



DELIBERASAUN N. 88/VII/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 Iorom Quinta-feira, 17 de julho de 2025, e halo deliberasaun ba assunto tuir mai ne'e:

**Asuntu:** Pedidu Aprovasaun no autorizasaun despesas nune'e mos Konfirma Finansiamentu iha FI 2025 ba projetu hanesan tuir mai:

1. *Rehabilitation Of Road Of Umaboco-Viqueque Demolition & Reinstallation Of Welolo Bridge, District Viqueque,Timor Leste;*
2. *National Road Rehabilitation Arterial A12 Jct. Oelev - Lourba - Zulo - Fatuleto, Covalima Municipal and Bobonaro Municipal;*
3. *Urban Road And Drainage Rehabilitation Gleno Town Package 1,Section 1,2,6,7,8,9,,10,11,21,22,23,24,25,26,27,28,29,30 & 31, Ermera Municipality;*
4. *Urban Road And Drainage Rehabilitation Gleno Town Package 2, Section 3,4,5,12,14,15,16,17,18,19,20, Ermera Municipality;*
5. *Rehabilitation of Batugade Road Package I Sta. 0+000 – 8+000 (8 km);*
6. *Rehabilitation of Batugade Road Package II Sta. 8+000 – 12+980 (4.98 km);*

**Proponente:** Ministério das Obras Públicas - MOP

**Notas/justifikasiun:**

- SGP simu Karta pedidu husi Sua Excelência Ministro Obras Publicas Sr. Samuel Marçal, ho karta no. Ref.: 1360/GAB.MOP/VII/2025, data 16 de julho de 2025, ho asuntu: Pedido Agendamento CAFI;
- Desizaun kona ba abertura ka inisiasiun 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 assume 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 espesifikasi saun nebe aprova ona;

□ Lista Proposta:

No.	Naran Projetu	Resultadu Verifikasi saun ADN,I.P./referensia	Alokasaun Orsamentu FI / kodigu atividade
1	National Road Rehabilitation Arterial A12 Jct. Oeleu - Lourba - Zulo - Fatuleto, Covalima Municipal and Bobonaro Municipal	\$ 15,772,518.33	<ul style="list-style-type: none"> <li>• Alokasaun FI 2025 : \$ 750,000.00</li> <li>• Programa 026: Estradas e Pontes, Sub-Programa Pontes;</li> <li>• Kodigo atividade 026059X: Rehabilitasaun Estrada Nacional, Jct. Oeleu – Lourba – Zulo Fatuletu (A12), 26 Km.</li> </ul>
2	Rehabilitation Of Road Of Umaboco-Viqueque Demolition & Reinstallation Of Welolo Bridge, District Viqueque,Timor Leste	\$ 4,398,863.24	<ul style="list-style-type: none"> <li>• Alokasaun FI 2025 : \$ 250,000.00</li> <li>• Programa 026: Estradas e Pontes, Sub-Programa Pontes;</li> <li>• Kodigo atividade 0260904: Reabilitasaun Ponte Welolo - Viqueque.</li> </ul>
3	Urban Road And Drainage Rehabilitation Gleno Town Package 1,Section 1,2,6,7,8,9,,10,11,21,22,23,24 ,25,26,27,28,29,30 & 31, Ermera Municipality	\$ 2,640,726.61	<ul style="list-style-type: none"> <li>• Alokasaun FI 2025 : \$ 0</li> <li>• Programa 026: Estradas e Pontes, Sub-Programa Pontes;</li> <li>• Kodigo atividade 026059Y: Rehabilitasaun Estrada Nacional, From Bridge steel truss - Gleno Villa (A04), 6.4Km</li> </ul>
4	Urban Road And Drainage Rehabilitation Gleno Town Package 2, Section 3,4,5,12,14,15,16,17,18,19,20 , Ermera Municipality	\$ 3,214,929.67	<ul style="list-style-type: none"> <li>• Alokasaun FI 2025 : \$ 0</li> <li>• Programa 026: Estradas e Pontes, Sub-Programa Pontes;</li> <li>• Kodigo atividade 026059Y: Rehabilitasaun Estrada Nacional, From Bridge steel truss - Gleno Villa (A04), 6.4Km</li> </ul>
5	Rehabilitation of Batugade Road Package I Sta. 0+000 – 8+000 (8 km)	\$ 3,259,499.99	<ul style="list-style-type: none"> <li>• Alokasaun FI 2025 : \$ 500,000.00;</li> <li>• Programa 026: Estradas e Pontes, Sub-Programa Pontes;</li> <li>• Kodigo atividade 0260910: Batugade - Balibo (Novo Construsaun das Estradas, Nacional Batugade - Balibo A03 Sta, 0+000 - 41+300 Km)</li> </ul>



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



**Conselho de  
Administração**

No.	Naran Projetu	Resultadu Verifikasi ADN,I.P./referensia	Alokasaun Orsamentu FI / kodigu atividade
6	Rehabilitation of Batugade Road Package II Sta. 8+000 – 12+980 (4.98 km)	\$ 4,214,603.19	<ul style="list-style-type: none"> <li>• Alokasaun FI 2025 :\$ 500,000.00;</li> <li>• Programa 026: Estradas e Pontes, Sub-Programa Pontes;</li> <li>• Kodigo atividade 0260910: Batugade - Balibo (Novo Construsaun das Estradas, Nacional Batugade - Balibo A03 Sta, 0+000 - 41+300 Km)</li> </ul>

**Rekomendasaun:**

- 1) CAFI atu Autoriza no aprova despezas 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, molok CdM autoriza despezas bazeia alinea 1 (a) Artigo 5º Dekreto Lei 23/2022, de 19 de Maio, Competência Para a Autorização de Despesa;
- 3) Refere ba lista no.2, 3, 4,5 no 6 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;
- 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;
- 6) Modalidade aprovizionamento sei lao tuir Regime Juridiku Aprovizionamento em vigor, (Decreto-Lei No.22/2022 de 11 de Maio);
- 7) Dono do projetu sei assume responsabilidade hodi assegura orsamentu ba, Ezekusaun no Implementasaun projetu;
- 8) 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 espesifikasiuna nebe aprova ona;

**Desizaun:**

1. CAFI Autoriza no aprova despezas nune'e mos konfirma finasiamentu iha FI tinan 2025, bazeia ba pedidu husi Ministério das Obras Publicas - MOP;

**DELIBERAUSAUN N.º88/VII/CAFI/2025**



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



Conselho de  
Administração

2. Refere ba lista no. 1, 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;
3. Refere ba lista no. 2, 3, 4, 5 no 6 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;
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9. Lista aprovasaun CAFI:

No.	Naran Projetu	Resultadu Verifikasiun ADN,I.P./referensi a	Alokasaun Orsamentu FI / kodigu atividade	Orgaun Kompetênti - DL No. 23/2022, 19 de Maio
1	National Road Rehabilitation Arterial A12 Jct. Oeleu - Lourba - Zulo - Fatuleto, Covalima Municipal and Bobonaro Municipal	\$ 15,772,518.33	<ul style="list-style-type: none"><li>• Alokasaun FI 2025 : \$ 750,000.00</li><li>• Programa 026: Estradas e Pontes, Sub-Programa Pontes;</li><li>• Kodigo atividade 026059X: Rehabilitasaun Estrada Nacional, Jct. Oeleu – Lourba – Zulo Fatuletu(A12), 26 Km.</li></ul>	<ul style="list-style-type: none"><li>• CAFI : Konfirmasasaun Finansiamenti;</li><li>• CdM: alinea 1 (a) Artigo Artigo 5º Competência para a autorização da despesa.</li></ul>



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



**Conselho de  
Administração**

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2	Rehabilitation Of Road Of Umaboco-Viqueque Demolition & Reinstallation Of Welolo Bridge, District Viqueque,Timor Leste	\$ 4,398,863.24	<ul style="list-style-type: none"> <li>• Alokasaun FI 2025 : \$ 250,000.00</li> <li>• Programa 026: Estradas e Pontes, Sub-Programa Pontes;</li> <li>• Kodigo atividade 0260904: Reabilitasaun Ponte Welolo - Viqueque.</li> </ul>	<ul style="list-style-type: none"> <li>• CAFI : Konfirmasasaun Finansiamantu;</li> <li>• CAFI: alinea 1 (b) Artigo Artigo 5.<sup>o</sup> Competência para a autorização da despesa.</li> </ul>
3	Urban Road And Drainage Rehabilitation Gleno Town Package 1,Section 1,2,6,7,8,9,,10,11,21, 22,23,24,25,26,27,28, 29,30 & 31, Ermera Municipality	\$ 2,640,726.61	<ul style="list-style-type: none"> <li>• Alokasaun FI 2025 : \$ 0</li> <li>• Programa 026: Estradas e Pontes, Sub-Programa Pontes;</li> <li>• Kodigo atividade 026059Y: Rehabilitasaun Estrada Nacional, From Bridge steel truss - Gleno Villa (A04), 6.4Km</li> </ul>	<ul style="list-style-type: none"> <li>• CAFI : Konfirmasasaun Finansiamantu;</li> <li>• CAFI: alinea 1 (b) Artigo Artigo 5.<sup>o</sup> Competência para a autorização da despesa.</li> </ul>
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**DELIBERASAUN N.º88/VII/CAFI/2025**



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



Conselho de  
Administração

No.	Naran Projetu	Resultadu Verifikasi saun ADN,I.P./referensi a	Alokasaun Orsamentu FI / kodigu atividade	Orgaun Kompetênti - DL No. 23/2022, 19 de Maio
6	Rehabilitation of Batugade Road Package II Sta. 8+000 – 12+980 (4.98 km)	\$ 4,214,603.19	<ul style="list-style-type: none"><li>• Alokasaun FI 2025 :\$ 500,000.00;</li><li>• Programa 026: Estradas e Pontes, Sub-Programa Pontes;</li><li>• Kodigo atividade 0260910: Batugade - Balibo (Novo Construsaun das Estradas, Nacional Batugade - Balibo A03 Sta, 0+000 – 41+300 Km)</li></ul>	<ul style="list-style-type: none"><li>• CAFI : Konfirmasasaun Finansiamentu;</li><li>• CAFI: alinea 1 (b) Artigo Artigo 5.<sup>º</sup> Competência para a autorização da despesa.</li></ul>

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



Conselho de  
Administração

Aprovado husi CAFI iha loron 17 de Julho 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 Participa iha Reunião)



Miguel Marques Gonçalves Manetelu

Ministro dos Transportes e Comunicações

Samuel Marçal

Ministro das Obras Públicas

DELIBERASAUN N.º88/VII/CAFI/2025



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



**Conselho de  
Administração**

**Annexo:**



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



GABINETE DO MINISTRO DAS OBRAS PÚBLICAS

Dili, 16. de Julho de 2025

Ref No : 1860/GAB.MOP/VII/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 Projetos do Fundo de Infraestruturas  
(SGP)

Asuntu : Pedido Agendamento CAFI

Excelência,

Refere ba asuntu iha leten, Ministerio das Obras Públicas hato'o ba Sua Exceléncia hodi bele agenda iha reunião Conselho de Administração do Fundo de Infraestruturas (CAFI) ba projeto hanesan lista aneksu. Nudar informasaun, projeto hirak ne'e hetan ona verifikasi saun husi Agência Desenvolvimento Nacional, IP (ADN, IP).

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

Samuel Marcal  
Ministro das Obras Públicas

RECEPCIONISTA  
MINISTÉRIO DO PLANEAMENTO  
ESTRATÉGICO

REC'DO  
16.07.2025  
Vitoria sahanha  
3310320.



**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	Viqueque	Rehabilitation Of Road Of Umaboco-Viqueque Demolition & Reinstallation Of Welolo Bridge, District Viqueque, Timor Leste	\$ 4,398,863.24	Projetu foun ne'ebe tama iha planu projetu FI Ministerio das Obras Publicas tinan 2025 (0260904 - Reabilitasaun Ponte Welolo - Viqueque)
2	Bobonaro	National Road Rehabilitation Arterial A12 Jct. Oeleu - Lourba - Zulo - Fatuleto, Covalima Municipal and Bobonaro Municipal	\$ 15,772,518.33	Projetu foun ne'ebe tama iha planu projetu FI Ministerio das Obras Publicas tinan 2025 (026059X - Reabilitasaun Estrada Nacional, Jct. Oeleu - Lourba - Zulo Fatuletu (A12), 26 Km)
3	Ermera	Urban Road And Drainage Rehabilitation Gleno Town Package 1,Section 1,2,6,7,8,9,,10,11,21,22,23,24,25,26,27,28,29,30 & 31, Ermera Municipality	\$ 2,640,762.61	Projetu foun ne'ebe tama iha planu projetu FI Ministerio das Obras Publicas tinan 2025 (026059Y - Reabilitasaun Estrada Nacional, From Bridge steel truss - Gleno Villa (A04), 6.4Km)
4	Ermera	Urban Road And Drainage Rehabilitation Gleno Town Package 2, Section 3,4,5,12,14,15,16,17,18,19,20, Ermera Municipality	\$ 3,214,929.67	Projetu foun ne'ebe tama iha planu projetu FI Ministerio das Obras Publicas tinan 2025 (026059Y - Reabilitasaun Estrada Nacional, From Bridge steel truss - Gleno Villa (A04), 6.4Km)
5	Bobonaro	Rehabilitation of Batugade Road Package I Sta. 0+000 – 8+000 (8 km)	\$ 3,439,179.37	Projetu foun ne'ebe tama iha planu projetu FI Ministerio das Obras Publicas tinan 2025 (0260910: - Batugade - Balibo (Novo Construsaun das Estradas, Nacional Batugade - Balibo A03 Sta, 0+000 - 41+300 Km)
6	Bobonaro	Rehabilitation of Batugade Road Package II Sta. 8+000 – 12+980 (4.98 km)	\$ 4,401,638.09	Projetu foun ne'ebe tama iha planu projetu FI Ministerio das Obras Publicas tinan 2025 (0260910: - Batugade - Balibo (Novo Construsaun das Estradas, Nacional Batugade - Balibo A03 Sta, 0+000 - 41+300 Km)
7	Liquica	Tibar River (New Construction Of Cyclopean Concrete Retaining Wall, Fatunia to Lihbau Lelo River(Sta.1+340-2+680) 1,34 km,Tibar Bazartete Municipio de Liquica)	\$ 1,560,384.38	Projetu ida ne'e parte husi projetu 62 Pakotes ne'ebe hetan ona aprovasaun tuir Decreto Lei No.15/2024 De 20 De Marco 2024 (lista nu. 25 - Tibar River)
8	Aileu	Project New Lebudeo Bridge Construction 40 Meter Length Single Span, Stell Trusses Type B Lebudeo Bacelo,Laulara Municipality Aileu	\$ 1,641,314.88	Projetu emergencia
9	Dili	Obra Konstrusaun Estrada Urbana Lurumata no Drainagem Lurumata ba Dalan DHL (Sta.0+000 - Sta.0+831.75) Kapela (Sta.0+000 - Sta.0+747.35), Guardamor (Sta.0+000 - Sta.0+251), Gang 1(Sta.0+000 - Sta.0+168.48), Gang 2 (Sta.0+288 - Sta.0+455.45), no Gang 3 (Sta.0+275-Sta.0+600), Suco Fatuhada, Posto Administrativo Dom Aleixo, Municipio Dili	\$ 1,541,313.26	Projetu emergencia
10	Dili	Konstrusaun Moru Protesaun Mota Mantelolaun Metinaro,Suco Mantelolaun,Posto Administrativo Metinaro,Municipio Dili	\$ 1,529,244.37	Projetu emergencia



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
11	Aileu	Reabilitasaun Seksau Estrada Local Aileu-Faturusa.(Sta.0+000-11+580),Suco Faturusa,Posto Administrativo Remexio Municipio Aileu	\$ 1,847,750.93	Projetu emergencia
12	Dili	Dili Urban Road Rehabilitation Fomento - Mercado Manleuana	\$ 2,010,021.11	Projetu emergencia
13	Dili	Upgrading & New Roads Construction Kasnafar/ Lisbutak Dili (3,4 KM) Municipality of Dili, Timor Lesta	\$ 3,262,904.05	Projetu emergencia
14	Dili	Construction Of Cristo Rei Dolok Oan Junction Road (Package 1-B,Sta.1+000 to Sta.1+520,Cristo Rei,Dili Municipality	\$ 2,227,223.62	Projetu emergencia
15	Dili	Dili Urban Road Package 2, Rehabilitation Manleuana Part 2 (Sta. 0+000 - Sta. 2+985)	\$ 1,945,640.26	Projetu emergencia
16	Ermera	Obra Konstrusaun Estrada Lokal Plum Concrete & Dranagem (Sta. 0+000 - Sta. 11+685). Soco Fatubesi, Posto Administrativo Hatolia B, Municipio Ermera	\$ 1,010,744.10	Projetu emergencia
			\$ 52,444,432.27	



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I.P.

## SUMMARY

NAME OF PROJECT REHABILITATION OF ROAD OF UMABOCO - VIQUEQUE DEMOLITION & REINSTALLATION  
LOCATION OF PROJECT DISTRICT VIQUEQUE, TIMOR LESTE  
WORK ITEM BILL OF QUANTITY / ENGINEER ESTIMATE

BILL No.	DESCRIPTIONS	PROPOSED AMOUNT (US Dollars)	AMOUNT USD (VERIFIED BY A.D.N)
100	GENERAL REQUIREMENTS	45.790,00	44.215,34
200	EARTHWORKS	517.687,98	398.395,35
300	SUB BASE AND BASE COURSE	298.036,49	212.964,20
400	SURFACE COURSE	378.343,40	316.496,96
500	BRIDGE CONSTRUCTION	622.867,87	375.601,21
600	DRAINAGE AND SLOPE PROTECTION STRUCTURES	3.160.536,24	2.497.141,51
CONSTRUCTION COST		(a)	5.023.261,97
PROFIT (10%)*a		(b)	502.326,20
OVERHEAD		(c)	19.500,00
TAX 2%*(a+b+c)		(d)	110.901,76
GRAND TOTAL (a+b+c+d)		(e)	5.655.989,94
			4.398.863,24

Verified by :

(Eng. Vidal Gutierrez)  
ADN, I.P. Engineer

Checked By :

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

Certified By :

Arch. Jose Fernando Liu Soares  
27/5/25  
Coordenador UAP-ADN,I.P.



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## BILL OF QUANTITY / ENGINEER ESTIMATE

NAME OF PROJECT : #REFI  
LOCATION OF PROJECT : DISTRIC VIQUEQUE, TIMOR LESTE  
WORK ITEM : BILL OF QUANTITY / ENGINEER ESTIMATE

Pay Item No	Item Description	UNIT	OWNER ESTIMATION			VERIFIED BY A.D.N			
			QUANTITY	UNIT PRICE	AMOUNT USD	UNIT	QUANTITY	UNIT PRICE	AMOUNT USD
100	GENERAL REQUIREMENTS								
102	Mobilization	Ls	1,00	\$ 33.020,00	\$ 33.020,00	Ls	1,00	\$ 22.965,34	\$ 22.965,34
102(2)	Demobilization	Ls	1,00	\$ 12.770,00	\$ 12.770,00	Ls	1,00	\$ 21.250,00	\$ 21.250,00
	<i>Total for Bill No. 100 (Carried to Summary)</i>				\$ 45.790,00				\$ 44.215,34
200	EARTHWORKS								
202(3)	Removal of Existing Bridge Steel	Ls	1,00	\$ 170.521,95	\$ 170.521,95	Ls	1,00	\$ 165.721,95	\$ 165.721,95
203(2)	Structure Excavation	Cu.m	32.649,15	\$ 3,11	\$ 101.602,40	Cu.m	32.649,15	\$ 2,98	\$ 97.355,62
205(1)	Common Embankment	Cu.m	48.247,35	\$ 5,09	\$ 245.563,63	Cu.m	48.247,35	\$ 2,80	\$ 135.317,78
	<i>Total for Bill No. 200 (Carried to Summary)</i>				\$ 517.687,98				\$ 398.395,35
300	CRUSHED AGGREGATE BASE COURSE								
301	Aggregate Subbase Course	Cu.m	5.965,83	\$ 21,50	\$ 128.239,75	Cu.m	5.965,83	\$ 17,37	\$ 103.600,35
303(1)	Crushed Aggregate Base Course Grading B	Cu.m	2.078,06	\$ 81,71	\$ 169.796,74	Cu.m	2.078,06	\$ 52,63	\$ 109.363,85
	<i>Total for Bill No. 300 (Carried to Summary)</i>				\$ 298.036,49				\$ 212.964,20
400	SURFACE COURSE								
402(1)	Prime Coat	Sq.m	10.702,85	\$ 1,31	\$ 14.044,81	Sq.m	10.702,85	\$ 1,55	\$ 16.583,10
411(6a)	Asphaltic Concrete - Binder Course, 6 Cm	Sq.m	10.702,85	\$ 34,04	\$ 364.298,59	Sq.m	10.702,85	\$ 28,02	\$ 299.913,87
	<i>Total for Bill No. 400 (Carried to Summary)</i>				\$ 378.343,40				\$ 316.496,96
500	BRIDGE CONSTRUCTION								
504(3)	Replacement Structural Steel Furnished and Fabricated	Ls	1,00	\$ 93.475,00	\$ 93.475,00	Ls	1,00	\$ 34.164,30	\$ 34.164,30
504(4)	Modular Steel Structure A Type, L=60 m, installation	span	1,00	\$ 251.071,66	\$ 251.071,66	span	1,00	\$ 82.739,07	\$ 82.739,07
505	Reinforcing Steel	kg	60.758,86	\$ 1,87	\$ 113.619,07	kg	60.758,86	\$ 1,87	\$ 113.619,07
506(1)	Structural Concrete Class A, 30 Mpa	Cu.m	167,22	\$ 284,59	\$ 47.589,73	Cu.m	167,22	\$ 259,50	\$ 43.393,75
506(1)a	Structural Concrete Class A, 25 Mpa	Cu.m	440,36	\$ 265,95	\$ 117.112,42	Cu.m	440,36	\$ 230,91	\$ 101.685,02
	<i>Total for Bill No. 500 (Carried to Summary)</i>				\$ 622.867,87				\$ 375.601,21
600	DRAINAGE AND SLOPE PROTECTION STRUCTURES								
601(1)	Reinforced Concrete Pipe Culvert, 1200 mm dia	Ln.m	148,00	\$ 413,02	\$ 61.126,28	Ln.m	148,00	\$ 421,99	\$ 62.453,94
606	Stone Masonry	Cu.m	35.449,63	\$ 87,43	\$ 3.099.409,96	Cu.m	35.449,63	\$ 68,68	\$ 2.434.687,57
	<i>Total for Bill No. 600 (Carried to Summary)</i>				\$ 3.160.536,24				\$ 2.497.141,51
	<i>Total for Bill No. SPL (Carried to Summary)</i>				\$ 5.023.261,97				\$ 3.844.814,57



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

NAME OF PROJECT	: REHABILITATION OF ROADS
LOCATION OF PROJECT	: JCT LUCA, RAIHUN TO LAACLUTA DIJOR STA. 0+000 - 13+922.67 KM - (PACKAGE I)
WORK ITEM	MUNICIPALITY OF VIQUEQUE, TIMOR-LESTE BILL OF QUANTITIES/ENGINEER ESTIMATE <b>OVERHEAD</b>

PAY ITEM	ITEM DESCRIPTION	VERIFIED BY A.D.N			
		UNIT	QUANTITY	UNIT PRICE	AMOUNT USD
<b>1</b>	<b>PROJECT TEAM</b>				
1	Project Manager	Ls	1,00	\$ 6.000,00	\$ 6.000,00
2	Site Manager	Ls	1,00	\$ 9.600,00	\$ 9.600,00
3	Site Engineer	Ls	1,00	\$ 6.000,00	\$ 6.000,00
4	Quality Control	Ls	1,00	\$ 6.000,00	\$ 6.000,00
5	Surveyor	Ls	1,00	\$ 5.000,00	\$ 5.000,00
6	Logistics	Ls	1,00	\$ 3.000,00	\$ 3.000,00
7	Administration	Ls	1,00	\$ 2.400,00	\$ 2.400,00
8	Cleaning Staff	Ls	1,00	\$ 1.800,00	\$ 1.800,00
9	Security	Ls	1,00	\$ 1.800,00	\$ 1.800,00
	<b>SUB TOTAL</b>				\$ 41.600,00
<b>2</b>	<b>KUSTU OPERASIONAL</b>				
1	Stationary	Ls	1,00	\$ 600,00	\$ 600,00
2	Communication	Ls	1,00	\$ 600,00	\$ 600,00
3	Electricity	Ls	1,00	\$ 600,00	\$ 600,00
4	Water	Ls	1,00	\$ 600,00	\$ 600,00
5	Daily, weekly, monthly reports	Ls	1,00	\$ 240,00	\$ 240,00
6	Shop drawings, as built drawings	Ls	1,00	\$ 240,00	\$ 240,00
	<b>SUB TOTAL</b>				\$ 2.880,00
<b>3</b>	<b>KUSTU SERVISU APOIO NIAN</b>				
	Material Sampling & Testing				
1	Earthworks	Ls	1,00	\$ 26.456,00	\$ 26.456,00
2	Sub Base and Base course	Ls	1,00	\$ 9.369,00	\$ 9.369,00
3	Surface Course	Ls	1,00	\$ 1.910,00	\$ 1.910,00
4	Personal protective equipment (PPE)	Ls	1,00	\$ 500,00	\$ 500,00
	<b>SUB TOTAL</b>				\$ 38.235,00
<b>4</b>	<b>KUSTU SOSIAL</b>				
1	Launching ceremony	Ls	1,00	\$ 300,00	\$ 300,00
2	Completion ceremony	Ls	1,00	\$ 300,00	\$ 300,00
	<b>SUB TOTAL</b>				\$ 600,00
	<b>TOTAL</b>				\$ 83.315,00



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## SUMMARY

NAME OF PROJECT : National Road Rehabilitation (Arterial, A12), Jct. Oeleu - Lourba - Zulo Fatuletu

LOCATION OF PROJECT : Covalima Municipal and Bobonaro Municipal

SECTION NO.	DESCRIPTION	VERIFIED BY OWNER AMOUNT (USD)	VERIFIED BY ADN, I.P. AMOUNT (USD)
100	GENERAL	\$ 857.357,07	\$ 522.575,91
200	EARTHWORKS	\$ 1.736.690,13	\$ 1.087.022,74
300	SUBBASE AND BASE COURSE	\$ 5.251.091,53	\$ 2.721.946,62
400	SURFACE COURSES	\$ 2.184.837,64	\$ 3.512.720,15
500	BRIDGE CONSTRUCTION	\$ 426.318,64	\$ 525.225,36
600	DRAINAGE AND SLOPE PROTECTION STRUCTURES	\$ 4.137.611,75	\$ 4.171.260,00
700	MISCELLANEOUS STRUCTURES	\$ 658.343,17	\$ 613.393,36
800	BIO ENGINEERING	\$ 212.595,21	\$ 153.380,43
A	CONSTRUCTION COST	\$ 15.464.845	\$ 13.307.524,58
B	PROFIT 10% x A	\$ 1.546.485	\$ 1.330.752,46
C	OVERHEAD		\$ 159.600,00
D	PROVISIONAL SUM 5% x A	\$ 773.242	
E	CONTIGENCIES 5% x A	\$ 773.242	\$ 665.376,23
F	TAX 2% x (A+B+C+D+E)	\$ 1.546.485	\$ 309.265,07
G	TOTAL AMOUNT A+B+C+D+E+F	\$ 20.104.299	\$ 15.772.518,33

Verified by :

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

Checked By :

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

Certified By :

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



**AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.**

**BILL OF QUANTITY**

NAME OF PROJECT : National Road Rehabilitation (Arterial, A12) , Jct Ojeu - Lourba - Zulu Fatuera

LOCATION OF PROJECT : Covalima Municipal and Bobonaro Municipal

PAY ITEM	ITEM DESCRIPTION	PROPOSED BY OWNER				VERIFIED BY ADN, I.P.			
		UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$	UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$
<b>100</b>	<b>GENERAL</b>								
102.1.1	Mobilization Requirement for All Contract	Ls	1,00	\$ 23,604,67	\$ 23,604,67	Ls	1,00	\$ 80,373,36	\$ 80,373,36
102.1.4	Demobilization of all contract	Ls	1,00	\$ 7,081,40	\$ 7,081,40	Ls	1,00	\$ 60,950,00	\$ 60,950,00
103	Field Offices and Facilities for the Contractor	Ls	1,00	\$ 170,420,00	\$ 170,420,00				
104	Office and Accommodations for the Engineer	Ls	1,00	\$ 55,820,00	\$ 55,820,00				
105	Vehicles for the Engineer	Ls	1,00	\$ 170,600,00	\$ 170,600,00	Ls	1,00	\$ 54,382,55	\$ 54,382,55
106.1	Laboratory Testing Services	Ls	1,00	\$ 150,100,00	\$ 150,100,00	Ls	1,00	\$ 117,820,00	\$ 117,820,00
106.2	Drilling, Including SPT and Report	Ls	1,00	\$ 65,950,00	\$ 65,950,00	Ls	1,00	\$ 83,600,00	\$ 83,600,00
108	Traffic Management and Safety	Ls	1,00	\$ 6,181,00	\$ 6,181,00				
109	Field Engineering	Ls	1,00	\$ 76,900,00	\$ 76,900,00				
114	Environmental Safeguard	Ls	1,00	\$ 130,700,00	\$ 130,700,00	Ls	1,00	\$ 90,000,00	\$ 90,000,00
	<b>Sub Total Section 100</b>			<b>\$ 857,357,07</b>				<b>\$ 522,575,91</b>	
<b>200</b>	<b>EARTHWORKS</b>								
201(1)	Clearing and grubbing	hectare	19,74	\$ 2,384,76	\$ 47,067,19	hectare	19,74	\$ 1,635,76	\$ 32,284,44
202(1)	Removal of Structures and Obstructions	Lin.m	735,42	\$ 18,29	\$ 13,447,93	Ln.m	735,42	\$ 9,97	\$ 7,330,87
202(2)	Removal of Structure and Obstruction (specific)	Cu.M	7296,63	\$ 24,89	\$ 181,584,06	Cu.M	7296,63	\$ 12,97	\$ 94,612,16
203(1)a	Common excavation	cum.	102324,02	\$ 5,55	\$ 567,898,29	Cu.M	102324,02	\$ 1,93	\$ 197,084,13
204(1)	Structure excavation	cum.	1130,87	\$ 6,37	\$ 7,202,65	Cu.M	1130,87	\$ 3,80	\$ 4,296,83
204(3)a	Sand Layer	cum.	85,26	\$ 11,13	\$ 948,83	Cu.M	85,26	\$ 22,39	\$ 1,909,15
204(6)	Pipe culverts and drain excavation	cum.	3443,91	\$ 7,09	\$ 24,402,68	Cu.M	3443,91	\$ 3,80	\$ 13,085,35
205(1)a	Borrow Excavation (DT 10 Ton)	cum.	9223,61	\$ 13,93	\$ 128,500,39	Cu.M	9223,61	\$ 3,41	\$ 31,439,50
205(1)b	Common Embankment	cum.	38962,48	\$ 6,98	\$ 271,832,52	Cu.M	38962,48	\$ 3,41	\$ 132,807,12
205(2)	Selected Embankment	cum.	20444,38	\$ 16,54	\$ 338,160,54	Cu.M	20444,38	\$ 22,39	\$ 457,803,96



**AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.**

**BILL OF QUANTITY**

NAME OF PROJECT

: National Road Rehabilitation (Arterial, A12), jct. Oeieu - Lourda - Zulo Fatuleu

LOCATION OF PROJECT

: Covalima Municipal and Bobonaro Municipal

PAY ITEM	ITEM DESCRIPTION	PROPOSED BY OWNER				VERIFIED BY ADN, I.P.		
		UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$	UNIT	QUANTITY	UNIT RATE US \$
205(3)	Granular Selected Embankment	cu.m.	604,60	\$	21,90	\$	13,239,85	Cu.M
206(1)	Subgrade preparation (Common Material)	sq.m.	162909,68	\$	0,87	\$	142,405,18	Sq.m
	<b>Sub Total Section 200</b>				\$	1.736,690,13		
<b>300</b>	<b>SUBBASE AND BASE COURSE</b>							
303(1)	Aggregate Base Class A	cu.m.	25924,80	\$	94,28	\$	2.444,216,07	Cu.M
303(2)	Aggregate Base Class B	cu.m.	41442,13	\$	67,73	\$	2.806,875,46	Cu.M
	<b>Sub Total Section 300</b>				\$	5.251,091,53		
<b>400</b>	<b>SURFACE COURSES AND PAVEMENT</b>							
402	Prime Coat	liter	122253,17	\$	1,76	\$	214,768,45	Liter
411(6)a	Asphaltic Concrete - Binder Course (AC-BC) 6 cm	sq.m.	120148,00	\$	16,40	\$	1.970,059,19	Sq.m
	<b>Sub Total Section 400</b>				\$	2.184,037,64		
<b>500</b>	<b>BRIDGE CONSTRUCTION</b>							
505	Reinforcing steel	kg	93716,08	\$	1,90	\$	178.060,56	kg
506(1)f	Structural concrete class "A" (25MPa) (Drainage, Retaining wall)	cu.m.	602,31	\$	147,89	\$	89,074,96	Cu.M
506(2)	Structural Concrete, Class B (21 Mpa) Footing	cu.m.	1148,62	\$	133,00	\$	152,766,13	Cu.M
506(6)b	Lean Concrete	cu.m.	41,47	\$	110,78	\$	4,594,48	Cu.M
508 (1)	Rubber Pad 200x200 T=2cm	Unit	42,00	\$	36,14	\$	1.517,88	Unit
509	Anchor Bar	Kg	92,40	\$	3,30	\$	304,64	Kg
	<b>Sub Total Section 500</b>				\$	426,318,64		
<b>600</b>	<b>DRAINAGE AND SLOPE PROTECTION WORKS</b>							
601(1)a	Reinforced concrete pipe culvert, 610mm diameter	l.m.	11,80	\$	197,80	\$	2.334,07	l.n.m
601(1)b	Reinforced concrete pipe culvert, 800mm diameter	l.m.	384,26	\$	232,19	\$	89,220,63	l.n.m
601(1)d	Reinforced concrete pipe culvert, 1070mm diameter	l.m.	245,61	\$	334,77	\$	82,223,18	l.n.m
					\$	245,61	\$	385,44
								\$ 94,667,53



**AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.**

**BILL OF QUANTITY**

NAME OF PROJECT

: National Road Rehabilitation (Arterial, A12), Jct. Oeleeu - Lourda - Zulo Fatuleu

LOCATION OF PROJECT

: Covalima Municipal and Bobonaro Municipal

PAY ITEM	ITEM DESCRIPTION	PROPOSED BY OWNER				QUANTITY	UNIT RATE US \$	AMOUNT US \$	VERIFIED BY ADN, I.P.
		UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$				
601(2)	Reinforced concrete pipe culvert 2 x 1070mm diameter	l.m.	79,50	\$	623,92	\$	49,601,46	l.n.m	79,50
601(1)e	Reinforced concrete pipe culvert 1200 mm diameter	l.m.	40,55	\$	415,57	\$	16,843,24	l.n.m	40,55
601(1)f	Reinforced concrete pipe culvert 1500 mm diameter	l.m.	29,10	\$	554,59	\$	16,138,52	l.n.m	29,10
603(5)a	Catch Basins 1 SM (1 Unit =1.77 Cu.m)	Cu.m.	28,28	\$	83,42	\$	2,359,06	Cu.M	28,28
603(5)d	Catch Basins 4 SM (1 Unit = 2,25 Cu.m)	Cu.m.	20,21	\$	80,67	\$	1,630,15	Cu.M	20,21
603(5)f	Catch Basins 6 SM (1 Unit =5,6 Cu.m)	Cu.m.	5,60	\$	84,18	\$	471,48	Cu.M	5,60
603(5)j	Catch Basins 13 SM (1 Unit =9,7 Cu.m)	Cu.m.	37,87	\$	84,97	\$	3,218,08	Cu.M	37,87
603(5)n	Catch Basins 14 SM (1 Unit =6,33 Cu.m)	Cu.m.	129,82	\$	90,44	\$	11,740,78	Cu.M	129,82
603(5)o	Catch Basins 15 SM (1 Unit = 7,13 Cu.m)	Cu.m.	35,65	\$	83,90	\$	2,991,28	Cu.M	35,65
603(5)p	Catch Basins 16 SM (1 Unit =10,83 Cu.m)	Cu.m.	21,66	\$	90,24	\$	1,954,56	Cu.M	21,66
603(5)r	Catch Basins 18 SM (1 Unit =3,71 Cu.m)	Cu.m.	11,13	\$	87,55	\$	974,15	Cu.M	11,13
604(2)	Removing, cleaning and re-laying salvaged culvert pipe	l.m.	82,04	\$	31,38	\$	2,574,21	l.n.m	82,04
604(3)a	Cleaning of existing lined drain	l.m.	664,40	\$	5,11	\$	3,397,36	l.n.m	664,40
606	Stone masonry	Cu.m.	19485,78	\$	75,47	\$	1,470,554,23	Cu.M	19485,78
606(1)	Blinding Stone	Cu.m.	48,07	\$	37,56	\$	1,805,78	Cu.M	48,07
606(a)-1	Wing Wall RCP 6000 - Type A (1 m = 3,15 Cum)	Cu.m.	8,18	\$	83,69	\$	684,32	Cu.M	8,18
606(a)-2	Wing Wall RCP 8000 - Type A (1 m = 3,32 Cum)	Cu.m.	97,63	\$	83,60	\$	8,161,12	Cu.M	97,63
606(a)-4	Wing Wall RCP 1000 - Type A (1 m = 3,38 Cum)	Cu.m.	181,57	\$	83,49	\$	15,158,84	Cu.M	181,57
606(a)-5	Wing Wall RCP 2x1000 - Type A (1 m = 3,38 Cu.m)	Cu.m.	167,58	\$	83,49	\$	13,990,61	Cu.M	167,58
606(a)-7	Wing Wall RCP 1500 - Type A (1 m = 4,77 Cum)	Cu.m.	36,35	\$	88,62	\$	3,220,99	Cu.M	36,35
606(b)-2	Wing Wall RCP 800 - Type B (1 m = 3,46 Cum)	Cu.m.	25,58	\$	78,65	\$	2,011,81	Cu.M	25,58
606(b)-4	Wing Wall RCP 1000 - Type B (1 m = 3,84 Cum)	Cu.m.	75,60	\$	79,70	\$	6,024,93	Cu.M	75,60
606(b)-7	Wing Wall RCP 1500 - Type B (1 m = 4,77 Cum)	Cu.m.	35,78	\$	84,27	\$	3,014,82	Cu.M	35,78



**AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.**

**BILL OF QUANTITY**

NAME OF PROJECT : National Road Rehabilitation (Arterial, A12), Jct. Oelee - Lourba - Zulio Fatuleu

LOCATION OF PROJECT : Covalima Municipal and Bobonaro Municipal

PAY ITEM	ITEM DESCRIPTION	PROPOSED BY OWNER				VERIFIED BY ADN, I.P.		
		UNIT	QUANTITY	UNIT RATE US\$	AMOUNT US\$	UNIT	QUANTITY	UNIT RATE US\$
606(k)-1	Head Wall A - RCP 600 (1 Unit = 5,51 Cu.m)	Cu.m.	5,51	\$ 76,42	\$ 421,42	Cu.M	5,51	\$ 75,58
606(k)-2	Head Wall A - RCP 800 (1 Unit = 5,95 Cu.m)	Cu.m.	374,83	\$ 75,76	\$ 28,396,94	Cu.M	374,83	\$ 75,58
606(k)-4	Head Wall A - RCP 1000 (1 Unit = 6,33 Cu.m)	Cu.m.	259,61	\$ 75,18	\$ 19,518,30	Cu.M	259,61	\$ 75,58
606(k)-5	Head Wall A - RCP 2X1000 (1 Unit =11,87 Cu.m)	Cu.m.	189,95	\$ 75,53	\$ 14,346,08	Cu.M	189,95	\$ 75,58
606(k)-6	Head Wall A - RCP 1200 (1 Unit = 7,26 Cu.m)	Cu.m.	50,85	\$ 76,68	\$ 3,899,15	Cu.M	50,85	\$ 75,58
606(l)-1	Head Wall B - RCP 800 (1 Unit = 7,65 Cu.m)	Cu.m.	45,92	\$ 74,93	\$ 3,440,53	Cu.M	45,92	\$ 75,58
606(l)-2	Head Wall B - RCP 1000 (1 Unit =8,20 Cu.m)	Cu.m.	57,42	\$ 74,43	\$ 4,273,91	Cu.M	57,42	\$ 75,58
606(l)-3	Head Wall B - RCP 2X1000 (1 Unit =15,40 Cu.m)	Cu.m.	15,40	\$ 74,68	\$ 1,150,44	Cu.M	15,40	\$ 75,58
606(l)-5	Head Wall B - RCP 1500 (1 Unit =10,10,511 Cu.m)	Cu.m.	10,10	\$ 75,01	\$ 757,76	Cu.M	10,10	\$ 75,58
606(m)-1	Head Wall C - RCP 800 (1 Unit =9,14 Cu.m)	Cu.m.	27,42	\$ 74,98	\$ 2,055,60	Cu.M	27,42	\$ 75,58
606(m)-2	Head Wall C - RCP 1000 (1 Unit =9,84 Cu.m)	Cu.m.	9,84	\$ 74,65	\$ 734,24	Cu.M	9,84	\$ 75,58
606(m)-3	Head Wall C - RCP 1200 (1 Unit =11,40 Cu.m)	Cu.m.	11,40	\$ 75,49	\$ 860,43	Cu.M	11,40	\$ 75,58
606(m)-4	Head Wall C - RCP 1500 (1 Unit =12,24 Cu.m)	Cu.m.	24,49	\$ 74,96	\$ 1,835,59	Cu.M	24,49	\$ 75,58
606(n)-1	Head Wall D - RCP 800 (1 Unit =11,37 Cu.m)	Cu.m.	22,73	\$ 74,96	\$ 1,704,06	Cu.M	22,73	\$ 75,58
606(n)-2	Head Wall D - RCP 1000 (1 Unit =12,28 Cu.m)	Cu.m.	12,28	\$ 74,59	\$ 916,10	Cu.M	12,28	\$ 75,58
606(n)-3	Head Wall D - RCP 1200 (1 Unit =14,28 Cu.m)	Cu.m.	14,28	\$ 75,33	\$ 1,075,96	Cu.M	14,28	\$ 75,58
606(n)-4	Head Wall D - RCP 1500 (1 Unit =15,45 Cu.m)	Cu.m.	15,45	\$ 74,87	\$ 1,157,03	Cu.M	15,45	\$ 75,58
606(o)-1	Head Wall E - RCP 600 (1 Unit =12,60 Cu.m)	Cu.m.	12,60	\$ 75,23	\$ 947,85	Cu.M	12,60	\$ 75,58
606(o)-2	Head Wall E - RCP 800 (1 Unit =13,81 Cu.m)	Cu.m.	27,62	\$ 74,97	\$ 2,070,76	Cu.M	27,62	\$ 75,58
606(o)-3	Head Wall E - RCP 1500 (1 Unit =18,98 Cu.m)	Cu.m.	18,98	\$ 74,95	\$ 1,422,33	Cu.M	18,98	\$ 75,58
606(P)-1	Head Wall F - RCP 800 (1 Unit =15,97 Cu.m)	Cu.m.	47,91	\$ 74,93	\$ 3,590,08	Cu.M	47,91	\$ 75,58
606(P)-2	Head Wall F - RCP 1500 (1 Unit =22,09 Cu.m)	Cu.m.	22,09	\$ 74,88	\$ 1,654,33	Cu.M	22,09	\$ 75,58
606.3-a	Weep Hole - PVC 2" (3,6mm) with Palm Fiber Layer	Lin.m	7652,56	\$ 10,49	\$ 80,275,30	Cu.M	7652,56	\$ 4,08
								\$ 31,184,16



**AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.**

NAME OF PROJECT

: National Road Rehabilitation (Arterial A12) , lot Odele - Lourba - Zulio Fatuleu

LOCATION OF PROJECT

: Covalima Municipal and Bobonaro Municipal

**BILL OF QUANTITY**

PAY ITEM	ITEM DESCRIPTION	PROPOSED BY OWNER				VERIFIED BY ADN, I.P.		
		UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$	UNIT	QUANTITY	UNIT RATE US \$
606.3-b	PVC 3" (Min 1.5mm) - Gabions Area	Lin.m	5315,40	\$	14,31	Cu.M	76.042,70	\$
610	Gabions	Cu.m.	14.000,50	\$	66,72	Cu.M	934.053,53	\$
612(2)c	Side Ditch 80x80 Stone Masonry	Cu.m.	16803,00	\$	60,93	Cu.M	1.023.746,02	\$
612(3)c	Side Ditch 100x100 Stone Masonry	Cu.m.	982,46	\$	61,52	Cu.M	60.440,95	\$
612(4)c	Side Ditch 120x120 Stone Masonry	Cu.m.	121,79	\$	61,79	Cu.M	7.525,73	\$
612(5)a	Chute 60x60 Stone Masonry	Cu.m.	9,57	\$	62,47	Cu.M	597,62	\$
612(5)b	Chute 80x80 Stone Masonry	Cu.m.	380,83	\$	61,77	Cu.M	23.522,96	\$
612(5)c	Chute 100x100 Stone Masonry	Cu.m.	186,98	\$	62,19	Cu.M	11.628,07	\$
612(5)d	Chute 120x120 Stone Masonry	Cu.m.	57,49	\$	62,00	Cu.M	3.564,02	\$
612(5)e	Chute 150x150 Stone Masonry	Cu.m.	36,67	\$	62,72	Cu.M	2.299,95	\$
612(5)f	Chute 250x100 Stone Masonry	Cu.m.	87,61	\$	61,48	Cu.M	5.386,32	\$
	<b>Sub Total Section 600</b>				<b>\$ 4.137.611,75</b>			<b>\$ 4.171.260,00</b>
<b>700</b>	<b>MISCELLANEOUS STRUCTURES</b>							
702(2)a	Road Access Type 1A	Unit	36,00	\$	572,00	Unit	20.592,00	\$
702(2)b	Road Access Type 1B	Unit	178,00	\$	302,00	Unit	53.756,00	\$
702(2)c	Road Access Type 1C	Unit	21,00	\$	204,00	Unit	4.284,00	\$
702(3)b	Road Access Type 2B	Unit	4,00	\$	349,00	Unit	1.396,00	\$
702(6) a	Road Access Type 5 A	Unit	3,00	\$	719,23	Unit	2.157,69	\$
702(6) b	Road Access Type 5 B	Unit	52,00	\$	676,80	Unit	35.193,80	\$
702(7) a	Road Access Type 6A	Unit	6,00	\$	1.319,00	Unit	7.914,00	\$
702(7) b	Road Access Type 6B	Unit	7,00	\$	986,00	Unit	6.902,00	\$
702(8) a	Road Access Type 7A	Unit	1,00	\$	1.611,00	Unit	1,00	\$
702(8) b	Road Access Type 7B	Unit	9,00	\$	1.266,00	Unit	11.394,00	\$
					<b>9,00</b>			<b>\$ 1.245,00</b>
								<b>\$ 11.205,00</b>



**AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.**

**BILL OF QUANTITY**

NAME OF PROJECT

: National Road Rehabilitation (Arterial A12), ct. Oeteu - Lourba - Zulo Fatuleu

LOCATION OF PROJECT

: Covalima Municipal and Bobonaro Municipal

PAY ITEM	ITEM DESCRIPTION	PROPOSED BY OWNER				VERIFIED BY ADN, I.P.		
		UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$	UNIT	QUANTITY	UNIT RATE US \$
703(3)	Kilometer posts	each	19,00	\$ 113,87	\$ 2,163,61	each	19,00	\$ 112,56
703(4)	Guide Posts	each	575,00	\$ 23,43	\$ 13,469,67	each	575,00	\$ 22,59
704(3)	Metal Guardrail (Metal Beam)	l.m.	1100,00	\$ 68,56	\$ 75,418,89	Ln.m	1100,00	\$ 67,27
706(1)	Warning signs	each	267,00	\$ 163,29	\$ 43,599,36	each	267,00	\$ 171,32
706(2)	Regulatory signs	each	19,00	\$ 162,29	\$ 3,083,58	each	19,00	\$ 169,53
706(3)	Informatory signs	each	11,00	\$ 2437,30	\$ 26,810,28	each	11,00	\$ 2,455,73
706(4)	Directional Warning Sign	each	528,00	\$ 164,29	\$ 86,746,97	each	528,00	\$ 173,12
706(5)	Speed Limit Sign	each	41,00	\$ 163,89	\$ 6,719,63	each	41,00	\$ 172,40
706(6)	Service Sign	each	19,00	\$ 163,89	\$ 3,113,98	each	19,00	\$ 172,40
707(1)	Pavement markings (reflective)	sq.m.	657,91	\$ 38,35	\$ 25,201,672	Sq.m	6571,91	\$ 30,04
	<b>Sub Total Section 700</b>				<b>\$ 658,343,17</b>			<b>\$ 197,437,63</b>
800	<b>BIOENGINEERING</b>							<b>\$ 613,393,36</b>
805(3)a	Grass slips production Type 1 (Slope 1 : 1.5)	sq.m.	10772,90	\$ 2,34	\$ 25,208,59	Sq.m	10772,90	\$ 2,35
805(3)b	Grass slips production Type 2 (Slope 1 : 1)	sq.m.	23137,18	\$ 3,51	\$ 81,211,50	Sq.m	23137,18	\$ 2,82
805(4)	Planting of Tree/Shrub, Bamboo & Hard wood Cuttings	each	2391,00	\$ 23,22	\$ 55,517,53	each	2391,00	\$ 5,23
808(2)	Maintenance and Aftercare	ls	1,00	\$ 15,044,21	\$ 15,044,21	ls	1,00	\$ 15,300,00
809	Geotextile NWG 250gr/m <sup>2</sup>	sq.m.	10763,50	\$ 1,81	\$ 19,457,47	Sq.m	10763,50	\$ 2,52
810	Geotextile WG 15(100 KN/m) PET	sq.m.	3128,00	\$ 5,16	\$ 16,155,92	Sq.m	3128,00	\$ 2,52
	<b>Sub Total Section 800</b>				<b>\$ 212,595,21</b>			<b>\$ 153,380,43</b>
	<b>TOTAL</b>				<b>\$ 15,464,845,15</b>			<b>\$ 13,307,524,58</b>



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

**OVERHEAD**

NAME OF PROJECT : National Road Rehabilitation (Arterial, A12), Jct. Oeleeu - Lourba - Zulo Fatuletu

LOCATION OF PROJECT : Covalima Municipal and Bobonaro Municipal

PAY ITEM	ITEM DESCRIPTION	VERIFIED BY ADN, I.P.			
		UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$
<b>I</b>	<b>PROJECT TEAM</b>				
1	Project Manager	Ls	1,00	\$ 36.000,00	\$ 36.000,00
2	Site Manager	Ls	1,00	\$ 24.000,00	\$ 24.000,00
3	Site Engineer	Ls	1,00	\$ 24.000,00	\$ 24.000,00
4	Surveyor	Ls	1,00	\$ 22.000,00	\$ 22.000,00
5	Logistics	Ls	1,00	\$ 6.000,00	\$ 6.000,00
6	Administration	Ls	1,00	\$ 4.800,00	\$ 4.800,00
7	Cleaning Staff	Ls	1,00	\$ 3.600,00	\$ 3.600,00
8	Security	Ls	1,00	\$ 7.200,00	\$ 7.200,00
<b>II</b>	<b>OPERATIONAL COST</b>				
1	Stationary	Ls	1,00	\$ 4.800,00	\$ 4.800,00
2	Communication	Ls	1,00	\$ 1.200,00	\$ 1.200,00
3	Electricity	Ls	1,00	\$ 2.400,00	\$ 2.400,00
4	Water	Ls	1,00	\$ 2.400,00	\$ 2.400,00
5	Daily, weekly, monthly reports	Ls	1,00	\$ 1.200,00	\$ 1.200,00
6	Shop drawings, as built drawings	Ls	1,00	\$ 3.000,00	\$ 3.000,00
7	Traffic Management and Safety	Ls	1,00	\$ 15.000,00	\$ 15.000,00
<b>III</b>	<b>SOCIAL COST</b>				
1	Launch and Completion ceremony	Ls	1,00	\$ 2.000,00	\$ 2.000,00
				<b>TOTAL COST</b>	<b>\$ 159.600,00</b>



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## SUMMARY

NAME OF PROJECT : National Road Rehabilitation (Arterial, A12), Jct. Oeleu - Lourba - Zulo Fatuletu

LOCATION OF PROJECT : Covalima Municipal and Bobonaro Municipal

SECTION NO.	DESCRIPTION	AMOUNT (USD)
100	GENERAL	\$ -
200	EARTHWORKS	\$ -
300	SUBBASE AND BASE COURSE	\$ -
400	SURFACE COURSES	\$ -
500	BRIDGE CONSTRUCTION	\$ -
600	DRAINAGE AND SLOPE PROTECTION STRUCTURES	\$ -
700	MISCELLANEOUS STRUCTURES	\$ -
800	BIO ENGINEERING	\$ -
A	CONSTRUCTION COST	\$ -
B	PROFIT 10% x A	\$ -
C	OVERHEAD	\$ -
D	CONTIGENCIES 5% x A	\$ -
E	TAX 2% x (A+B+C+D)	\$ -
F	TOTAL AMOUNT A+B+C+D+E	\$ -



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

**BILL OF QUANTITY**

NAME OF PROJECT : National Road Rehabilitation (Arterial, A12), Jct. Oeleu - Lourba - Zulo Fatuletu

LOCATION OF PROJECT : Covalima Municipal and Bobonaro Municipal

PAY ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$
<b>100</b>	<b>GENERAL</b>				
102.1.1	Mobilization Requirement for All Contract	Ls	1,00	\$ -	\$ -
102.1.4	Demobilization of all contract	Ls	1,00	\$ -	\$ -
104	Office and Accomodations for the Engineer	Ls	1,00	\$ -	\$ -
105	Vehicles for the Engineer	Ls	1,00	\$ -	\$ -
106,1	Laboratory Testing Services	Ls	1,00	\$ -	\$ -
106,2	Drilling, Including SPT and Report	Ls	1,00	\$ -	\$ -
114	Enviromental Safeguard	Ls	1,00	\$ -	\$ -
	<b>Sub Total Section 100</b>				\$ -
<b>200</b>	<b>EARTHWORKS</b>				
201(1)	Clearing and grubbing	hectare	19,74	\$ -	\$ -
202(1)	Removal of Structures and Obstructions	Ln.m	735,42	\$ -	\$ -
202(2)	Removal of Structure and Obstruction (specific)	Cu.M	7296,63	\$ -	\$ -
203(1)a	Common excavation	Cu.M	102324,02	\$ -	\$ -
204(1)	Structure excavation	Cu.M	1130,87	\$ -	\$ -
204(3)a	Sand Layer	Cu.M	85,26	\$ -	\$ -
204(6)	Pipe culverts and drain excavation	Cu.M	3443,91	\$ -	\$ -
205(1)a	Borrow Excavation (DT 10 Ton)	Cu.M	9223,61	\$ -	\$ -
205(1)b	Common Embankment	Cu.M	38962,48	\$ -	\$ -
205(2)	Selected Embankment	Cu.M	20444,38	\$ -	\$ -
205(3)	Granular Selected Embankment	Cu.M	604,60	\$ -	\$ -
206(1)	Subgrade preparation (Common Material)	Sq.m	162909,68	\$ -	\$ -
	<b>Sub Total Section 200</b>				\$ -
<b>300</b>	<b>SUBBASE AND BASE COURSE</b>				
303(1)	Aggregate Base Class A	Cu.M	25924,80	\$ -	\$ -
303(2)	Aggregate Base Class B	Cu.M	41442,13	\$ -	\$ -
	<b>Sub Total Section 300</b>				\$ -
<b>400</b>	<b>SURFACE COURSES AND PAVEMENT</b>				
402	Prime Coat	Liter	122253,17	\$ -	\$ -
411(6)a	Asphaltic Concrete - Binder Course (AC-BC) 6 cm	Sq.m	120148,00	\$ -	\$ -
	<b>Sub Total Section 400</b>				\$ -
<b>500</b>	<b>BRIDGE CONSTRUCTION</b>				
505	Reinforcing steel	kg	93716,08	\$ -	\$ -
506(1)f	Structural concrete class "A" (25MPa) (Drainase, Retaining wall)	Cu.M	602,31	\$ -	\$ -
506(2)	Structural Concrete, Class B (21 Mpa) Footing	Cu.M	1148,62	\$ -	\$ -
506(6)b	Lean Concrete	Cu.M	41,47	\$ -	\$ -
508 (1)	Rubber Pad 200x200 T=2cm	Unit	42,00	\$ -	\$ -
509	Anchor Bar	Kg	92,40	\$ -	\$ -
	<b>Sub Total Section 500</b>				\$ -
<b>600</b>	<b>DRAINAGE AND SLOPE PROTECTION WORKS</b>				
601(1)a	Reinforced concrete pipe culvert, 610mm diameter	Ln.m	11,80	\$ -	\$ -
601(1)b	Reinforced concrete pipe culvert, 800mm diameter	Ln.m	384,26	\$ -	\$ -



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## BILL OF QUANTITY

NAME OF PROJECT : National Road Rehabilitation (Arterial, A12), Jct. Oeleu - Lourba - Zulo Fatuletu

LOCATION OF PROJECT : Covalima Municipal and Bobonaro Municipal

PAY ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$
601(1)d	Reinforced concrete pipe culvert, 1070mm diameter	Ln.m	245,61	\$ -	\$ -
601(2)	Reinforced concrete pipe culvert, 2 x 1070mm diameter	Ln.m	79,50	\$ -	\$ -
601(1)e	Reinforced concrete pipe culvert, 1200 mm diameter	Ln.m	40,55	\$ -	\$ -
601(1)f	Reinforced concrete pipe culvert, 1500 mm diameter	Ln.m	29,10	\$ -	\$ -
603(5)a	Catch Basins 1 SM (1 Unit =1.77 Cu.m)	Cu.M	28,28	\$ -	\$ -
603(5)d	Catch Basins 4 SM (1 Unit = 2.25 Cu.m)	Cu.M	20,21	\$ -	\$ -
603(5)f	Catch Basins 6 SM (1 Unit =5.6 Cu.m)	Cu.M	5,60	\$ -	\$ -
603(5)m	Catch Basins 13 SM (1 Unit =9.47 Cu.m)	Cu.M	37,87	\$ -	\$ -
603(5)n	Catch Basins 14 SM (1 Unit =6.83 Cu.m)	Cu.M	129,82	\$ -	\$ -
603(5)o	Catch Basins 15 SM (1 Unit = 7.13 Cu.m)	Cu.M	35,65	\$ -	\$ -
603(5)p	Catch Basins 16 SM (1 Unit =10.83 Cu.m)	Cu.M	21,66	\$ -	\$ -
603(5)r	Catch Basins 18 SM (1 Unit =3.71 Cu.m)	Cu.M	11,13	\$ -	\$ -
604(2)	Removing, cleaning and re-laying salvaged culvert pipe	Ln.m	82,04	\$ -	\$ -
604(3)a	Cleaning of existing lined drain	Ln.m	664,40	\$ -	\$ -
606	Stone masonry	Cu.M	19485,78	\$ -	\$ -
606(1)	Blinding Stone	Cu.M	48,07	\$ -	\$ -
606(a) -1	Wing Wall RCP 600 - Type A (1 m = 3.15 Cum)	Cu.M	8,18	\$ -	\$ -
606(a) -2	Wing Wall RCP 800 - Type A (1 m = 3.32 Cu.m)	Cu.M	97,63	\$ -	\$ -
606(a) -4	Wing Wall RCP 1000 - Type A (1 m = 3.38 Cu.m)	Cu.M	181,57	\$ -	\$ -
606(a) -5	Wing Wall RCP 2x1000 - Type A (1 m = 3.38 Cu.m)	Cu.M	167,58	\$ -	\$ -
606(a) -7	Wing Wall RCP 1500 - Type A (1 m = 4.77 Cu.m)	Cu.M	36,35	\$ -	\$ -
606(b) -2	Wing Wall RCP 800 - Type B (1 m = 3.46 Cu.m)	Cu.M	25,58	\$ -	\$ -
606(b) -4	Wing Wall RCP 1000 - Type B (1 m = 3.84 Cu.m)	Cu.M	75,60	\$ -	\$ -
606(b) -7	Wing Wall RCP 1500 - Type B (1 m = 4.77 Cu.m)	Cu.M	35,78	\$ -	\$ -
606(k)-1	Head Wall A - RCP 600 (1 Unit = 5.51 Cu.m)	Cu.M	5,51	\$ -	\$ -
606(k)-2	Head Wall A - RCP 800 (1 Unit =5.95 Cu.m)	Cu.M	374,83	\$ -	\$ -
606(k)-4	Head Wall A - RCP 1000 (1 Unit =6.33 Cu.m)	Cu.M	259,61	\$ -	\$ -
606(k)-5	Head Wall A - RCP 2X1000 (1 Unit =11.87 Cu.m)	Cu.M	189,95	\$ -	\$ -
606(k)-6	Head Wall A - RCP 1200 (1 Unit =7.26 Cu.m)	Cu.M	50,85	\$ -	\$ -
606(l)-1	Head Wall B - RCP 800 (1 Unit =7.65 Cu.m)	Cu.M	45,92	\$ -	\$ -
606(l)-2	Head Wall B - RCP 1000 (1 Unit =8.20 Cu.m)	Cu.M	57,42	\$ -	\$ -
606(l)-3	Head Wall B - RCP 2X1000 (1 Unit =15.40 Cu.m)	Cu.M	15,40	\$ -	\$ -
606(l)-5	Head Wall B - RCP 1500 (1 Unit =10.10.511 Cu.m)	Cu.M	10,10	\$ -	\$ -
606(m)-1	Head Wall C - RCP 800 (1 Unit =9.14 Cu.m)	Cu.M	27,42	\$ -	\$ -
606(m)-2	Head Wall C - RCP 1000 (1 Unit =9.84 Cu.m)	Cu.M	9,84	\$ -	\$ -
606(m)-3	Head Wall C - RCP 1200 (1 Unit =11.40 Cu.m)	Cu.M	11,40	\$ -	\$ -
606(m)-4	Head Wall C - RCP 1500 (1 Unit =12.24 Cu.m)	Cu.M	24,49	\$ -	\$ -
606(n)-1	Head Wall D - RCP 800 (1 Unit =11.37 Cu.m)	Cu.M	22,73	\$ -	\$ -
606(n)-2	Head Wall D - RCP 1000 (1 Unit =12.28 Cu.m)	Cu.M	12,28	\$ -	\$ -
606(n)-3	Head Wall D - RCP 1200 (1 Unit =14.28 Cu.m)	Cu.M	14,28	\$ -	\$ -
606(n)-4	Head Wall D - RCP 1500 (1 Unit =15.45 Cu.m)	Cu.M	15,45	\$ -	\$ -
606(o)-1	Head Wall E - RCP 600 (1 Unit =12.60 Cu.m)	Cu.M	12,60	\$ -	\$ -



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

**BILL OF QUANTITY**

NAME OF PROJECT : National Road Rehabilitation (Arterial, A12), Jct. Oeleu - Lourba - Zulo Fatuletu

LOCATION OF PROJECT : Covalima Municipal and Bobonaro Municipal

PAY ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$
606(o)-2	Head Wall E - RCP 800 (1 Unit =13.81 Cu.m)	Cu.M	27,62	\$ -	\$ -
606(o)-3	Head Wall E - RCP 1500 (1 Unit =18.98 Cu.m)	Cu.M	18,98	\$ -	\$ -
606(P)-1	Head Wall F - RCP 800 (1 Unit =15.97 Cu.m)	Cu.M	47,91	\$ -	\$ -
606(P)-2	Head Wall F - RCP 1500 (1 Unit =22.09 Cu.m)	Cu.M	22,09	\$ -	\$ -
606.3-a	Weep Hole - PVC 2" (3.6mm) with Palm Fiber Layer	Cu.M	7652,56	\$ -	\$ -
606.3-b	PVC 3" (Min 1.5mm) - Gabions Area	Cu.M	5315,40	\$ -	\$ -
610	Gabions	Cu.M	14000,50	\$ -	\$ -
612(2)c	Side Ditch 80x80 Stone Masonry	Cu.M	16803,00	\$ -	\$ -
612(3)c	Side Ditch 100x100 Stone Masonry	Cu.M	982,46	\$ -	\$ -
612(4)c	Side Ditch 120x120 Stone Masonry	Cu.M	121,79	\$ -	\$ -
612(5)a	Chute 60x60 Stone Masonry	Cu.M	9,57	\$ -	\$ -
612(5)b	Chute 80x80 Stone Masonry	Cu.M	380,83	\$ -	\$ -
612(5)c	Chute 100x100 Stone Masonry	Cu.M	186,98	\$ -	\$ -
612(5)d	Chute 120x120 Stone Masonry	Cu.M	57,49	\$ -	\$ -
612(5)e	Chute 150x150 Stone Masonry	Cu.M	36,67	\$ -	\$ -
612(5)f	Chute 250x100 Stone Masonry	Cu.M	87,61	\$ -	\$ -
<b>Sub Total Section 600</b>					\$ -
<b>700</b>	<b>MISCELLANEOUS STRUCTURES</b>				
702(2)a	Road Access Type 1A	Unit	36,00	\$ -	\$ -
702(2)b	Road Access Type 1B	Unit	178,00	\$ -	\$ -
702(2)c	Road Access Type 1C	Unit	21,00	\$ -	\$ -
702(3)b	Road Access Type 2B	Unit	4,00	\$ -	\$ -
702(6) a	Road Access Type 5 A	Unit	3,00	\$ -	\$ -
702(6) b	Road Access Type 5 B	Unit	52,00	\$ -	\$ -
702(7) a	Road Access Type 6A	Unit	6,00	\$ -	\$ -
702(7) b	Road Access Type 6B	Unit	7,00	\$ -	\$ -
702(8) a	Road Access Type 7A	Unit	1,00	\$ -	\$ -
702(8) b	Road Access Type 7B	Unit	9,00	\$ -	\$ -
703(3)	Kilometer posts	each	19,00	\$ -	\$ -
703(4)	Guide Posts	each	575,00	\$ -	\$ -
704(3)	Metal Guardrail (Metal Beam)	Ln.m	1100,00	\$ -	\$ -
706(1)	Warning signs	each	267,00	\$ -	\$ -
706(2)	Regulatory signs	each	19,00	\$ -	\$ -
706(3)	Informatory signs	each	11,00	\$ -	\$ -
706(4)	Directional Warning Sign	each	528,00	\$ -	\$ -
706(5)	Speed Limit Sign	each	41,00	\$ -	\$ -
706(6)	Service Sign	each	19,00	\$ -	\$ -
707(1)	Pavement markings (reflective)	Sq.m	6571,91	\$ -	\$ -
<b>Sub Total Section 700</b>					\$ -
<b>800</b>	<b>BIOENGINEERING</b>				
805(3)a	Grass slips production Type 1 (Slope 1 : 1.5)	Sq.m	10772,90	\$ -	\$ -
805(3)b	Grass slips production Type 2 (Slope 1 : 1)	Sq.m	23137,18	\$ -	\$ -



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## BILL OF QUANTITY

NAME OF PROJECT : National Road Rehabilitation (Arterial, A12), Jct. Oeleu – Lourba – Zulo Fatuletu

LOCATION OF PROJECT : Covalima Municipal and Bobonaro Municipal

PAY ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$
805(4)	Planting of Tree/Shrub, Bamboo & Hard wood Cuttings	each	2391,00	\$ -	\$ -
808(2)	Maintenance and Aftercare	Ls	1,00	\$ -	\$ -
809	Geotextile NWG 250gr/m2	Sq.m	10763,50	\$ -	\$ -
810	Geotextile WG 15(100 KN/m) PET	Sq.m	3128,00	\$ -	\$ -
	Sub Total Section 800				\$ -
	TOTAL				\$ -



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## OVERHEAD

NAME OF PROJECT : National Road Rehabilitation (Arterial, A12), Jct. Oeleu – Lourba – Zulo Fatuletu

LOCATION OF PROJECT : Covalima Municipal and Bobonaro Municipal

PAY ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$
I	<b>PROJECT TEAM</b>				
1	Project Manager	Ls	1,00	\$ -	\$ -
2	Site Manager	Ls	1,00	\$ -	\$ -
3	Site Engineer	Ls	1,00	\$ -	\$ -
4	Surveyor	Ls	1,00	\$ -	\$ -
5	Logistics	Ls	1,00	\$ -	\$ -
6	Administration	Ls	1,00	\$ -	\$ -
7	Cleaning Staff	Ls	1,00	\$ -	\$ -
8	Security	Ls	1,00	\$ -	\$ -
II	<b>OPERATIONAL COST</b>				
1	Stationary	Ls	1,00	\$ -	\$ -
2	Communication	Ls	1,00	\$ -	\$ -
3	Electricity	Ls	1,00	\$ -	\$ -
4	Water	Ls	1,00	\$ -	\$ -
5	Daily, weekly, monthly reports	Ls	1,00	\$ -	\$ -
6	Shop drawings, as built drawings	Ls	1,00	\$ -	\$ -
7	Traffic Management and Safety	Ls	1,00	\$ -	\$ -
III	<b>SOCIAL COST</b>				
1	Launch and Completion ceremony	Ls	1,00	\$ -	\$ -
				<b>TOTAL COST</b>	<b>\$ -</b>

**DATA INPUT**

Naran Projecto											
Municipio	Bobonaro	Postu Adm	Bobonaro					Project Duration		12	Bulan
Suco	Lourba										

No	Nama Alat	Kondisi Operasi (Efisiensi)	Bucket Fill Factor	Kecepatan (Km/Jam)		Jarak Buang (Km)		Jarak Dili - Lokasi	Biaya Sewa Truck		Jarak (Km)							
				Kosong	Muat				Truck 5,5 ton	\$ 380,78								
A	Earth Works, Sub Base & Base Course					Back Fill	Disposal		Tronton	\$ 1.000,00	10,00	10						
1	Dump Truck	Baik		30	15	0,2	5	173,90										
2	Excavator	Baik	Mudah	Quarry				Bucket Fill Factor										
3	Buldozer	Sedang		Raihenek Ateiru	Quarry of Bedulu River			Kondisi Operasi	Kondisi Lapangan									
4	Wheel Loader	Sedang	Agak Sulit	Raihenek	Quarry of Bedulu River			Mudah	Tanah biasa berpasir, kering									
5	Motor grader	Penyebaran, grading		Fatuk Mota	Quarry of Bedulu River			Agak sulit	Tanah biasa berbatu									
6	Tandem roller	Sedang		Britas	Quarry of Stone Crusher Bedulu (ETL)			Sulit	Batu pecah hasil ledakan									
B	Surface Works			Presu Material Lokal														
1	Tebal Sub Base Course (m)		0,2															
2	Tebal Base Course (m)		0,15															
3	Tebal ACBC (m)		0,06															
4	Tebal ACWC (m)		0,05															

C	Bridge, Drainage & Slope Protection Works	
1	Deskripsi	Rasio Bekisting tuir dezenho
2	Beton 10 Mpa	0,0000
3	Beton 15 Mpa	1,2503
4	Beton 20 Mpa	1,2503
5	Beton 25 Mpa	1,2503
6	Beton 30 Mpa	1,2503
7	Concrete Cyclope	1,2503

No	Nama Material	Satuan	Harga
1	Tanah urug	M3	\$ 5,00
2	Sirtu	M3	\$ 13,33
3	Pasir urug	M3	\$ 13,33
4	Pasir pasang	M3	\$ 16,33
5	Pasir beton	M3	\$ 19,83
6	Pasir Plesteran	M3	\$ 19,83
7	Batu kali	M3	\$ 20,00
8	Batu belah 15/20	M3	\$ 20,00
9	Batu belah 20/40	M3	
10	River Stone 10/20	M3	\$ -
11	Batu pecah	M3	\$ 40,00
12	Batu pecah 2/3	M3	\$ 40,00
13	Batu pecah 3/5	M3	\$ 40,00
14	Batu pecah 1/2	M3	\$ 40,00
15	Batu pecah 0-5	M3	\$ 50,00
16	Abu Batu	M3	\$ 50,00

Prepara husi:

Akompanha husi:

( .. )

( .. )

Civil Engineer ADN, I.P.

NOTA DE DESPASO

REPUBLICA DE TIMOR-LESTE  
INSTITUTO PÚBLICO (ADN) I.P.

6

FORMULAR DESPASHO

Data entrada

: 22/4/2025

Asunto

: Re-Clasifikasiun presu Unitario

Naran Projecto

: consulting services for preparation of Detailed engineering designs for road section 1, Liqueur urban roads, section 2 national (Arterial A12) Road, Jct occeu - Lourbo - uato fatuloko, District (Collector C18) Road mohama stabac and section 3 District (Collector C32) Road Boco (covatima) - lolotoe (Bobonaro) (occeu fatuloko)

Projecto Nain

Naran Companhia

: Mop

Clasifikasiun

: Urgente

Normal

Despacho

EUS. Rosor koectuna ho EUS. Verifikasiar  
ATU DR-Verifica 29/04/25 JMA.

eng. Mario re-verifica des nes

 Mario 25/4/25





AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

SUMMARY BILL OF QUANTITIES

NAME OF PROJECT : NEW CONSTRUCTION BRIDGE, GIRDER BEAM SUCO PORLAMANU, TO LAGOA IRALALARO  
STA.8+260

LOCATION OF PROJECT : MUNICIPIO LAUTEM.

SECTION NO.	DESCRIPTION	OWNER ESTIMATE	ADN,I.P VERIFIED
100	GENERAL REQUIREMENTS	16.340,34	38.440,34
200	EARTHWORKS	23.327,71	18.002,85
300	SUB BASE AND BASE COURSE	72.437,85	68.612,20
400	SURFACE COURSE	81.210,67	81.617,79
500	BRIDGE CONSTRUCTION	794.919,57	469.160,50
600	DRAINAGE AND SLOPE PROTECTION STRUCTURES	135.822,78	143.215,45
700	MISCELLANEOUS STRUCTURES	44.541,98	4.106,94
Estimated Direct Cost (EDC)		(a) 1.168.600,90	823.156,06
Profit 10% of (a)		(b) 116.860,09	82.315,61
Overhead		(c) 7.100,00	25.258,09
Tax 2% (a+b)		(d) 25.851,22	18.614,60
Bid Price Carried Forward to From of Bid (a+b+c+d)		(e) 1.318.412,21	949.344,35

Verified By:

Eng. Roberto M. Martins

Engineer. UAP - ADN.IP

Checked By:

Eng. Rogerio M. Pires

Chefe Departamento ITIAS UAP - ADN.IP

Certified By:

Eng. Jose Fernando Liu Soares

Coordenadora. UAP - ADN.IP

27/5/25



AGENCIA DE DESENVOLVIMENTO NACIONAL, I. P.

BILL OF QUANTITIES

NAME OF PROJECT : NEW CONSTRUCTION BRIDGE, GIRDER BEAM SUCO PORLAMANU, TO LAGOA IRALALARO STA.8+260

LOCATION OF PROJECT : MUNICIPIO LAUTEM.

PAY ITEM	ITEM DESCRIPTION	OWNER ESTIMATE				ADN,I,P VERIFIED			
		UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$	UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$
100	GENERAL REQUIREMENTS								
102,1	Mobilization	Ls	1,00	\$ 8.690,34	\$ 8.690,34	Ls	1,00	\$ 21.690,34	\$ 21.690,34
102,2	Demobilization	Ls	1,00	\$ 7.650,00	\$ 7.650,00	Ls	1,00	\$ 16.750,00	\$ 16.750,00
<i>Sub Total 100</i>					<b>\$ 16.340,34</b>				<b>\$ 38.440,34</b>
200	EARTHWORKS								
201,1	Clearing and Grubbling	Hectare	3,50	\$ 2.473,57	\$ 8.657,49	Hectare	0,35	\$ 1.219,67	\$ 426,88
203,1	Unsuitable Excavation	Cum	941,200	\$ 2,22	\$ 2.093,88	Cum	941,20	\$ 2,76	\$ 2.594,75
204,1	Structure Excavation	Cum	200,00	\$ 2,91	\$ 582,30	Cum	200,00	\$ 3,63	\$ 724,89
205,1	Common Embankment	Cum	2.859,00	\$ 3,54	\$ 10.166,94	Cum	2.859,00	\$ 4,23	\$ 12.090,05
206,1	Subgrade Preparation (Common Material)	Sq.m	3.500,000	\$ 0,54	\$ 1.887,10	Sq.m	3.500,00	\$ 0,62	\$ 2.166,27
<i>Sub Total 200</i>					<b>\$ 23.327,71</b>				<b>\$ 18.002,85</b>
300	SUB BASE AND BASE COURSE								
301	Aggregate Subbase Course	Cum	1.270,000	\$ 32,09	\$ 40.749,77	Cum	1.270,00	\$ 22,43	\$ 28.485,62
303,1	Aggregate Base Class A	Cum	520,000	\$ 60,94	\$ 31.688,08	Cum	520,00	\$ 77,17	\$ 40.126,58
<i>Sub Total 300</i>					<b>\$ 72.437,85</b>				<b>\$ 68.612,20</b>
400	SURFACE COURSE								
402	Bituminous Prime Coat (MC-70, Cutback Asphalt)	Sq.m	2.600,000	\$ 1,31	\$ 3.411,85	Sq.m	2.600,00	\$ 1,55	\$ 4.028,46
411(6a)	Asphalt Concrete Binder Course (AC-BC), 50mm thick	Sq.m	2.600,000	\$ 29,92	\$ 77.798,82	Sq.m	2.600,00	\$ 29,84	\$ 77.589,32
<i>Sub Total 400</i>					<b>\$ 81.210,67</b>				<b>\$ 81.617,79</b>
500	BRIDGE CONSTRUCTION								
502	Railing 3" Diameter	In.m	123,200	\$ 107,83	\$ 13.284,66	In.m	123,20	\$ 41,06	\$ 5.058,59
505	Reinforcing Steel	Kg	53.917,45	\$ 1,87	\$ 100.825,64	Kg	53.917,45	\$ 1,87	\$ 100.825,64
506,1a	Structural Concrete 25 Mpa (Shoulder and Column Rail)	Cum	25,435	\$ 325,64	\$ 8.282,54	Cum	25,43	\$ 238,45	\$ 6.064,85
506,1b	Structural Concrete 30 Mpa (including Formwork)	Cum	493,473	\$ 362,07	\$ 178.671,91	Cum	493,47	\$ 297,43	\$ 146.773,35
506,1c	Structural Concrete 15 Mpa (Lean Concrete)	Cum	8,80	\$ 155,17	\$ 1.365,50	Cum	8,80	\$ 131,28	\$ 1.155,31
506,1f	Structural Concrete 45 Mpa Precast Beam and precast Concrete for Diaphragm (including Formwork)	Cum	114,78	\$ 1.520,48	\$ 174.520,15	Cum	114,78	\$ 1.138,87	\$ 130.719,50
506,1g	Strands Cable Installation & Stressing	Kg	6.674,97	\$ 2,75	\$ 18.356,15	Kg	6.674,97	\$ 2,92	\$ 19.490,90
506,1h	Post-tension Prestressing and grouting	Nos	30,00	\$ 7.145,79	\$ 214.373,63				
506,1h	Paching and Grouting					Nos	20,00	\$ 276,62	\$ 5.532,40
506,1i	Tendon	m	710,00	\$ 37,00	\$ 26.270,00	m	710,00	\$ 3,71	\$ 2.634,10
506,1j	Provision and Installation of Full Depth Slab Panel (200x115x7,5cm)	Unit	240,00	\$ 185,02	\$ 44.405,58	Unit	240,00	\$ 185,02	\$ 44.405,58
506,1g	Steel Drainage Pipe diameter 4"	In	48,00	\$ 104,60	\$ 5.020,83	In	48,00	\$ 54,01	\$ 2.592,48
512	Paint for Railing	Sq.m	29,49	\$ 43,33	\$ 1.277,92	Sq.m	29,49	\$ 4,16	\$ 122,69
513	Road lighting, steel pole single Armature, LED lamp 100watt	each	4,00	\$ 2.066,27	\$ 8.265,06	each	4,00	\$ 946,28	\$ 3.785,12
<i>Sub Total 500</i>					<b>\$ 794.919,57</b>				<b>\$ 469.160,50</b>
600	DRAINAGE AND SLOPE PROTECTION STRUCTURES								
606	Stone Masonry	Cum	1.747,20	\$ 77,74	\$ 135.822,78	Cum	1.747,20	\$ 81,97	\$ 143.215,45
<i>Sub Total 600</i>					<b>\$ 135.822,78</b>				<b>\$ 143.215,45</b>
700	MISCELLANEOUS STRUCTURES								
703,4	Guide Post	Each	32,00	\$ 420,50	\$ 13.456,00	Each	32,00	\$ 22,99	\$ 735,61
706,1	Warning Signs	Each	2,00	\$ 167,02	\$ 334,04	Each	2,00	\$ 158,74	\$ 317,48
714,4	Expansion Joint	Ln.m	18,00	\$ 171,88	\$ 3.093,79	Ln.m	18,00	\$ 62,15	\$ 1.118,73
	Bearing Pad 350*500*65 mm- SIGTECHBearing Pad	Each	11,00	\$ 2.514,38	\$ 27.658,15	Each	11,00	\$ 175,92	\$ 1.935,12
<i>Sub Total 700</i>					<b>\$ 44.541,98</b>				<b>\$ 4.105,94</b>
<b>TOTAL</b>					<b>\$ 1.168.600,90</b>				<b>\$ 823.156,05</b>



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

Name of Project : NEW CONSTRUCTION BRIDGE, GIRDER BEAM SUCO PORLAMANU, TO LAGOA IRALALARO STA.8+260  
Location of Project : MUNICIPIO LAUTEM.

### OVERHEAD

NO	DESKRISAUN	UNIT	QTY	UNIT RATE US\$	AMOUNT US\$
1	PROJECT TEAM				
	Site Engineer	Ls	1,00	\$ 6.000,00	\$ 6.000,00
	Surveyor	Ls	1,00	\$ 6.000,00	\$ 6.000,00
	Logistics	Ls	1,00	\$ 1.500,00	\$ 1.500,00
	Security	Ls	1,00	\$ 900,00	\$ 900,00
2	KUSTU OPERASIONAL				
	Stationary	Ls	1,00	\$ 200,00	\$ 200,00
	Communication	Ls	1,00	\$ 200,00	\$ 200,00
	Meetings	Ls	1,00	\$ 300,00	\$ 300,00
	Electricity	Ls	1,00	\$ 1.200,00	\$ 1.200,00
	Water	Ls	1,00	\$ 500,00	\$ 500,00
	Daily, weekly, monthly reports	Ls	1,00	\$ 600,00	\$ 600,00
	Shop drawings, as built drawings	Ls	1,00	\$ 500,00	\$ 500,00
3	KUSTU SERVISU APOIO NIAN				
	Material Sampling & Testing	Ls	1,00	\$ 5.778,00	\$ 5.778,00
	Personal protective equipment (PPE)	Ls	1,00	\$ 980,09	\$ 980,09
4	KUSTU SOSIAL				
	Launching ceremony	Ls	1,00	\$ 300,00	\$ 300,00
	Completion ceremony	Ls	1,00	\$ 300,00	\$ 300,00
TOTAL					\$ 25.258,09



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

SUMMARY BILL OF QUANTITIES

NAME PROJECT : URBAN ROAD AND DRAINAGE REHABILITATION GLENO TOWN

ROAD SECTION : GLENO TOWN PACKAGE 1

SECTION 1,2,6,7,8,9,10,11,21,22,23,24,25,26,27,28,29,30 & 31

MUNICIPALITY : ERMERA MUNICIPALITY

Item No.	Description	OWNER ESTIMATE		VERIFIED BY ADN	
		Amount (US\$)		Amount (US\$)	
100	OTHER GENERAL REQUIREMENTS	\$	43,504.35	\$	25,483.01
200	EARTH WORKS	\$	312,110.06	\$	266,501.68
300	SUBBASE AND BASE COURSE	\$	452,632.37	\$	360,262.62
400	SURFACE COURSES AND PAVEMENT	\$	739,379.88	\$	683,446.19
600	DRAINAGE AND SLOPE PROTECTION WORKS	\$	1,054,685.20	\$	933,769.16
700	MISCELLANEOUS STRUCTURES	\$	98,608.74	\$	38,913.66
A	TOTAL CONSTRUCTION COST	\$	2,700,920.60	\$	2,308,376.32
B	Profit (10% of A)	\$	270,092.06	\$	230,837.63
C	Overhead	\$	12,100.00	\$	49,769.00
C	Tax {2% of (A+B+C)}	\$	59,662.25	\$	51,779.66
E	Grand Total (A+B+C+D)	\$	3,042,774.91	\$	2,640,762.61

Verified By :

Eng. Domingos Soares Martins  
Engineer. UAP - ADN.IP

Checked By :

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

Certified By :

Arch. José Fernando Liu Soares  
Coordenador. UAP - ADN.IP  
27/5/13



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

BREAKDOWN BILL OF QUANTITIES

NAME PROJECT : URBAN ROAD AND DRAINAGE REHABILITATION GLENO TOWN  
 ROAD SECTION : GLENO TOWN PACKAGE I  
 SECTION 1,2,6,7,8,9,10,11,21,22,23,24,25,26,27,28,29,30 & 31  
 MUNICIPALITY : ERMERA MUNICIPALITY

Item No.	Item Description	OWNER ESTIMATE				VERIFIED BY ADN			
		Unit	Quantity	Unit Rate (US\$)	Amount (US\$)	Unit	Quantity	Unit Rate (US\$)	Amount (US\$)
100	<i>OTHER GENERAL REQUIREMENTS</i>								
101.3(b)	Testing Material	Ls	1.00	\$ 30,000.00	\$ 30,000.00				
102.1	Mobilization	Ls	1.00	\$ 7,704.35	\$ 7,704.35	Ls	1.00	\$ 14,283.01	\$ 14,283.01
102.2	Demobilization	Ls	1.00	\$ 5,800.00	\$ 5,800.00	Ls	1.00	\$ 11,200.00	\$ 11,200.00
	<i>Sub Total</i>				\$ 43,504.35				\$ 25,483.01
200	<i>EARTH WORKS</i>								
201.1(3)	Individual Removal of Trees, Small (150 mm dia - 900 mm dia)	Each	100.00	\$ 15.77	\$ 1,577.13	Each	100.00	\$ 11.42	\$ 1,142.22
201.1(4)	Individual Removal of Trees, Large (over 900 mm dia)	Each	50.00	\$ 58.45	\$ 2,922.59	Each	50.00	\$ 69.62	\$ 3,481.13
202.3	Removal and disposal of existing asphalt pavement	Sq.m	16,875.54	\$ 2.46	\$ 41,527.30	Sq.m	16875.54	\$ 2.08	\$ 35,141.44
202.4(3)	Removal of Existing Ditch	Ln.m	3,064.77	\$ 3.50	\$ 10,726.70	Ln.m	3064.77	\$ 3.42	\$ 10,486.56
202.4(7)	Removal of Existing Lined Ditches	Ln.m	1,245.72	\$ 4.50	\$ 5,605.74	Ln.m	1245.72	\$ 4.37	\$ 5,448.12
202.4	Demolition Existing Structure	Sq.m	3,937.63	\$ 5.25	\$ 20,672.54	Sq.m	3937.63	\$ 5.24	\$ 20,628.94
203.2	Surplus common excavation	Cu.m	21,026.34	\$ 4.42	\$ 92,870.59	Cu.m	21026.34	\$ 3.18	\$ 66,828.84
205.1	Selected River Gravel Embankment	Cu.m	10,641.41	\$ 11.09	\$ 118,009.86	Cu.m	10641.41	\$ 9.63	\$ 102,454.70
206.1	Sub grade Preparation	Sq.m	33,751.08	\$ 0.54	\$ 18,197.62	Sq.m	33751.08	\$ 0.62	\$ 20,889.74
	<i>Sub Total</i>				\$ 312,110.06				\$ 266,501.68
300	<i>SUBBASE AND BASE COURSE</i>								
301	Aggregate sub base course	cu.m	6,046.94	\$ 21.32	\$ 128,935.47	cu.m	6046.94	\$ 15.72	\$ 95,046.61
302	Aggregate base course (Class A)	cu.m	3,628.16	\$ 89.22	\$ 323,696.90	cu.m	3628.16	\$ 73.10	\$ 265,216.00
	<i>Sub Total</i>				\$ 452,632.37				\$ 360,262.62
400	<i>SURFACE COURSES AND PAVEMENT</i>								
402.1	Bituminous prime coat	Sq.m	23,815.53	\$ 1.31	\$ 31,251.91	Sq.m	23815.53	\$ 1.39	\$ 33,110.47
406.2	Bituminous Concrete Surface Course, Hot-Laid, Thick 50 mm	Sq.m	23,835.53	\$ 29.71	\$ 708,127.97	Sq.m	23835.53	\$ 27.28	\$ 650,335.72
	<i>Sub Total</i>				\$ 739,379.88				\$ 683,446.19
600	<i>DRAINAGE AND SLOPE PROTECTION WORKS</i>								
601.a	RCPC, 800 mm Internal Diameter	Ln.m	248.00	\$ 251.72	\$ 62,426.86	Ln.m	248.00	\$ 285.22	\$ 70,734.25
602	Stone Masonry 1pc: 3 Sand For Line Drain	Cu.m	11,802.38	\$ 84.07	\$ 992,258.34	Cu.m	11802.38	\$ 65.25	\$ 770,074.44
602.1	Plestering thick 15 mm, 1Pc : 4 Sand					Sq.m	18299.31	\$ 5.08	\$ 92,960.47
	<i>Sub Total</i>				\$ 1,054,685.20				\$ 933,769.16
700	<i>MISCELLANEOUS STRUCTURES</i>								
710.1	Reflectorized Thermoplastic Pavement Markings (white)	Sq.m	1,805.60	\$ 54.61	\$ 98,608.74	Sq.m	1805.60	\$ 21.55	\$ 38,913.66
	<i>Sub Total</i>				\$ 98,608.74				\$ 38,913.66
A	TOTAL CONSTRUCTION COST				\$ 2,700,920.60				\$ 2,308,376.32



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## OVERHEAD

NAME PROJECT : URBAN ROAD AND DRAINAGE REHABILITATION GLENO TOWN  
 ROAD SECTION : GLENO TOWN PACKAGE 1  
 SECTION 1,2,6,7,8,9,10,11,21,22,23,24,25,26,27,28,29,30 & 31  
 MUNICIPALITY : ERMERA MUNICIPALITY

No.	ITEM DESCRIPTION	OWNER ESTIMATE				VERIFIED BY ADN			
		UNIT	QTY	UNIT PRICE	AMOUNT	UNIT	QTY	UNIT PRICE	AMOUNT
I	PROJECT TEAM								
	STAFF TEKNIKU								
1	Project Manager					Ls	1.00	\$ 6,000.00	6,000.00
2	Site Manager					Ls	1.00	\$ 4,800.00	4,800.00
3	Site Engineer	Ls	1.00	\$ 6,000.00	\$ 6,000.00	Ls	1.00	\$ 6,000.00	\$ 6,000.00
4	Quality Control					Ls	1.00	\$ 3,000.00	3,000.00
5	Health, Safety and Environment					Ls	1.00	\$ 3,000.00	3,000.00
6	Surveyor					Ls	1.00	\$ 3,000.00	3,000.00
	STAFF APOIO SERVISU								
1	Logistics					Ls	1.00	\$ 3,000.00	3,000.00
2	Administration					Ls	1.00	\$ 2,400.00	2,400.00
3	Security	Ls	1.00	\$ 3,000.00	\$ 3,000.00	Ls	1.00	\$ 1,800.00	\$ 1,800.00
II	KUSTU OPERASIONAL								
	OPERATIONAL OFFICE								
1	Stationary					Ls	1.00	\$ 600.00	600.00
2	Communication					Ls	1.00	\$ 600.00	600.00
3	Meetings					Ls	1.00	\$ 300.00	300.00
4	Electricity					Ls	1.00	\$ 600.00	600.00
5	Water					Ls	1.00	\$ 600.00	600.00
	RELATORIOS								
1	Daily, weekly, monthly reports					Ls	1.00	\$ 240.00	240.00
2	Shop drawings, as built drawings	Ls	1.00	\$ 2,500.00	\$ 2,500.00	Ls	1.00	\$ 600.00	\$ 600.00
3	Quality control report, test report, engineering report, final report					Ls	1.00	\$ 300.00	300.00
III	KUSTU SERVISU APOIO NIAN								
1	Material Sampling & Testing					Ls	1.00	\$ 12,429.00	\$ 12,429.00
2	Personal protective equipment (PPE)	Ls	1.00	\$ 600.00	\$ 600.00	Ls	1.00	\$ 500.00	\$ 500.00
	<b>TOTAL</b>				<b>\$ 12,100.00</b>				<b>\$ 49,769.00</b>

(4)



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## SUMMARY BILL OF QUANTITIES

NAME PROJECT : URBAN ROAD AND DRAINAGE REHABILITATION GLENO TOWN  
 ROAD SECTION : GLENO TOWN PACKAGE 2  
 SECTION 3,4,5,12,13,14,15,16,17,18,19 & 20  
 MUNICIPALITY : ERMERA MUNICIPALITY

Item No.	Description	OWNER ESTIMATE		VERIFIED BY ADN	
		Amount (US\$)		Amount (US\$)	
100	OTHER GENERAL REQUIREMENTS	\$	-	\$	25,483.01
200	EARTH WORKS	\$	310,206.26	\$	271,675.65
300	SUBBASE AND BASE COURSE	\$	647,276.72	\$	515,185.43
400	SURFACE COURSES AND PAVEMENT	\$	1,020,343.40	\$	943,159.86
500	BRIDGE CONSTRUCTION	\$	228,261.05	\$	220,655.53
600	DRAINAGE AND SLOPE PROTECTION WORKS	\$	889,419.15	\$	777,807.53
700	MISCELLANEOUS STRUCTURES	\$	64,207.69	\$	61,860.11
A	TOTAL CONSTRUCTION COST	\$	3,159,714.27	\$	2,815,827.13
B	Profit (10% of A)	\$	315,971.43	\$	281,582.71
C	Overhead	\$	12,100.00	\$	54,482.00
D	Tax {2% of (A+B+C)}	\$	69,755.71	\$	63,037.84
E	Grand Total (A+B+C+D)	\$	3,557,541.42	\$	3,214,929.67

Verified By :

Eng. Domingos Soares Martins  
 Engineer. UAP - ADN.IP

Checked By :

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

Certified By :

Arch. José Fernando Liu Soares  
 Coordenador. UAP - ADN.IP



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

BREAKDOWN BILL OF QUANTITIES

NAME PROJECT : URBAN ROAD AND DRAINAGE REHABILITATION GLENO TOWN  
 ROAD SECTION : GLENO TOWN PACKAGE 2  
 SECTION 3,4,5,12,13,14,15,16,17,18,19 & 20  
 MUNICIPALITY : ERMERA MUNICIPALITY

Item No.	Item Description	OWNER ESTIMATE				VERIFIED BY ADN			
		Unit	Quantity	Unit Rate	Amount	Unit	Quantity	Unit Rate	Amount
				(US\$)	(US\$)			(US\$)	(US\$)
100	<i>OTHER GENERAL REQUIREMENTS</i>								
101.3(b)	Testing Material	Ls	-	\$ -	\$ -	Ls	0.00		\$ -
102.1	Mobilization	Ls	-	\$ -	\$ -	Ls	1.00	\$ 14,283.01	\$ 14,283.01
102.2	Demobilization	Ls	-	\$ -	\$ -	Ls	1.00	\$ 11,200.00	\$ 11,200.00
	<i>Sub Total</i>				\$ -				\$ 25,483.01
200	<i>EARTH WORKS</i>								
201.1(3)	Individual Removal of Trees, Small (150 mm dia - 900 mm dia)	Each	100.00	\$ 15.77	\$ 1,577.13	Each	100.00	\$ 11.42	\$ 1,142.22
201.1(4)	Individual Removal of Trees, Large (over 900 mm dia)	Each	50.00	\$ 58.45	\$ 2,922.59	Each	50.00	\$ 69.62	\$ 3,481.13
202.3	Removal and disposal of existing asphalt pavement	Sq.m	17,337.00	\$ 2.46	\$ 42,662.86	Sq.m	17337.00	\$ 2.08	\$ 36,102.38
202.4(3)	Removal of Existing Ditch	Ln.m	3,418.39	\$ 3.50	\$ 11,964.37	Ln.m	3418.39	\$ 3.42	\$ 11,696.52
202.4(7)	Removal of Existing Lined Ditches	Ln.m	1,609.51	\$ 4.50	\$ 7,242.80	Ln.m	1609.51	\$ 4.37	\$ 7,039.15
202.4	Demolition Existing Structure	Sq.m	4,045.30	\$ 5.25	\$ 21,237.83	Sq.m	4045.30	\$ 5.24	\$ 21,193.03
203.2	Surplus common excavation	Cu.m	17,848.75	\$ 4.19	\$ 74,756.46	Cu.m	17848.75	\$ 3.18	\$ 56,729.38
205.1	Selected River Gravel Embankment	Cu.m	11,417.79	\$ 11.09	\$ 126,619.60	Cu.m	11417.79	\$ 9.63	\$ 109,929.58
206.1	Sub grade Preparation	Sq.m	39,361.57	\$ 0.54	\$ 21,222.64	Sq.m	39361.57	\$ 0.62	\$ 24,362.27
	<i>Sub Total</i>				\$ 310,206.26				\$ 271,675.65
300	<i>SUBBASE AND BASE COURSE</i>								
301	Aggregate sub base course	cu.m	8,647.29	\$ 21.32	\$ 184,381.26	cu.m	8647.29	\$ 15.72	\$ 135,919.27
302	Aggregate base course (Class A)	cu.m	5,188.37	\$ 89.22	\$ 462,895.46	cu.m	5188.37	\$ 73.10	\$ 379,266.17
	<i>Sub Total</i>				\$ 647,276.72				\$ 515,185.43
400	<i>SURFACE COURSES AND PAVEMENT</i>								
402.1	Bituminous prime coat	Sq.m	32,891.83	\$ 1.31	\$ 43,162.28	Sq.m	32891.83	\$ 1.39	\$ 45,729.16
406.2	Bituminous Concrete Surface Course, Hot-Laid, Thick 50 mm	Sq.m	32,891.83	\$ 29.71	\$ 977,181.12	Sq.m	32891.83	\$ 27.28	\$ 897,430.70
	<i>Sub Total</i>				\$ 1,020,343.40				\$ 943,159.86
500	<i>BRIDGE CONSTRUCTION</i>								
505.2	Reinforcing Steel	Kg	17,695.52	\$ 1.66	\$ 29,356.86	Kg	17695.52	\$ 1.66	\$ 29,356.86
506.1	Structural Concrete Class "A" (25 MPa)	Cu.m	816.06	\$ 224.07	\$ 182,853.87	Cu.m	816.06	\$ 217.01	\$ 177,091.45
506.6	Lean Concrete 10 Mpa	Cu.m	119.69	\$ 134.10	\$ 16,050.31	Cu.m	119.69	\$ 118.70	\$ 14,207.21
	<i>Sub Total</i>				\$ 228,261.05				\$ 220,655.53

Item No.	Item Description	OWNER ESTIMATE				VERIFIED BY ADN			
		Unit	Quantity	Unit Rate (US\$)	Amount (US\$)	Unit	Quantity	Unit Rate (US\$)	Amount (US\$)
600	DRAINAGE AND SLOPE PROTECTION WORKS								
601.a	RCPC, 800 mm Internal Diameter	Ln.m	80.00	\$ 251.72	\$ 20,137.70	Ln.m	80.00	\$ 285.22	\$ 22,817.50
602	Stone Masonry 1pc: 3 Sand for Line Drain	Cu.m	9,801.90	\$ 84.07	\$ 824,072.40	Cu.m	9801.90	\$ 65.25	\$ 639,548.26
607	Stone Masonry 1 Pe : 3 Sand for Retaining Wall	Cu.m	537.74	\$ 84.07	\$ 45,209.04	Cu.m	537.74	\$ 65.25	\$ 35,085.95
602.1	Plestering thick 15 mm, 1Pc : 4 Sand					Sq.m	15818.07	\$ 5.08	\$ 80,355.82
	<i>Sub Total</i>				\$ 889,419.15				\$ 777,807.53
700	MISCELLANEOUS STRUCTURES								
701.1	Concrete Curb	Ln.m	1,630.48	\$ 19.19	\$ 31,296.66	Ln.m	1630.48	\$ 18.31	\$ 29,857.15
701.2	Concrete Gutter	Ln.m	815.24	\$ 19.19	\$ 15,648.33	Ln.m	815.24	\$ 18.31	\$ 14,928.57
702	Interlocking Concrete Block (Paving Block)	Sq.m	896.76	\$ 19.25	\$ 17,262.71	Sq.m	896.76	\$ 19.04	\$ 17,074.39
	<i>Sub Total</i>				\$ 64,207.69				\$ 61,860.11
	<i>Total</i>				\$3,159,714.27				\$2,815,827.13



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## OVERHEAD

NAME PROJECT : URBAN ROAD AND DRAINAGE REHABILITATION GLENO TOWN  
 ROAD SECTION : GLENO TOWN PACKAGE 2  
 SECTION 3,4,5,12,13,14,15,16,17,18,19 & 20  
 MUNICIPALITY : ERMERA MUNICIPALITY

No.	ITEM DESCRIPTION	OWNER ESTIMATE				VERIFIED BY ADN			
		UNIT	QTY	UNIT PRICE	AMOUNT	UNIT	QTY	UNIT PRICE	AMOUNT
I	PROJECT TEAM					Ls	1.00	\$ 6,000.00	\$ 6,000.00
	STAFF TEKNIKU					Ls	1.00	\$ 4,800.00	\$ 4,800.00
1	Project Manager					Ls	1.00	\$ 6,000.00	\$ 6,000.00
2	Site Manager					Ls	1.00	\$ 4,800.00	\$ 4,800.00
3	Site Engineer	Ls	1.00	\$ 6,000.00	\$ 6,000.00	Ls	1.00	\$ 6,000.00	\$ 6,000.00
4	Quality Control					Ls	1.00	\$ 3,000.00	\$ 3,000.00
5	Health, Safety and Environment					Ls	1.00	\$ 3,000.00	\$ 3,000.00
6	Surveyor					Ls	1.00	\$ 3,000.00	\$ 3,000.00
	STAFF APOIO SERVISU								
1	Logistics					Ls	1.00	\$ 3,000.00	\$ 3,000.00
2	Administration					Ls	1.00	\$ 2,400.00	\$ 2,400.00
3	Security	Ls	1.00	\$ 3,000.00	\$ 3,000.00	Ls	1.00	\$ 1,800.00	\$ 1,800.00
II	KUSTU OPERASIONAL								
	OPERATIONAL OFFICE								
1	Stationary					Ls	1.00	\$ 600.00	\$ 600.00
2	Communication					Ls	1.00	\$ 600.00	\$ 600.00
3	Meetings					Ls	1.00	\$ 300.00	\$ 300.00
4	Electricity					Ls	1.00	\$ 600.00	\$ 600.00
5	Water					Ls	1.00	\$ 600.00	\$ 600.00
	RELATORIOS								
1	Daily, weekly, monthly reports					Ls	1.00	\$ 240.00	\$ 240.00
2	Shop drawings, as built drawings	Ls	1.00	\$ 2,500.00	\$ 2,500.00	Ls	1.00	\$ 600.00	\$ 600.00
3	Quality control report, test report, engineering report, final report					Ls	1.00	\$ 300.00	\$ 300.00
III	KUSTU SERVISU APOIO NIAN								
1	Material Sampling & Testing					Ls	1.00	\$ 17,142.00	\$ 17,142.00
2	Personal protective equipment (PPE)	Ls	1.00	\$ 600.00	\$ 600.00	Ls	1.00	\$ 500.00	\$ 500.00
	<b>TOTAL</b>				<b>\$ 12,100.00</b>				<b>\$ 54,482.00</b>

(5)



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

**SUMMARY**

PROJECT TITLE : Rehabilitation of Batugade Road Package I (sta. 0+000 - 8+000)

PROJECT LOCATION : Batugade Municipio Bobonaro

SECTION NO.	DESCRIPTION	VERIFIED BY OWNER AMOUNT (USD)	VERIFIED BY ADN, I.P. AMOUNT (USD)
100	GENERAL REQUIREMENTS	\$ 46.700,00	\$ 48.136,68
200	EARTHWORKS	\$ 131.385,21	\$ 143.100,02
300	SUB BASE AND BASE COURSE	\$ 989.289,23	\$ 993.457,98
400	SURFACE COURSE	\$ 1.725.227,24	\$ 1.339.163,19
500	BRIDGE CONSTRUCTION	\$ 94.280,78	\$ 94.262,07
600	DRAINAGE AND SLOPE PROTECTION STRUCTURES	\$ 162.163,72	\$ 153.849,08
700	MISCELLANEOUS STRUCTURES	\$ 43.032,11	\$ 43.032,11
A	CONSTRUCTION COST	\$ 3.145.378,29	\$ 2.815.001,13
B	PROFIT (A x 10%)	\$ 314.537,83	\$ 281.500,11
C	OVERHEAD	\$ 20.600,00	\$ 99.086,98
D	TAX 2% x (A + B + C)	\$ 69.610,32	\$ 63.911,76
E	GRAND TOTAL (A + B + C)	\$ 3.550.126,44	\$ 3.259.499,99

Verified by :

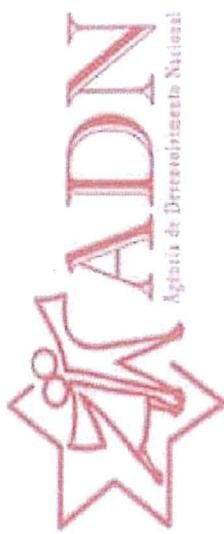
(Eng. Mário Gusmão Mendeita)  
Enjineiro Civil, UAP - ADN, I.P.

Checked By :

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

Certified By :

(Arch. José Fernando Liu Soares)  
Coordenador UAP - ADN, I.P.  
19/3/12



**AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.**

**BILL OF QUANTITY**

PROJECT TITLE : Rehabilitation of Batugade Road Package I (sta. 0+000 - 8+000)

PROJECT LOCATION : Batugade Município Bobonaro

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 \$	AMOUNT US \$
<b>100 GENERAL REQUIREMENTS</b>										
102,1 Contractor's Mobilization	Ls	1,00	\$	26.730,00	\$	26.730,00	Ls	1,00	\$	26.886,68
102,3 Contractor's Demobilization	Ls	1,00	\$	14.970,00	\$	14.970,00	Ls	1,00	\$	16.250,00
103,3 Relocation of Public Utilities (Compensation for water line)	Ls	1,00	\$	5.000,00	\$	5.000,00	Ls	1,00	\$	5.000,00
<b>200 EARTHWORKS</b>										
201,1 Clearing and Grubbing	Hectare	2,00	\$	576,57	\$	1.153,14	Hectare	2,00	\$	616,99
201,3 Individual Removal of Trees (Large)	Each	64,00	\$	58,45	\$	3.740,91	Each	64,00	\$	68,91
201,4 Individual Removal of Trees (Small)	Each	108,00	\$	15,77	\$	1.703,30	Each	108,00	\$	15,77
202,3 Removal and Disposal of Existing Asphalt Pavement	Sq.m	21937,50	\$	2,07	\$	45.420,93	Sq.m	21937,50	\$	2,67
203,2 Rock Excavation	Cu.m	4,32	\$	11,11	\$	47,98	Cu.m	4,32	\$	12,97
203,3 Structure Excavation	Cu.m	1144,00	\$	3,11	\$	3.558,08	Cu.m	1144,00	\$	3,80
203,4 Unsuitable Excavation	Cu.m	15010,45	\$	1,98	\$	29.709,27	Cu.m	15010,45	\$	1,93
205,4 Granular Fill Material	Cu.m	3753,69	\$	3,48	\$	13.060,44	Cu.m	3753,69	\$	3,41
206,1 Subgrade Preparation (Common Material)	Sq.m	50034,84	\$	0,66	\$	32.991,16	Sq.m	50034,84	\$	0,62
<b>300 SUB BASE AND BASE COURSE</b>										
301 Aggregate Subbase Course	Cu.m	13405,96	\$	20,34	\$	272.656,15	Cu.m	13405,96	\$	20,28
303 Crushed Aggregate Base Course, Grading A	Cu.m	10724,77	\$	66,82	\$	716.633,08	Cu.m	10724,77	\$	67,28
<b>400 SURFACE COURSE</b>										
402,1 Bituminous Prime Coat (MG-70, Cutback Asphalt)	Sq.m	53623,84	\$	1,45	\$	77.577,63	Sq.m	53623,84	\$	1,50
411 Asphalt Concrete Binder Course (ACBC), 60mm thick	Sq.m	53623,84	\$	30,73	\$	1.647.649,61	Sq.m	53623,84	\$	23,48
<b>500 BRIDGE CONSTRUCTION</b>										



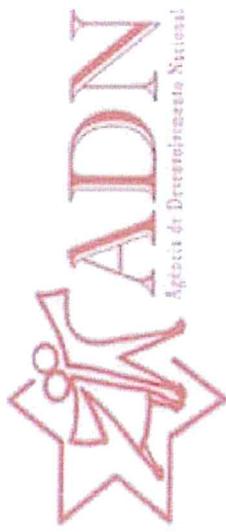
AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## BILL OF QUANTITY

PROJECT TITLE : Rehabilitation of Batugade Road Package I (sta. 0+000 - 8+000)

PROJECT LOCATION : Batugade Município Bobonaro

PAY ITEM	ITEM DESCRIPTION	VERIFIED BY OWNER						VERIFIED BY ADN, I.P.
		UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$	UNIT	QUANTITY	
505.2	Reinforcing Steel	Kg	26762,74	\$ 1,80	\$ 48.172,94	Kg	26762,74	\$ 1,80 \$ 48.172,94
506.1	Structural Concrete Class "A" (25 MPa)	Cu.m	207,00	\$ 206,39	\$ 42.723,63	Cu.m	207,00	\$ 207,39 \$ 42.929,02
506.6	Lean Concrete	Cu.m	26,84	\$ 126,09	\$ 3.384,21	Cu.m	26,84	\$ 117,74 \$ 3.160,12
					<b>\$ 94.280,78</b>			<b>\$ 94.262,07</b>
<b>600</b>	<b>DRAINAGE AND SLOPE PROTECTION STRUCTURES</b>							
601.3	RCP 1000mm diameter	L.n.m	22,00	\$ 308,18	\$ 6.779,93	L.n.m	22,00	\$ 368,82 \$ 8.114,01
601.4	RCP 1200mm diameter	L.n.m	24,00	\$ 373,06	\$ 8.953,53	L.n.m	24,00	\$ 449,89 \$ 10.797,47
603	Inlet & Outlet Structure	Each	2,00	\$ 248,04	\$ 496,08	Each	2,00	\$ 231,25 \$ 462,51
604.4	PVC 4" Dia.	L.n.m	329,00	\$ 4,80	\$ 1.580,02	L.n.m	329,00	\$ 4,80 \$ 1.580,02
606	Stone Masonry	Cu.m	1966,00	\$ 73,43	\$ 144.354,16	Cu.m	1966,00	\$ 67,60 \$ 132.895,07
					<b>\$ 162.163,72</b>			<b>\$ 153.849,08</b>
<b>700</b>	<b>MISCELLANEOUS STRUCTURES</b>							
706.1	Warning Signs	Each	9,00	\$ 138,23	\$ 1.244,07	Each	9,00	\$ 138,23 \$ 1.244,07
706.2	Kilo Meter Post	Each	7,00	\$ 70,19	\$ 491,34	Each	7,00	\$ 70,19 \$ 491,34
706.3	Informatory Signs	Each	1,00	\$ 138,23	\$ 138,23	Each	1,00	\$ 138,23 \$ 138,23
707	ReflectORIZED Thermoplastic Pavement Markings	Sq.m	1370,00	\$ 30,04	\$ 41.158,47	Sq.m	1370,00	\$ 30,04 \$ 41.158,47
					<b>\$ 43.032,11</b>			<b>\$ 43.032,11</b>
					<b>TOTAL</b>			<b>\$ 2.815.001,13</b>



**AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.**

PROJECT TITLE : Rehabilitation of Batugade Road Package I (sta. 0+000 - 8+000)  
 PROJECT LOCATION : Batugade Município Bobonaro

**OVERHEAD**

PAY ITEM	ITEM DESCRIPTION	VERIFIED BY OWNER					UNIT RATE US \$	AMOUNT US \$	QUANTITY	UNIT	UNIT RATE US \$	AMOUNT US \$	QUANTITY	UNIT	UNIT RATE US \$	AMOUNT US \$	
		UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$												
<b>I PROJECT TEAM</b>																	
1 Project Manager							Ls	1,00	\$	9.000,00	\$	9.000,00					
2 Site Manager							Ls	1,00	\$	12.000,00	\$	12.000,00					
3 Quality Control							Ls	1,00	\$	6.000,00	\$	6.000,00					
3 Site Engineer							Ls	1,00	\$	6.000,00	\$	6.000,00					
4 Surveyor							Ls	1,00	\$	5.000,00	\$	5.000,00					
5 Logistics							Ls	1,00	\$	3.000,00	\$	3.000,00					
6 Administration							Ls	1,00	\$	2.400,00	\$	2.400,00					
7 Cleaning Staff							Ls	1,00	\$	1.800,00	\$	1.800,00					
8 Security							Ls	1,00	\$	1.800,00	\$	1.800,00					
<b>II OPERATIONAL COST</b>																	
1 Stationary							Ls	1,00	\$	600,00	\$	600,00					
2 Communication							Ls	1,00	\$	600,00	\$	600,00					
3 Electricity							Ls	1,00	\$	600,00	\$	600,00					
4 Water							Ls	1,00	\$	600,00	\$	600,00					
5 Daily, weekly, monthly reports							Ls	1,00	\$	480,00	\$	480,00					
6 Shop drawings, as built drawings							Ls	1,00	\$	480,00	\$	480,00					
7 Traffic Management and Safety							Ls	1,00	\$	1.500,00	\$	1.500,00					
8 Material testing							Ls	1,00	\$	10.000,00	\$	10.000,00					
<b>III SOCIAL COST</b>																	
1 Launch and Completion ceremony							Ls	1,00	\$	2.000,00	\$	2.000,00					
							<b>TOTAL AMOUNT</b>	<b>\$ 20.600,00</b>								<b>\$ 99.086,98</b>	



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## SUMMARY

PROJECT TITLE : Rehabilitation of Batugade Road Package I (sta. 0+000 - 8+000)

PROJECT LOCATION : Batugade Municipio Bobonaro

SECTION NO.	DESCRIPTION	AMOUNT (USD)
100	GENERAL REQUIREMENTS	\$ -
200	EARTHWORKS	\$ -
300	SUB BASE AND BASE COURSE	\$ -
400	SURFACE COURSE	\$ -
500	BRIDGE CONSTRUCTION	\$ -
600	DRAINAGE AND SLOPE PROTECTION STRUCTURES	\$ -
700	MISCELLANEOUS STRUCTURES	\$ -
A	CONSTRUCTION COST	\$ -
B	PROFIT (A x 10%)	\$ -
C	OVERHEAD	\$ -
D	TAX 2% x (A + B + C)	\$ -
E	GRAND TOTAL (A + B + C)	\$ -



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## BILL OF QUANTITY

PROJECT TITLE : Rehabilitation of Batugade Road Package I (sta. 0+000 - 8+000)

PROJECT LOCATION : Batugade Municipio Bobonaro

PAY ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$
<b>100</b>	<b>GENERAL REQUIREMENTS</b>				
102,1	Contractor's Mobilization	Ls	1,00	\$ -	\$ -
102,3	Contractor's Demobilization	Ls	1,00	\$ -	\$ -
103,3	Relocation of Public Utilities (Compensasian for water line)	LS	1,00	\$ -	\$ -
				<b>Sub Total 100</b>	\$ -
<b>200</b>	<b>EARTHWORKS</b>				
201,1	Clearing and Grubbing	Hectare	2,00	\$ -	\$ -
201,3	Individual Removal of Trees (Large)	Each	64,00	\$ -	\$ -
201,4	Individual Removal of Trees (Small)	Each	108,00	\$ -	\$ -
202,3	Removal and Disposal of Existing Asphalt Pavement	Sq.m	21937,50	\$ -	\$ -
203,2	Rock Excavation	Cu.m	4,32	\$ -	\$ -
203,3	Structure Excavation	Cu.m	1144,00	\$ -	\$ -
203,4	Unsuitable Excavation	Cu.m	15010,45	\$ -	\$ -
205,4	Granular Fill Material	Cu.m	3753,69	\$ -	\$ -
206,1	Subgrade Preparation (Common Material)	Sq.m	50034,84	\$ -	\$ -
				<b>Sub Total 00</b>	\$ -
<b>300</b>	<b>SUB BASE AND BASE COURSE</b>				
301	Aggregate Subbase Course	Cu.m	13405,96	\$ -	\$ -
303	Crushed Aggregate Base Course, Grading A	Cu.m	10724,77	\$ -	\$ -
				<b>Sub Total 300</b>	\$ -
<b>400</b>	<b>SURFACE COURSE</b>				
402,1	Bituminous Prime Coat (MC-70, Cutback Asphalt)	Sq.m	53623,84	\$ -	\$ -
411	Asphalt Concrete Binder Course (ACBC), 60mm thick	Sq.m	53623,84	\$ -	\$ -
				<b>Sub Total 400</b>	\$ -
<b>500</b>	<b>BRIDGE CONSTRUCTION</b>				
505,2	Reinforcing Steel	Kg	26762,74	\$ -	\$ -
506,1	Structural Concrete Class "A" (25 MPa)	Cu.m	207,00	\$ -	\$ -
506,6	Lean Concrete	Cu.m	26,84	\$ -	\$ -
				<b>Sub Total 500</b>	\$ -
<b>600</b>	<b>DRAINAGE AND SLOPE PROTECTION STRUCTURES</b>				
601,3	RCPC 1000mm diameter	Ln.m	22,00	\$ -	\$ -
601,4	RCPC 1200mm diameter	Ln.m	24,00	\$ -	\$ -
603	Inlet & Outlet Structure	Each	2,00	\$ -	\$ -
604,4	PVC 4" Dia.	Ln.m	329,00	\$ -	\$ -
606	Stone Masonry	Cu.m	1966,00	\$ -	\$ -
				<b>Sub Total 600</b>	\$ -
<b>700</b>	<b>MISCELLANEOUS STRUCTURES</b>				
706,1	Warning Signs	Each	9,00	\$ -	\$ -
706,2	Kilo Meter Post	Each	7,00	\$ -	\$ -
706,3	Informatory Signs	Each	1,00	\$ -	\$ -
707	Reflectorized Thermoplastic Pavement Markings	Sq.m	1370,00	\$ -	\$ -
				<b>Sub Total 700</b>	\$ -
				<b>TOTAL</b>	\$ -



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## OVERHEAD

PROJECT TITLE : Rehabilitation of Batugade Road Package I (sta. 0+000 - 8+000)

PROJECT LOCATION : Batugade Município Bobonaro

PAY ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$
I	PROJECT TEAM				
1	Project Manager	Ls	1,00	\$ -	\$ -
2	Site Manager	Ls	1,00	\$ -	\$ -
3	Quality Control	Ls	1,00	\$ -	\$ -
3	Site Engineer	Ls	1,00	\$ -	\$ -
4	Surveyor	Ls	1,00	\$ -	\$ -
5	Logistics	Ls	1,00	\$ -	\$ -
6	Administration	Ls	1,00	\$ -	\$ -
7	Cleaning Staff	Ls	1,00	\$ -	\$ -
8	Security	Ls	1,00	\$ -	\$ -
II	OPERATIONAL COST				
1	Stationary	Ls	1,00	\$ -	\$ -
2	Communication	Ls	1,00	\$ -	\$ -
3	Electricity	Ls	1,00	\$ -	\$ -
4	Water	Ls	1,00	\$ -	\$ -
5	Daily, weekly, monthly reports	Ls	1,00	\$ -	\$ -
6	Shop drawings, as built drawings	Ls	1,00	\$ -	\$ -
7	Traffic Management and Safety	Ls	1,00	\$ -	\$ -
8	Material testing	Ls	1,00	\$ -	\$ -
III	SOCIAL COST				
1	Launch and Completion ceremony	Ls	1,00	\$ -	\$ -
				TOTAL	\$ -

AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## FORMULARIO DE DESPACHO

Data de Entrada Documentos : 07 - 03 - 2025 Data do Documentos : 07 - 03 - 2025

Husi : MOP - UIVP

No. Ref: 232 / UIVP - MOP / III / 2025

Projecto : Rehabilitation of Batugede Road  
 ~. Package I (Sta 0+000 - 8+000)  
 ~. Package II (Sta 8+000 - 12+950)  
 Municipio Bobonaro.

Quantidade Documentos : ...2....

Anexo :

\* Boa + Desenho : 2

NB : Soft Copy Annex  
 iha Doc. no No.  
 Izef. 221.

Assuntos :

Pedido Re-Verifikasiun

No.Tlf : -

Companhia : -

Despacho :

- Unidade de Gestão Administrativa
  - Unidade de Avaliação de Projectos
  - Unidade de Controlo e Validação de Qualidade
  - Unidade de Estudos e Desenvolvimento de Competências
- Ba up ate atanda

- Adjunto
- Assessor/a
- Gabinete DE / Base de Dadus
- Other

Data : 7/03/2025

Rui Lourenço da Costa  
 Director Executivo ADN



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



Unidade do Inspecção e Verificação Para Pagamento – MOP

Dili, 7 de Marsu de 2025

Hato'ba :	<u>Sr.Rui Lourenço da Costa</u> Director Executivo-ADN, I. P.
No.ref :	<u>232/UIVP-MOP/III/2025</u>
Assuntu :	Pedido Re-Verifikasiasaun
Fontes de Orsamento :	Fundu de Infraestrutura (FI)
Tinan Alokasaun Orsamento :	2025
Programa Orsamento :	0260909:Batugade-Balibo(Novo Construction das Estradas,Nacional Batugade -Balibo A03 Sta.0+000-41+300 km)
Naran Projetu :	1.Rehabilitation Of Batugade Road Package I (Sta.0+000- 8+000),Municipio Bobonaro 2.Rehabilitation Of Batugade Road Package II(Sta.8+000 – 12+980)Municipio Bobonaro

Ho respeitu,

Refere ba asuntu iha leten, Unidade do Inspecção e Verificação Para Pagamento - MOP enkaminha dokumentus ba projetu:

1. Rehabilitation Of Batugade Road Package I (Sta.0+000- 8+000),Municipio Bobonaro
2. Rehabilitation Of Batugade Road Package II(Sta.8+000 – 12+980)Municipio Bobonaro

Dokumentus hirak ne'e ne'ebe antes ho naran projetu **Rehabilitation Of Batugade Road to Balibo Road Length=12.982 km Batugade Municipio Bobonaro** hetan ona verifikasiasaun husi ADN, I.P. no nia resultadu manda mai Ministerio das Obras Publicas liu husi karta ho numeru referencia **1832/ADN,I.P/XI/2024** data **13 de Novembro de 2024**, maibe tamba Ministerio das Obras Publicas deside atu fahe fali projetu refere ba pakote rua ne'e duni enkaminha fali dokumentus refere hodi bele hetan fali verifikasiasaun husi ADN, I.P.

Nudar informasaun, orsamentu ba projetu ida ne'e sei foti husi Fundo de Infraestrutura Ministério das Obras Públicas ba tinan 2025.

Mak Ne'e deit, ba ita bo'ot nia kolaborasaun no servisu hamutuk, hato'o obrigado wain.

Eng. Aleixo Amaral do Carmo

Koordenador Geral Unidade do Inspecção e Verificação Para Pagamento – MOP

No.	Código	Nome do Projeto	Total Custo de Projeto (Estimativa) (US\$)	Total Custo de Projeto Acumulado até o Decembro de 2023 (US\$)	Balanco Estimativo até o Decembro de 2023 (US\$)	Balanco para Despesas Estimativas de 13 de setembro de 2024 (US\$)	Alocação do Orçamento de 2024 para o Período de 2024 (US\$)	Despesas Estimativas de 14 de setembro de 2024 (US\$)	Balanco para Despesas Estimativas de 13 de dezembro de 2024 (US\$)	Alocação do Orçamento de 2025 para o Período de 2025 (US\$)	Despesas Estimativas de 14 de dezembro de 2025 (US\$)	Balanco para Despesas Estimativas de 13 de dezembro de 2025 (US\$)	Alocação do Orçamento de 2026 para o Período de 2026 (US\$)	Despesas Estimativas de 14 de dezembro de 2026 (US\$)	Balanco para Despesas Estimativas de 13 de dezembro de 2026 (US\$)	Alocação do Orçamento de 2027 para o Período de 2027 (US\$)	Despesas Estimativas de 14 de dezembro de 2027 (US\$)	Balanco para Despesas Estimativas de 13 de dezembro de 2027 (US\$)
185	0260099	MOP	Rodo Construtor da Estrada Nacional Autuno - Caixa	3,485,938,918	613,016,635	256,927,052	703,086,924	2,653,977,070	91,154,391	21,186,194	713,946,353	2,340,307,410	11,205,616	62,059,330	751,156,150	1,513,151,59	01/05/2027	
186	0160310	MOP	Zumbi do Rio - 38 Km (Rodo Construtor das Estradas Nacionais Zumbi do Rio e Rio Araripe - 38 Km)	308,539	308,539	-	-	-	-	-	500,000	500,000	500,000	500,000	500,000	-	-	
187	0260111	MOP	Rodo Construtor da Estrada Nacional Rodovia Presidente Dutra - 113 Km	555,728	555,728	-	-	-	-	-	500,000	500,000	500,000	500,000	500,000	-	-	
188	0260112	MOP	Rodo Construtor da Estrada Nacional Ferrovia - 111 Km	135,692	135,692	-	-	-	-	-	500,000	500,000	500,000	500,000	500,000	-	-	
189	0260113	MOP	Rodo Construtor da Estrada Nacional Ferrovia - 111 Km	211,584	211,584	-	-	-	-	-	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	-	-	
190	0260114	MOP	Rodo 13 Km	815,953	815,953	-	-	-	-	-	100,000	100,000	100,000	100,000	100,000	-	-	
191	0260115	MOP	Rodo Construtor da Estrada Presidente Dutra - 113 Km	211,584	211,584	-	-	-	-	-	100,000	100,000	100,000	100,000	100,000	-	-	
192	0260116	MOP	Rodo Construtor das Estradas Nacionais Ferrovia - 111 Km	271,984	271,984	-	-	-	-	-	100,000	100,000	100,000	100,000	100,000	-	-	
193	0260117	MOP	Rodo Construtor das Estradas Nacionais Ferrovia - 111 Km	1,000,000	1,000,000	-	-	-	-	-	100,000	100,000	100,000	100,000	100,000	-	-	
194	0260118	MOP	Rodo Construtor das Estradas Sul/Alasca - Whangash	1,000,000	1,000,000	-	-	-	-	-	100,000	100,000	100,000	100,000	100,000	-	-	
195	0260119	MOP	Rodo Construtor das Estradas Sul/Alasca	500,000	500,000	-	-	-	-	-	100,000	100,000	100,000	100,000	100,000	-	-	
196	0260220	MOP	Rodo Construtor das Estradas Sul/Alasca	651,763	651,763	-	-	-	-	-	500,000	500,000	500,000	500,000	500,000	-	-	
197	0261316	MOP	Imperatriz-Pontalândia-Pecém-Orla-Guaratuba - 14 Km	3,871,634	2,475,313	1,404,321	1,402,321	387,954	387,954	932,966	395,142	424,787	387,953	-	-	-	-	-
198	0261224	MOP	Porto do Itaqui - Porto do Itaqui - Pontalândia - 14 Km	278,108	159,481	65,627	68,627	68,627	10,573	10,573	68,627	5	-	-	-	-	-	
199	0264318	MOP	Reparo das Ribeirinhas - 0,6 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
200	0264359	MOP	Reparo das Ribeirinhas - 0,6 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
201	0265251	MOP	Sexta etapa da Reparação das Ribeirinhas - 0,6 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
202	0265264	MOP	Reparo das Ribeirinhas - 0,6 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
203	0265285	MOP	Construction of the Rodo Highway Road Project Section 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
204	0265300	MOP	Imperial-Guarapari-Rodovia Federal BR-101 - 10 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
205	0265315	MOP	Rehabilitation of the Rodo Highway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
206	0265331	MOP	Construction of the Rodo Highway Road Project Section 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
207	0265356	MOP	Rodo Construtor das Estradas Nacionais Imperatriz-Pecém-Orla-Guaratuba - 14 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
208	0265359	MOP	Projeto de Manutenção e Reabilitação da Rodo Highway Road Project (BR-101) Upgrade and Maintenance - Stage 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
209	0265361	MOP	Manutenção e Reparação das Ribeirinhas - 0,6 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
210	0265376	MOP	Reparo das Ribeirinhas - 0,6 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
211	0265391	MOP	Reparo das Ribeirinhas - 0,6 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
212	0265411	MOP	Reparo das Ribeirinhas - 0,6 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
213	0265426	MOP	Reparo das Ribeirinhas - 0,6 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
214	0265439	MOP	Reparo das Ribeirinhas - 0,6 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
215	0265454	MOP	Reparo das Ribeirinhas - 0,6 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
216	0265531	MOP	Reparo das Ribeirinhas - 0,6 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
217	0265556	MOP	Rodo Construtor das Estradas Nacionais Imperatriz-Pecém-Orla-Guaratuba - 14 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
218	0265579	MOP	Projeto de Manutenção e Reabilitação da Rodo Highway Road Project (BR-101) Upgrade and Maintenance - Stage 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
219	0265593	MOP	Manutenção e Reparação das Ribeirinhas - 0,6 Km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
220	0265619	MOP	Supervision and Control of Construction of the Rodo Highway Road Project (BR-101) Upgrade and Maintenance - Stage 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

Data, .....13..... de Novembro de 2024

Ref : 1832 /ADN, I.P./XI/2024

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

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

Asuntu : Rezultado Verifikasiasaun – Project Rehabilitation of Batugade Road to Balibo  
Road Length =12.982 km – Batugade, Minicipio Bobonaro OK

Ho Respeito,

Bazeia ba karta pedidu verifikasiasaun ho no ref: 1197/UIVP-MOP/IX/2024 ho data 26 de Setembro de 2024, ba asuntu ne'ebe mensiona iha leten, ekipa verifikasiasaun Unidade Avaliação dos Projetos – ADN, I.P. hala'o ona verifikasiasaun ba dokumentu refere. Ho nune'e bele hare rezultado verifikasiasaun iha (*aneksu*).

Ba ita bo'ot nia atensaun ami hato' o agradecimento wain no subkreve ho konsiderasaun a'as tebes.

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



Bedik-Hun, Fatuh  
Dili – Timor-Leste  
info@mpie.gov.tl  
+670 3310 289



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

J

## FORMULARIO DE DESPACHO

Data de Entrada Documentos : 26 - 09 - 2024

Data do Documentos : 26 - 09 - 24

Husi : MOP - UIVP

No. Ref : 1197 / UIVP - MOP / IX / 2024

Projecto :

Quantidade Documentos : 1.....

Rehabilitation of Batu Gede  
Road to Balibo Road (Length :  
12.982 Km) Batugade - Boboraro  
Municipio

Anexo :

\* Bao + Desenho : 1

1NB : Soft Copy Anexo  
iha Doc. ho No Ref  
1191

Assuntos :

Pedido Pagamento

No.Tlf : -

Companhia : -

Despacho :

- Unidade de Gestão Administrativa
- Unidade de Avaliação de Projectos
- Unidade de Controlo e Validação de Qualidade
- Unidade de Estudos e Desenvolvimento de Competências

- Adjunto
- Assessor/a
- Gabinete DE / Base de Dadus
- Other

Data :

27/09/2024

Rui Lourenço da Costa  
Director Executivo ADN



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

J

## FORMULARIO DE DESPACHO

Data de Entrada Documentos : 26 - 09 - 2024

Data do Documentos : 26 - 09 - 24

Husi : MOP - UIVP

No. Ref: 1197 / UIVP - MOP / IX / 2024

Projecto : Rehabilitation of Batu Gede  
Road to Balibo Road (Length :  
12.982 Km) Batugade - Bobonaro  
Municipio

Quantidade Documentos : 1

Anexo :

\* Bao + Desenho : 1

NB : Soft Copy Anexo  
iba Doc. ho No Ref  
1191

Assuntos :

Pedido Pagamento

No.Tlf : -

Companhia : -

Despacho :

- Unidade de Gestão Administrativa
- Unidade de Avaliação de Projectos
- Unidade de Controlo e Validação de Qualidade
- Unidade de Estudos e Desenvolvimento de Competências

Verificar document iha  
Anexo

- Adjunto
- Assesor/a
- Gabinete DE / Base de Dadus
- Other

Data : 27/09/24

Rui Lourenço da Costa  
Director Executivo ADN



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## SUMMARY

PROJECT TITLE : Rehabilitation of Batugade Road Package II (sta. 8+000 - 12+980)

PROJECT LOCATION : Batugade Municipio Bobonaro

SECTION NO.	DESCRIPTION	VERIFIED BY OWNER AMOUNT (USD)	VERIFIED BY ADN, I.P. AMOUNT (USD)
100	GENERAL REQUIREMENTS	\$ 46.700,00	\$ 48.136,68
200	EARTHWORKS	\$ 219.762,56	\$ 243.925,06
300	SUB BASE AND BASE COURSE	\$ 726.036,16	\$ 728.453,60
400	SURFACE COURSE	\$ 1.162.852,66	\$ 902.634,41
500	BRIDGE CONSTRUCTION	\$ 422.584,19	\$ 417.288,09
600	DRAINAGE AND SLOPE PROTECTION STRUCTURES	\$ 1.382.361,39	\$ 1.287.373,61
700	MISCELLANEOUS STRUCTURES	\$ 19.662,33	\$ 43.032,11
A	CONSTRUCTION COST	\$ 3.979.959,29	\$ 3.670.843,56
B	PROFIT (A x 10%)	\$ 397.995,93	\$ 367.084,36
C	OVERHEAD	\$ 20.600,00	\$ 94.036,00
D	TAX 2% x (A + B + C)	\$ 87.971,10	\$ 82.639,28
E	GRAND TOTAL (A + B + C)	\$ 4.486.526,32	\$ 4.214.603,19

Verified by :

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

Checked By :

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

Certified By :

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



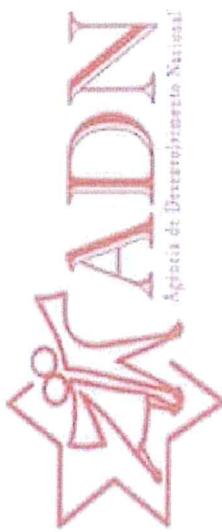
**AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.**

**BILL OF QUANTITY**

PROJECT TITLE : Rehabilitation of Batugade Road Package II (sta. 8+000 - 12+980)

PROJECT LOCATION : Batugade Municipio Bobonaro

PAY ITEM	ITEM DESCRIPTION	VERIFIED BY OWNER				VERIFIED BY ADN, I.P.		
		UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$	UNIT	QUANTITY	UNIT RATE US \$
<b>100 GENERAL REQUIREMENTS</b>								
102.1	Contractor's Mobilization	Ls	1.00	\$ 26.730,00	\$ 26.730,00	Ls	1,00	\$ 26.886,68
102.3	Contractor's Demobilization	Ls	1.00	\$ 14.970,00	\$ 14.970,00	Ls	1,00	\$ 16.250,00
103.3	Relocation of Public Utilities (Compensation for water line)	Ls	1.00	\$ 5.000,00	\$ 5.000,00	Ls	1,00	\$ 5.000,00
					<b>Sub Total 100</b>	<b>\$ 46.700,00</b>		<b>\$ 48.136,68</b>
<b>200 EARTHWORKS</b>								
201.1	Clearing and Grubbing	Hectare	1,00	\$ 576,57	\$ 576,57	Hectare	1,00	\$ 616,99
201.3	Individual Removal of Trees (Large)	Each	72,00	\$ 58,45	\$ 4.208,53	Each	72,00	\$ 68,91
201,4	Individual Removal of Trees (Small)	Each	89,00	\$ 15,77	\$ 1.403,65	Each	89,00	\$ 15,77
202,3	Removal and Disposal of Existing Asphalt Pavement	Sq.m	14.625,00	\$ 2,07	\$ 30.280,62	Sq.m	14.625,00	\$ 2,67
203,2	Rock Excavation	Cu.m	8046,40	\$ 11,11	\$ 89.359,59	Cu.m	8046,40	\$ 12,97
203,3	Structure Excavation	Cu.m	3566,40	\$ 3,11	\$ 11.092,24	Cu.m	3566,40	\$ 3,80
203,4	Unsuitable Excavation	Cu.m	18499,35	\$ 1,98	\$ 36.614,63	Cu.m	18499,35	\$ 1,93
205,4	Granular Fill Material	Cu.m	6436,44	\$ 3,48	\$ 22.394,68	Cu.m	6436,44	\$ 3,41
206,1	Subgrade Preparation (Common Material)	Sq.m	36144,00	\$ 0,66	\$ 23.832,05	Sq.m	36144,00	\$ 0,62
					<b>Sub Total 200</b>	<b>\$ 219.762,56</b>		<b>\$ 243.925,06</b>
<b>300 SUB BASE AND BASE COURSE</b>								
301	Aggregate Subbase Course	Cu.m	13101,90	\$ 20,34	\$ 266.472,09	Cu.m	13101,90	\$ 20,28
303	Crushed Aggregate Base Course, Grading A	Cu.m	6877,60	\$ 6,82	\$ 459.564,07	Cu.m	6877,60	\$ 67,28
					<b>Sub Total 300</b>	<b>\$ 726.036,16</b>		<b>\$ 728.453,60</b>
<b>400 SURFACE COURSE</b>								
402,1	Bituminous Prime Coat (MC-70, Cutback Asphalt)	Sq.m	36144,00	\$ 1,45	\$ 52.289,55	Sq.m	36144,00	\$ 1,50
411	Asphalt Concrete Binder Course (ACBC), 60mm thick	Sq.m	36144,00	\$ 30,73	\$ 1.110.563,11	Sq.m	36144,00	\$ 23,48
					<b>Sub Total 400</b>	<b>\$ 1.162.852,66</b>		<b>\$ 902.634,41</b>



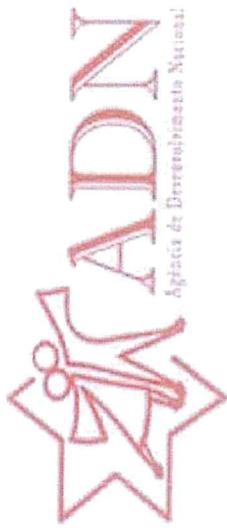
**AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.**

**BILL OF QUANTITY**

PROJECT TITLE : Rehabilitation of Batugade Road Package II (Sta. 8+000 - 12+980)

PROJECT LOCATION : Batugade Municipio Bobonaro

PAY ITEM	ITEM DESCRIPTION	VERIFIED BY OWNER				VERIFIED BY ADN, I.P.		
		UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$	UNIT	QUANTITY	UNIT RATE US \$
<b>500 BRIDGE CONSTRUCTION</b>								
502 Railing 3" diameter	Ln.m	432,00	\$ 22,38	\$ 9,667,73	Ln.m	432,00	\$ 22,38	\$ 9,667,73
505.2 Reinforcing Steel	Kg	87120,00	\$ 1,80	\$ 156,816,00	Kg	87120,00	\$ 1,80	\$ 156,816,00
506.1 Structural Concrete Class "A" (25 MPa)	Cum	792,00	\$ 206,39	\$ 163,464,33	Cu.m	792,00	\$ 207,39	\$ 164,250,16
506.6 Lean Concrete	Cum	728,46	\$ 126,09	\$ 91,850,22	Cu.m	728,46	\$ 117,74	\$ 85,768,29
512 Paint for Railing	Sq.m	190,76	\$ 4,12	\$ 785,91	Sq.m	190,76	\$ 4,12	\$ 785,91
		<b>Sub Total 500</b>		<b>\$ 422,584,19</b>				<b>\$ 417,288,09</b>
<b>600 DRAINAGE AND SLOPE PROTECTION STRUCTURES</b>								
601.4 RCP 1200mm diameter	Ln.m	130,00	\$ 373,06	\$ 48,498,30	Ln.m	130,00	\$ 449,89	\$ 58,486,28
603 Inlet & Outlet Structure	Each	12,00	\$ 248,04	\$ 2,976,49	Each	12,00	\$ 231,25	\$ 2,775,05
604.4 PVC 4" Dia.	Ln.m	800,00	\$ 4,80	\$ 3,842,00	Ln.m	800,00	\$ 4,80	\$ 3,842,00
606 Stone Masonry	Cum	17974,23	\$ 73,43	\$ 1,319,763,43	Cu.m	17974,23	\$ 67,60	\$ 1,214,98,25
610 Gabions	Cum	150,00	\$ 48,54	\$ 7,281,17	Cu.m	150,00	\$ 48,48	\$ 7,272,03
		<b>Sub Total 600</b>		<b>\$ 1,382,361,39</b>				<b>\$ 1,287,373,61</b>
<b>700 MISCELLANEOUS STRUCTURES</b>								
706.1 Warning Signs	Each	12,00	\$ 138,23	\$ 1,658,76	Each	9,00	\$ 138,23	\$ 1,244,07
706.2 Kilo Meter Post	Each	5,00	\$ 70,19	\$ 350,96	Each	7,00	\$ 70,19	\$ 491,34
706.3 Informatory Signs	Each	1,00	\$ 138,23	\$ 138,23	Each	1,00	\$ 138,23	\$ 138,23
707 Reflectonized Thermoplastic Pavement Markings	Sq.m	582,98	\$ 30,04	\$ 17,514,38	Sq.m	1370,00	\$ 30,04	\$ 41,158,47
		<b>Sub Total 700</b>		<b>\$ 19,662,33</b>				<b>\$ 43,032,11</b>
		<b>TOTAL</b>		<b>\$ 3,979,959,29</b>				<b>\$ 3,670,848,56</b>



**AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.**

PROJECT TITLE : Rehabilitation of Batugade Road Package II (sta. 8+000 - 12+980)  
 PROJECT LOCATION : Batugade Municipio Bobonaro

**OVERHEAD**

PAY ITEM	ITEM DESCRIPTION	VERIFIED BY OWNER				QUANTITY	UNIT RATE US \$	AMOUNT US \$	UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$
		UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$							
<b>I PROJECT TEAM</b>												
1 Project Manager						Ls	1,00	\$ 9.000,00	\$ 9.000,00			
2 Site Manager						Ls	1,00	\$ 12.000,00	\$ 12.000,00			
3 Quality Control						Ls	1,00	\$ 6.000,00	\$ 6.000,00			
3 Site Engineer		Ls	1,00	\$ 6.000,00	\$ 6.000,00	Ls	1,00	\$ 6.000,00	\$ 6.000,00			
4 Surveyor						Ls	1,00	\$ 5.000,00	\$ 5.000,00			
5 Logistics						Ls	1,00	\$ 3.000,00	\$ 3.000,00			
6 Administration						Ls	1,00	\$ 2.400,00	\$ 2.400,00			
7 Cleaning Staff						Ls	1,00	\$ 1.800,00	\$ 1.800,00			
8 Security		Ls	1,00	\$ 1.800,00	\$ 1.800,00	Ls	1,00	\$ 1.800,00	\$ 1.800,00			
<b>II OPERATIONAL COST</b>												
1 Stationary						Ls	1,00	\$ 600,00	\$ 600,00			
2 Communication						Ls	1,00	\$ 600,00	\$ 600,00			
3 Electricity						Ls	1,00	\$ 600,00	\$ 600,00			
4 Water						Ls	1,00	\$ 600,00	\$ 600,00			
5 Daily, weekly, monthly reports		Ls	1,00	\$ 300,00	\$ 300,00	Ls	1,00	\$ 480,00	\$ 480,00			
6 Shop drawings, as built drawings		Ls	1,00	\$ 1.000,00	\$ 1.000,00	Ls	1,00	\$ 480,00	\$ 480,00			
7 Traffic Management and Safety		Ls	1,00	\$ 1.500,00	\$ 1.500,00	Ls	1,00	\$ 1.500,00	\$ 1.500,00			
8 Material testing		Ls	1,00	\$ 10.000,00	\$ 10.000,00	Ls	1,00	\$ 40.176,00	\$ 40.176,00			
<b>III SOCIAL COST</b>												
1 Launch and Completion ceremony						Ls	1,00	\$ 2.000,00	\$ 2.000,00			
						TOTAL AMOUNT	\$ 20.600,00					\$ 94.036,00



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## SUMMARY

PROJECT TITLE : Rehabilitation of Batugade Road Package II (sta. 8+000 - 12+980)

PROJECT LOCATION : Batugade Municipio Bobonaro

SECTION NO.	DESCRIPTION	AMOUNT (USD)
100	GENERAL REQUIREMENTS	\$ -
200	EARTHWORKS	\$ -
300	SUB BASE AND BASE COURSE	\$ -
400	SURFACE COURSE	\$ -
500	BRIDGE CONSTRUCTION	\$ -
600	DRAINAGE AND SLOPE PROTECTION STRUCTURES	\$ -
700	MISCELLANEOUS STRUCTURES	\$ -
A	CONSTRUCTION COST	\$ -
B	PROFIT (A x 10%)	\$ -
C	OVERHEAD	\$ -
D	TAX 2% x (A + B + C)	\$ -
E	GRAND TOTAL (A + B + C)	\$ -



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## BILL OF QUANTITY

PROJECT TITLE : Rehabilitation of Batugade Road Package II (sta. 8+000 - 12+980)

PROJECT LOCATION : Batugade Municipio Bobonaro

PAY ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$
<b>100</b>	<b>GENERAL REQUIREMENTS</b>				
102,1	Contractor's Mobilization	Ls	1,00	\$ -	\$ -
102,3	Contractor's Demobilization	Ls	1,00	\$ -	\$ -
103,3	Relocation of Public Utilities (Compensation for water line)	LS	1,00	\$ -	\$ -
				<b>Sub Total 100</b>	<b>\$ -</b>
<b>200</b>	<b>EARTHWORKS</b>				
201,1	Clearing and Grubbing	Hectare	1,00	\$ -	\$ -
201,3	Individual Removal of Trees (Large)	Each	72,00	\$ -	\$ -
201,4	Individual Removal of Trees (Small)	Each	89,00	\$ -	\$ -
202,3	Removal and Disposal of Existing Asphalt Pavement	Sq.m	14625,00	\$ -	\$ -
203,2	Rock Excavation	Cu.m	8046,40	\$ -	\$ -
203,3	Structure Excavation	Cu.m	3566,40	\$ -	\$ -
203,4	Unsuitable Excavation	Cu.m	18499,35	\$ -	\$ -
205,4	Granular Fill Material	Cu.m	6436,44	\$ -	\$ -
206,1	Subgrade Preparation (Common Material)	Sq.m	36144,00	\$ -	\$ -
				<b>Sub Total 200</b>	<b>\$ -</b>
<b>300</b>	<b>SUB BASE AND BASE COURSE</b>				
301	Aggregate Subbase Course	Cu.m	13101,90	\$ -	\$ -
303	Crushed Aggregate Base Course, Grading A	Cu.m	6877,60	\$ -	\$ -
				<b>Sub Total 300</b>	<b>\$ -</b>
<b>400</b>	<b>SURFACE COURSE</b>				
402,1	Bituminous Prime Coat (MC-70, Cutback Asphalt)	Sq.m	36144,00	\$ -	\$ -
411	Asphalt Concrete Binder Course (ACBC), 60mm thick	Sq.m	36144,00	\$ -	\$ -
				<b>Sub Total 400</b>	<b>\$ -</b>
<b>500</b>	<b>BRIDGE CONSTRUCTION</b>				
502	Railing 3" diameter	Ln.m	432,00	\$ -	\$ -
505,2	Reinforcing Steel	Kg	87120,00	\$ -	\$ -
506,1	Structural Concrete Class "A" (25 MPa)	Cu.m	792,00	\$ -	\$ -
506,6	Lean Concrete	Cu.m	728,46	\$ -	\$ -
512	Paint for Railing	Sq.m	190,76	\$ -	\$ -
				<b>Sub Total 500</b>	<b>\$ -</b>
<b>600</b>	<b>DRAINAGE AND SLOPE PROTECTION STRUCTURES</b>				
601,4	RCPC 1200mm diameter	Ln.m	130,00	\$ -	\$ -
603	Inlet & Outlet Structure	Each	12,00	\$ -	\$ -
604,4	PVC 4" Dia.	Ln.m	800,00	\$ -	\$ -
606	Stone Masonry	Cu.m	17974,23	\$ -	\$ -
610	Gabions	Cu.m	150,00	\$ -	\$ -
				<b>Sub Total 600</b>	<b>\$ -</b>
<b>700</b>	<b>MISCELLANEOUS STRUCTURES</b>				
706,1	Warning Signs	Each	9,00	\$ -	\$ -
706,2	Kilo Meter Post	Each	7,00	\$ -	\$ -
706,3	Informatory Signs	Each	1,00	\$ -	\$ -
707	Reflectorized Thermoplastic Pavement Markings	Sq.m	1370,00	\$ -	\$ -
				<b>Sub Total 700</b>	<b>\$ -</b>
				<b>TOTAL</b>	<b>\$ -</b>



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## OVERHEAD

PROJECT TITLE : Rehabilitation of Batugade Road Package II (sta. 8+000 - 12+980)

PROJECT LOCATION : Batugade Municipio Bobonaro

PAY ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT RATE US \$	AMOUNT US \$
I	<b>PROJECT TEAM</b>				
1	Project Manager	Ls	1,00	\$ -	\$ -
2	Site Manager	Ls	1,00	\$ -	\$ -
3	Quality Control	Ls	1,00	\$ -	\$ -
3	Site Engineer	Ls	1,00	\$ -	\$ -
4	Surveyor	Ls	1,00	\$ -	\$ -
5	Logistics	Ls	1,00	\$ -	\$ -
6	Administration	Ls	1,00	\$ -	\$ -
7	Cleaning Staff	Ls	1,00	\$ -	\$ -
8	Security	Ls	1,00	\$ -	\$ -
II	<b>OPERATIONAL COST</b>				
1	Stationary	Ls	1,00	\$ -	\$ -
2	Communication	Ls	1,00	\$ -	\$ -
3	Electricity	Ls	1,00	\$ -	\$ -
4	Water	Ls	1,00	\$ -	\$ -
5	Daily, weekly, monthly reports	Ls	1,00	\$ -	\$ -
6	Shop drawings, as built drawings	Ls	1,00	\$ -	\$ -
7	Traffic Management and Safety	Ls	1,00	\$ -	\$ -
8	Material testing	Ls	1,00	\$ -	\$ -
III	<b>SOCIAL COST</b>				
1	Launch and Completion ceremony	Ls	1,00	\$ -	\$ -
				<b>TOTAL</b>	<b>\$ -</b>



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

CHECK LIST DOKUMENTOS BA VERIFIKASAUN

PROJECTO NAIN / KOMPANHIA *Rehabilitation of Batu Gede Road to  
Balibo Road (Length 12.982 km)  
Batugade - Bobonaro Municipality*

No	DOKUMENTOS NIA NARAN	
1.	Karta Akompanhamento Husi Projecto Nain	✓
2.	Fundo Husi : (LM...FI...PDIM)	
	A. Kapital de Desenvolvimento	
	B. Bens de Servico	
	C. Transferencia Public	
	D. Other : <i>Emergencia</i>	✓
3.	Alokasaun Orsamento ba Sa Tinan	✓
4.	TOR ou Justifikasau kona ba projetu ne'be atu implementa.	
5.	Titik Koordinat husi Projecto neébe atu implementa	
6.	Desenhu tenke iha HVS Medida A3 no hetan Aprovasaun husi Projetu Nain no Ministerio (MOP)	✓
7.	Cost Estimasaun ho BOQ Tenke Hetan Aprovasaun Husi Projectu Nain ou Ministerio (MOP)	✓
8.	Unit Price Analisis	✓
9.	Backup Quantidade	✓
10.	Spesifikasi saun Teknik	
11.	Soft Copy (BOQ iha Excel) no (Desenho iha Auto Cad) /USB <i>Prioxo iha Doc. Ref 1191</i>	✓
12.	Desenhu tenke Aneksu Mapa Quarry no hetan Aprovasaun husi Projetu Nain	✓