65 | \$ 5.447,81 |
| | | | | SUB TOTAL 200 | | | | \$ 55.081,89 |
| 300 CRUSHED AGGREGATE BASE COURSE | | | | | | | | |
| 301 Aggregate Subbase Course | Cu.m. | 1.270,80 | \$ 18,84 | \$ 23.941,87 | Cu.m. | 1.270,80 | \$ 14,84 | \$ 18.863,36 |
| 303(1) Aggregate Base Class A | Cu.m. | 1.576,98 | \$ 55,46 | \$ 87.459,31 | Cu.m. | 1576,98 | \$ 55,46 | \$ 87.461,18 |
| | | | | SUB TOTAL 300 | | | | \$ 106.324,54 |
| 400 SURFACE COURSE | | | | | | | | |
| 402 Prime Coat | Sq.m. | 7.308,00 | \$ 1,31 | \$ 9.573,48 | Sq.m. | 7308,00 | \$ 1,34 | \$ 9.772,62 |
| 403 Tack Coat | Sq.m. | 5.388,00 | \$ 0,77 | \$ 4.148,76 | Sq.m. | 5388,00 | \$ 0,80 | \$ 4.283,86 |



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

BILL OF QUANTITY

Name of Project : Rehabilitation of Roads and Drainage Aldeia Aimeti Laran and Beco Audit Kulit (1.109 km)

Location of Project : Aldeia Ai Meti Laran and Beco Audit Kulit (1.109 km) Município Dili

| SECTION NO. | DESCRIPTION | PROPOSED BY OWNER | | | | VERIFIED BY ADN, I.P. | | | |
|--|--|-------------------|-----------|-------------------|-----------------|-----------------------|-----------|-----------------|---------------|
| | | UNIT | QUANTITY | UNIT COST US\$ | AMOUNT US\$ | UNIT | QUANTITY | UNIT COST US\$ | AMOUNT US\$ |
| 411(5a) | Asphaltic Concrete - Wearing Course (AC-WC) 4 Cm | Sq.m. | 5.368,00 | \$ 22,09 | \$ 119.020,92 | Sqm. | 5388,00 | \$ 19,98 | \$ 107.666,43 |
| 411(6a) | Asphaltic Concrete - Binder Course (AC-BC) 6 Cm | Sq.m. | 7.308,00 | \$ 29,92 | \$ 218.655,36 | Sqm. | 7308,00 | \$ 27,90 | \$ 203.897,29 |
| | | | | SUB TOTAL 400 | \$ 351.398,52 | | | | \$ 325.620,20 |
| 500 BRIDGE CONSTRUCTION | | | | | | | | | |
| 505 Reinforcing Steel | Kg | 1.400,82 | \$ 1,87 | \$ 2.619,54 | Kg | 1400,82 | \$ 1,59 | \$ 2.224,51 | |
| 506(l) Structural Concrete, Class A 25 Mpa | Cu.m. | 50,20 | \$ 250,02 | \$ 127.560,20 | Cu.m. | 50,20 | \$ 262,87 | \$ 134.118,08 | |
| 506(l)a Structural Concrete, Class A 30 Mpa | Cu.m. | 255,10 | \$ 255,26 | \$ 67.667,83 | Cu.m. | 255,10 | \$ 276,52 | \$ 70.541,16 | |
| 506(6)b Lean Concrete | Cu.m. | 315,92 | \$ 106,00 | \$ 33.487,52 | Cu.m. | 315,92 | \$ 100,06 | \$ 31.612,31 | |
| | | | | SUB TOTAL 500 | \$ 231.335,09 | | | \$ 238.446,06 | |
| 600 DRAINAGE AND SLOPE PROTECTION STRUCTURES | | | | | | | | | |
| 601(l)a Concrete U Ditch Dim. 0,7 m x 0,7 m x 1 m (include Cover) Class 25 | Ln.m. | 1.783,00 | \$ 230,62 | \$ 411.195,46 | Ln.m. | 1783,00 | \$ 230,62 | \$ 411.192,58 | |
| 601(l)c Concrete U Ditch Dim. 0,4 m x 0,4 m x 1 m (include Cover) Class 25 | Ln.m. | 768,00 | \$ 161,60 | \$ 124.108,80 | Ln.m. | 768,00 | \$ 165,93 | \$ 127.432,10 | |
| 603(6) Metal frames and covers, 600x600x55 mm | Pair | 255,00 | \$ 250,00 | \$ 63.750,00 | Pair | 255,00 | \$ 147,35 | \$ 37.575,36 | |
| 604(4) PVC Pipe 4" dia. | Ln.m. | 143,07 | \$ 12,34 | \$ 1.765,48 | Ln.m. | 143,07 | \$ 8,83 | \$ 1.263,58 | |
| 604(7) Steel Grill | Ea. | 477,00 | \$ 10,64 | \$ 19.385,28 | Ea. | 477,00 | \$ 31,42 | \$ 14.989,34 | |
| | | | | SUB TOTAL 600 | \$ 620.205,02 | | | \$ 592.452,96 | |
| 700 MISCELLANEOUS STRUCTURES | | | | | | | | | |
| 702 Tactile Guiding Block Pedestrial Sidewalk | Sq.m. | 765,30 | \$ 20,57 | \$ 15.818,75 | Sqm. | 765,30 | \$ 21,80 | \$ 16.683,54 | |
| 710 Reflectorized Thermoplastic Pavement Markings | Sq.m. | 440,61 | \$ 30,04 | \$ 13.236,00 | Sqm. | 440,61 | \$ 21,37 | \$ 9.415,81 | |
| SPL Sidewalk Paint | Sq.m. | 2.244,88 | \$ 14,71 | \$ 33.030,94 | Sqm. | 2244,88 | \$ 4,32 | \$ 9.697,88 | |
| | | | | SUB TOTAL 700 | \$ 62.085,69 | | | \$ 35.797,24 | |
| | | | | CONSTRUCTION COST | \$ 1.478.127,76 | | | \$ 1.390.455,31 | |



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

OVERHEAD

Name of Project : Rehabilitation of Roads and Drainage Aldeia Aimetí Laran and Beco Aidit Kulit (1.109 km)

Location of Project : Aldeia Ai Meti Laran and Beco Aidik Kulit (1.109 km) Municipio Dili

| NO | DESKRISAUN | VERIFIED BY ADN, I.P. | | | |
|----------------------------|-------------------------------------|-----------------------|----------|-------------|--------------|
| | | UNIT | QUANTITY | UNIT PRICE | TOTAL |
| I PROJECT TEAM | | | | | |
| 1 | Site Engineer | Ls | 1,00 | \$ 6.000,00 | \$ 6.000,00 |
| 2 | Quality Control | Ls | 1,00 | \$ 3.000,00 | \$ 3.000,00 |
| 3 | Surveyor | Ls | 1,00 | \$ 3.000,00 | \$ 3.000,00 |
| 4 | Logistics | Ls | 1,00 | \$ 1.500,00 | \$ 1.500,00 |
| 5 | Administration | Ls | 1,00 | \$ 1.200,00 | \$ 1.200,00 |
| 6 | Security | Ls | 1,00 | \$ 1.800,00 | \$ 1.800,00 |
| II OPERATIONAL COST | | | | | |
| 1 | Stationary | Ls | 1,00 | \$ 240,00 | \$ 240,00 |
| 2 | Communication | Ls | 1,00 | \$ 360,00 | \$ 360,00 |
| 3 | Meetings | Ls | 1,00 | \$ 240,00 | \$ 240,00 |
| 4 | Electricity | Ls | 1,00 | \$ 720,00 | \$ 720,00 |
| 5 | Water | Ls | 1,00 | \$ 720,00 | \$ 720,00 |
| 6 | Daily, weekly, monthly reports | Ls | 1,00 | \$ 240,00 | \$ 240,00 |
| 7 | Shop drawings, as built drawings | Ls | 1,00 | \$ 200,00 | \$ 200,00 |
| 8 | Material Sampling & Testing | Ls | 1,00 | \$ 9.858,00 | \$ 9.858,00 |
| 9 | Personal protective equipment (PPE) | Ls | 1,00 | \$ 480,00 | \$ 480,00 |
| | TOTAL OVERHEAD | | | | \$ 29.558,00 |



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

**APPROVAL SHEET
SUMMARY OF BILL OF QUANTITY**

NAME OF PROJECT :Road Improvement Section 1: Hatudo - Ainaro Urban Road, L= 21.795
LOCATION OF PROJECT : District Ainaro

| No. | Work Description | OWNER ESTIMATE Amount (USD) | VERIFIED BY ADN Amount (USD) |
|-----|---|-----------------------------|------------------------------|
| 100 | GENERAL REQUIREMENTS | \$ 1.017.474,04 | \$ 336.647,24 |
| 200 | EARTHWORKS | \$ 1.802.400,91 | \$ 740.989,11 |
| 300 | SUB BASE AND BASE COURSE | \$ 2.508.412,14 | \$ 3.015.812,12 |
| 400 | SURFACE COURSE | \$ 2.015.537,09 | \$ 3.441.890,06 |
| 500 | BRIDGE CONSTRUCTION | \$ 2.486.306,88 | \$ 2.472.084,72 |
| 600 | DRAINAGE AND SLOPE PROTECTION STRUCTURES | \$ 5.229.372,86 | \$ 4.782.910,62 |
| 700 | MISCELLANEOUS STRUCTURES | \$ 137.604,52 | \$ 254.585,33 |
| 800 | BIOENGINEERING | \$ 760.417,00 | \$ 760.417,00 |
| A | CONSTRUCTION COST | \$ 15.957.525,44 | |
| B | PROFIT AND OVERHEAD (10% x A) | \$ 1.595.752,54 | |
| C | PROVISIONAL SUM (5% of A) | \$ 797.876,27 | |
| D | CONTIGENCIES (5% of A) | \$ 797.876,27 | |
| E | Tax 10% (A+B+C) | \$ 1.595.752,54 | |
| F | GRAND TOTAL (A+B+C+D) | \$ 20.744.783,00 | |
| A | CONSTRUCTION COST | | \$ 15.805.336,19 |
| B | CONTRACTOR FEE (10 x A) | | \$ 1.580.533,62 |
| C | OVERHEAD | | \$ 119.612,00 |
| D | PROVISIONAL SUM (Relocation of Existing Water Supply Utility Pipes & water tanks) | | \$ 100.000,00 |
| E | TAX 2% (A+B+C+D) | | \$ 352.109,64 |
| F | GRAND TOTAL (A+B+C+D+E) | | \$ 17.957.591,45 |

Verified By :

Eng. Paulino Abantes Correia
Engineer. UAP - ADN.IP

Checked By:

Eng. Rogerio M. Pires
Chefe Departamento ITIAS UAP - ADN.IP

Certified By:

Eng. José Fernando Liu Soares
Coordenador. UAP - ADN.IP
28/8/2025



**MINISTÉRIO DO PLANO
E ORDENAMENTO**
VIII GOVERNO CONSTITUCIONAL



ADN, I.P.

Agência de
Desenvolvimento
e Ordenamento
Territorial, Infraestrutura e
Inovação

NATIONAL ROAD UPGRADING PROJECT
Upgrading and Maintenance of Aituto – Hatubuilico Road Project
CONTRACT PACKAGE 1 : Aituto - Hatubuilico Section
Sta. 0+000 – Sta. 11+900

SUMMARY

| SECTIONS | DESCRIPTION | PROPOSED AMOUNT | ADN, I.P. VERIFIED AMOUNT |
|--------------|---|----------------------|---------------------------|
| 100 | GENERAL | \$ 306.321,42 | \$ 301.512,61 |
| 200 | EARTHWORK | \$ 9.374.244,96 | \$ 4.594.465,13 |
| 300 | SUBBASE AND BASE COURSE | \$ 1.564.521,00 | \$ 1.661.058,62 |
| 400 | SURFACE COURSE | \$ 2.861.742,69 | \$ 2.281.923,69 |
| 500 | BRIDGE CONSTRUCTION | \$ 179.669,93 | \$ 139.652,07 |
| 600 | DRAINAGE AND SLOPE PROTECTION STRUCTURES | \$ 2.168.301,54 | \$ 2.238.702,98 |
| 700 | MISCELLANEOUS STRUCTURES | \$ 716.647,53 | \$ 524.218,05 |
| 800 | BIO-ENGINEERING | \$ 1.417.822,14 | \$ 1.435.756,29 |
| PBM | PERFORMANCE BASED MAINTENANCE WORKS | \$ 1.082.386,80 | \$ 750.594,60 |
| EW(DW) | EMERGENCY WORKS (DAYWORKS) | \$ 1.971.692,54 | \$ 2.144.320,36 |
| PS | PROVISIONAL SUM | \$ 400.000,00 | \$ - |
| CON | CONTINGENCY | \$ 200.000,00 | \$ - |
| TOTAL | | 22.243.350,55 | |
| A | CONSTRUCTION COST | 22.243.350,55 | |
| B | PROFIT AND OVERHEAD | 2.224.335,05 | |
| C | TAX | 489.353,71 | |
| D | GRANT TOTAL (A+B+C) | 24.957.039,32 | |
| A | CONSTRUCTION COST | | 16.072.204,40 |
| B | CONTRACTOR FEE | | 1.607.220,44 |
| C | OVERHEAD | | 18.200,00 |
| D | PROVISIONAL SUM (Removal and Relocation of Existing Water Line Utilities) | | 150.000,00 |
| E | PROVISIONAL SUM (Removal and Relocation of Existing Electrical Utilities) | | 250.000,00 |
| F | CONTINGENCY | | 200.000,00 |
| G | TAX (2% X (A+B+C+D+E+F)) | | 365.952,50 |
| H | GRAND TOTAL (A+B+C+D+E+F+G) | | 18.663.577,34 |

Verified By :

Rui Lopes
ADN, I.P. Engineer

Checked By :

Rogerio M. Pires
Senior Engineer ITIAS - ADN, I. P.

Certified By :

Melenia da Costa Barros
Coordenadora UAP - ADN, I.P.



AGENCIA DE DESARROLLO NACIONAL - E.P.

COST ESTIMATE

NAME OF PROJECT
LOCATION OF PROJECT

Streets Improvement Section J : Matads - Almara Urban Road. L=21.795
District Almara

| No. | Work Description | OWNER ESTIMATE | | | | VERIFIED BY ADN | | | |
|---|--|----------------|------------|------------------|-------------------------|-----------------|------------|------------------|-------------------------|
| | | Unit | Quantity | Unit Price (USD) | Amount (USD) | Unit | Quantity | Unit Price (USD) | Amount (USD) |
| 100 GENERAL REQUIREMENTS | | | | | | | | | |
| 102.1.1 | Mobilization Requirement for All Contract | Ls | 1,00 | \$ 26,441,00 | \$ 26,441,00 | Ls | 1,00 | \$ 35,350,00 | \$ 35,350,00 |
| 102.1.4 | Demobilization of All Contract | Ls | 1,00 | \$ 8,540,00 | \$ 8,540,00 | Ls | 1,00 | \$ 18,350,00 | \$ 18,350,00 |
| 103 | Field Office and Facilities for the Contractor | Ls | 1,00 | \$ 176,205,00 | \$ 176,205,00 | Ls | 1,00 | \$ 31,289,08 | \$ 31,289,08 |
| 104 | Office and Accommodation for the Engineer | Ls | 1,00 | \$ 75,220,00 | \$ 75,220,00 | Ls | 1,00 | \$ 107,410,00 | \$ 107,410,00 |
| 105 | Vehicles for the Engineer (2 units of 4 WD Cars 2 units of Motorbikes) | Ls | 1,00 | \$ 117,400,00 | \$ 117,400,00 | Ls | 1,00 | \$ 107,410,00 | \$ 107,410,00 |
| 106.1 | Laboratory and Testing Facilities | Ls | 1,00 | \$ 90,300,00 | \$ 90,300,00 | Ls | 1,00 | \$ 61,800,00 | \$ 61,800,00 |
| 106.2 | Drilling including SPT and Report | Ls | 1,00 | \$ 77,370,70 | \$ 77,370,70 | Ls | 1,00 | \$ 36,702,67 | \$ 36,702,67 |
| 108 | Traffic Management System & Safety | Ls | 1,00 | \$ 11,619,65 | \$ 11,619,65 | Ls | 1,00 | \$ 6,181,00 | \$ 6,181,00 |
| 109 | Field Engineering | Ls | 1,00 | \$ 107,000,00 | \$ 107,000,00 | Ls | 1,00 | \$ 9,000,00 | \$ 9,000,00 |
| 114 | Environment Safeguard | Ls | 1,00 | \$ 72,500,00 | \$ 72,500,00 | Ls | 1,00 | \$ 9,000,00 | \$ 9,000,00 |
| 115(1) | Relocation of Existing Phone Utility Pole | Each | 64,00 | \$ 476,74 | \$ 30,511,09 | Each | 64,00 | \$ 477,57 | \$ 30,564,48 |
| 115(2) | Relocation of Existing Electric Utility Pole - Low Voltage | Each | 64,00 | \$ 1,724,56 | \$ 112,291,60 | Each | 64,00 | \$ 111,475,00 | |
| 115(4) | Relocation of Existing Water Supply Utility Pipes & water tanks | Ls | 637,00 | \$ 175,00 | \$ 112,647,24 | | | | |
| | Sub Total 100 | | | | \$ 1,017,474,04 | | | | \$ 336,647,24 |
| 200 EARTHWORKS | | | | | | | | | |
| 201(1) | Clearing and Grubbing | Hectare | 15,29 | \$ 1,938,02 | \$ 29,632,98 | Hectare | 15,29 | \$ 1,054,88 | \$ 16,129,43 |
| 202(3) | Removal of Pavement, Sidewalks, Curbs, etc. | Sq.m | 13,980,00 | \$ 6,52 | \$ 89,940,00 | Sq.m | 13,980,00 | \$ 2,53 | \$ 35,373,40 |
| 202(4) | Removal of Existing Pipe, Culvert and Lined Drain | Ln.m | 10,313,00 | \$ 39,56 | \$ 408,008,25 | Ln.m | 10,313,00 | \$ 2,89 | \$ 29,884,41 |
| 203(2) | Surplus Common Excavation | Cum | 112,642,35 | \$ 4,02 | \$ 453,110,51 | Cum | 112,642,35 | \$ 2,89 | \$ 325,905,98 |
| 204(1) | Structure Excavation | Cum | 702,90 | \$ 6,40 | \$ 4,498,37 | Cum | 702,90 | \$ 8,64 | \$ 6,074,87 |
| 205(1) | Common Embankment (From Surplus Excavation) | Cum | 25,873,10 | \$ 5,27 | \$ 136,051,24 | Cum | 25,873,10 | \$ 2,34 | \$ 60,608,09 |
| 205(3) | Granular Selected Embankment | Cum | 7,550,80 | \$ 36,95 | \$ 279,053,72 | Cum | 7,550,80 | \$ 21,81 | \$ 164,695,38 |
| 206(2) | Subgrade preparation (Existing pavement) | Sq.m | 89,000,00 | \$ 1,73 | \$ 154,203,26 | Sq.m | 89,000,00 | \$ 0,65 | \$ 58,292,62 |
| 206(3) | Subgrade preparation (Unsuitable material) | Sq.m | 67,286,60 | \$ 3,25 | \$ 218,374,37 | Sq.m | 67,286,60 | \$ 0,65 | \$ 44,070,92 |
| | Sub Total 200 | | | | \$ 1,802,400,81 | | | | \$ 740,989,11 |
| 300 SUB BASE AND BASE COURSE | | | | | | | | | |
| 303(1) | Aggregate Base Class A | Cum | 22,615,26 | \$ 57,38 | \$ 1,297,655,71 | Cum | 22,615,26 | \$ 79,29 | \$ 1,793,114,00 |
| 303(2) | Aggregate Base Class B | Cum | 22,615,26 | \$ 53,54 | \$ 1,210,758,43 | Cum | 22,615,26 | \$ 54,07 | \$ 1,222,698,11 |
| | Sub Total 300 | | | | \$ 2,508,412,14 | | | | \$ 3,015,812,12 |
| 400 SURFACE COURSE | | | | | | | | | |
| 402 | Prime Coat | Liter | 108,655,70 | \$ 0,81 | \$ 87,661,87 | Liter | 108,655,70 | \$ 1,50 | \$ 163,283,14 |
| 403 | Tack Coat | Liter | 920,21 | \$ 1,00 | \$ 920,21 | Liter | 920,21 | \$ 0,86 | \$ 792,23 |
| 411(5a) | Asphaltic Concrete - Binder Course (AC-BC) 6 cm | Sq.m | 6,890,30 | \$ 279,66 | \$ 1,926,955,01 | Sq.m | 114,856,40 | \$ 28,54 | \$ 3,277,914,69 |
| | Sub Total 400 | | | | \$ 2,015,537,09 | | | | \$ 3,441,890,06 |
| 500 BRIDGE CONSTRUCTION | | | | | | | | | |
| 501 | Piling Ø 600mm | m | 102,40 | \$ 115,95 | \$ 11,873,52 | m | 102,40 | \$ 251,24 | \$ 25,727,43 |
| 502 | Railing | m | 1,005,20 | \$ 24,51 | \$ 24,638,93 | m | 1,005,20 | \$ 32,77 | \$ 32,940,40 |
| 505 | Reinforcing Steel | Kg | 968,903,88 | \$ 1,98 | \$ 1,913,924,17 | Kg | 968,903,88 | \$ 1,73 | \$ 1,675,235,82 |
| 506(1) | Structural Concrete, Class A (Pc 25 M.Pa) | Cum | 3,148,06 | \$ 164,07 | \$ 516,496,63 | Cum | 3,148,06 | \$ 228,65 | \$ 719,806,46 |
| 506(1).a | Structural Concrete, Class A (Pc 30 M.Pa) | Cum | 0,74 | \$ 181,88 | \$ 144,39 | Cum | 0,74 | \$ 176,42 | \$ 130,36 |
| 506(2) | Structural Concrete, Class B (Pc >10 M.Pa) | Cum | 125,30 | \$ 139,32 | \$ 17,456,49 | Cum | 125,30 | \$ 129,60 | \$ 16,238,23 |
| 512(4) | Elastomeric Bearing Type 3 (450 x 400 x 45) mm ³ | Each | 10,00 | \$ 178,28 | \$ 1,782,75 | Each | 10,00 | \$ 200,71 | \$ 2,007,05 |
| | Sub Total 500 | | | | \$ 2,486,306,88 | | | | \$ 2,472,084,72 |
| 600 DRAINAGE AND SLOPE PROTECTION STRUCTURES | | | | | | | | | |
| 601(1.a) | Pipe Culverts, 600 mm | Ln.m | 45,00 | \$ 49,83 | \$ 2,242,54 | Ln.m | 45,00 | \$ 243,58 | \$ 10,960,09 |
| 601(1.b) | Pipe Culverts 800 mm | Ln.m | 132,00 | \$ 74,81 | \$ 9,875,44 | Ln.m | 132,00 | \$ 298,37 | \$ 39,384,44 |
| 601(1.c) | Pipe Culverts, 1000 mm | Ln.m | 9,00 | \$ 98,92 | \$ 863,29 | Ln.m | 9,00 | \$ 343,04 | \$ 3,087,36 |
| 606 | Stone Masonry | Cum | 62,978,79 | \$ 81,43 | \$ 5,128,362,87 | Cum | 62,978,79 | \$ 74,00 | \$ 4,660,243,14 |
| 609(1) | Bed Course Granular Material | Cum | 203,16 | \$ 32,22 | \$ 6,544,85 | Cum | 203,16 | \$ 21,81 | \$ 4,431,26 |
| 610 | Gabions | Cum | 1,130,00 | \$ 72,11 | \$ 81,483,87 | Cum | 1,130,00 | \$ 57,19 | \$ 64,623,53 |
| | Sub Total 600 | | | | \$ 5,229,372,86 | | | | \$ 4,782,910,62 |
| 700 MISCELLANEOUS STRUCTURES | | | | | | | | | |
| 703(3) | Kilometer posts | Each | 22,00 | \$ 30,36 | \$ 667,94 | Each | 22,00 | \$ 30,36 | \$ 667,94 |
| 706(1) | Warning Signs | Each | 515,00 | \$ 46,79 | \$ 24,058,47 | Each | 515,00 | \$ 152,04 | \$ 78,299,02 |
| 706(2) | Regulatory Signs | Each | 90,00 | \$ 46,79 | \$ 4,211,38 | Each | 90,00 | \$ 152,04 | \$ 13,683,32 |
| 706(3) | Information Signs | Each | 1,00 | \$ 46,79 | \$ 46,79 | Each | 1,00 | \$ 152,04 | \$ 152,04 |
| 707(1) | Pavement Markings (Reflective) | Sq.m | 6,991,63 | \$ 15,53 | \$ 108,579,94 | Sq.m | 6,991,63 | \$ 23,14 | \$ 161,783,01 |
| | Sub Total 700 | | | | \$ 137,604,52 | | | | \$ 254,589,33 |
| 800 BIODEENGINEERING | | | | | | | | | |
| 801(1) | Nursery establishment operation and management | Ls | 1,00 | \$ 6,500,00 | \$ 6,500,00 | Ls | 1,00 | \$ 6,500,00 | \$ 6,500,00 |
| 801(2) | Grass clippings production | Sq.m | 129,600,00 | \$ 5,25 | \$ 660,400,00 | Sq.m | 129,600,00 | \$ 5,25 | \$ 660,400,00 |
| 803(1) | Slope trimming and preparation | Sq.m | 16,400,00 | \$ 3,50 | \$ 57,400,00 | Sq.m | 16,400,00 | \$ 3,50 | \$ 57,400,00 |
| 805(4) | Planting of Tree/shrub, Bamboo & Hard wood Cuttings | Each | 400,00 | \$ 3,90 | \$ 1,560,00 | Each | 400,00 | \$ 3,90 | \$ 1,560,00 |
| 808(1) | Fabrication of tree guards | Each | 400,00 | \$ 1,60 | \$ 640,00 | Each | 400,00 | \$ 1,60 | \$ 640,00 |
| 808(2) | Maintenance and Aftercare | Ls | 1,00 | \$ 4,323,00 | \$ 4,323,00 | Ls | 1,00 | \$ 4,323,00 | \$ 4,323,00 |
| | Sub Total 800 | | | | \$ 760,417,60 | | | | \$ 760,417,60 |
| | TOTAL | | | | \$ 15,957,525,44 | | | | \$ 15,805,336,19 |

OVERHEAD

NAME OF PROJECT :Road Improvement Section 1 : Hatudo - Ainaro Urban Road , L= 21.795
 LOCATION OF PROJECT : District Ainaro

| NO | DESKRISAUN | UNIT | QUANTITY | UNIT PRICE | TOTAL |
|----------|-------------------------------------|------|----------|--------------|----------------------|
| 1 | PROJECT TEAM | | | | |
| | Project Manager | Ls | 1,00 | \$ 18.000,00 | \$ 18.000,00 |
| | Site Manager | Ls | 1,00 | \$ 12.000,00 | \$ 12.000,00 |
| | Site Engineer | Ls | 1,00 | \$ 24.000,00 | \$ 24.000,00 |
| | Quality Control | Ls | 1,00 | \$ 12.000,00 | \$ 12.000,00 |
| | Health, Safety and Environment | Ls | 1,00 | \$ 6.000,00 | \$ 6.000,00 |
| | Surveyor | Ls | 1,00 | \$ 12.000,00 | \$ 12.000,00 |
| | Logistics | Ls | 1,00 | \$ 3.000,00 | \$ 3.000,00 |
| | Administration | Ls | 1,00 | \$ 2.400,00 | \$ 2.400,00 |
| | Cleaning Staff | Ls | 1,00 | \$ 1.800,00 | \$ 1.800,00 |
| | Security | Ls | 1,00 | \$ 1.800,00 | \$ 1.800,00 |
| 2 | KUSTU OPERASIONAL | | | | |
| | Stationary | Ls | 1,00 | \$ 1.200,00 | \$ 1.200,00 |
| | Communication | Ls | 1,00 | \$ 1.800,00 | \$ 1.800,00 |
| | Meetings | Ls | 1,00 | \$ 1.200,00 | \$ 1.200,00 |
| | Electricity | Ls | 1,00 | \$ 3.600,00 | \$ 3.600,00 |
| | Water | Ls | 1,00 | \$ 3.600,00 | \$ 3.600,00 |
| | Daily, weekly, monthly reports | Ls | 1,00 | \$ 1.200,00 | \$ 1.200,00 |
| | Shop drawings, as built drawings | Ls | 1,00 | \$ 12.000,00 | \$ 12.000,00 |
| 3 | KUSTU SERVISU APOIO NIAN | | | | |
| | Material Sampling & Testing | Ls | 1,00 | \$ - | \$ - |
| | Personal protective equipment (PPE) | Ls | 1,00 | \$ 12,00 | \$ 12,00 |
| 4 | KUSTU SOSIAL | | | | |
| | Launching ceremony | Ls | 1,00 | \$ 1.000,00 | \$ 1.000,00 |
| | Completion ceremony | Ls | 1,00 | \$ 1.000,00 | \$ 1.000,00 |
| | TOTAL OVERHEAD | | | | \$ 119.612,00 |

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**MINISTÉRIO DO PLANO
E ORDENAMENTO**
VIII GOVERNO CONSTITUCIONAL



ADN, I.P.
Agência de Desenvolvimento
Nacional, Indústria e Pesquisa

NATIONAL ROAD UPGRADING PROJECT
Upgrading and Maintenance of Aituto - Hatubulico Road Project
CONTRACT PACKAGE 1 : Aituto - Hatubulico Section
Sta. 0+000 – Sta. 11+900

COST ESTIMATE

| PAY ITEM NUMBERS | ITEM DESCRIPTION | UNIT | VOLUME | UNIT RATE (USD) | AMOUNT (USD) | VERIFIED BY ADN, I.P. | | | |
|------------------|---|-------|------------|-----------------|-----------------|-----------------------|-----------|----------------|-----------------|
| | | | | | | UNIT | QUANTITY | UNIT RATE US\$ | AMOUNT \$ |
| 100 | GENERAL | | | | \$ 306,321.42 | | | | \$ 301,512,61 |
| 102 | Mobilization | l.s. | 1.00 | \$ 31 935,50 | \$ 31,935,50 | l.s. | 1.00 | \$ 133 724,56 | \$ 133,724,56 |
| 102(1) | Demobilization | l.s. | 1.00 | \$ 20 039,64 | \$ 20,039,64 | l.s. | 1.00 | \$ 24 300,00 | \$ 24 300,00 |
| 106 | Laboratory Testing Services | l.s. | 1.00 | \$ 71 174,15 | \$ 71,174,15 | l.s. | 1.00 | \$ 66 538,05 | \$ 66,538,05 |
| 108 | Traffic Management and Safety | l.s. | 1.00 | \$ 10 000,00 | \$ 10,000,00 | l.s. | 1.00 | \$ 5 000,00 | \$ 5,000,00 |
| 109 | Survey, Shop Drawing and Asbuilt Drawing | l.s. | 1.00 | \$ 95 115,79 | \$ 95,115,79 | l.s. | 1.00 | \$ 6 000,00 | \$ 6,000,00 |
| 112,3,2 | Monthly Progress Report and Photographs | l.s. | 1.00 | \$ 256,13 | \$ 256,13 | l.s. | 1.00 | \$ 900,00 | \$ 900,00 |
| 114 | Environmental Safeguard | l.s. | 1.00 | \$ 76 000,00 | \$ 76,000,00 | l.s. | 1.00 | \$ 63 250,00 | \$ 63,250,00 |
| 115 | Reallocation of Existing Public Utilities and Resettlement | l.s. | 1.00 | \$ 1 800,00 | \$ 1 800,00 | l.s. | 1.00 | \$ 1 800,00 | \$ 1 800,00 |
| 200 | EARTHWORK | | | | \$ 9,374,244,96 | | | | \$ 4,594,465,13 |
| 201(1) | Cleaning and Grubbing | ha | 2,00 | \$ 1 899,33 | \$ 3 798,66 | ha | 18,50 | \$ 1 147,68 | \$ 21 232,06 |
| 201(3) | Individual Removal of Trees, Small (150mm dia-900mm dia) | each | 835,00 | \$ 40,18 | \$ 33 550,30 | each | 835,00 | \$ 40,39 | \$ 33 724,80 |
| 201(4) | Individual Removal of Trees, Large (over 900mm dia) | each | 30,00 | \$ 164,53 | \$ 4 935,90 | each | 30,00 | \$ 164,53 | \$ 4 935,90 |
| 202(3)b | Removal and Disposal of Existing AC Pavement | sq.m. | 4 800,00 | \$ 2,60 | \$ 12 480,00 | sq.m. | 4600,00 | \$ 2,22 | \$ 10 637,40 |
| 202(4)f | Removal of Existing Stone Masonry Retaining Wall | l.m. | 3 860,00 | \$ 14,96 | \$ 57 745,60 | l.m. | 3860,00 | \$ 7,45 | \$ 28 752,02 |
| 202(5)b | Removal of Existing Gabions | cu.m. | 220,00 | \$ 10,79 | \$ 2,373,80 | cu.m. | 220,00 | \$ 7,45 | \$ 1 638,72 |
| 203(2) | Surplus Common Excavation | cu.m. | 236 100,00 | \$ 5,03 | \$ 1,187,583,00 | cu.m. | 236100,00 | \$ 2,42 | \$ 570 548,08 |
| 203(3)a | Surplus Hard Rock Excavation | cu.m. | 123 600,00 | \$ 25,84 | \$ 3 193 824,00 | cu.m. | 123600,00 | \$ 11,61 | \$ 1 434 400,45 |
| 203(3)b | Surplus Soft Rock Excavation | cu.m. | 239 400,00 | \$ 16,19 | \$ 3 675 886,00 | cu.m. | 239400,00 | \$ 7,45 | \$ 1 783 220,92 |
| 205(1)a | Embankment from Roadway Excavation, Common Materials | cu.m. | 47 200,00 | \$ 9,68 | \$ 456 896,00 | cu.m. | 47200,00 | \$ 4,51 | \$ 212 857,85 |
| 205(1)d | Embankment from Selected Borrow, Granular Materials | cu.m. | 18 275,00 | \$ 23,21 | \$ 424 162,75 | cu.m. | 18275,00 | \$ 23,43 | \$ 426 135,32 |
| 206(1) | Subgrade Preparation (Common Material) | sq.m. | 64 200,00 | \$ 0,78 | \$ 50 676,00 | sq.m. | 84200,00 | \$ 0,52 | \$ 44 107,94 |
| 206(2) | Subgrade Preparation (Existing Road) | sq.m. | 38 700,00 | \$ 0,62 | \$ 23 994,00 | sq.m. | 38700,00 | \$ 0,52 | \$ 20 272,89 |
| 300 | SUBBASE AND BASE COURSE | | | | \$ 1,564,521,00 | | | | \$ 1,661,058,62 |
| 301 | Aggregate Subbase Course | cu.m. | 17.150,00 | \$ 33,90 | \$ 581,305,00 | cu.m. | 17150,00 | \$ 35,68 | \$ 611,940,14 |
| 303 | Crushed Aggregate Base Course, Grading B | cu.m. | 16 800,00 | \$ 58,52 | \$ 983,136,00 | cu.m. | 16800,00 | \$ 62,45 | \$ 1,049,118,49 |
| 400 | SURFACE COURSE | | | | \$ 2,861,742,69 | | | | \$ 2,281,923,69 |
| 402 | Bituminous Prime Coat, MC-70 Cut-Back Asphalt | sq.m. | 95 730,00 | \$ 3,20 | \$ 306 336,00 | sq.m. | 95730,00 | \$ 1,34 | \$ 128 337,63 |
| 403 | Bituminous Tack Coat, Emulsified Asphalt SS-1 | sq.m. | 79,36 | \$ 4,70 | \$ 372,99 | sq.m. | 79,36 | \$ 0,80 | \$ 63,36 |
| 411(5a) | Bituminous Concrete Surface Course, Hot Laid (50mm thick) (AC-WC) | sq.m. | 95 730,00 | \$ 26,69 | \$ 2 555 033,70 | sq.m. | 95730,00 | \$ 22,50 | \$ 2 153 522,70 |
| 500 | BRIDGE CONSTRUCTION | | | | \$ 179,669,93 | | | | \$ 139,652,07 |
| | BRIDGE #1: (STA 9+731) | | | | | | | | |
| 202(1)a | Removal of Existing Bridge (L=5.50m) | l.s. | 1.00 | \$ 2 147,84 | \$ 2 147,84 | l.s. | 1.00 | \$ 1,934,49 | \$ 1,934,49 |
| 204(7) | Bridge Excavation, Common Materials | cu.m. | 779,00 | \$ 10,23 | \$ 7 968,20 | cu.m. | 779,00 | \$ 3,66 | \$ 2 847,52 |
| SPL207 | Structural Backfill | cu.m. | 213,00 | \$ 25,79 | \$ 5 492,26 | cu.m. | 213,00 | \$ 4,51 | \$ 960,57 |
| 502(1) | Concrete Bridge Railing | m | 16,00 | \$ 88,54 | \$ 1 416,58 | m | 16,00 | \$ 89,70 | \$ 1 435,20 |
| 504(8) | Structural Anchor Bolt, 25mm dia x 1000mm | each | 10,00 | \$ 574,69 | \$ 5 746,93 | each | 10,00 | \$ 547,41 | \$ 5,474,09 |
| 505(1)a | Reinforcing Steel, Grade 40 (Bridges) | kg. | 32 257,00 | \$ 1,64 | \$ 52 799,07 | kg. | 32257,00 | \$ 1,42 | \$ 45 837,20 |
| 506(1)a | Structural Concrete Class A for bridge | cu.m. | 271,00 | \$ 227,65 | \$ 61 693,46 | cu.m. | 271,00 | \$ 199,96 | \$ 54 189,20 |
| 506(G) | Lean Concrete | cu.m. | 11,00 | \$ 98,75 | \$ 1 086,30 | cu.m. | 11,00 | \$ 111,11 | \$ 1 222,24 |
| SPL513(1)a | Elastomeric Bearing Pad, Duro 60 (400 x 500 x 25mm) | each | 12,00 | \$ 672,23 | \$ 8 066,75 | each | 12,00 | \$ 437,04 | \$ 5 244,48 |
| SPL513(1)b | Elastomeric Bearing Pad, Duro 60 (200 x 200 x 25mm) | each | 10,00 | \$ 134,57 | \$ 1 345,72 | each | 10,00 | \$ 232,35 | \$ 2 323,55 |
| SPL514(1) | Preformed Elastomeric Compression Joint Seals (50mm, thick) | lm. | 20,00 | \$ 1.155,23 | \$ 23 104,58 | lm. | 20,00 | \$ 368,60 | \$ 7 772,06 |
| 605(5)a | Grouted Riprap, Class A | cu.m. | 16,00 | \$ 60,56 | \$ 966,92 | cu.m. | 16,00 | \$ 60,09 | \$ 961,41 |
| G06 | Stone Masonry | cu.m. | 70,00 | \$ 66,13 | \$ 4 626,85 | cu.m. | 70,00 | \$ 77,56 | \$ 5 429,19 |
| SPL614(1)a | Dolour Road | l.s. | 1,00 | \$ 3 019,93 | \$ 3 019,93 | l.s. | 1,00 | \$ 3 835,90 | \$ 3 835,90 |
| 908(1)a | Metal Drain Pipe (150mm dia X 800mm C.I.Pipe) | each | 3,00 | \$ 61,52 | \$ 184,55 | each | 3,00 | \$ 61,66 | \$ 184,97 |

R.R. A f



**MINISTÉRIO DO PLANO
E ORDENAMENTO**
VIII GOVERNO CONSTITUCIONAL



NATIONAL ROAD UPGRADING PROJECT
Upgrading and Maintenance of Aituto - Hatubulico Road Project
CONTRACT PACKAGE 1 : Aituto - Hatubulico Section
Sta. 0+000 – Sta. 11+900

COST ESTIMATE

| PAY ITEM NUMBERS | ITEM DESCRIPTION | UNIT | VOLUME | UNIT RATE (USD) | AMOUNT (USD) | VERIFIED BY ADN, I.P. | | | |
|---|------------------|------------|-------------|-----------------|-----------------|-----------------------|-------------|----------------|-----------------|
| | | | | | | UNIT | QUANTITY | UNIT RATE US\$ | AMOUNT \$ |
| 600 DRAINAGE AND SLOPE PROTECTION STRUCTURES | | | | | \$ 2,168,301.54 | | | | \$ 2,236,702.98 |
| 204(1)a Structure Excavation, Common Materials | cu.m | 8 934.00 | \$ 8.41 | \$ 75 141.76 | cu.m | 8934.00 | \$ 2.65 | \$ 23 706.62 | |
| 204(7) Structural Backfill | cu.m | 517.00 | \$ 25.79 | \$ 13,330.98 | cu.m | 517.00 | \$ 4.51 | \$ 2 331.51 | |
| 505(1)b Reinforcing Steel , Grade 40 (Drainage Structures) | kg | 120 410.00 | \$ 1.64 | \$ 197,090.12 | kg | 120410.00 | \$ 1.42 | \$ 171,102.61 | |
| 506(1)c Structural Concrete Class A (Drainage Structures) | cu.m | 308.00 | \$ 199.69 | \$ 61,505.81 | cu.m | 308.00 | \$ 166.11 | \$ 57,936.41 | |
| 506(6) Lean Concrete | cu.m | 20.00 | \$ 96.75 | \$ 1,975.09 | cu.m | 20.00 | \$ 111.11 | \$ 2,222.26 | |
| 601(1)a Reinforced Concrete Pipe Culvert (1 - 610mm dia) | l.m | 109.00 | \$ 94.78 | \$ 10,331.54 | l.m | 109.00 | \$ 213.29 | \$ 23,248.99 | |
| 601(1)c Reinforced Concrete Pipe Culvert (1 - 910mm dia) | l.m | 317.00 | \$ 164.61 | \$ 52,182.76 | l.m | 317.00 | \$ 296.59 | \$ 94,020.16 | |
| 601(1)d.1 Reinforced Concrete Pipe Culvert (1 - 1070mm dia) | l.m | 173.00 | \$ 212.89 | \$ 36,829.15 | l.m | 173.00 | \$ 318.66 | \$ 55,162.29 | |
| 601(1)d.2 Reinforced Concrete Pipe Culvert (2 - 1070mm dia) | l.m | 13.00 | \$ 425.77 | \$ 5,535.02 | l.m | 13.00 | \$ 587.99 | \$ 7,643.82 | |
| 601(1)e.1 Reinforced Concrete Pipe Culvert (1 - 1220mm dia) | l.m | 159.00 | \$ 264.42 | \$ 39,663.19 | l.m | 159.00 | \$ 391.14 | \$ 58,670.29 | |
| 601(1)e.2 Reinforced Concrete Pipe Culvert (2 - 1220mm dia) | l.m | 22.00 | \$ 489.46 | \$ 10,768.19 | l.m | 22.00 | \$ 728.73 | \$ 16,032.12 | |
| 601(1)f.1 Reinforced Concrete Pipe Culvert (1 - 1520mm dia) | l.m | 103.00 | \$ 378.27 | \$ 38,961.72 | l.m | 103.00 | \$ 462.47 | \$ 47,634.76 | |
| 601(1)f.2 Reinforced Concrete Pipe Culvert (2 - 1520mm dia) | l.m | 36.00 | \$ 669.11 | \$ 24,068.02 | l.m | 36.00 | \$ 870.30 | \$ 31,330.87 | |
| 602(1)c Underdrain, 200mm dia, PVC Pipe | l.m | 300.00 | \$ 68.32 | \$ 20,496.69 | l.m | 300.00 | \$ 57.59 | \$ 17,276.48 | |
| 602(1)c Underdrain on Side Ditch | l.m | 150.00 | \$ 91.28 | \$ 13,691.72 | l.m | 150.00 | \$ 73.53 | \$ 11,029.33 | |
| 603(3)b-1 Catch Basins, 1-910mm dia, RCPC | each | 16.00 | \$ 830.79 | \$ 13,292.65 | each | 16.00 | \$ 696.66 | \$ 11,146.62 | |
| 603(3)c-1 Catch Basins, 1-1070mm dia, RCPC | each | 2.00 | \$ 988.31 | \$ 1,976.62 | each | 2.00 | \$ 770.48 | \$ 1,540.96 | |
| 603(3)d-1 Catch Basins, 1-1220mm dia, RCPC | each | 1.00 | \$ 1,138.20 | \$ 1,138.20 | each | 1.00 | \$ 839.68 | \$ 839.68 | |
| 603(3)d-2 Catch Basins, 2-1220mm dia, RCPC | each | 1.00 | \$ 2,209.25 | \$ 2,209.25 | each | 1.00 | \$ 1,780.87 | \$ 1,780.87 | |
| 603(3)e-1 Catch Basins, 1-1520mm dia, RCPC | each | 1.00 | \$ 1,147.24 | \$ 1,147.24 | each | 1.00 | \$ 978.10 | \$ 978.10 | |
| 603(10) Catch Pit | each | 24.00 | \$ 380.45 | \$ 9,130.91 | each | 24.00 | \$ 390.03 | \$ 9,360.75 | |
| 605(5)c Grouted Riprap, Class A | cu.m | 5 239.00 | \$ 60.56 | \$ 317,259.36 | cu.m | 5239.00 | \$ 60.09 | \$ 314,801.15 | |
| 606 Stone Masonry | cu.m | 6 155.00 | \$ 66.13 | \$ 539,261.13 | cu.m | 8155.00 | \$ 77.56 | \$ 632,501.13 | |
| 610(1) Gabions | cu.m | 9 420.00 | \$ 55.40 | \$ 521,832.26 | cu.m | 9420.00 | \$ 51.50 | \$ 485,130.36 | |
| SPL 613(a) Reinforced Concrete Ditch with Monolithic Cover | l.m. | 1.019.00 | \$ 139.27 | \$ 141,915.51 | l.m. | 1019.00 | \$ 136.89 | \$ 138,495.08 | |
| SPL 613(c) Concrete Lined Semi-Circular Ditch | l.m. | 800.00 | \$ 21.93 | \$ 17,546.64 | l.m. | 800.00 | \$ 27.22 | \$ 21,779.63 | |
| 700 MISCELLANEOUS STRUCTURES | | | | | \$ 716,647.53 | | | | \$ 524,210.05 |
| 702 Concrete Sidewalk | sq.m | 100.00 | \$ 21.42 | \$ 2,142.28 | sq.m | 100.00 | \$ 19.67 | \$ 1,966.73 | |
| 703(2) Maintenance Marker Posts | each | 2 159.00 | \$ 51.32 | \$ 110,796.10 | each | 2159.00 | \$ 51.68 | \$ 111,569.63 | |
| 703(3) Kilometer Post | each | 11.00 | \$ 48.00 | \$ 526.01 | each | 11.00 | \$ 48.43 | \$ 532.69 | |
| 704(3)a Metal Guardrail (Metal Beam) including Galvanized Steel Post | l.m. | 323.00 | \$ 123.94 | \$ 40,033.00 | l.m. | 323.00 | \$ 72.17 | \$ 23,311.70 | |
| 704(3)b Metal Beam End Piece (Rounded with anchor) | each | 16.00 | \$ 46.90 | \$ 750.40 | each | 16.00 | \$ 40.32 | \$ 645.14 | |
| 704(3)d Steel Railing (Side Walk) | l.m. | 1 475.00 | \$ 100.10 | \$ 147,647.20 | l.m. | 1475.00 | \$ 87.90 | \$ 129,657.16 | |
| 706(1)a Warning Signs (Diamond Shape) | each | 24.00 | \$ 348.50 | \$ 8,363.94 | each | 24.00 | \$ 150.69 | \$ 3,616.47 | |
| 706(2)a Regulatory Signs (R1-2 & R2-1) | each | 7.00 | \$ 348.50 | \$ 2,439.46 | each | 7.00 | \$ 156.69 | \$ 1,096.80 | |
| 706(3)a Informatory Signs, (2000 x 1000mm) | each | 2.00 | \$ 1,968.56 | \$ 3,937.13 | each | 2.00 | \$ 1,330.55 | \$ 2,677.09 | |
| 706(3)b Informatory Signs, (2300 x 1000mm) | each | 2.00 | \$ 2,103.56 | \$ 4,207.13 | each | 2.00 | \$ 1,473.55 | \$ 2,947.09 | |
| 706(3)c Informatory Signs, (2450 x 1000mm) | each | 3.00 | \$ 2,170.56 | \$ 6,511.69 | each | 3.00 | \$ 1,540.55 | \$ 4,621.64 | |
| 706(3)e Informatory Signs, (Assembly Type 1) | each | 4.00 | \$ 668.65 | \$ 2,674.60 | each | 4.00 | \$ 385.63 | \$ 1,542.51 | |
| 706(3)f Informatory Signs, (Assembly Type 2) | each | 8.00 | \$ 576.65 | \$ 4,613.20 | each | 8.00 | \$ 273.63 | \$ 2,189.01 | |
| 706(4)a Chevron Signs (Curve Section) | each | 142.00 | \$ 374.70 | \$ 53,207.08 | each | 142.00 | \$ 216.04 | \$ 30,678.15 | |
| 710(1)a Reflectonized Thermoplastic Pavement Markings (White) | sq.m | 2 800.00 | \$ 54.74 | \$ 153,280.72 | sq.m | 2800.00 | \$ 35.09 | \$ 98,243.16 | |
| 710(1)b Reflectonized Thermoplastic Pavement Markings (Yellow) | sq.m | 2 350.00 | \$ 60.62 | \$ 142,456.23 | sq.m | 2350.00 | \$ 38.83 | \$ 91,252.61 | |
| 710(1)c Reflectonized Thermoplastic Pavement Markings (Pedestrian Crossing) | sq.m | 150.00 | \$ 103.06 | \$ 15,459.19 | sq.m | 150.00 | \$ 47.71 | \$ 7,156.70 | |
| SPL 712 Reflectonized Thermoplastic Pavement Markings (Rumble Strip) | sq.m | 110.00 | \$ 160.00 | \$ 17,600.17 | sq.m | 110.00 | \$ 95.58 | \$ 10,513.74 | |
| 800 BIO-ENGINEERING | | | | | \$ 1,417,822.14 | | | | \$ 1,435,756.29 |
| 801(1) Nursery Establishment Operation and Management | l.s. | 1.00 | \$ 5,285.74 | \$ 5,285.74 | l.s. | 1.00 | \$ 5,630.19 | \$ 5,630.19 | |
| 801(2) Grass Slips Production | sq.m | 94,500.00 | \$ 2.22 | \$ 209,480.94 | sq.m | 94500.00 | \$ 2.56 | \$ 242,100.00 | |
| 803(1) Slope Trimming and Preparation | sq.m | 94,500.00 | \$ 1.44 | \$ 135,632.20 | sq.m | 94500.00 | \$ 1.32 | \$ 124,555.50 | |
| 805(3) Planting of Grass Slips (Vetiver Grass) | sq.m | 94,500.00 | \$ 2.68 | \$ 253,569.05 | sq.m | 94500.00 | \$ 2.82 | \$ 266,898.00 | |
| SPL 810 Coconut Bio-Engineering on Prepared Slopes | sq.m | 89,000.00 | \$ 9.14 | \$ 813,854.21 | sq.m | 89000.00 | \$ 8.95 | \$ 796,572.60 | |

Re. 2



**MINISTÉRIO DO PLANO
E ORDENAMENTO**
VIII GOVERNO CONSTITUCIONAL



Agencia de
Desenvolvimento
Territorial e Ordenamento
Publico

NATIONAL ROAD UPGRADING PROJECT
Upgrading and Maintenance of Aituto - Hatubulico Road Project
CONTRACT PACKAGE 1 : Aituto - Hatubulico Section
Sta. 0+000 – Sta. 11+900

COST ESTIMATE

| PAY ITEM NUMBERS | ITEM DESCRIPTION | UNIT | VOLUME | UNIT RATE (USD) | AMOUNT (USD) | VERIFIED BY ADN, I.P. | | | |
|------------------|---|-------|-----------|-----------------|-----------------|-----------------------|----------|----------------|-----------------|
| | | | | | | UNIT | QUANTITY | UNIT RATE US\$ | AMOUNT \$ |
| PBM | PERFORMANCE BASED MAINTENANCE WORKS | mo. | 36 | \$ 30.066,30 | \$ 1.062.386,80 | mo | 36,00 | \$ 20.549,85 | \$ 750.594,60 |
| EW(DW) | EMERGENCY WORKS (DAYWORKS) | | | | \$ 1.971.692,54 | | | | \$ 2.144.320,36 |
| E 101 | Skilled Labour | hr | 10.368,00 | \$ 1.30 | \$ 13.468,12 | hr | 10368,00 | \$ 1,71 | \$ 17.773,71 |
| E 102 | Unskilled Labor | hr | 25.920,00 | \$ 0,72 | \$ 18.639,00 | hr | 25920,00 | \$ 1,00 | \$ 25.920,00 |
| E 103 | Operator for Heavy Equipment | hr | 5.184,00 | \$ 2,09 | \$ 10.642,66 | hr | 5184,00 | \$ 12,00 | \$ 62.208,00 |
| E 104 | Operator for Light Equipment | hr | 5.184,00 | \$ 1,49 | \$ 7.712,82 | hr | 5184,00 | \$ 8,00 | \$ 41.472,00 |
| E 105 | Driver for Heavy Duty Vehicle | hr | 5.184,00 | \$ 1,34 | \$ 6.957,62 | hr | 5184,00 | \$ 9,00 | \$ 46.656,00 |
| E 106 | Driver for Light Duty Vehicle | hr | 5.184,00 | \$ 1,34 | \$ 6.957,62 | hr | 5184,00 | \$ 9,00 | \$ 46.656,00 |
| E 107 | Survey Aide | hr | 5.184,00 | \$ 1,62 | \$ 8.420,76 | hr | 5184,00 | \$ 8,00 | \$ 41.472,00 |
| E 108 | Laboratory Aide | hr | 3.456,00 | \$ 1,88 | \$ 6.483,24 | hr | 3456,00 | \$ 8,00 | \$ 27.648,00 |
| | EQUIPMENT | | | | | | | | |
| E201 | Wheel Loader, 1.8 cu m bucket capacity, 160hp | hr | 1.728,00 | \$ 59,22 | \$ 102.331,11 | hr | 1728,00 | \$ 58,91 | \$ 101.792,78 |
| E202 | Motor Grader, 135 hp | hr | 1.152,00 | \$ 56,77 | \$ 67.697,86 | hr | 1152,00 | \$ 77,05 | \$ 88.757,86 |
| E203 | Backhoe/Excavator 100 hp | hr | 1.152,00 | \$ 63,73 | \$ 73.416,96 | hr | 1152,00 | \$ 65,00 | \$ 74.880,00 |
| E204 | Fiat Bed Truck, 194 Hp | hr | 100,00 | \$ 50,78 | \$ 5.877,62 | hr | 100,00 | \$ 35,00 | \$ 3.500,00 |
| E205 | Cargo Truck, 2-5t | hr | 576,00 | \$ 42,17 | \$ 24.288,77 | hr | 576,00 | \$ 15,00 | \$ 6.640,00 |
| E206 | Vibrating Roller Single Smooth Drum, 10L, 150ph | hr | 1.152,00 | \$ 78,60 | \$ 90.541,44 | hr | 1152,00 | \$ 50,47 | \$ 58.138,85 |
| E207 | Pneumatic Tyre Roller, 10 -15L, 150hp | hr | 1.152,00 | \$ 76,60 | \$ 88.237,44 | hr | 1152,00 | \$ 54,42 | \$ 62.687,48 |
| E208 | Plate Compactor, vibrating, 7hp | hr | 864,00 | \$ 16,10 | \$ 13.911,35 | hr | 864,00 | \$ 5,33 | \$ 4.608,00 |
| E209 | Thermoplastic Lane Marker, manual-200kg capacity | hr | 1.152,00 | \$ 20,00 | \$ 23.040,00 | hr | 1152,00 | \$ 20,00 | \$ 23.040,00 |
| E210 | Water Truck with pump, 5000liters with spray | hr | 864,00 | \$ 34,56 | \$ 29.862,26 | hr | 864,00 | \$ 27,59 | \$ 23.634,88 |
| E211 | Concrete Mixer, 2-bagger | hr | 100,00 | \$ 21,57 | \$ 2.157,30 | hr | 100,00 | \$ 8,64 | \$ 864,29 |
| E212 | Dump Truck, 136 Hp | hr | 1.728,00 | \$ 34,32 | \$ 59.309,80 | hr | 1728,00 | \$ 15,00 | \$ 25.920,00 |
| E213 | Hydraulic Tel Boom Crane 11-15 tons | hr | 100,00 | \$ 80,95 | \$ 8.095,45 | hr | 100,00 | \$ 100,00 | \$ 10.000,00 |
| E214 | Generating Set, 180 Hp | hr | 1.152,00 | \$ 51,42 | \$ 59.240,45 | hr | 1152,00 | \$ 51,42 | \$ 59.240,45 |
| E215 | Welding Set electric, 300-400 amp | hr | 100,00 | \$ 17,50 | \$ 1.750,00 | hr | 100,00 | \$ 17,50 | \$ 1.750,00 |
| E216 | Concrete Cutter | hr | 100,00 | \$ 6,79 | \$ 678,65 | hr | 100,00 | \$ 6,00 | \$ 599,77 |
| E217 | Air Compressor, 92 Hp | hr | 100,00 | \$ 44,47 | \$ 4.447,16 | hr | 100,00 | \$ 31,35 | \$ 3.134,86 |
| E218 | Bar Cutter | hr | 100,00 | \$ 7,26 | \$ 726,84 | hr | 100,00 | \$ 7,26 | \$ 726,84 |
| E219 | Chainsaw | hr | 100,00 | \$ 6,00 | \$ 600,00 | hr | 100,00 | \$ 2,00 | \$ 200,00 |
| E220 | Water pump, 100 mm | hr | 100,00 | \$ 9,76 | \$ 975,64 | hr | 100,00 | \$ 9,76 | \$ 975,64 |
| E221 | Bar Bonder | hr | 100,00 | \$ 7,26 | \$ 726,84 | hr | 100,00 | \$ 7,26 | \$ 726,84 |
| E222 | Jack Hammer | hr | 100,00 | \$ 19,72 | \$ 1.971,90 | hr | 100,00 | \$ 4,00 | \$ 400,00 |
| | MATERIALS | | | | | | | | |
| E301 | Crushed Aggregate Base Course | m3 | 15.320,00 | \$ 47,32 | \$ 724.931,77 | m3 | 15320,00 | \$ 47,32 | \$ 724.931,77 |
| E302 | Aggregate Subbase Course | m3 | 11.490,00 | \$ 27,21 | \$ 312.625,79 | m3 | 11490,00 | \$ 27,21 | \$ 312.625,79 |
| E303 | Boulders | m3 | 1.500,00 | \$ 16,24 | \$ 24.361,45 | m3 | 1500,00 | \$ 16,24 | \$ 24.361,45 |
| E304 | Selected Fill Materials | m3 | 2.500,00 | \$ 15,74 | \$ 39.354,10 | m3 | 2500,00 | \$ 15,74 | \$ 39.354,10 |
| E305 | Bituminous Prime Coat using MC - Cut-back Asphalt | litr | 2.500,00 | \$ 0,00 | \$ 0,00 | litr | 2500,00 | \$ 0,60 | \$ 2.000,00 |
| E306 | Bituminous Concrete Surface Course, Hot Laid | tonne | 300,00 | \$ 26,69 | \$ 8.007,81 | tonne | 300,00 | \$ 168,02 | \$ 50.405,74 |
| E307 | Coarse Aggregates | m3 | 1.500,00 | \$ 47,32 | \$ 70.976,96 | m3 | 1500,00 | \$ 47,32 | \$ 70.976,96 |
| E308 | Fine Aggregate | m3 | 1.500,00 | \$ 31,47 | \$ 47.198,80 | m3 | 1500,00 | \$ 31,47 | \$ 47.198,80 |
| E309 | Portland Cement | bag | 300,00 | \$ 5,40 | \$ 1.620,00 | bag | 300,00 | \$ 5,41 | \$ 1.623,38 |
| E310 | Gabions (wire mesh baskets) | pcs | 20,00 | \$ 55,00 | \$ 1.100,00 | pcs | 20,00 | \$ 37,55 | \$ 750,92 |
| E311 | Reinforcing Steel Bars, Grade 40 | kg | 300,00 | \$ 1,30 | \$ 390,00 | kg | 300,00 | \$ 1,16 | \$ 347,02 |
| E312 | Guide Post | pcs | 20,00 | \$ 36,00 | \$ 720,00 | pcs | 20,00 | \$ 36,00 | \$ 720,00 |
| E313 | Thermoplastic Paint | litr | 800,00 | \$ 1,25 | \$ 1.000,00 | litr | 800,00 | \$ 6,00 | \$ 4.800,00 |
| PS | PROVISIONAL SUM | | | | | | | | |
| 202(1)c | Removal and Relocation of Existing Water Line Utilities | p.e. | 1,00 | \$ 150.000,00 | \$ 150.000,00 | p.s. | 1,00 | | |
| 202(1)d | Removal and Relocation of Existing Electrical Utilities | p.s. | 1,00 | \$ 250.000,00 | \$ 250.000,00 | p.s. | 1,00 | | |
| CON | CONTINGENCY | | | | \$ 200.000,00 | | | | |

D.R. e f



NATIONAL ROAD UPGRADING PROJECT
Upgrading and Maintenance of Aituto – Hatubuilico Road Project
CONTRACT PACKAGE 1 : Aituto - Hatubuilico Section
Sta. 0+000 – Sta. 11+900

OVERHEAD

OVERHEAD

| NO | ITEM DESCRIPTION | UNIT | QUANTITY | UNIT COST (\$) | TOTAL COST (\$) |
|-------|------------------|------|----------|----------------|-----------------|
| 1 | Site engineer | ls | 1,00 | \$ 14.000,00 | \$ 14.000,00 |
| 2 | Security | ls | 1,00 | \$ 4.200,00 | \$ 4.200,00 |
| TOTAL | | | | | \$ 18.200,00 |

P.R. R f