



DELIBERASAUN N. 29/III/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 ordinária iha loron Sexta-feira, 28 de Março de 2025, e halo deliberasaun ba assunto tuir mai ne'e:

Asuntu: Pedidu Aprovasaun nune'e mos konfirma finansiamentu iha Orsamentu FI 2025 ba projetu “Rehabilitation of National Road Link JCT. Lourba (Bobonaro) – Atsabe – JCT. Letefoho (Ermera) (48.93 km)”

Proponente: Ministério das Obras Publicas — MOP

Notas/justifikasiakaun:

- Bazeia ba despacho husi Ministro do MPIE ho karta no. Ref.: 355/CG-GMPIE/III/2025, data 10 de Março de 2025, ba karta pedidu husi S.E. Ministro das Obras Publicas Sr. Samuel Marçal, ho no. Ref.: 298/GAB.MOP/III/2025, data 10 de Março de 2025, ho asuntu: Pedido Agendamento CAFI ba projetu ne'ebe hetan ona verifikasiakaun husi ADN, I.P;
- Bazeia ba Decreto-Lei No. 13/2016, de 18 de maio, kona ba Regulamentu Fundo das Infraestruturas determina katak aprovisionamentu ba projetu sira finansiamentu husi Fundo Infraestruturas nian sei lao tuir regime Juridiku aprovisionamentu em vigor (Decreto-Lei No.22/2022 de 11 de Maio);
- Dono do projetu sei assume responsabilidade hodi assegura orsamentu ba Ezekusan no Implementasaun projetu;
- MOP nudar Projetu nain sei asume responsabilidade ba koordenaun entre entidade relevantes ba implementasaun projetu ne'e, e ba supervizaun, monitorizasaun e akompanhamentu ba projetu ne'e iha faze implementasaun, e sei garante kualidade servisu konstrusaun nian tuir espesifikasiakaun nebe aprova ona;

- Lista Proposta

| Naran projetu | Verifikasiakaun ADN,I.P. Kustu estimativa | Alokasaun orsamentu iha FI 2025 |
|--|--|--|
| “Rehabilitation of National Road Link JCT. Lourba (Bobonaro) – Atsabe – JCT. Letefoho (Ermera) (48.93 km)” | \$ 44,804,572.52 | <ul style="list-style-type: none">• Alokasaun FI 2025 : \$ 1,000,000.00• Programa 026: Estradas e Pontes, Sub-Programa Estrada Nasional & Municipal;• Kodigo atividade 0260914: - Novo Construsaun das Estradas Nacional, Letefoho – Atsabe A10 – 15 Km. |

DELIBERASAUN N.º29/III/CAFI/2025

Página 1 hosi 5

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



Conselho de
Administração

Rekomendasaun:

- 1) CAFI atu aprova nune'e mos konfirma disponibilidade orsamentu iha FI tinan 2025 ba projetu Rehabilitation of National Road Link JCT. Lourba (Bobonaro) – Atsabe – JCT. Letefoho (Ermera) (48.93 km), molok apresenta ba CdM autoriza despezas bazeia alinea 1 (a) Artigo 5º ba Decreto-Lei N.º 23/2022 De 19 De Maio, Competência Para A Autorização De Despesa;
- 2) Desizaun kona ba abertura ka inisiasaun prosesu aprovisionamento bazeia, Artigo 24 & 25, Decreto Lei No.43/2024, de 20 de Dezembro, regra ezekusaun OGE 2025;
- 3) Bazeia ba Decreto-Lei No. 13/2016, de 18 de maio, kona ba Regulamentu Fundo das Infraestruturas determina katak aprovisionamento ba projetu sira finansiamentu husi Fundo Infraestruturas nian sei lao tuir regime Juridiku aprovisionamento em vigor;
- 4) Modalidade aprovisionamento bazeia ba kustu projetu no sei lao tuir Decreto-Lei No.22/2022 de 11 de Maio;
- 5) Dono do projetu sei assume responsabilidade hodi assegura orsamentu ba Ezekusan no Implementasaun projetu;
- 6) MOP nudar Projetu nain sei asume responsabilidade ba koordenasaun entre entidade relevantes ba implementasaun projetu ne'e, e ba supervizaun, monitorizasaun e akompanhamentu ba projetu ne'e iha faze implementasaun, e sei garante kualidade servisu konstrusaun nian tuir espesifikasiadaun nebe aprova ona;

Desizaun:

- 1) CAFI aprova nune'e mos konfirma disponibilidade orsamentu iha FI tinan 2025, molok apresenta ba CdM autoriza despezas bazeia alinea 1 (a) Artigo 5º ba Decreto-Lei N.º 23/2022 De 19 De Maio, Competência Para A Autorização De Despesa;
- 2) Desizaun kona ba abertura ka inisiasaun prosesu aprovisionamento bazeia, Artigo 24 & 25, Decreto Lei No.43/2024, de 20 de Dezembro, regra ezekusaun OGE 2025;
- 3) Bazeia ba Decreto-Lei No. 13/2016, de 18 de maio, kona ba Regulamentu Fundo das Infraestruturas determina katak aprovisionamento ba projetu sira finansiamentu husi Fundo Infraestruturas nian sei lao tuir regime Juridiku aprovisionamento em vigor;
- 4) Modalidade aprovisionamento bazeia ba kustu projetu no sei lao tuir Decreto-Lei No.22/2022 de 11 de Maio;
- 5) Dono do projetu sei assume responsabilidade hodi assegura orsamentu ba Ezekusan no Implementasaun projetu;

DELIBERASAUN N.º29/III/CAFI/2025

Página 2 hosi 5

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N. F.



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



Conselho de
Administração

6) MOP nudar Projetu nain sei asume responsabilidade ba koordenasau entre entidade relevantes ba implementasaun projetu ne'e, e ba supervizaun, monitorizasaun e akompanhamentu ba projetu ne'e iha faze implementasaun, e sei garante kualidade servisu konstrusaun nian tuir espesifikasiasaun nebe aprova ona;

7) Lista aprovasaun CAFI:

| Naran projetu | Verifikasiasaun ADN,I.P. Kustu estimativa /Referensia | Alokasaun orsamentu iha FI 2025 | Orgaun Kompetenti Autoriza despezas – DL no. 23/2022, 19 de maio | |
|--|--|--|--|---|
| | | | Konfirma | Autoriza |
| “Rehabilitation of National Road Link JCT. Lourba (Bobonaro) – Atsabe – JCT. Letefoho (Ermera) (48.93 km)” | \$ 44,804,572.52 | <ul style="list-style-type: none">• Alokasaun FI 2025 : \$ 1,000,000.00• Programa 026: Estradas e Pontes, Sub-Programa Estrada Nasional & Municipal;• Kodigo atividade 0260914: - Novo Construsaun das Estradas Nacional, Letefoho – Atsabe A10 – 15 Km. | CAFI: Konfirma Finansiamentu | CdM: alinea 1 (a) Artigo Artigo 5. ^º Competência para a autorização da despesa. |

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Sous.

Mr



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



Conselho de
Administração

Aprovado husi CAFI iha loron 28 de março 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



Miguel Marques Gonçalves Manetelu

Ministro dos Transportes e Comunicações



Samuel Marçal

Ministro das Obras Públicas

DELIBERAÇAUN N.º29/III/CAFI/2025



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



**Conselho de
Administração**

Annexo:



AGÊNCIA DE DESENVOLVIMENTO NACIONAL - I.P.

(3)

Dili, 09 /Outubro/2024

Hato'ó ba : Sr. Eng. Aleixo Amaral do Carmo
Koordenador Unidade de Inspeção e Verificação para Pagamento – MOP

Cc : Sua Exeléncia Sr. Samuel Marçal
Ministro das Obras Públicas

Hosi : Rui Lourenço da Costa
Diretor Executivo - ADN, I.P.

Ref : 1504 /ADN, I.P./X/2024

Asuntu : Devolve Pedido Verifikasi - Project Provision of Consultancy Service for Preparation of Detailed Engineering Design (DED) Rehabilitation & Construction for Road & Bridge Link Jct. Lourba (Bobonaro) Atsabe Jct.
Lefefoh (Ermera) 48.98 Km

Ho Respeito,

Bazeia ba karta ho no ref: 957/UIVP-MOP/VIII/2024 ho data 09 de Agosto de 2024, ba asuntu ne'be mensiona iha leten, ekipa verifikasi Unidade Avaliação dos Projetos - ADN, I.P. ladauk bele halo verifikasi ba dokumentus refere tanba razaun hanesau tuir mai:

1. Dimensaun Drainage la Efikasia Kompara ho Rezultado Analiza Hidrologi kada Seksau catchment area (Pag. 1-18 Appendix IV Vol. I D & (Pag. 3-30 s/d 3-216 Ch.3 Vol. I B
2. *Design Retaining Wall* iha parte balun la kondis ho terreno (Pag. 2 Appendix II Vol. I D
3. Iha relatorio analiza Strutura *Retaining Wall*, todan Stone Manssory 27km/m³ (Pag. 8 s/d 143 Volume I D
4. Iha relatorio analiza Strutura *Retaining Wall Cantilever* angka safety factory ba *Overtuning* no *Sliding* la prience kriteria (Pag. 11 s/d 15 Volume I D)

Tanba ne'e rekomenda ba Dono do Projeto atu :

1. Halo revizaun dimensaun *drainage* bazeia ba rezultado analoza hidrologia kada seksau *catchment area* no dadus udan been
2. Halo revizaun dimensaun *Retaining wall Stone Masssory* tuir kondisaun terreno no dimensaun nebe'e efetivo no efikasia tuir specifikasaun, Excepto taping sungai
3. Halo revizaun ba todan *Stone Masssory* iha kalkulasaun analisa estrutura
4. Halo revizaun ba dimensaun *Cantilever Retaining Wall* tuir specifikasaun nebe'e iha.

Ho razaun ne'e mensiona iha leten ADN, I.P. devolye dokumentus refere ba Dono do Projeto.

Maka ne'e de'it ba ita Boot ninia Atensaun no Kolaborasaun Diak ami hato'o Obrigado Wain.



Bedik-Han, Fatulha
Dili - Timor-Leste
info@mpc.gov.tl
+670 3210 289



AGENCIA DE DESENVOLVIMENTO NACIONAL, I.P.

SUMMARY

PROJECT TITLE : Rehabilitation of National Road Link Jct. Lourba (Bobonaro) - Atsabe - Jct. Letefoho (Ermera) (48,93 km)
PROJECT LOCATION : Bobonaro to Ermera Municipality

| SECTION NO. | DESCRIPTION | VERIFIED BY OWNER AMOUNT (USD) | VERIFIED BY ADN, I.P. AMOUNT (USD) |
|-------------|--|-----------------------------------|---------------------------------------|
| 100 | GENERAL REQUIREMENT | \$ 1.208.923,61 | \$ 701.835,38 |
| 200 | EARTHWORK | \$ 4.039.806,05 | \$ 5.103.289,60 |
| 300 | SUBBASE AND BASE COURSE | \$ 3.752.350,23 | \$ 3.875.557,31 |
| 400 | SURFACE COURSE | \$ 12.545.734,37 | \$ 12.016.026,70 |
| 500 | BRIDGE CONSTRUCTION | \$ 10.757.053,57 | \$ 10.238.051,43 |
| 600 | DRAINAGE AND SLOPE PROTECTION STRUCTURES | \$ 5.298.366,65 | \$ 6.272.327,82 |
| 700 | MISCELLANEOUS STRUCTURES | \$ 1.219.980,44 | \$ 1.124.636,81 |
| 800 | BIOENGINEERING | \$ 47.518,23 | \$ 67.747,82 |
| A | CONSTRUCTION COST | \$ 38.869.733,16 | \$ 39.399.472,87 |
| B | CONTRACTOR FEE (A X 10%) | \$ 3.886.973,32 | \$ 3.939.947,29 |
| C | OVERHEAD | \$ 1.159.833,95 | \$ 586.631,34 |
| D | TAX 2 % (A+B+C) | \$ 855.134,13 | \$ 878.521,03 |
| E | TOTAL AMOUNT (A+B+C+D) | \$ 44.771.674,56 | \$ 44.804.572,52 |

Verified by :

(Eng. Mário Gusmão Mendes)

Enjineiro Civil, UAP - ADN, I.P.

Cheeked By :

(Eng. Rogerio Marcal Pires)
Chefe Departamento, ITIAS, UAP - ADN, I.P.

Certified By :

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



AGÉNCIA DE DESARROLLO NACIONAL, I., P.

BILL OF QUANTITY

PROJECT TITLE : Rehabilitation of National Road Link (ct. Louriba (Bohonaro) - Aitsabe - ct. Letefoho (Ermera) (48,93 km)

PROJECT LOCATION : Bobonaro to Ermera Municipality

| PAY ITEM | ITEM DESCRIPTION | VERIFIED BY OWNER | | | UNIT RATE US \$ | AMOUNT US \$ | UNIT | QUANTITY | VERIFIED BY ADN, I.P. | UNIT RATE US \$ | AMOUNT US \$ |
|----------------------------|---|-------------------|----------|-----------------|------------------------|--------------|------|----------|-------------------------|----------------------|--------------|
| | | UNIT | QUANTITY | UNIT RATE US \$ | | | | | | | |
| GENERAL REQUIREMENT | | | | | | | | | | | |
| 100 | GENERAL REQUIREMENT | | | | | | | | | | |
| 102.1 | Contractor's Mobilization | Ls | 1,00 | \$ 25,974,03 | Ls | 25,974,03 | Ls | 1,00 | \$ 44,936,68 | \$ 44,936,68 | |
| 102.2 | Contractor's Demobilization | Ls | 1,00 | \$ 21,174,44 | Ls | 21,174,44 | Ls | 1,00 | \$ 44,850,00 | \$ 44,850,00 | |
| 103 | Field Offices and Facilities for the Contractor | Ls | 1,00 | \$ 350,712,15 | \$ | 350,712,15 | Ls | 1,00 | \$ 148,229,68 | \$ 148,229,68 | |
| 104 | Office and Accommodation The Engineers | Ls | 1,00 | \$ 83,137,45 | \$ | 83,137,45 | Ls | 1,00 | \$ 81,201,95 | \$ 81,201,95 | |
| 105 | Vehicles for the Engineer | Ls | 1,00 | \$ 117,820,00 | \$ | 117,820,00 | Ls | 1,00 | \$ 115,720,00 | \$ 115,720,00 | |
| 106.1 | Laboratory Testing Services | Ls | 1,00 | \$ 132,613,43 | \$ | 132,613,43 | | | | | |
| 106.2 | Drilling, Including SPT and Report | Unit | 32,00 | \$ 3,915,63 | \$ | 125,300,00 | | | | | |
| 106.3 | PDA Test | Unit | 5,00 | \$ 3,000,00 | \$ | 15,000,00 | | | | | |
| 106.4 | CSL Test | Unit | 5,00 | \$ 1,600,00 | \$ | 8,000,00 | | | | | |
| 106.5 | PIT Test | Unit | 5,00 | \$ 500,00 | \$ | 2,500,00 | | | | | |
| 108.2 | Traffic Management and Safety | Ls | 1,00 | \$ 40,912,00 | \$ | 40,912,00 | | | | | |
| 108.4 | Temporary Roads or Bridge Works | Ls | 1,00 | \$ 80,941,72 | \$ | 80,941,72 | Ls | 1,00 | \$ 77,134,83 | \$ 77,134,83 | |
| 113 | Cleaning | Ls | 1,00 | \$ 23,038,40 | \$ | 23,038,40 | Ls | 1,00 | \$ 7,962,24 | \$ 7,962,24 | |
| 115.3 | Relocation of Existing Electric Utility Pole - Medium Voltage | Ea | 4,04,00 | \$ 450,00 | \$ | 181,800,00 | Ea | 40,400 | \$ 450,00 | \$ 181,800,00 | |
| | Sub Total 100 | | | | \$ 1,208,523,61 | | | | \$ Sub Total 100 | \$ 701,835,38 | |
| EARTHWORK | | | | | | | | | | | |
| 201.3 | Individual Removal of Trees (Small) | Ea | 5334,00 | \$ 11,69 | \$ | 62,355,31 | Ea | 5334,00 | \$ 15,77 | \$ 84,124,15 | |



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

BILL OF QUANTITY

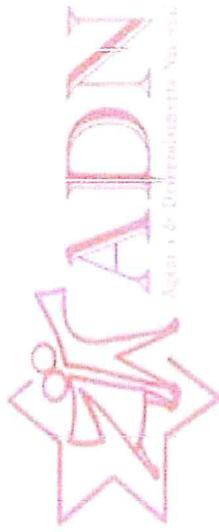
PROJECT TITLE

: Rehabilitation of National Road Link Ict. Lourba (Bobonaro) - Atsabe - Ict. Letefoho (Ermera) (48.93 km)

PROJECT LOCATION

: Bobonaro to Ermera Municipality

| PAY ITEM | ITEM DESCRIPTION | VERIFIED BY OWNER | | | | VERIFIED BY ADN, I.P. | | | |
|------------|---|-------------------|-----------|-----------------------|---------------------|-----------------------|-----------|----------------------|------------------------|
| | | UNIT | QUANTITY | UNIT RATE US \$ | AMOUNT US \$ | UNIT | QUANTITY | UNIT RATE US \$ | AMOUNT US \$ |
| 201.4 | Individual Removal of Trees (Large) | Ea | 219.00 | \$ 47,91 | \$ 10,491,36 | Ea | 219.00 | \$ 71,25 | \$ 15,604,13 |
| 201.5 | Individual Removal of Trees (Small) | Ea | 6,00 | \$ 35,47 | \$ 512,81 | Ea | 6,00 | \$ 639,37 | \$ 4,016,22 |
| 202.1a | Removal of Structures and Obstructions (Concrete) | Cum | 582,92 | \$ 14,78 | \$ 8,614,01 | Cum | 582,92 | \$ 12,97 | \$ 7,558,42 |
| 202.1b | Removal of Structures and Obstructions (Stone) | Cum | 10661,28 | \$ 8,31 | \$ 88,618,03 | Cum | 10661,28 | \$ 10,60 | \$ 113,033,73 |
| 202.1C | Removal of Structures and Obstructions (Steel) | Sq.m | 197,33 | \$ 13,77 | \$ 2,716,79 | Sq.m | 197,33 | \$ 13,77 | \$ 2,716,79 |
| 202.3 | Removal of Pavement, Sidewalks, Curbs, etc. | Sq.m | 148199,80 | \$ 3,19 | \$ 472,964,54 | Sq.m | 148199,80 | \$ 2,67 | \$ 396,383,47 |
| 203.2 | Surplus Common Excavation | Cum | 371506,35 | \$ 2,69 | \$ 999,214,53 | Cum | 37124,44 | \$ 2,36 | \$ 877,599,09 |
| 203.3 | Surplus Rock Excavation | Cum | 173968,12 | \$ 5,47 | \$ 951,414,93 | Cum | 173773,51 | \$ 12,97 | \$ 2,253,242,29 |
| 204.1 | Structure Excavation | Cum | 10826,89 | \$ 3,72 | \$ 40,287,24 | Cum | 10826,89 | \$ 3,65 | \$ 39,551,60 |
| 205.1 | Common Embankment | Cum | 57725,06 | \$ 4,96 | \$ 286,137,76 | Cum | 57703,86 | \$ 4,00 | \$ 230,600,08 |
| 205.2 | Selected Embankment | Cum | 42656,46 | \$ 18,31 | \$ 781,104,59 | Cum | 42656,46 | \$ 19,60 | \$ 835,888,83 |
| 205.3 | Granular Selected Embankment | Cum | 2595,31 | \$ 25,62 | \$ 66,492,68 | Cum | 2595,31 | \$ 19,60 | \$ 50,857,30 |
| 206 | Subgrade Preparation (Common Material) | Sqm | 293469,91 | \$ 0,92 | \$ 268,881,48 | Sqm | 293469,91 | \$ 0,65 | \$ 192,113,52 |
| | | | | \$ 0 Total 200 | 4,039,806,05 | | | Sub Total 200 | \$ 5,103,289,60 |
| 300 | SUBBASE AND BASE COURSE | | | | | | | | |
| 303.1 | Aggregate Base Class A | Cum | 44590,72 | \$ 38,44 | \$ 1,714,030,87 | Cum | 44590,72 | \$ 57,86 | \$ 2,580,119,97 |
| 303.2 | Aggregate Sub Base Course | Cum | 73480,72 | \$ 27,74 | \$ 2,038,319,37 | Cum | 73480,72 | \$ 17,63 | \$ 1,295,437,33 |
| | | | | \$ 0 Total 300 | 3,752,350,23 | | | Sub Total 300 | \$ 3,875,557,31 |



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I.P.

BILL OF QUANTITY

PROJECT TITLE : Rehabilitation of National Road Link [ct. Lourba (Bobonaro) - Atsabe - Jct. Letefoho (Ermera) (48.93 km)

PROJECT LOCATION : Bobonaro to Ermera Municipality

| PAY ITEM | ITEM DESCRIPTION | VERIFIED BY OWNER | | | | VERIFIED BY ADN, I.P. | | |
|--|------------------|-------------------|-------------|---------------------------------------|--------------|-----------------------|-----------|---------------------------------------|
| | | UNIT | QUANTITY | UNIT RATE US \$ | AMOUNT US \$ | UNIT | QUANTITY | UNIT RATE US \$ |
| 400 SURFACE COURSE | | | | | | | | |
| 402 Prime Coat | Ltr | 251879.99 | \$ 1.27 | \$ 320,371.88 | Ltr | 251879.99 | \$ 1.44 | \$ 363,545.79 |
| 403 Tack Coat | Ltr | 103114.72 | \$ 1.33 | \$ 137,364.61 | Ltr | 103114.72 | \$ 0.89 | \$ 91,820.97 |
| 411.5a Asphaltic Concrete - Wearing Course (AC-WC), 4 cm | Sqm | 297382.29 | \$ 16.68 | \$ 4,960,866.03 | Sqm | 297382.29 | \$ 16.45 | \$ 4,890,916.78 |
| 411.5c Asphaltic Concrete - Wearing Course (AC-WC), 5 cm | Sqm | 1613.84 | \$ 23.73 | \$ 38,304.08 | Sqm | 1613.84 | \$ 20.39 | \$ 32,903.17 |
| 411.6a Asphaltic Concrete - Binder Course (AC-BC), 6 cm | Cum | 17737.79 | \$ 398.52 | \$ 7,088,827.77 | Cum | 17737.79 | \$ 373.11 | \$ 6,636,839.99 |
| | | | | Sub Total 400 \$ 12,545,734.87 | | | | Sub Total 400 \$ 12,016,026.70 |
| 500 BRIDGE CONSTRUCTION | | | | | | | | |
| 501.16(c) Concrete Piles Cast in Drilled Holes Ø 40 cm | m | 2712.00 | \$ 183.73 | \$ 498,289.15 | m | 2712.00 | \$ 211.12 | \$ 572,544.26 |
| 502.1 Railing | Lnm | 355.60 | \$ 27.98 | \$ 9,948.88 | Lnm | 355.60 | \$ 25.47 | \$ 9,057.13 |
| 504.3 Structural Steel, Furnished and Fabricated | Kg | 91006.85 | \$ 3.92 | \$ 357,180.90 | Kg | 91006.85 | \$ 3.97 | \$ 361,297.19 |
| 504.5 Structural Steel Erected | Kg | 91006.85 | \$ 0.31 | \$ 28,341.44 | Kg | 91006.85 | \$ 0.31 | \$ 28,341.44 |
| 505.1 Reinforcing Steel (dia. ≥ 13 mm = BITS 420B) | Kg | 1732793.47 | \$ 1.67 | \$ 2,890,353.32 | Kg | 173321.17 | \$ 1.80 | \$ 3,119,978.10 |
| 505.2 Reinforcing Steel (dia. < 13 mm = BITP 280) | Kg | 264128.29 | \$ 1.57 | \$ 413,368.97 | Kg | 264510.05 | \$ 1.80 | \$ 476,118.09 |
| 505.3(a) Anchor Fix | Ea | 72.00 | \$ 125.51 | \$ 9,036.44 | Ea | 72.00 | \$ 125.51 | \$ 9,036.44 |
| 505.3(b) Anchor Movement | Ea | 48.00 | \$ 162.36 | \$ 7,793.22 | Ea | 48.00 | \$ 162.36 | \$ 7,793.22 |
| 506.2.8(a) Expansion Joint Strip Seal Fix (IP 30 Seamless - Buried Seal Joint) | Lnm | 15.00 | \$ 1,018.23 | \$ 15,273.51 | Lnm | 15.00 | \$ 504.62 | \$ 7,569.34 |
| 506.2.8(b) Expansion Joint Strip Seal Movemen (SSM 75) | Lnm | 21.00 | \$ 969.19 | \$ 20,352.91 | Lnm | 21.00 | \$ 453.13 | \$ 9,620.69 |



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I.P.

BILL OF QUANTITY

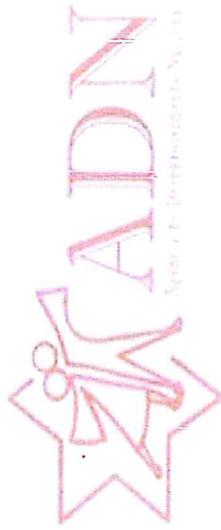
PROJECT TITLE

: Rehabilitation of National Road Link [ct Lourba (Bobonaro) - Atsabe - lct Letefoho (Ermera) (48.93 km)]

PROJECT LOCATION

: Bobonaro to Ermera Municipality

| PAY ITEM | ITEM DESCRIPTION | VERIFIED BY OWNER | | | | VERIFIED BY ADN, I.P. | | | |
|---|---|-------------------|----------|-------------------------|-----------------|-----------------------|----------|----------------------|-------------------------|
| | | UNIT | QUANTITY | UNIT RATE US \$ | AMOUNT US \$ | UNIT | QUANTITY | UNIT RATE US \$ | AMOUNT US \$ |
| 508.1 | Structural Concrete, Class "A" (35 Mpa) Non Shrinkage | C.m | 2.16 | \$ 648.07 | \$ 1,402.93 | C.un | 2.16 | \$ 359.23 | \$ 777.66 |
| 508.2 | Structural Concrete, Class "A" (30 Mpa) | C.m | 12279.79 | \$ 299.81 | \$ 3,681,557.73 | C.un | 12249.26 | \$ 223.41 | \$ 2,736,546.93 |
| 508.3 | Structural Concrete, Class "A" (21 Mpa) | C.m | 935.24 | \$ 176.80 | \$ 165,371.17 | C.un | 935.24 | \$ 177.03 | \$ 165,364.66 |
| 508.4a | Structural Concrete, Class "A" (15 Mpa) | C.m | 14723.63 | \$ 157.83 | \$ 2,323,879.82 | C.un | 14723.63 | \$ 164.89 | \$ 2,427,852.26 |
| 508.4b | Structural Concrete, Class "A" (15 Mpa, Cyclop) | C.m | 694.59 | \$ 127.67 | \$ 88,675.74 | C.un | 694.59 | \$ 146.47 | \$ 101,736.14 |
| 508.5 | Structural Concrete, Class "A" (10 Mpa) | C.m | 1773.75 | \$ 121.49 | \$ 215,497.13 | C.un | 1773.75 | \$ 105.40 | \$ 186,954.61 |
| 512.2 | Elastomeric Bearing Pad 55.0x46.0x49 mm | Ea | 56.00 | \$ 306.58 | \$ 17,168.21 | Ea | 56.00 | \$ 216.09 | \$ 12,101.23 |
| 512.3 | Elastomeric Bearing Pad 40.0x45.0x45 mm | Ea | 24.00 | \$ 357.50 | \$ 8,580.07 | Ea | 24.00 | \$ 160.27 | \$ 3,846.56 |
| 512.4 | Elastomeric Bearing Pad 26.0x22.0x46 mm | Ea | 20.00 | \$ 248.80 | \$ 4,976.03 | Ea | 20.00 | \$ 65.77 | \$ 1,315.47 |
| | Sub Total 500 | | | \$ 10,757,053.57 | | | | Sub Total 500 | \$ 10,238,051.43 |
| 600 DRAINAGE AND SLOPE PROTECTION STRUCTURES | | | | | | | | | |
| 601.1a | Pipe Culverts, Ø1200 mm | L.n.m | 157.10 | \$ 211.63 | \$ 33,247.56 | L.n.m | 157.10 | \$ 359.53 | \$ 56,482.48 |
| 601.1c | Pipe Culverts, Ø400 mm (Half of Pipe Culvert) | L.n.m | 6268.95 | \$ 19.07 | \$ 119,533.41 | L.n.m | 6268.95 | \$ 19.07 | \$ 119,533.41 |
| 603.2 | Inlets, type Deck Drain | Ea | 56.00 | \$ 106.38 | \$ 5,957.03 | Ea | 56.00 | \$ 106.38 | \$ 5,957.03 |
| 604.4a | PVC 6" Dia | L.n.m | 105.80 | \$ 18.42 | \$ 1,948.56 | L.n.m | 105.80 | \$ 15.20 | \$ 1,607.90 |
| 604.4b | PVC 2" Dia (for Retaining Wall) | L.n.m | 19268.75 | \$ 2.17 | \$ 41,896.18 | L.n.m | 19243.67 | \$ 2.49 | \$ 47,964.84 |
| 605.1 | Riprap, Class A | C.m | 672.00 | \$ 35.67 | \$ 23,970.82 | C.un | 672.00 | \$ 26.93 | \$ 18,096.96 |
| 605.9 | Filter Layer of Granular Material | C.m | 5284.19 | \$ 24.41 | \$ 129,011.06 | C.un | 5284.19 | \$ 19.60 | \$ 103,548.01 |



AGENCIA DE DESENVOLVIMENTO NACIONAL, I. P.

BILL OF QUANTITY

PROJECT TITLE

: Rehabilitation of National Road Link Jct. Lourinha (Bobonaro) - Atsabe - Jct. Letefoho (Ermera) (48.93 km)

PROJECT LOCATION

: Bobonaro to Ermera Municipality

| PAY ITEM | ITEM DESCRIPTION | VERIFIED BY OWNER | | | VERIFIED BY ADN, I.P. | | | | | | | | | |
|----------|--|-------------------|----------|-----------------|-----------------------|------|------------------------|-----------------|--------------|----|----------|----|----------------------|-------------------------|
| | | UNIT | QUANTITY | UNIT RATE US \$ | AMOUNT US \$ | UNIT | QUANTITY | UNIT RATE US \$ | AMOUNT US \$ | | | | | |
| 606 | Stone Masonry | Cum | 88531.26 | \$ | 55,45 | \$ | 4.908.748,76 | Cum | 88746.39 | \$ | 66,33 | \$ | 5.886.355,52 | |
| 610.1 | Gabions (0.5 x 1 x 2 m) | Cum | 689,16 | \$ | 49,41 | \$ | 34.053,27 | Cum | 689,16 | \$ | 47,55 | \$ | 32.771,60 | |
| | | | | | Sub Total 600 | | \$ 5.298.366,65 | | | | | | Sub Total 600 | \$ 6.272.327,82 |
| 700 | MISCELLANEOUS STRUCTURES | | | | | | | | | | | | | |
| 703.4 | Guide posts | Ea | 5563,00 | \$ | 12,56 | \$ | 70.258,21 | Ea | 5593,00 | \$ | 12,56 | \$ | 70.238,21 | |
| 704.3 | Metal Guardrail (Metal Beam) | L.n.m | 3020,00 | \$ | 124,44 | \$ | 375.817,72 | L.n.m | 3020,00 | \$ | 75,57 | \$ | 228.211,13 | |
| 706.1 | Warning Signs | Ea | 2774,00 | \$ | 137,93 | \$ | 382.614,36 | Ea | 2774,00 | \$ | 135,31 | \$ | 375.354,78 | |
| 706.3 | Informatory Signs | Ea | 6,00 | \$ | 184,25 | \$ | 1.105,51 | Ea | 6,00 | \$ | 135,31 | \$ | 811,87 | |
| 707.1 | Pavement Marking (Reflective) | Ea | 13756,95 | \$ | 25,69 | \$ | 353.479,44 | Ea | 13756,95 | \$ | 30,04 | \$ | 413.295,63 | |
| 710.1 | Single Arm Street Lighting Lamp 120 Watt Sodium Type | Unit | 6,00 | \$ | 2.505,06 | \$ | 15.030,37 | Unit | 6,00 | \$ | 2.505,06 | \$ | 15.030,37 | |
| 714.4 | Reinstatement of Concrete | Cum | 4,69 | \$ | 290,65 | \$ | 1.362,66 | Cum | 4,69 | \$ | 290,65 | \$ | 1.362,66 | |
| 714.2 | Expansion Joint (Ashphaltic plug) | L.n.m | 84,80 | \$ | 239,77 | \$ | 20.332,16 | L.n.m | 84,80 | \$ | 239,77 | \$ | 20.332,16 | |
| | | | | | Sub Total 700 | | \$ 1.219.930,44 | | | | | | Sub Total 700 | \$ 1.124.636,81 |
| 800 | BIOENGINEERING | | | | | | | | | | | | | |
| 809.1 | Geotextile Filter | Sq.m | 26884,06 | \$ | 1,77 | \$ | 47.518,23 | Sq.m | 26884,06 | \$ | 2,52 | \$ | 67.747,82 | |
| | | | | | Sub Total 800 | | \$ 47.518,23 | | | | | | Sub Total 800 | \$ 67.747,82 |
| | | | | | TOTAL | | \$ 38.869,33,16 | | | | | | TOTAL | \$ 39.399,472,87 |



AGÊNCIA DE DESENVOLVIMENTO NACIONAL - P

OVERHEAD

PROJECT TITLE : Rehabilitation of National Road Link Jct. Lourba (Bobonaro) - Atsabe - Jct. Letefoho (Ermera) (48,93 km)

PROJECT LOCATION : Bobonaro to Ermera Municipality

| PAY ITEM | ITEM DESCRIPTION | VERIFIED BY ADN, I.P. | | | |
|----------|----------------------------------|-----------------------|----------|-------------------|----------------------|
| | | UNIT | QUANTITY | UNIT RATE US \$ | AMOUNT US \$ |
| I | PROJECT TEAM | | | | |
| 1 | Project Manager | Ls | 1,00 | \$ 36.000,00 | \$ 36.000,00 |
| | Site Manager | Ls | 1,00 | \$ 48.000,00 | \$ 48.000,00 |
| | Site Engineer | Ls | 1,00 | \$ 48.000,00 | \$ 48.000,00 |
| | Quality Control | Ls | 1,00 | \$ 10.000,00 | \$ 10.000,00 |
| | Surveyor | Ls | 1,00 | \$ 22.000,00 | \$ 22.000,00 |
| | Logistics | Ls | 1,00 | \$ 12.000,00 | \$ 12.000,00 |
| | Administration | Ls | 1,00 | \$ 9.600,00 | \$ 9.600,00 |
| | Cleaning Staff | Ls | 1,00 | \$ 7.200,00 | \$ 7.200,00 |
| | Security | Ls | 1,00 | \$ 14.400,00 | \$ 14.400,00 |
| II | OPERATIONAL COST | | | | |
| | Stationary | Ls | 1,00 | \$ 4.800,00 | \$ 4.800,00 |
| | Communication | Ls | 1,00 | \$ 1.200,00 | \$ 1.200,00 |
| | Electricity | Ls | 1,00 | \$ 2.400,00 | \$ 2.400,00 |
| | Water | Ls | 1,00 | \$ 2.400,00 | \$ 2.400,00 |
| | Daily, weekly, monthly reports | Ls | 1,00 | \$ 1.200,00 | \$ 1.200,00 |
| | Shop drawings, as built drawings | Ls | 1,00 | \$ 3.000,00 | \$ 3.000,00 |
| | Material Sampling & Testing | Ls | 1,00 | \$ 321.931,34 | \$ 321.931,34 |
| | PDA Test | Ls | 1,00 | \$ 15.000,00 | \$ 15.000,00 |
| | CSL Test | Ls | 1,00 | \$ 8.000,00 | \$ 8.000,00 |
| | PIT Test | Ls | 1,00 | \$ 2.500,00 | \$ 2.500,00 |
| | Traffic Management and Safety | Ls | 1,00 | \$ 15.000,00 | \$ 15.000,00 |
| III | SOCIAL COST | | | | |
| I | Launch and Completion ceremony | Ls | 1,00 | \$ 2.000,00 | \$ 2.000,00 |
| | | | | TOTAL COST | \$ 586.631,34 |



REPÚBLICA FEDERATIVA DO TOCANTINS
MINISTÉRIO DA INFRAESTRUTURA
MINISTÉRIO DAS OBRAS PÚBLICAS
GOVERNO CONSTITUCIONAL



Ministério das Obras Públicas

CONTRACT NO.
 PROJECT NAME
 LOCATION OF PROJECT
 NAME OF CONTRACTOR

SNS114/MOP-2024
 Package I Konstruksaun Check Dam 02 Mota Concreto, Kasnafac, Dist. Tocantins
 São Contra, Posto Alm. Dom Afonso, Municipio Dist.
 Elikay Unipessoal Ltda

| ITEM NO. | ITEM DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT (\$) | WORK WAVE % | INCREASE (%) | DECREASE (%) | AMOUNT | % | Quantity | Density (%) | AMOUNT | % | Quantity | Total Cost (\$) | % | Remark | REVISED CONTRACT AMOUNTMENT | | |
|----------|--|------|-----------------------|-------------|-----------------|-------------|--------------|--------------|--------|---|----------|-------------|--------|---|----------|-----------------|---|--------|-----------------------------|--|--|
| | | | | | | | | | | | | | | | | | | | | | |
| 100 | GENERAL REQUIREMENTS | | | | | | | | | | | | | | | | | | | | |
| 102.1 | Mobilization | Lt. | 1.00 | \$ 8,025.60 | \$ 8,025.60 | 0.5% | | | | | | | | | | | | | | | |
| | TOTAL (\$) | | \$8 TOTAL (00) | | | | | | | | | | | | | | | | | | |
| 300 | EARTH WORKS | | | | | | | | | | | | | | | | | | | | |
| 204.1 | Structure Excavation | Cu.m | 8,121.06 | \$ 2.91 | \$ 23,644.39 | 1.54% | | | | | | | | | | | | | | | |
| 205.2 | Common Embankment | Cu.m | 309.54 | \$ 3.27 | \$ 1,995.14 | 0.11% | | | | | | | | | | | | | | | |
| | TOTAL (\$) | | \$8 TOTAL (00) | | | | | | | | | | | | | | | | | | |
| 500 | BRIDGE CONSTRUCTION | | | | | | | | | | | | | | | | | | | | |
| 505 | Reinforcing Steel | Kg | 56,046.26 | \$ 1.59 | \$ 89,001.46 | 5.03% | | | | | | | | | | | | | | | |
| 506.1c | Structural Concrete 10 MPa (Lean Concrete) | Cu.m | 269.31 | \$ 97.95 | \$ 26,378.81 | 1.49% | | | | | | | | | | | | | | | |
| 506.1e | Structural Concrete Cyllop 21 MPa | Cu.m | 8,769.36 | \$ 133.11 | \$ 1,167,303.69 | 65.91% | | | | | | | | | | | | | | | |
| 506.1f | Structural Concrete 21 MPa | Cu.m | 1,134.75 | \$ 223.98 | \$ 256,431.75 | 1.448% | | | | | | | | | | | | | | | |
| | TOTAL (\$) | | \$8 TOTAL (00) | | | | | | | | | | | | | | | | | | |
| A | CONSTRUCTION GST | | | | | | | | | | | | | | | | | | | | |
| B | CONTRACTOR FEE AND OVERHEAD (AV 10%) | | | | | | | | | | | | | | | | | | | | |
| C | OVERHEAD | | | | | | | | | | | | | | | | | | | | |
| D | CONSTRUCTION TAX (A+B+C X 25%) | | | | | | | | | | | | | | | | | | | | |
| E | GRAND TOTAL (A+B+C+D) | | | | | | | | | | | | | | | | | | | | |
| | GRAND TOTAL (\$) | | \$ 170,831.64 | | | | | | | | | | | | | | | | | | |

Prepared By :

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Eng. Triola de Jesus da Costa

Eng. Marzena da Costa Siba
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 (UVC - MOP)

Checked By :

Certified By :



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 Coordenador Geral da Unidade de Inspeção e Verificação Para
 Projetos (UVP - MOP)