



DELIBERASAUN N. 37/III/CAFI/2025

Conselho de Administração do Fundo das Infraestruturas – CAFI, bazeia ba artigo 10º (1) e (3) DL Nº. 25/2024, de 22 de maio, Primeira Alteração ao DL Nº.13/2016, 18 de Maio, realiza reuniaun ordinária iha loron Sexta-feira, 28 de Março de 2025, e halo deliberaun ba assunto tuir mai ne’e:

Asuntu: Pedidu aprovisaun no autorizasaun despezas no konfirma finansiamentu iha FI 2025 ba Projetu:

1. *New Construction of Esquadra Posto Lore, Municipality Lautem;*
2. *New Construction of Esquadra Posto Hatulia B, Municipality Ermera;*
3. *New Construction of Esquadra Posto Laclo, Municipality Manatuto.*

Proponente: Ministério do Interior – MI;

Notas/justifikasiun:

- SGP simu karta husi Ministério do Interior ho no. Ref.: 225/DNA-DGAF/MI/III/2025, data 27 de Março de 2025, ho asuntu: Agenda CAFI
- Bazeia ba assuntu iha leten, husi Diresaun Nasional Aprovisionamento Ministerio do Interior hato’o ba Ex^{mo} Secretariado Grandes Projeto (SGP) hodi Agenda CAFI ba projeto MI ne’ebi maka orçamentada iha fundus Infraestrutura (FI) no projeto ne’ebi hetan ona verifikasiun ADN, I.P.;
- SGP simu karta husi Ministério do Interior ho no. Ref.: 224/DNA-DGAF/MI/III/2025, data 27 de Março de 2025, ho asuntu: hato’o Justifikasiun tekniku no legal ba projetu New Construction of Esquadra Posto Lore, Municipality Lautem; New Construction of Esquadra Posto Hatulia B, Municipality Ermera; New Construction of Esquadra Posto Laclo, Municipality Manatuto;
- Desizaun kona ba abertura ka inisiasiun prosesu aprovisionamentu bazeia, Artigo 24 & 25, Decreto Lei No.43/2024, de 20 de Dezembro, regra ezekusaun OGE 2025;
- Bazeia ba Artigo 21, DL No.13/2016, de 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 bazeia ba kustu projetu no sei lao tuir Decreto-Lei No.22/2022 de 11 de Maio;
- Dono do projetu sei assume responsabilidade hodi assegura orsamentu/
ba Ezekusan no Implementasaun projetu;

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- Projeto nain sei assume responsabilidade ba koordenasaun entre entidade relevantes ba implementasaun projeto ne'e, e ba supervizaun, monitorizasaun e akompanhamentu ba projeto ne'e iha faze implementasaun, e sei garante kualidade servisu nian tuir espesifikasiasaun ne'ebe aprova ona;
- Lista proposta:

No.	Naran projeto	Kustu estimativa ADN, I.P. / Referensia proposta	Alokasaun FI 2025 no Kodigo atividade
1	New Construction of Esquadra Posto Lore, Municipality Lautem	\$695,449.08 No.ref.: 0403/ADN, I.P./III/2025, data 19 de março de 2025	FI 2025: \$ 0 Kodigu Atividade: 366131U
2	New Construction of Esquadra Posto Hatulia B, Municipality Ermera	\$655,473.04	FI 2025: \$ 0 Kodigu Atividade: 366131V
3	New Construction of Esquadra Posto Laclo, Municipality Manatuto	\$634,293.97 No.ref.: 0403/ADN, I.P./III/2025, data 19 de março de 2025	FI 2025: \$ 0 Kodigu Atividade: 366131T

Rekomendasaun:

- 1) CAFI atu aprova no autoriza despezas no kustu total nune'e mos konfirma finansiamentu iha FI 2025 bazeia ba pedidu husi Ministério Interior ba projetu:
 1. *New Construction of Esquadra Posto Lore, Municipality Lautem, ne'ebe hetan ona Verifikasiasaun husi ADN, I.P. ho montante verifikadu \$695,449.08;*
 2. *New Construction of Esquadra Posto Hatulia B, Municipality Ermera, ne'ebe hetan ona Verifikasiasaun husi ADN, I.P. ho montante verifikadu \$655,473.04;*
 3. *New Construction of Esquadra Posto Laclo, Municipality Manatuto, ne'ebe hetan ona Verifikasiasaun husi ADN, I.P. ho montante verifikadu \$634,293.97.*
- 2) 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;
- 3) Bazeia ba Artigo 21, DL No.13/2016, de 18 de maio, kona ba Regulamentu Fundo da Infraestrutura, determina katak aprovisionamento projeto FI nian sei lao tuir Regime Juridiku Aprovizionamento em vigor. Modalidade aprovisionamento bazeia ba kustu projeto no sei lao tuir Decreto-Lei No.22/2022 de 11 de Maio;
- 4) Decreto-Lei No.22/2022 de 11 de Maio, o regime jurídico do aprovisionamento, dos contratos públicos e das respectivas infracções; artigo 42º Regras Espesiais, desizaun kona ba modalidade aprovisionamento determina bazeia ba kustu projeto no justifikasiada tekniku no legal husi MI hanesan entidade adjudikante;
- 5) Dono do projeto sei assume responsabilidade hodi assegura orsamentu ba/ Ezekusan no Implementasaun projeto;

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- 6) Projetu nain sei assume 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 nian tuir espesifikasi saun ne'ebe aprova ona;

Desizaun:

1. CAFI aprova no autoriza despezas no kustu total nune'e mos konfirma finansiamentu iha FI 2025 bazeia ba pedidu husi Ministério Interior nudar projetu nain;
2. 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;
3. Bazeia ba Artigo 21, DL No.13/2016, de 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 bazeia ba kustu projetu no sei lao tuir Decreto-Lei No.22/2022 de 11 de Maio;
4. Decreto-Lei No.22/2022 de 11 de Maio, o regime jurídico do aprovisionamento, dos contratos públicos e das respectivas infracções; artigo 42º Regras Espesiais, desizaun kona ba modalidade aprovisionamento determina bazeia ba kustu projetu no justifikasi tekniku no legal husi MI hanesan entidade adjudikante;
5. Dono do projetu sei assume responsabilidade hodi assegura orsamentu ba Ezekusan no Implementasaun projetu;
6. Projetu nain sei assume 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 nian tuir espesifikasi saun ne'ebe aprova ona;
7. Lista Aprovasaun:

Naran projetu	Kustu estimativa ADN, I.P. / Referensia proposta	Alokasaun FI 2025 no Kodigo atividade	Orgaun Kompetenti Autoriza despezas – DL no. 23/2022, 19 de maio
New Construction of Esquadra Posto Lore, Municipality Lautem	\$695,449.08 No.ref.: 0403/ADN, I.P./III/2025, data 19 de março de 2025	FI 2025: \$ 0 Kodigu Atividade: 366131U	CAFI : Konfirmasaun Finansiamentu CAFI: alinea 1 (b) Artigo Artigo 5.º Competência para a autorização da despesa.
New Construction of Esquadra Posto Hatulia B, Municipality Ermera	\$655,473.04	FI 2025: \$ 0 Kodigu Atividade: 366131V	CAFI : Konfirmasaun Finansiamentu

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Naran projetu	Kustu estimativa ADN, I.P. / Referensia proposta	Alokasaun FI 2025 no Kodigo atividade	Orgaun Kompetenti Autoriza despezas – DL no. 23/2022, 19 de maio
			CAFI: alinea 1 (b) Artigo Artigo 5.º Competência para a autorização da despesa.
New Construction of Esquadra Posto Laclo, Municipality Manatuto	\$634,293.97 No.ref.: 0403/ADN, I.P./III/2025, data 19 de março de 2025	FI 2025: \$ 0 Kodigu Atividade: 366131T	CAFI : Konfirmasaun Finansiammentu CAFI: alinea 1 (b) Artigo Artigo 5.º Competência para a autorização da despesa. <i>N</i> <i>J.</i> <i>Smc</i> <i>R</i>



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



Conselho de
Administração

Aprovado husi CAFI iha loron 28 de marsu de 2025.

O Conselho de Administração do Fundo das Infraestruturas

O presidente,



Gastão Francisco de Sousa

Ministro do Planeamento e Investimento Estratégico



Santina José Rodrigues Ferreira Viegas Cardoso

Ministra das Finanças



Miguel Marques Gonçalves Manetelu

Ministro dos Transportes e Comunicações



Samuel Marçal

Ministro das Obras Públicas

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Annexo:

① ② ③



MINISTÉRIO DO INTERIOR
DIREÇÃO-GERAL DE ADMINISTRAÇÃO E FINANÇAS
DIREÇÃO NACIONAL DE APROVISIONAMENTO



Data/ Date:
27 fulan Marsu tinan 2025

Nú, Oficio:224 /DNA-DGAF/MI/III/2025

Para/ To :
Ex^{mo}. Dirétor Secretariado dos Grandes Projectos (SGP)
Sr.Mauricio Borges

Assunto : Hato'o Justifikasiun Tekniko

(New Construction of Esquadra Posto Lore, Municipality Lautem no New Construction of Esquadra Posto Hatulia B, Municipality Ermera) New Construction of Esquadra Posto Laclo, Municipality Manatuto

Ho Respeito,

Baseia ba assunto iha leten, Diretor DNA-MI hakarak relata ba ex^{mo}.Dirétor Secretariado dos Grandes Projectos (SGP) kona ba Justifikasiun Tekniko ba Projeto, New Construction of Esquadra Posto Lore, Municipality Lautem, New Construction of Esquadra Posto Hatulia B, Municipality Ermera New Construction of Esquadra Posto Laclo, Municipality Manatuto hetan ona verifikasiun Final husi ADN ho Total Orsamento ba kada Projectos ho montante maka hanesan tuir mai :

1. New Construction of Esquadra Posto Lore, Municipality Lautem ho Orsamento \$.695,449.08
Dollar Americano (Resultadu Verifikasiun ADN)
2. New Construction of Esquadra Posto Hatulia B, Municipality Ermera ho Orsamento \$.655,472,04
Dollar Americano (Resultadu Verifikasiun ADN)
3. New Construction of Esquadra Posto Laclo, Municipality Manatuto ho Orsamento \$.634,293.97
Dollar Americano (Resultadu Verifikasiun ADN)

I. Informasaun Jerál

New Construction of Esquadra Posto Lore, Municipality Lautem no New Construction of Esquadra Posto Hatulia B, Municipality Ermera New Construction of Esquadra Posto Laclo, Municipality Manatuto, importante tanba envolve objetivu prinsipál balun.

Primeiru, konstrusaun Postu Esquadra Administrativo ho objetivu atu dezenvolve infraestrutura konstrusaun Postu Squadra PNTL nian hodi bele kria kondisoens ne'ebe digno ba utilizadores sira hanesan PNTL ho nune bele asegura estabildade no kontrolu ba movimentu ema iha nasau Timor-Leste nian ho infraestrutura ne'ebé adekuadu, governu bele optimiza monitorizaun ba ameasa seguransa potensiál sira no krimen sira ne'ebé akontese iha Posto.

Segundu, konstrusaun Esquadra sira mós ho objetivu atu hadi'a servisu no facilidade sira ba utilizadór servisu, nian iha komunidade lokál sira, Ho infraestrutura modernu no confortavel.

A. Justifikasi Teknika :

New Construction Esquadra Posto

1. Titulo Projetu : New Construction of Esquadra Posto Lore, Municipality Lautem

Kategoria : Projetu Foun

Tinan Civil : 2025

Total osan Verifikadu BoQ : \$.695,449.08 (Resultadu Verifikasi ADN)

2. Titulo Projetu : New Construction of Esquadra Posto Hatulia B, Municipality Ermera

Kategoria : Projetu Foun

Tinan Civil : 2025

Total osan Verifikadu BoQ : \$.655.472,04 (Resultadu Verifikasi ADN)

3. Titulo Projetu : New Construction of Esquadra Posto Laclo, Municipality Manatuto

Kategoria : Projetu Foun

Tinan Civil : 2025

Total osan Verifikadu BoQ : \$.634,293.97 (Resultadu Verifikasi ADN)

B. Justifikasi Legal :

1) Konformidade legal ba Novo Konstrusaun Prosesu lisensiamentu no aprovisaun hotu-hotu hala'o ona tuij provizaun legál aplikavel sira hanesan Deseñu no Estimasaun Presu hetan ona verifikasi Final husi ADN

a) Solisitasaun Kuotasaun Artigo 35°

prosedimentu aprovisionamentu solisitasaun kotasaun husi artigo 35 Rejime Juridiku Aprovisionamentu

- Razaun utilizasaun prosedimentu aprovisionamentu ba **Solisitasaun Kuotasaun**

Hanesan mensiona iha Artigu 35⁰ kona ba Solisitasaun Kuotasaun Ministeriu Interior propoin atu uza Solisitasaun Kuotasaun, nu'udar prosedimentu aprovisionamentu ba projetu Infraestrutura iha Posto Administrativo ho nia razaun prinsipál mak hanesan tuij mai ne'e :

(1) Uza Prosedementu Solisitasaun Kuotasaun sei permite atu hetan proposta ida husi kontraktor ne'ebé konsidera projetu postu Administrativo ho nia nesesidade úniku sira.

(2) Prosedementu Solisitasaun Kuotasaun permite atu hili kontraktor ne'ebé iha vizaun no solusaun ne'ebé di'ak liu atu responde ba nesesidade agencia ho lalaís.

II. Recomendasaun ba CAFI

Ministerio Interior propoin ba CAFI hodi konsidera no aprova ba proposta :

- 1) Autorizaun despeza ba Projetu Infraestrutura iha Posto Administrativo ho kuantidade 3 postu ne'ebé nia Deseñu no BoQ hetan ona verifikasi saun Final husi ADN
- 2) Utilizasaun ba prosedimentu aprovisionamentu halao iha CNA ho modalidade **Solisitasau Kuotasaun** baseia ba artigu 35º tuir Decretu-Lei No.22 tinan 2022 de 11 de Maio 2022 kona ba Rezime Juridico do Aprovisionamento, dos Contratos Publicos a das Respetivas infraçõens.

Mak ne'e deit ami nia justifikasi saun têcnico no legal nebe ami relata ba exmo.Director Dirétor Secretariado dos Grandes Projectos (SGP) e lahaluhan hato'o Melhores Comprimentos.





AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

Dili, 19 de Março de 2025

Ref : 0403 /ADN, I.P./III/2025

Hato'ba : Sr. Joao da Cruz, SE. M.Si
Diretor DNA - MdI

Assunto : Rezultado Verifikasiasaun – New Construction of Esquadra Tipe C ok

Ho Respeito,

Bazeia ba karta pedido verifikasiasaun ho no ref. 1088/DNA-DGAF/MI/XII/2024 ho data 26 de Dezembro de 2024, ba asuntu ne'ebe mensiona iha leten, ekipa verifikasiasaun Unidade Avaliação dos Projetos – UAP ADN, I.P. hala'o ona verifikasiasaun ba dokumentos refere. Ho nune bele hare rezultado verifikasiasaun iha (*aneksu*). Hanesan tuir mai:

1. New Construction of Esquadra Posto Laclo, Municipality Manatuto
2. New Construction of Esquadra Posto Lore, Municipality Lautem

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, Fatuha
Dili – Timor-Leste
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+670 3310 289



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

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SUMMARY

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)
 PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

OWNER COST ESTIMATED			RESULT, ADN, I.P.
NO	DESCRIPTION OF WORKS	AMOUNT (\$)	AMOUNT (\$)
I	PREPARATION WORKS	\$ 33,725.45	\$ 29,181.54
II	MAIN BUILDING		
	- ARCHITECTURAL WORK	\$ 166,814.90	\$ 107,789.41
	- STRUCTURAL WORK	\$ 154,812.07	\$ 189,997.36
	- PLUMBING WORK	\$ 20,284.20	\$ 23,777.91
	- ELECTRICAL WORK	\$ 54,900.27	\$ 53,934.07
	- AIR CONDITIONING (AC) WORK	\$ 5,938.37	\$ 6,969.88
	- CCTV WORK	\$ 4,257.51	\$ 3,802.27
	- FIRE ALARM WORK	\$ 3,692.61	\$ 3,692.61
	- FIRE PROTECTION WORK	\$ 225.00	\$ 225.00
	- SOUND SYSTEM WORK	\$ 3,589.32	\$ 4,187.99
	- LIGHTNING PROTECTION WORK	\$ 2,508.55	\$ 2,470.55
	- TELEPHONE WORK	\$ 23,467.40	\$ 2,382.89
	- LAN/DATA WORK	\$ 2,189.86	\$ 3,633.89
III	LANDSCAPE WORK	\$ 127,718.72	\$ 125,692.80
A	TOTAL CONSTRUCTION COST	\$ 604,124.23	\$ 557,738.18
B	CONTRACTOR FEE (10% x A)	\$ 60,412.42	\$ 55,773.82
C	OVERHEAD	\$ 22,500.00	\$ 12,527.00
D	CONTINGENCY (10 % * A)		\$ 55,773.82
E	TAX (2% x (A+B+C+D))	\$ 13,740.73	\$ 13,636.26
F	CONTINGENCY (10 % * A)	\$ 60,412.42	
G	TOTAL (A+B+C+D+E+F)	\$ 761,189.81	\$ 695,449.08

Verified By :

Eng. Bosco Dinis da Silva
Civil Engineering UAP - ADN, I.P.

Eng. Olivio Marcos da S. Correia
Electrical Engineering UAP - ADN, I.P.

Eng. Joaquim D. Pereira
National Adviser UAP - ADN, I.P.

Eng. Elvis Ferreira Soares
. ICT Engineer UAP - ADN, I.P.

Checked By :

Eng. Johanes Hornay
Senior Engineer AP EPMEITCM. UAP -
ADN.IP

Certified By :

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



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM
(LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

NO	DESCRIPTION OF WORKS	OVERHEAD				RESULT, ADN, I.P			
		UNIT	VOLUME	UNIT PRICE (\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (\$)	AMOUNT (\$)
1	Site Enginnering	month	12.00	\$ 1,000.00	\$ 12,000.00	month	12.00	\$ 500.00	\$ 6,000.00
2	Safety equipment and first AID equipment	unit	2.00	\$ 500.00	\$ 1,000.00	unit	1.00	\$ 500.00	\$ 500.00
3	Material sampling and testing	sheet	5.00	\$ 1,000.00	\$ 5,000.00	ls	1.00	\$ 1,827.00	\$ 1,827.00
4	Project report and documentation	month	12.00	\$ 50.00	\$ 600.00	ls	1.00	\$ 300.00	\$ 300.00
5	Contractor site security 2 Person	month	12.00	\$ 300.00	\$ 3,600.00	month	12.00	\$ 300.00	\$ 3,600.00
6	As build drawing	sheet	1.00	\$ 300.00	\$ 300.00	sheet	1.00	\$ 300.00	\$ 300.00
TOTAL					\$ 22,500.00				\$ 12,527.00



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

OWNER COST ESTIMATED						RESULT, ADN, I.P.			
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
A GENERAL WORKS									
1	Mobilization and Demobilization	Ls	1.00	\$ 4,000.00	\$ 4,000.00	Ls	1.00	\$ 2,000.00	\$ 2,000.00
2	Site Cleaning and Leveling	m2	1500.00	\$ 1.40	\$ 2,100.00	m2	1500.00	\$ 1.40	\$ 2,100.00
3	Site office and storage	m2	48.00	\$ 50.00	\$ 2,400.00	m2	48.00	\$ 25.00	\$ 1,200.00
4	Mess for labour	m2	48.00	\$ 50.00	\$ 2,400.00	m2	48.00	\$ 25.00	\$ 1,200.00
5	Temporary fence	m'	160.00	\$ 13.72	\$ 2,195.20	m'	160.00	\$ 14.07	\$ 2,251.20
6	Water and electrical supply for works	Ls	1.00	\$ 2,000.00	\$ 2,000.00	Ls	1.00	\$ 1,800.00	\$ 1,800.00
7	Information Board project	unit	1.00	\$ 90.25	\$ 90.25	unit	1.00	\$ 90.34	\$ 90.34
	Sub Total				\$ 15,185.45				\$ 10,641.54
B SOIL STABILIZATION WORK									
1	Selected material filling and compaction using mechanical equ	m3	1500.00	\$ 12.36	\$ 18,540.00	m3	1500.00	\$ 12.36	\$ 18,540.00
	Sub Total				\$ 18,540.00				\$ 18,540.00
	GRAND TOTAL				\$ 33,725.45				\$ 29,181.54



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

BILL OF QUANTITY									
OWNER-COST ESTIMATED							RESULT, ADN, I.P.		
ARCHITECTURAL									
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
C	EARTH WORK								
1	Excavation for ordinary foundation	m3	114.54	\$ 5.91	\$ 676.96	m3	114.54	\$ 5.91	\$ 676.96
2	Foundation back filling	m3	171.82	\$ 1.70	\$ 292.09	m3	171.82	\$ 1.70	\$ 292.09
3	Sand filling under foundation and tie beam50 mm	m3	4.46	\$ 11.99	\$ 53.48	m3	4.46	\$ 11.99	\$ 53.48
4	Sand filling under floor 50mm	m3	19.20	\$ 11.99	\$ 230.21	m3	19.20	\$ 11.99	\$ 230.21
5	Soil fill for levelling floor 150mm	m3	57.60	\$ 11.73	\$ 675.65	m3	57.60	\$ 8.29	\$ 477.50
	Sub Total				\$ 1,928.37				\$ 1,730.23
A	WALL MASONRY AND RENDER WORK								
1	Stone masonry work (1 cement : 4 sand)	m3	3.19	\$ 103.58	\$ 330.01	m3	3.19	\$ 112.82	\$ 359.44
2	Ordinary block wall masonry 40x20x10 cm (1 cement : 5 sand) for 1st floor	m2	883.51	\$ 14.92	\$ 13,181.89	m2	883.51	\$ 16.92	\$ 14,948.90
3	Ordinary wall plaster (1 cement : 5 sand) for 1st floor	m2	1767.01	\$ 5.77	\$ 10,195.65	m2	1767.01	\$ 6.40	\$ 11,308.86
4	Cement render for /Acian	m2	1767.01	\$ 3.27	\$ 5,778.12	m2	1767.01	\$ 3.32	\$ 5,866.47
5	interior wall furniture for sala resepsaun and sala encontro	ls	1.00	\$ 7,000.00	\$ 7,000.00				
meza 2.5 x 1.1 x 1.5						unit	1.00	\$ 1,511.45	\$ 1,511.45
MEZA 2.5X1.5						unit	1.00	\$ 1,187.18	\$ 1,187.18
kadeira roda/metan						unit	12.00	\$ 89.00	\$ 1,068.00
kadelra besi/azul						unit	100.00	\$ 28.00	\$ 2,800.00
transportation for furniture						ls	1.00	\$ 313.21	\$ 313.21
7	granite wall : 60x60 cm for Toilet	m2	94.40	\$ 142.56	\$ 13,457.66	m2	94.40	\$ 32.74	\$ 3,090.66
8	Pantry granite wall : 60x60 cm	m2	2.40	\$ 142.56	\$ 342.14	m2	2.40	\$ 32.74	\$ 78.58
9	Granite wall external : 60x60 cm	m2	63.75	\$ 142.56	\$ 9,088.20	m2	63.75	\$ 32.74	\$ 2,087.18
10	Natural stone wall 30x15 cm	m2	24.00	\$ 65.09	\$ 1,562.16	m2	24.00	\$ 72.50	\$ 1,740.00
11	Stair hand railing	kg	179.11	\$ 2.15	\$ 385.08	kg	179.11	\$ 2.44	\$ 437.02
12	Department logo with copper text and accessories	unit	3.00	\$ 500.00	\$ 1,500.00	unit	3.00	\$ 180.00	\$ 540.00
13	Concrete ornament for listplank	m1	94.00	\$ 57.74	\$ 5,427.56	m1	94.00	\$ 57.74	\$ 5,427.56
	Sub Total				\$ 68,248.48				\$ 52,764.51
B	FLOOR WORK								
1	granite Tile : 60x60 cm G1.G2.G3	m2	342.61	\$ 142.56	\$ 48,842.48	m2	342.61	\$ 32.74	\$ 11,217.05
2	Bathroom floor ceramic : 40x40 cm G4	m2	37.75	\$ 48.75	\$ 1,840.31	m2	37.75	\$ 26.87	\$ 1,014.34
4	Pantry ceramic table : 30x30 cm	m2	2.40	\$ 20.44	\$ 49.06	m2	2.40	\$ 25.95	\$ 62.28
5	Ceramic plint : 10x60 cm	m1	312.25	\$ 12.97	\$ 4,049.88	m1	312.25	\$ 3.87	\$ 1,208.41
6	Water proofing for floor plate	m2	328.00	\$ 8.00	\$ 2,624.00	m2	328.00	\$ 8.77	\$ 2,875.58
	Sub Total				\$ 57,405.73				\$ 16,377.66
B	CEILING WORK								
1	Ceiling frame hollow 40/40mm	m2	366.00	\$ 14.31	\$ 5,237.46	m2	366.00	\$ 14.16	\$ 5,182.56
2	Ceiling gypsum 9mm	m2	328.25	\$ 12.38	\$ 4,063.74	m2	328.25	\$ 12.69	\$ 4,165.49
3	Ceiling PVC	m2	37.75	\$ 10.00	\$ 377.50	m2	37.75	\$ 14.03	\$ 529.63
4	Supply and install ceiling cornice profile ceiling gypsum	m1	337.05	\$ 3.92	\$ 1,321.24	m1	337.05	\$ 3.94	\$ 1,327.98
	Sub Total				\$ 10,999.93				\$ 11,205.66
C	DOOR, WINDOW AND VENTILATION WORK (Material Brown Alumunium)								
1	Door type D-1, including all accessories	unit	1.00	\$ 800.00	\$ 800.00	unit	1.00	\$ 525.00	\$ 525.00
2	Door type D-2, including all accessories	unit	2.00	\$ 500.00	\$ 1,000.00	unit	2.00	\$ 485.00	\$ 970.00
3	Door type D-3, including all accessories	unit	1.00	\$ 300.00	\$ 300.00	unit	1.00	\$ 250.00	\$ 250.00
4	Door type D-4, including all accessories	unit	2.00	\$ 300.00	\$ 600.00	unit	2.00	\$ 250.00	\$ 500.00
5	Door type D-5, including all accessories	unit	3.00	\$ 225.00	\$ 675.00	unit	3.00	\$ 250.00	\$ 750.00
6	Door type D-6, including all accessories	unit	1.00	\$ 225.00	\$ 225.00	unit	1.00	\$ 250.00	\$ 250.00
7	Door type D-7, including all accessories	unit	5.00	\$ 275.00	\$ 1,375.00	unit	5.00	\$ 250.00	\$ 1,250.00



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

BILL OF QUANTITY

OWNER COST ESTIMATED					RESULT, ADN, I.P.			
ARCHITECTURAL								
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)
8	Door type D-8, including all accessories	unit	4.00	\$ 275.00	\$ 1,100.00	unit	4.00	\$ 250.00
9	Door type D-9, including all accessories	unit	1.00	\$ 250.00	\$ 250.00	unit	1.00	\$ 230.00
10	Door type D-10, including all accessories	unit	6.00	\$ 200.00	\$ 1,200.00	unit	6.00	\$ 230.00
12	Door type D-11, including all accessories	unit	8.00	\$ 200.00	\$ 1,600.00	unit	8.00	\$ 200.00
13	Door type DW-1, including all accessories	unit	1.00	\$ 1,500.00	\$ 1,500.00	unit	1.00	\$ 678.00
14	Door type DW-2, including all accessories (Material Square Hollow Steel)	unit	1.00	\$ 800.00	\$ 800.00	unit	1.00	\$ 800.00
15	Door type DW-3, including all accessories (Material Square Hollow Steel)	unit	1.00	\$ 800.00	\$ 800.00	unit	1.00	\$ 800.00
16	Window type W-1, including all accessories	unit	4.00	\$ 175.00	\$ 700.00	unit	4.00	\$ 117.50
17	Window type W-2, including all accessories for	unit	2.00	\$ 250.00	\$ 500.00	unit	2.00	\$ 145.00
18	Window type W-3, including all accessories	unit	4.00	\$ 250.00	\$ 1,000.00	unit	4.00	\$ 154.00
19	Window type W-4, including all accessories	unit	2.00	\$ 275.00	\$ 550.00	unit	2.00	\$ 138.85
20	Window type W-5, including all accessories	unit	2.00	\$ 450.00	\$ 900.00	unit	2.00	\$ 295.00
21	Ventilation type BV-1, including all accessories	unit	3.00	\$ 125.00	\$ 375.00	unit	3.00	\$ 75.00
22	Ventilation type BV-2, including all accessories (Material Square Hollow Steel)	unit	4.00	\$ 50.00	\$ 200.00	unit	4.00	\$ 50.00
23	Ventilation type BV-3, including all accessories (Material Square Hollow Steel)	unit	4.00	\$ 75.00	\$ 300.00	unit	4.00	\$ 75.00
Sub Total					\$ 16,750.00			\$ 13,951.70
D ROOF AND CEILING WORK								
1	Roof zincalum colorbond 0.42 austarlan standard	m2	132.62	\$ 20.02	\$ 2,655.01	m2	132.62	\$ 20.26
2	Colourbond custom orb" 0.42 mm rooftop capping standard	m1	24.00	\$ 15.52	\$ 372.48	m1	24.00	\$ 15.47
3	Gutter roof Colourbond 0.42 mm include frame standard	m1	38.00	\$ 14.62	\$ 555.56	m1	38.00	\$ 14.62
4	Supply and install Lisplank GRC Board 200(x2)x10mm	m1	38.00	\$ 15.52	\$ 589.76	m1	38.00	\$ 15.47
Sub Total					\$ 4,172.81			\$ 4,201.54
E PAINT WORK								
1	Interior wall painting	m2	1447.01	\$ 3.46	\$ 5,006.65	m2	1447.01	\$ 3.60
2	Exterior wall painting with weather bond type painting	m2	320.00	\$ 3.75	\$ 1,200.00	m2	320.00	\$ 3.75
3	Ceiling painting	m2	328.25	\$ 3.36	\$ 1,029.22	m2	328.25	\$ 3.50
Sub Total					\$ 7,309.57			\$ 7,558.11
TOTAL ARCHITECTURAL WORK					\$ 166,814.90			\$ 107,789.41
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)
STRUCTURAL								
A	CONCRETE WORKS							
1	Foundation Sub Structure							
2	Lean Concrete , t = 10 cm - K125	m3	\$ 4.05	\$ 148.11	\$ 600.31	m3	4.05	\$ 227.37
3	Concrete foot plate 01, (800x800x250mm)							
	Concrete K 275	m3	\$ 6.56	\$ 166.72	\$ 1,093.68	m3	6.56	\$ 235.18
	Reinforced	kg	\$ 972.19	\$ 1.59	\$ 1,549.67	kg	972.19	\$ 1.87
	Formwork	m2	\$ 32.80	\$ 19.57	\$ 641.90	m2	32.80	\$ 19.57
	Concrete foot plate 02, (600x600x250mm)							
	Concrete K 275	m3	\$ 0.54	\$ 166.72	\$ 90.03	m3	0.54	\$ 235.18
	Reinforced	kg	\$ 116.69	\$ 1.59	\$ 186.00	kg	116.69	\$ 1.87
	Formwork	m2	\$ 3.60	\$ 19.57	\$ 70.45	m2	3.60	\$ 19.57
4	Concrete Padestal - K275							
	Concrete K 275	m3	\$ 3.54	\$ 166.72	\$ 589.69	m3	3.54	\$ 235.18
	Reinforced	kg	\$ 848.75	\$ 1.59	\$ 1,352.91	kg	848.75	\$ 1.87
	Formwork	m2	\$ 48.60	\$ 40.50	\$ 1,968.30	m2	48.60	\$ 43.63
5	Concrete tie beam, 200x300mm							
	Concrete K 275	m3	\$ 12.64	\$ 166.72	\$ 2,107.17	m3	12.64	\$ 235.18
	Reinforced	kg	\$ 2,668.40	\$ 1.59	\$ 4,285.31	kg	2688.40	\$ 1.87
	Formwork	m2	\$ 126.39	\$ 29.56	\$ 3,736.09	m2	126.39	\$ 53.20
6	Concrete ground beam - K275							



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

BILL OF QUANTITY

OWNER COST ESTIMATED							RESULT, ADN, I.P.				
ARCHITECTURAL		NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
			Concrete K 275	m3	\$ 22.07	\$ 166.72	\$ 3,680.18	m3	22.07	\$ 235.18	\$ 5,191.36
			Reinforced	kg	\$ 4,695.29	\$ 1.59	\$ 7,484.29	kg	4695.29	\$ 1.87	\$ 8,780.19
			Formwork	m2	\$ 220.74	\$ 29.56	\$ 6,525.07	m2	220.74	\$ 53.20	\$ 11,743.37
7	Concrete ground floor, t = 10 cm - K175 elev ±0.00										
			Concrete K 175	m3	\$ 38.40	\$ 149.21	\$ 5,729.66	m3	38.40	\$ 225.79	\$ 8,670.34
			Reinforced	kg	\$ 3,033.60	\$ 1.59	\$ 4,835.56	kg	3033.60	\$ 1.87	\$ 5,672.83
8	Concrete Column C1, (300x300mm)										
			Concrete K 275	m3	\$ 15.87	\$ 166.72	\$ 2,645.35	m3	15.87	\$ 235.18	\$ 3,731.60
			Reinforced	kg	\$ 2,424.05	\$ 1.59	\$ 3,863.94	kg	2424.05	\$ 1.87	\$ 4,532.98
			Formwork	m2	\$ 211.56	\$ 40.50	\$ 8,568.18	m2	211.56	\$ 43.63	\$ 9,230.36
9	Concrete Column C2, (200x200mm)										
			Concrete K 275	m3	\$ 2.43	\$ 166.72	\$ 405.46	m3	2.43	\$ 235.18	\$ 571.96
			Reinforced	kg	\$ 326.09	\$ 1.59	\$ 519.79	kg	326.09	\$ 1.87	\$ 609.79
			Formwork	m2	\$ 48.64	\$ 40.50	\$ 1,969.92	m2	48.64	\$ 43.63	\$ 2,122.16
10	Concrete Column C3, (150x150mm)										
			Concrete K 275	m3	\$ 7.58	\$ 166.72	\$ 1,264.40	m3	7.58	\$ 235.18	\$ 1,783.61
			Reinforced	kg	\$ 1,023.33	\$ 1.59	\$ 1,631.20	kg	1023.33	\$ 1.87	\$ 1,913.64
			Formwork	m2	\$ 101.12	\$ 40.50	\$ 4,095.36	m2	101.12	\$ 43.63	\$ 4,411.87
11	Ring Balok, 200x100mm										
			Concrete K 275	m3	\$ 5.84	\$ 166.72	\$ 973.31	m3	5.84	\$ 235.18	\$ 1,372.98
			Reinforced	kg	\$ 1,104.74	\$ 1.59	\$ 1,760.96	kg	1104.74	\$ 1.87	\$ 2,065.87
			Formwork	m2	\$ 116.76	\$ 50.07	\$ 5,846.17	m2	116.76	\$ 53.20	\$ 6,211.63
12	Concrete Consol - K275										
			Concrete K 275	m3	\$ 1.82	\$ 166.72	\$ 302.60	m3	1.82	\$ 235.18	\$ 426.85
			Reinforced	kg	\$ 173.17	\$ 1.59	\$ 276.04	kg	173.17	\$ 1.87	\$ 323.83
			Formwork	m2	\$ 14.00	\$ 50.07	\$ 700.98	m2	14.00	\$ 53.20	\$ 744.80
13	Concrete Beam B2 - K275										
			Concrete K 275	m3	\$ 19.85	\$ 166.72	\$ 3,308.56	m3	19.85	\$ 235.18	\$ 4,667.15
			Reinforced	kg	\$ 4,114.53	\$ 1.59	\$ 6,558.56	kg	4114.53	\$ 1.87	\$ 7,694.17
			Formwork	m2	\$ 255.15	\$ 50.07	\$ 12,775.36	m2	255.15	\$ 53.20	\$ 13,573.98
14	Concrete Beam B3 - K275										
			Concrete K 275	m3	\$ 2.85	\$ 166.72	\$ 475.15	m3	2.85	\$ 235.18	\$ 670.26
			Reinforced	kg	\$ 541.37	\$ 1.59	\$ 862.95	kg	541.37	\$ 1.87	\$ 1,012.37
			Formwork	m2	\$ 45.60	\$ 50.07	\$ 2,283.19	m2	45.60	\$ 53.20	\$ 2,425.92
15	Concrete Beam B4 - K275										
			Concrete K 275	m3	\$ 3.03	\$ 166.72	\$ 504.66	m3	3.03	\$ 235.18	\$ 711.89
			Reinforced	kg	\$ 408.44	\$ 1.59	\$ 651.06	kg	408.44	\$ 1.87	\$ 763.79
			Formwork	m2	\$ 55.50	\$ 50.07	\$ 2,778.63	m2	55.50	\$ 53.20	\$ 2,952.33
16	Concrete plate and roof, t = 120 mm - K175 for elev ±4.00										
			Concrete K 175	m3	\$ 26.42	\$ 149.21	\$ 3,942.73	m3	26.42	\$ 225.79	\$ 5,966.27
			Reinforced	kg	\$ 2,173.81	\$ 1.59	\$ 3,465.06	kg	2173.81	\$ 1.87	\$ 4,065.03
			Formwork	m2	\$ 220.20	\$ 50.07	\$ 11,025.41	m2	220.20	\$ 53.20	\$ 11,714.64
17	Concrete plate and roof, t = 120 mm - K175 for elev ±4.500 -± 5.00										
			Concrete K 175	m3	\$ 8.40	\$ 149.21	\$ 1,253.36	m3	8.40	\$ 225.79	\$ 1,896.64
			Reinforced	kg	\$ 1,036.56	\$ 1.59	\$ 1,652.28	kg	1036.56	\$ 1.87	\$ 1,938.37
			Formwork	m2	\$ 70.00	\$ 50.07	\$ 3,504.90	m2	70.00	\$ 53.20	\$ 3,724.00
18	Concrete table, t = 100 mm - K175										
			Concrete K 175	m3	\$ 0.24	\$ 149.21	\$ 35.81	m3	0.24	\$ 225.79	\$ 54.19



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

BILL OF QUANTITY

OWNER COST ESTIMATED								RESULT, ADN, I.P.			
ARCHITECTURAL											
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (USS)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (USS)	AMOUNT (\$)		
	Reinforced	kg	\$ 23.69	\$ 1.59	\$ 37.77	kg	23.69	\$ 1.87	\$ 44.31		
	Formwork	m2	\$ 2.40	\$ 50.07	\$ 120.17	m2	2.40	\$ 53.20	\$ 127.68		
19	Concrete For Armory Room										
	Concrete K 275	m3	\$ 16.06	\$ 166.72	\$ 2,677.52	m3	16.06	\$ 235.18	\$ 3,776.99		
	Reinforced	kg	\$ 835.12	\$ 1.59	\$ 1,331.18	kg	835.12	\$ 1.87	\$ 1,561.67		
	Formwork	m2	\$ 80.30	\$ 50.07	\$ 4,020.62	m2	80.30	\$ 53.20	\$ 4,271.96		
	Sub Total				\$ 144,614.87				\$ 178,328.63		
B ROOFING WORK											
1	Steel plate 300x300x12 mm	kg	\$ 33.23	\$ 3.64	\$ 120.97	kg	33.23	\$ 2.44	\$ 81.09		
2	Anchor bolt d16mm	kg	\$ 30.34	\$ 1.59	\$ 48.36	kg	30.34	\$ 1.87	\$ 56.73		
3	Steel frame, type WF 200x100x5.5x8 mm for trusses	kg	\$ 777.02	\$ 3.64	\$ 2,828.37	kg	777.02	\$ 4.12	\$ 3,201.34		
4	Steel frame, type WF 150x75x5x7 mm for trusses	kg	\$ 1,282.40	\$ 3.64	\$ 4,667.94	kg	1,282.40	\$ 4.12	\$ 5,283.49		
5	Steel frame, type WF 300x270x8x12 mm for trusses	kg	\$ 119.38	\$ 3.64	\$ 434.54	kg	119.38	\$ 4.12	\$ 491.85		
6	Steel profile type C 150x50x20x3.2 mm for purlin	kg	\$ 816.10	\$ 1.81	\$ 1,477.14	kg	816.10	\$ 2.53	\$ 2,064.73		
7	Steel bar d10mm for bracing purlin	kg	\$ 17.28	\$ 1.59	\$ 27.54	kg	17.28	\$ 1.87	\$ 32.31		
8	Steel plate 150x150x10 mm	kg	\$ 127.17	\$ 3.64	\$ 462.90	kg	127.17	\$ 2.44	\$ 310.29		
9	Steel L 30X30X3 mm	kg	\$ 60.21	\$ 2.15	\$ 129.45	kg	60.21	\$ 2.44	\$ 146.91		
	Sub Total				\$ 10,197.20				\$ 11,668.73		
	TOTAL STRUCTURAL WORK				\$ 154,812.07				\$ 189,997.36		
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (USS)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (USS)	AMOUNT (\$)		
PLUMBING WORK											
A PLUMBING WORK											
1st WASTE WATER PIPE Installation											
1	Pipe PVC Ø 4 inch	M1	60.00	\$ 13.70	\$ 822.00	M1	60.00	\$ 19.69	\$ 1,181.40		
2	Pipe PVC Ø 2 inch	M1	30.00	\$ 10.30	\$ 309.00	M1	30.00	\$ 8.66	\$ 259.80		
3	pipe pvc elbow 4 inch	pcs	8.00	\$ 21.70	\$ 173.60	pcs	8.00	\$ 25.90	\$ 207.20		
4	pipe pvc elbow 2 inch	pcs	4.00	\$ 8.00	\$ 32.00	pcs	4.00	\$ 6.81	\$ 27.24		
5	pipe pvc TEE 4 inch	pcs	5.00	\$ 21.70	\$ 108.50	pcs	5.00	\$ 13.86	\$ 69.30		
6	pipe pvc TEE 2 inch	pcs	3.00	\$ 8.00	\$ 24.00	pcs	3.00	\$ 3.30	\$ 9.90		
7	pipe Reduzer 4-2 inch	pcs	11.00	\$ 10.00	\$ 110.00	pcs	11.00	\$ 4.00	\$ 44.00		
8	Floor drain stainless	pcs	16.00	\$ 5.97	\$ 95.52	pcs	16.00	\$ 5.97	\$ 95.52		
9	Supply and install seat closet complete with accessories	unit	8.00	\$ 273.46	\$ 2,187.68	unit	8.00	\$ 364.31	\$ 2,914.48		
10	Supply and install squad closet complete with accessories	unit	2.00	\$ 76.00	\$ 152.00	unit	2.00	\$ 79.95	\$ 159.90		
11	Supply and install wastafel complete with accessories	unit	6.00	\$ 187.71	\$ 1,126.26	unit	6.00	\$ 115.71	\$ 694.26		
12	Supply and install urinoir complete with accessories	unit	1.00	\$ 297.00	\$ 297.00	unit	1.00	\$ 357.08	\$ 357.08		
13	Supply and install double bowl kitchen sink complete with accessories	unit	1.00	\$ 450.00	\$ 450.00	unit	1.00	\$ 176.72	\$ 176.72		
RAIN WATER Installation											
14	Pipe PVC Ø 6 inch	M1	40.00	\$ 18.00	\$ 720.00	M1	40.00	\$ 23.40	\$ 936.00		
15	Pipe PVC Ø 4 inch	M1	80.00	\$ 13.70	\$ 1,096.00	M1	80.00	\$ 19.69	\$ 1,575.20		
2nd COLD WATER PIPE Installation											
16	pvc pipe elbow 1/2 inch	pcs	2.00	\$ 5.00	\$ 10.00	pcs	2.00	\$ 0.33	\$ 0.66		
17	pvc pipe elbow 1 inch	pcs	7.00	\$ 6.00	\$ 42.00	pcs	7.00	\$ 6.00	\$ 42.00		
18	pvc pipe TEE 1 inch	pcs	16.00	\$ 5.00	\$ 80.00	pcs	16.00	\$ 5.00	\$ 80.00		
19	pipe Reduzer 1-1/2 inch	pcs	16.00	\$ 8.00	\$ 128.00	pcs	16.00	\$ 3.75	\$ 60.00		
20	Pipe PVC 1 inch	M1	60.00	\$ 3.23	\$ 193.80	M1	60.00	\$ 2.98	\$ 178.80		
21	Pipe PVC Ø 1/2 inch	M1	20.00	\$ 2.71	\$ 54.20	M1	20.00	\$ 2.23	\$ 44.60		
22	Gate valve Ø 25 mm	pcs	3.00	\$ 26.00	\$ 78.00	pcs	3.00	\$ 26.00	\$ 78.00		



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

BILL OF QUANTITY									
OWNER COST ESTIMATED							RESULT, ADN, I.P.		
ARCHITECTURAL									
NO.	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
23	Supply and Install Water Faucet	pcs	18.00	\$ 5.98	\$ 107.64	pcs	18.00	\$ 8.08	\$ 145.44
	WLC + Installation Cable Control								
24	WLC + installation cable control	lot	1.00	\$ 20.00	\$ 20.00	lot	1.00	\$ 20.00	\$ 20.00
25	Distribution pump cold water Paccaged (1 unit pump)	SET	1.00	\$ 250.00	\$ 250.00	SET	1.00	\$ 250.00	\$ 250.00
	TORRE								
27	Foot Plate, 800x800x350mm								
	Concrete 24 Mpa	m³	0.90	\$ 159.35	\$ 142.78	m³	0.90	\$ 235.18	\$ 210.72
	Reinforced D16mm	Kg	50.50	\$ 1.59	\$ 80.49	Kg	50.50	\$ 1.87	\$ 94.43
	Formwork	m²	1.60	\$ 19.57	\$ 31.31	m²	1.60	\$ 19.57	\$ 31.31
28	Tei Beam, 200x350x250mm								
	Concrete 24 Mpa	m³	0.70	\$ 159.35	\$ 111.55	m³	0.70	\$ 235.18	\$ 164.63
	Reinforced D16mm	Kg	126.24	\$ 1.59	\$ 201.23	Kg	126.24	\$ 1.87	\$ 236.07
	Reinforced Ø8mm	Kg	21.76	\$ 1.59	\$ 34.69	Kg	21.76	\$ 1.87	\$ 40.69
	Formwork	m²	3.50	\$ 50.07	\$ 175.25	m²	3.50	\$ 53.20	\$ 186.20
29	Sloof, 200x300x250mm								
	Concrete 24 Mpa	m³	0.60	\$ 159.35	\$ 95.61	m³	0.60	\$ 235.18	\$ 141.11
	Reinforced D16mm	Kg	126.24	\$ 1.59	\$ 201.23	Kg	126.24	\$ 1.87	\$ 236.07
	Reinforced Ø8mm	Kg	32.00	\$ 1.59	\$ 51.01	Kg	32.00	\$ 1.87	\$ 59.84
	Formwork	m²	9.00	\$ 29.56	\$ 266.04	m²	9.00	\$ 32.69	\$ 294.21
30	Beam 1 (250x450x250mm)								
	Concrete 24 Mpa	m³	1.13	\$ 159.35	\$ 179.27	m³	1.13	\$ 235.18	\$ 264.58
	Reinforced D16mm	Kg	157.80	\$ 1.59	\$ 251.53	Kg	157.80	\$ 1.87	\$ 295.09
	Reinforced Ø8mm	Kg	32.00	\$ 1.59	\$ 51.01	Kg	32.00	\$ 1.87	\$ 59.84
	Formwork	m²	12.50	\$ 50.07	\$ 625.88	m²	12.50	\$ 53.20	\$ 665.00
31	Beam 2 (250x450x250mm)								
	Concrete 24 Mpa	m³	1.13	\$ 159.35	\$ 179.27	m³	1.13	\$ 235.18	\$ 264.58
	Reinforced D16mm	Kg	157.80	\$ 1.59	\$ 251.53	Kg	157.80	\$ 1.87	\$ 295.09
	Reinforced Ø8mm	Kg	32.00	\$ 1.59	\$ 51.01	Kg	32.00	\$ 1.87	\$ 59.84
	Formwork	m²	12.50	\$ 50.07	\$ 625.88	m²	12.50	\$ 53.20	\$ 665.00
32	Beam 3 (200x300x250mm)								
	Concrete 24 Mpa	m³	0.30	\$ 159.35	\$ 47.81	m³	0.30	\$ 235.18	\$ 70.55
	Reinforced D16mm	Kg	63.12	\$ 1.59	\$ 100.61	Kg	63.12	\$ 1.87	\$ 118.03
	Reinforced Ø8mm	Kg	16.00	\$ 1.59	\$ 25.50	Kg	16.00	\$ 1.87	\$ 29.92
	Formwork	m²	4.50	\$ 50.07	\$ 225.32	m²	4.50	\$ 53.20	\$ 239.40
33	Finish Floor Concrete								
	Concrete 24 Mpa	m³	0.31	\$ 159.35	\$ 49.80	m³	0.31	\$ 235.18	\$ 73.49
	Formwork	m²	1.00	\$ 50.07	\$ 50.07	m²	1.00	\$ 19.57	\$ 19.57
34	Railing								
	Hollow 40.40, T=2mm	m	116.50	\$ 1.45	\$ 168.93	m	116.50	\$ 1.45	\$ 168.93
	Hollow 80.80, T=2mm	m	12.00	\$ 1.45	\$ 17.40	m	12.00	\$ 1.45	\$ 17.40
	Steel Plate 80.80, T=4mm	Bh	3.00	\$ 50.00	\$ 150.00	Bh	3.00	\$ 50.00	\$ 150.00
	Dina Bolt M10	Bh	33.00	\$ 12.00	\$ 396.00	Bh	33.00	\$ 1.50	\$ 49.50
35	Water tank (3200 ltr) - National product, Ex. Rotomor	Unit	1.00	\$ 350.00	\$ 350.00	Unit	1.00	\$ 504.00	\$ 504.00
	Polypipe (SNI/Australian), 3/4 inch	Roll	5.00	\$ 100.00	\$ 500.00	Roll	5.00	\$ 840.00	\$ 4,200.00
	Sanyo (SHIMIZU 3 HP) - provide all accesories	Unit	1.00	\$ 250.00	\$ 250.00	Unit	1.00	\$ 125.00	\$ 125.00
	Water pipe line and instalation	Ls	1.00	\$ 2,500.00	\$ 2,500.00	Ls	1.00	\$ 500.00	\$ 500.00



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

BILL OF QUANTITY									
OWNER COST ESTIMATED						RESULT, ADN, I.P.			
ARCHITECTURAL									
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
	Sub Total				\$ 17,105.17				\$ 20,137.58
B	Septictank								
1	Excavation	m3	12.00	\$ 5.91	\$ 70.92	m3	12.00	\$ 5.91	\$ 70.92
2	sand bedding	m3	0.60	\$ 11.99	\$ 7.19	m3	0.60	\$ 11.99	\$ 7.19
3	concrete slab	m3	0.53	\$ 159.35	\$ 84.77	m3	0.53	\$ 235.18	\$ 125.12
4	concrete column								
	Concrete K 275	m3	0.60	\$ 159.35	\$ 95.61	m3	0.60	\$ 235.18	\$ 141.11
	Reinforced	kg	95.99	\$ 1.59	\$ 153.01	kg	95.99	\$ 1.87	\$ 179.50
	Formwork	m2	12.00	\$ 40.50	\$ 486.00	m2	12.00	\$ 43.63	\$ 523.56
5	concrete for top septictank								
	Concrete K 275	m3	0.53	\$ 159.35	\$ 84.77	m3	0.53	\$ 235.18	\$ 125.12
	Reinforced	kg	43.77	\$ 1.59	\$ 69.76	kg	43.77	\$ 1.87	\$ 81.84
	Formwork	m2	5.32	\$ 50.07	\$ 266.37	m2	5.32	\$ 53.20	\$ 283.02
6	Pipe PVC dia. 4"	m'	6.00	\$ 10.30	\$ 61.80	m'	6.00	\$ 19.69	\$ 118.14
7	Pipe PVC dia. 2"	m'	2.00	\$ 10.30	\$ 20.60	m'	2.00	\$ 8.66	\$ 17.32
8	Tee PVC dia. 4"	Unit	1.00	\$ 21.70	\$ 21.70	Unit	1.00	\$ 13.86	\$ 13.86
9	Tee PVC dia. 2"	Unit	1.00	\$ 8.00	\$ 8.00	Unit	1.00	\$ 3.30	\$ 3.30
10	Ordinary block wall masonry 40x20x10 cm (1 cement: 4 sand)	m2	37.29	\$ 14.92	\$ 556.37	m2	37.29	\$ 16.92	\$ 630.95
11	Ordinary wall plaster (1 cement: 4 sand)	m2	37.29	\$ 5.77	\$ 215.16	m2	37.29	\$ 6.57	\$ 245.00
12	Wall Cement render	m2	37.29	\$ 3.27	\$ 121.94	m2	37.29	\$ 3.32	\$ 123.80
C	Difusion and installation pipe Complete								
1	Excavation	m3	6.50	\$ 5.91	\$ 38.42	m3	6.50	\$ 5.91	\$ 38.42
2	concrete for top difusion								
3	Concrete K 275	m3	0.52	\$ 159.35	\$ 82.86	m3	0.52	\$ 235.18	\$ 122.29
	Reinforced	kg	26.65	\$ 1.59	\$ 42.49	kg	26.65	\$ 1.87	\$ 49.84
	Formwork	m2	2.60	\$ 50.07	\$ 130.18	m2	2.60	\$ 53.20	\$ 138.32
4	Gravel 20x20 mm	m3	2.21	\$ 35.00	\$ 77.18	m3	2.21	\$ 35.00	\$ 77.18
5	Fibre of Palmtree	m2	14.25	\$ 10.00	\$ 142.50	m2	14.25	\$ 10.00	\$ 142.50
6	Ordinary block wall masonry 40x20x10 cm (1 cement: 4 sand)	m2	14.25	\$ 14.92	\$ 212.61	m2	14.25	\$ 16.92	\$ 241.11
7	Ordinary wall plaster (1 cement: 4 sand)	m2	14.25	\$ 5.77	\$ 82.22	m2	14.25	\$ 6.57	\$ 93.62
8	Cement render	m2	14.25	\$ 3.27	\$ 46.60	m2	14.25	\$ 3.32	\$ 47.31
	Sub Total				\$ 3,179.04				\$ 3,640.34
	Total Septictank & Difusion				\$ 3,179.04				\$ 3,640.34
	Total for Plumbing Work				\$ 20,284.20				\$ 23,777.91
ELECTRICAL WORK									
B	ELECTRICAL								
I	Medium Voltage Line 20 KV								
	Supply and install all these equipments complete with all necessary fittings and accessories required refer on drawing								
1	Concrete Pole 12 M 350 daN	unit	4.00	\$ 769.76	\$ 3,079.04	unit	4.00	\$ 642.10	\$ 2,568.40
2	AAAC - S 1 x 70 mm ²	m	50.00	\$ 6.00	\$ 300.00	m	600.00	\$ 3.38	\$ 2,028.00
3	Pin post Insulator	Unit	12.00	\$ 50.00	\$ 600.00	Unit	12.00	\$ 25.00	\$ 300.00
4	Hang Insulator (Complit with Accesories)	set	2.00	\$ 150.00	\$ 300.00	set	2.00	\$ 60.00	\$ 120.00
5	Fuse Cut outs	set	1.00	\$ 448.00	\$ 448.00	set	1.00	\$ 80.00	\$ 80.00



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

BILL OF QUANTITY

OWNER COST ESTIMATED							RESULT, ADN, I.P			
ARCHITECTURAL										
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	
6	Cross arm A1 Channnel UNP 1.8 Meter (Galvanized)(Bezel)	Unit	1.00	\$ 85.00	\$ 85.00	Unit	1.00	\$ 63.90	\$ 63.90	
7	Cross arm A2 channnel UNP 2 Meter (Galvanized)(Bezel)	Unit	6.00	\$ 150.00	\$ 900.00	Unit	6.00	\$ 112.76	\$ 676.56	
8	Braco for Support cross arm (127) (Bezel)	Unit	7.00	\$ 25.00	\$ 175.00	Unit	7.00	\$ 18.80	\$ 131.60	
9	Helical / Flaca	m	18.00	\$ 3.50	\$ 63.00	m	18.00	\$ 2.25	\$ 40.50	
10	Climber Protection	Unit	3.00	\$ 8.00	\$ 24.00	Unit	3.00	\$ 6.01	\$ 18.03	
11	Warning Sign	Unit	3.00	\$ 8.00	\$ 24.00	Unit	3.00	\$ 6.01	\$ 18.03	
12	Truckschoor (Assembly)	Unit	4.00	\$ 3.36	\$ 13.44	Unit	4.00	\$ 97.71	\$ 390.84	
13	Parallel Groove Connector (AL) 35 - 150mm ²	Unit	6.00	\$ 8.96	\$ 53.76	Unit	6.00	\$ 3.01	\$ 18.06	
14	Construction material (Stone,sand,cement,iron,wire)	Unit	3.00	\$ 12.00	\$ 36.00	Unit	3.00	\$ 19.48	\$ 58.44	
	Sub Total				\$ 6,101.24				\$ 6,512.36	
II	New Transformer 20 KV/400 V									
1	Administration Fee EDTL (power connection)	ls	1	\$ 550.00	\$ 550.00	ls	1.00	\$ 550.00	\$ 550.00	
2	Supply & Install immersed Oil Transformer 50 KVA D Y z n 5 - 3 phase 20KV - 400 V + Accessories	unit	1	\$ 7,275.00	\$ 7,275.00	unit	1.00	\$ 7,035.00	\$ 7,035.00	
3	N2XSEBY 3x95 mm ² (24 kv) Underground Cable	m	30	\$ 68.17	\$ 2,045.10	m	30.00	\$ 68.17	\$ 2,045.10	
4	Fuse Cut Out	set	1	\$ 448.00	\$ 448.00	set	1.00	\$ 80.00	\$ 80.00	
5	Lightning Arrester 24 KV	set	1	\$ 448.00	\$ 448.00	set	1.00	\$ 80.00	\$ 80.00	
6	Termination Clamp 50 mm	unit	30	\$ 12.00	\$ 360.00	unit	30.00	\$ 1.88	\$ 56.40	
7	Raycham Indoor	set	1	\$ 500.00	\$ 500.00	set	1.00	\$ 500.00	\$ 500.00	
8	Raycham Outdoor	set	1	\$ 500.00	\$ 500.00	set	1.00	\$ 500.00	\$ 500.00	
9	Galvanized pipe 3" (6 m) include Acc.	unit	4	\$ 105.00	\$ 420.00	unit	4.00	\$ 75.17	\$ 300.68	
10	NYFGBY 4x35 mm ² to Panel CONTROL	m	15	\$ 43.85	\$ 657.75	m	15.00	\$ 43.85	\$ 657.75	
	Sub Total				\$ 13,203.85				\$ 11,804.93	
III	M V M D P (Medium Voltage Distribution Panel 20 kV)									
	Free standing - metal enclosed cubicle, fixed type, galvanized metal sheet									
	- Rated voltage : 24 kV									
	- Service voltage : 20 kV									
1	Incoming Cubicle	set	1	\$ 4,909.09	\$ 4,909.09	set	1.00	\$ 4,909.09	\$ 4,909.09	
	- SF6 manually operated LBS (400 A)									
	- 1 set CVD + indicating light									
	- Short circuiting/earthing switch									
	- 1 set isolated bus (400 A - 500 MVA)									
	- Accessories									
2	Transformer Protection Cubicle; Outgoing	set	1	\$ 6,676.36	\$ 6,676.36	set	1.00	\$ 6,676.36	\$ 6,676.36	
	- SF6 manually operated LBS (400 A) with fuse mounted below + shunt trip 220 VAC									
	- 1 set HRC fuse (125 A-20 kV) with striker pin									
	- 1 set CVD + indicating light									
	- Short circuiting/earthing switch									
	- 1 set isolated bus (400 A - 500 MVA)									
	- Accessories									
3	Voltage Measurement Cubicle; Outgoing	set	1	\$ 7,069.09	\$ 7,069.09	set	1.00	\$ 7,069.09	\$ 7,069.09	
	- SF6 manually operated LBS (400 A)									
	- 1 set potential transformer 20 kV/110 V									
	- 1 set HRC fuse (6,3 A-20 kV)									
	- 1 Unit Voltmeter 0 - 20 kV + VSS 7 Spots									
	- 1 set CVD + indicating light									



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

BILL OF QUANTITY									
OWNER COST ESTIMATED							RESULT, ADN, I.P.		
ARCHITECTURAL									
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
	- Short circuiting/earthing switch								
	- 1 set isolated bus (400 A - 500 MVA)								
	- Accessories								
	Sub Total			\$ 18,654.54					\$ 18,654.54
IV	Power station:								
1	Power Backup Silent Generator perkins 50 KVA	Unit	1.00	\$ 8,000.00	\$ 8,000.00	Unit	1.00	\$ 8,000.00	\$ 8,000.00
2	Supply and Install PANEL CONTROL 600X400X200 include all accessories	Unit	1.00	\$ 500.00	\$ 500.00	Unit	1.00	\$ 861.36	\$ 861.36
3	Supply and Install OCB 175-250A 4P	Unit	1.00	\$ 150.00	\$ 150.00	Unit	1.00	\$ 150.00	\$ 150.00
4	Supply and Install MCCB 80A 3P	Unit	1.00	\$ 100.98	\$ 100.98	Unit	1.00	\$ 100.98	\$ 100.98
5	Supply and Install Cable NYY 4X10mm+PVC	m1	30.00	\$ 14.42	\$ 432.60	m1	30.00	\$ 13.57	\$ 407.10
V	Supply and Install PANEL SDP-A 600X400X200 include all accessories	Unit	1.00	\$ 500.00	\$ 500.00	Unit	1.00	\$ 188.88	\$ 188.88
1	Supply and Install MCCB 50A 3P	Unit	1.00	\$ 86.28	\$ 86.28	Unit	1.00	\$ 86.28	\$ 86.28
2	Supply and Install MCB 6A 1P	Unit	17.00	\$ 9.63	\$ 163.71	Unit	17.00	\$ 8.58	\$ 145.86
3	Supply and Install MCB 10A1P	Unit	5.00	\$ 12.78	\$ 63.90	Unit	5.00	\$ 9.11	\$ 45.55
4	Supply and Install MCB 16A 1P	Unit	1.00	\$ 15.93	\$ 15.93	Unit	1.00	\$ 9.11	\$ 9.11
5	Supply and Install MCB 20A 1P	Unit	2.00	\$ 18.03	\$ 36.06	Unit	2.00	\$ 9.11	\$ 18.22
6	Supply and Install Fluorescent TL 2X36W	Unit	23.00	\$ 50.00	\$ 1,150.00	Unit	23.00	\$ 54.78	\$ 1,259.94
7	Supply and Install Downlight 15W	Unit	15.00	\$ 15.00	\$ 225.00	Unit	15.00	\$ 15.93	\$ 238.95
8	Supply and Install Circular Light 25W	Unit	4.00	\$ 25.00	\$ 100.00	Unit	4.00	\$ 25.00	\$ 100.00
9	Supply and Install Downlight 7 W	Unit	18.00	\$ 7.00	\$ 126.00	Unit	18.00	\$ 10.41	\$ 187.38
10	Supply and Install Exhaust Fan	Unit	6.00	\$ 49.03	\$ 294.18	Unit	6.00	\$ 42.18	\$ 253.08
11	Supply and Install Power Outlet 250VA	Unit	55.00	\$ 8.00	\$ 440.00	Unit	55.00	\$ 5.67	\$ 311.85
12	Supply and Install Single switch	Unit	31.00	\$ 6.00	\$ 186.00	Unit	31.00	\$ 5.15	\$ 159.65
13	Supply and Install Double switch	Unit	15.00	\$ 8.00	\$ 120.00	Unit	15.00	\$ 5.67	\$ 85.05
	Sub Total			\$ 12,690.64					\$ 12,690.24
V	TRAY CABLE:								
1	Tray Cable 400x100 with cover	M1	24	\$ 25.00	\$ 600.00	M1	24.00	\$ 40.35	\$ 968.40
2	Supply and Install Cable NYM 3X2,5mm + PVC	m1	500	\$ 4.50	\$ 2,250.00	m1	500.00	\$ 3.98	\$ 1,990.00
3	Supply and Install Cable NYM 3X1,5mm + PVC	m1	400	\$ 3.50	\$ 1,400.00	m1	400.00	\$ 3.49	\$ 1,394.60
	Total TRAY CABLE Work			\$ 4,250.00					\$ 4,353.00
				\$ 54,900.27					\$ 53,934.07
AIR CONDITIONAL (AC)									
VI	Supply and Install PANEL AC 600X400X200 include all accessories								
	Supply and Install MCCB 40A 3P	Unit	1.00	\$ 75.00	\$ 75.00	Unit	1.00	\$ 75.00	\$ 75.00
	Supply and Install MCB 6A	Unit	1.00	\$ 9.63	\$ 9.63	Unit	1.00	\$ 8.58	\$ 8.58
	Supply and Install MCB 10A	Unit	14.00	\$ 12.78	\$ 178.92	Unit	14.00	\$ 9.11	\$ 127.54
	Supply and Install AC 9000 BTU	Unit	14.00	\$ 354.13	\$ 4,957.82	Unit	14.00	\$ 432.88	\$ 6,060.32
	power outlet for AC	Unit	14.00	\$ 8.00	\$ 112.00	Unit	14.00	\$ 5.67	\$ 79.38
	Installation power outlet AC 9000 BTU with cable NYM 3X2,5 mm in conduit 20 mm pvc	Point	14.00	\$ 25.00	\$ 350.00	Point	14.00	\$ 27.25	\$ 381.50
	Pipe refrigerant for AC 9000 BTU	m1	13.00	\$ 5.00	\$ 65.00	m1	13.00	\$ 5.00	\$ 65.00
	Supply and Install Ceiling Fan + Remote control	Unit	2.00	\$ 95.00	\$ 190.00	Unit	2.00	\$ 86.28	\$ 172.56
	Total Air Conditioning (AC) Work			\$ 5,938.37					\$ 6,969.88
VII	CCTV								
	Supply and Install all item								
	a. NVR 16 channel camera input, tru real time display Hardisk 1 tB MPEG 4 built in network	unit	1.00	\$ 700.00	\$ 700.00	unit	1.00	\$ 415.59	\$ 415.59
	b. Keyboard controller PT2	unit	1.00	\$ 14.04	\$ 14.04	unit	1.00	\$ 14.04	\$ 14.04
	c. LCD Monitor 32" colour	unit	1.00	\$ 250.00	\$ 250.00	unit	1.00	\$ 313.26	\$ 313.26
	d. UPS 1 KVA complete with Backup battery 15 menit	unit	1.00	\$ 300.00	\$ 300.00	unit	1.00	\$ 300.00	\$ 300.00



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

BILL OF QUANTITY

OWNER COST ESTIMATED							RESULT, ADN, I.P			
ARCHITECTURAL		DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
NO										
	e. Rack cabinet		unit	1.00	\$ 39.47	\$ 39.47				
	f. Cable installation network		Roll	2.00	\$ 92.00	\$ 184.00	Roll	2.00	\$ 63.89	\$ 127.78
	g. Dome camera colour hikvision 8 mpx indoor camera		unit	4.00	\$ 200.00	\$ 800.00	unit	4.00	\$ 217.41	\$ 869.64
	h. Bullet Camera hikvision 8 mpx outdoor camera		unit	5.00	\$ 350.00	\$ 1,750.00	unit	5.00	\$ 281.69	\$ 1,408.45
	i. CABLE CAT6 (300m)		Roll	1.00	\$ 120.00	\$ 120.00	Roll	1.00	\$ 253.51	\$ 253.51
	Test and commissioning		lot	1.00	\$ 100.00	\$ 100.00	lot	1.00	\$ 100.00	\$ 100.00
	Total for CCTV Work					\$ 4,257.51				\$ 3,802.27
VIII FIRE ALARM										
	Supply and Install all item									
	MAIN UNIT :									
	MCFA Single ZONE		un	1.00	\$ 438.00	\$ 438.00	un	1.00	\$ 438.00	\$ 438.00
	ANNUNCIATOR		un	1.00	\$ 228.00	\$ 228.00	un	1.00	\$ 228.00	\$ 228.00
	Cable feader from MCFA to ANNUNCIATOR		m	35.00	\$ 2.50	\$ 87.50	m	35.00	\$ 2.50	\$ 87.50
	installation smoke detector with cable NYA 2 x 1,5 mm in conduit pvc Ø 20 mm		Point	15.00	\$ 50.00	\$ 750.00	Point	15.00	\$ 50.00	\$ 750.00
	installation Heat detector with cable NYA 2 x 1,5 mm in conduit pvc Ø 20 mm		Point	6.00	\$ 50.00	\$ 300.00	Point	6.00	\$ 50.00	\$ 300.00
	installation ALARM BELL with cable NYA 2 x 1,5 mm in conduit pvc Ø 20 mm		Point	2.00	\$ 25.00	\$ 50.00	Point	2.00	\$ 25.00	\$ 50.00
	Installation INDICATOR LAMP with cable NYA 2 x 1,5 mm in conduit pvc Ø 20 mm		Point	2.00	\$ 25.00	\$ 50.00	Point	2.00	\$ 25.00	\$ 50.00
	Smoke Detector		un	15.00	\$ 41.84	\$ 627.60	un	15.00	\$ 41.84	\$ 627.60
	Heat Detector		un	6.00	\$ 75.50	\$ 453.00	un	6.00	\$ 75.50	\$ 453.00
	Alarm bell		un	1.00	\$ 52.81	\$ 52.81	un	1.00	\$ 52.81	\$ 52.81
	Push button		un	1.00	\$ 61.58	\$ 61.58	un	1.00	\$ 61.58	\$ 61.58
	Indicator lamp		un	1.00	\$ 52.81	\$ 52.81	un	1.00	\$ 52.81	\$ 52.81
	TB Box		un	1.00	\$ 39.91	\$ 39.91	un	1.00	\$ 39.91	\$ 39.91
	EOL		un	2.00	\$ 0.70	\$ 1.40	un	2.00	\$ 0.70	\$ 1.40
	Test and commissioning		lot	1.00	\$ 500.00	\$ 500.00	lot	1.00	\$ 500.00	\$ 500.00
	Total Fire Alarm Work					\$ 3,692.61				\$ 3,692.61
IX FIRE PROTECTION										
	Supply and Install all item									
	Fire Extinguisher type ABC Powder cap : 5 kg		un	3.00	\$ 75.00	\$ 225.00	un	3.00	\$ 75.00	\$ 225.00
	Total for Fire Protection Work					\$ 225.00				\$ 225.00
X SOUND SYSTEM AUDITORIUM ROOM										
	Supply and Install all item									
	Power Amplifier 125 W		Unit	1.00	\$ 500.00	\$ 500.00	Unit	1.00	\$ 500.00	\$ 500.00
	Mixer amplifier 12 Channel		Unit	1.00	\$ 315.79	\$ 315.79	Unit	1.00	\$ 315.79	\$ 315.79
	DVD/USB/BT		Unit	1.00	\$ 80.00	\$ 80.00	Unit	1.00	\$ 80.00	\$ 80.00
	SUBWOOFER		Unit	1.00	\$ 223.68	\$ 223.68	Unit	1.00	\$ 223.68	\$ 223.68
	Ceiling Speaker		Unit	25.00	\$ 45.00	\$ 1,125.00	Unit	25.00	\$ 41.04	\$ 1,026.00
	Volume Speaker		Unit	11.00	\$ 15.00	\$ 165.00	Unit	11.00	\$ 15.00	\$ 165.00
	MIC Triport		Unit	1.00	\$ 15.00	\$ 15.00	Unit	1.00	\$ 15.00	\$ 15.00
	Mic wireless		Unit	2.00	\$ 61.40	\$ 122.80	Unit	2.00	\$ 61.40	\$ 122.80
	Cabinet rack 32 c/w acc(Rack Server 32U, Standing Close Rack Glass Door(IR6032G), 19 inch Cabinet Rack, Dimension 600Dx600Wx1605H mm, 82 kg)		Unit	1.00	\$ 35.09	\$ 35.09	Unit	1.00	\$ 932.76	\$ 932.76
	Cable mic		M1	5.00	\$ 3.50	\$ 17.50	M1	5.00	\$ 3.50	\$ 17.50
	Cable speaker OLFLEX KABEL 2 X 1.5 mm in HIC		M1	200.00	\$ 3.50	\$ 700.00	M1	200.00	\$ 2.50	\$ 500.00
	connector for cable to speaker/sound		pcs	10.00	\$ 27.63	\$ 276.30	pcs	10.00	\$ 27.63	\$ 276.30
	Test and commissioning		lot	1.00	\$ 13.16	\$ 13.16	lot	1.00	\$ 13.16	\$ 13.16



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

BILL OF QUANTITY

OWNER COST ESTIMATED							RESULT: ADN, I.P.			
ARCHITECTURAL										
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	
H	LIGHTING PROTECTION									
Supply and Install all item										
Head protection lighting radius 35 m		un	1.00	\$ 328.95	\$ 328.95	un	1.00	\$ 328.95	\$ 328.95	
support pipe GIP Ø 50 mm		un	1.00	\$ 166.90	\$ 166.90	un	1.00	\$ 166.90	\$ 166.90	
Cable NYX 1 x 70 mm		m	40.00	\$ 13.73	\$ 549.20	m	40.00	\$ 12.78	\$ 511.20	
Grounding rood Ø 25 mm		m	6.00	\$ 217.60	\$ 1,305.60	m	6.00	\$ 217.60	\$ 1,305.60	
Box control 40 x 40 cm		un	1.00	\$ 70.18	\$ 70.18	un	1.00	\$ 70.18	\$ 70.18	
Test and commissioning		lot	1.00	\$ 87.72	\$ 87.72	lot	1.00	\$ 87.72	\$ 87.72	
Total for Lighting Protection Work					\$ 2,508.55					\$ 2,470.55
I	TELEPHONE									
Supply and Install all item										
Penyambungan jaringan baru TELKOM 3 line										
PABX 2-5 ch + 2 poert + 30 port		Unit	1.00	\$ 456.14	\$ 456.14	Unit	1.00	\$ 456.14	\$ 456.14	
wall mount rack (Rack Server 15U, WallMount Rack Single Glass Door (WIR4515S), 19 inch Cabinet Rack, Dimension 450D x 600W x 780H mm, and Weight 30kg)		Unit	1.00	\$ 22.37	\$ 22.37	Unit	1.00	\$ 371.01	\$ 371.01	
Printer standart (Laserjet Pro MFP M125a) Black & Colour		Unit	1.00	\$ 43.86	\$ 43.86	Unit	1.00	\$ 220.14	\$ 220.14	
Kabel ITC 10 x 0,6 pair in pipe PVC 1,5 "		m	70.00	\$ 311.32	\$ 21,792.40	m	70.00	\$ 4.82	\$ 337.40	
UPS 2 Kva		Unit	1.00	\$ 500.00	\$ 500.00	Unit	1.00	\$ 370.01	\$ 370.01	
Terminal Box 20 pair		Unit	1.00	\$ 35.09	\$ 35.09	Unit	1.00	\$ 35.09	\$ 35.09	
instalasi outlet telepon		Point	13.00	\$ 15.88	\$ 206.44	Point	13.00	\$ 14.00	\$ 182.00	
Outlet telepon		pcs	18.00	\$ 8.95	\$ 161.10	pcs	18.00	\$ 8.95	\$ 161.10	
Instalasi outlet telepon direct		Unit	5.00	\$ 50.00	\$ 250.00	Unit	5.00	\$ 50.00	\$ 250.00	
Total for Telephone Work					\$ 23,467.40					\$ 2,382.89
J	LAN/DATA									
Supply and Install all item										
Cabinet rack 32 c/w acc(Rack Server 32U, Standing Close Rack Glass Door(IR6032G), 19 inch Cabinet Rack, Dimension 600Dx600Wx1605H mm, 82 kg)		Unit	1.00	\$ 39.47	\$ 39.47	Unit	1.00	\$ 932.76	\$ 932.76	
UPS 2 Kva		Unit	1.00	\$ 500.00	\$ 500.00	Unit	1.00	\$ 395.01	\$ 395.01	
Switch 24 Port/RG-NBS3100-24GT4SFP-P)		Unit	1.00	\$ 27.19	\$ 27.19	Unit	1.00	\$ 558.29	\$ 558.29	
PATCH Panel (Patch Panel 24 Port)		Unit	1.00	\$ 68.93	\$ 68.93	Unit	1.00	\$ 129.62	\$ 129.62	
cabinet rack 6 u		Unit	1.00	\$ 86.62	\$ 86.62					\$ -
instalasi data		point	15.00	\$ 14.95	\$ 224.25	point	15.00	\$ 14.95	\$ 224.25	
acces point(wiffl) (RG-720L)		point	4.00	\$ 120.00	\$ 480.00	point	4.00	\$ 125.14	\$ 500.56	
Outlet data (Simon)		pcs	15.00	\$ 9.56	\$ 143.40	pcs	15.00	\$ 9.56	\$ 143.40	
cable UTP Cat 6 In conduit 20 mm (300m)		roll	1.00	\$ 120.00	\$ 120.00	roll	1.00	\$ 250.00	\$ 250.00	
Test and commissioning		lot	1.00	\$ 500.00	\$ 500.00	lot	1.00	\$ 500.00	\$ 500.00	
Total for LAN/DATA Work					\$ 2,189.86					\$ 3,633.89
Total for Mechanical Work					\$ 45,869.62					\$ 27,365.09
TOTAL MEP WORK					\$ 121,053.09					\$ 105,077.07
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	
LANDSCAPE WORK										
I	PRELIMINARY WORK									
1	Sand filling, t = 10 cm	m3	86.60	\$ 11.99	\$ 1,038.33	m3	86.60	\$ 11.99	\$ 1,038.33	
2	Paving block work 20 x 10 x 6 cm	m2	866.00	\$ 36.09	\$ 31,253.94	m2	866.00	\$ 30.24	\$ 26,187.84	
3	Kansteen concrete work - K125 40 x 10 x 20	m1	204.02	\$ 15.66	\$ 3,194.30	m1	204.02	\$ 14.00	\$ 2,856.70	
	painting for kansteen	m2	40.80	\$ 1.61	\$ 65.69	m2	40.80	\$ 3.60	\$ 146.89	
4	Concrete floor, t = 10 cm - K125	m3	4.11	\$ 148.11	\$ 609.32	m3	4.11	\$ 227.37	\$ 935.40	
5	Humus soil	m3	87.65	\$ 35.00	\$ 3,067.58	m3	87.65	\$ 35.00	\$ 3,067.58	



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

BILL OF QUANTITY										
OWNER COST ESTIMATED							RESULT, ADN, I.P.			
ARCHITECTURAL										
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	
5	Humus soil	m3	87.65	\$ 35.00	\$ 3,067.58	m3	87.65	\$ 35.00	\$ 3,067.58	
6	Grass planting (<i>Zoysia japonica</i> (Japanese lawnglass))	m2	292.15	\$ 5.00	\$ 1,460.75	m2	292.15	\$ 10.38	\$ 3,031.35	
7	Red Shoot Tree h= 2 m	unit	30.00	\$ 150.00	\$ 4,500.00	unit	30.00	\$ 100.00	\$ 3,000.00	
8	Supply and installation flagpole such as drawing complete with all accessories	unit	1.00	\$ 350.00	\$ 350.00	unit	1.00	\$ 517.70	\$ 517.70	
II ELECTRICAL FOR LANDSCAPE										
1	MCB Box 6-Ways	unit	1.00	\$ 6.00	\$ 6.00	unit	1.00	\$ 6.00	\$ 6.00	
2	LED LIGHT 15 W + CAP	unit	1.00	\$ 35.00	\$ 35.00	unit	1.00	\$ 35.00	\$ 35.00	
3	MCB 20A 1P	unit	1.00	\$ 18.03	\$ 18.03	unit	1.00	\$ 9.11	\$ 9.11	
4	MCB 10A 1P	unit	1.00	\$ 12.78	\$ 12.78	unit	1.00	\$ 9.11	\$ 9.11	
5	Theben Timer (Automatic Timer)	unit	1.00	\$ 32.50	\$ 32.50	unit	1.00	\$ 32.50	\$ 32.50	
6	RCCB/RCD 30mA 16A	unit	1.00	\$ 45.00	\$ 45.00	unit	1.00	\$ 45.00	\$ 45.00	
7	Cable NYFGBY 3x2.5 mm +PVC	m1	300.00	\$ 6.50	\$ 1,950.00	m1	300.00	\$ 6.33	\$ 1,897.50	
Sub Total					\$ 47,639.23				\$ 42,816.01	
III FENCE WORK										
A EARTH AND SAND WORK										
1	Bowplank	Ls	1.00	\$ 350.00	\$ 350.00	Ls	1.00	\$ 350.00	\$ 350.00	
2	Excavation for ordinary foundation	m3	96.00	\$ 5.14	\$ 493.44	m3	96.00	\$ 5.14	\$ 493.44	
3	Stone masonry work (1 cement : 4 sand)	m3	52.80	\$ 103.58	\$ 5,469.02	m3	52.80	\$ 112.82	\$ 5,956.90	
4	Foundation excavation backfilling	m3	24.00	\$ 1.70	\$ 40.80	m3	24.00	\$ 1.70	\$ 40.80	
5	Sand filling under foundation	m3	6.00	\$ 11.99	\$ 71.94	m3	6.00	\$ 11.99	\$ 71.94	
Sub Total					\$ 6,425.20				\$ 6,913.08	
B WALL WORKS AND PLASTER WORK										
1	Ordinary block wall 40x20x10 cm masonry (1 sand : 4 sand)	m2	317.50	\$ 14.92	\$ 4,737.10	m2	317.50	\$ 16.92	\$ 5,372.10	
2	Ordinary wall plaster (1 cement : 4 sand) 15 mm thickness	m2	635.00	\$ 5.77	\$ 3,663.95	m2	635.00	\$ 6.57	\$ 4,171.95	
3	Wall cement render	m2	635.00	\$ 3.27	\$ 2,076.45	m2	635.00	\$ 3.32	\$ 2,108.20	
Sub Total					\$ 10,477.50				\$ 11,652.25	
C CONCRETE WORKS										
1	Concrete sloof 200x300 mm - K175	Concrete K175	m3	8.88	\$ 149.21	\$ 1,324.98	m3	8.88	\$ 225.79	\$ 2,005.02
		Reinforced	kg	1578.37	\$ 1.59	\$ 2,515.92	kg	1578.37	\$ 1.87	\$ 2,951.55
		Formwork	m2	88.80	\$ 29.56	\$ 2,624.93	m2	88.80	\$ 32.69	\$ 2,902.87
2	Concrete beam 150x200 mm - K175	Concrete K175	m3	3.84	\$ 149.21	\$ 572.97	m3	3.84	\$ 225.79	\$ 867.03
		Reinforced	kg	721.24	\$ 1.59	\$ 1,149.65	kg	721.24	\$ 1.87	\$ 1,348.71
		Formwork	m2	51.20	\$ 50.07	\$ 2,563.58	m2	51.20	\$ 53.20	\$ 2,723.84
3	Concrete column 150x150 mm - K175 for fence type 2 & 3	Concrete K175	m3	7.20	\$ 149.21	\$ 1,074.31	m3	7.20	\$ 225.79	\$ 1,625.69
		Reinforced	kg	1061.64	\$ 1.59	\$ 1,692.25	kg	1061.64	\$ 1.87	\$ 1,985.27
		Formwork	m2	144.00	\$ 40.50	\$ 5,832.00	m2	144.00	\$ 43.63	\$ 6,282.72
Sub Total					\$ 19,350.60				\$ 22,692.70	
D PAINTING WORK										
1	Wall and column painting		m2	912.00	\$ 3.46	\$ 3,155.52	m2	912.00	\$ 3.60	\$ 3,283.20
Sub Total					\$ 3,155.52				\$ 3,283.20	
E SUPPLY AND INSTALLATION WORK										
1	Supply and installation main gate	Unit	2.00	\$ 750.00	\$ 1,500.00	Unit	2.00	\$ 750.00	\$ 1,500.00	
2	Supply and Installation marble nameboard include stainless steel letter	Ls	1.00	\$ 1,250.00	\$ 1,250.00	Ls	1.00	\$ 1,250.00	\$ 1,250.00	
Sub Total					\$ 2,750.00				\$ 2,750.00	
Total for fence work					\$ 42,158.83				\$ 47,291.23	



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

BILL OF QUANTITY

OWNER COST ESTIMATED							RESULT, ADN, I.P.				
ARCHITECTURAL		NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
IV	DRAINAGEN WORK										
A	EARTH WORK										
	Setting out bowplank		Ls	1.00	\$ 350.00	\$ 350.00		Ls	1.00	\$ 350.00	\$ 350.00
	Excavation for ordinary foundation		m3	71.83	\$ 5.14	\$ 369.23		m3	71.83	\$ 5.14	\$ 369.23
	Foundation excavation backfilling		m3	10.26	\$ 1.70	\$ 17.45		m3	10.26	\$ 1.70	\$ 17.45
	Sand filling under foundation		m3	10.26	\$ 11.99	\$ 123.04		m3	10.26	\$ 11.99	\$ 123.04
	Stone masonry		m3	28.59	\$ 103.58	\$ 2,961.04		m3	28.59	\$ 112.82	\$ 3,225.19
	Plaster 1PC : 4PS thickness 20mm		m2	190.58	\$ 7.28	\$ 1,387.42		m2	190.58	\$ 6.57	\$ 1,252.11
	Cover Steel type L30X30X3mm-50mm		m1	146.60	\$ 23.51	\$ 3,446.91		kg	197.79	\$ 2.44	\$ 482.61
	Total for Drainagen work					\$ 8,655.08					\$ 5,819.62
V	SECURITY POST										
A	EARTH AND SAND WORK										
1	Bowplank		m1	10.20	\$ 11.03	\$ 112.51		m1	10.20	\$ 11.04	\$ 112.61
2	Excavation for ordinary foundation		m3	10.56	\$ 5.14	\$ 54.28		m3	10.56	\$ 5.14	\$ 54.28
3	Foundation excavation backfilling		m3	2.64	\$ 1.70	\$ 4.49		m3	2.64	\$ 1.70	\$ 4.49
4	Sand filling under foundation		m3	0.66	\$ 11.99	\$ 7.91		m3	0.66	\$ 11.99	\$ 7.91
5	Sand filling under floor		m3	0.48	\$ 11.99	\$ 5.76		m3	0.48	\$ 11.99	\$ 5.76
6	Stone masonry		m3	5.81	\$ 103.58	\$ 601.59		m3	5.81	\$ 112.82	\$ 655.26
	Sub Total					\$ 786.53					\$ 840.30
B	WALL MANSORY WORKS AND PLASTER WORK										
1	Ordinary block wall 40x20x10 cm masonry (1 sand : 4 sand)		m2	36.60	\$ 14.92	\$ 546.07		m2	36.60	\$ 16.92	\$ 619.27
2	Ordinary wall plaster (1 cement : 4 sand) 15 mm thickness		m2	73.20	\$ 5.77	\$ 422.36		m2	73.20	\$ 6.57	\$ 480.92
3	Wall cement render		m2	73.20	\$ 3.27	\$ 239.36		m2	73.20	\$ 3.32	\$ 243.02
4	Bathroom ceramic wall : 20x25 cm for 1st floor		m2	6.60	\$ 22.82	\$ 150.61		m2	6.60	\$ 25.04	\$ 165.26
	Sub Total					\$ 1,358.41					\$ 1,508.48
C	CONCRETE WORKS										
1	Concrete sloof 150x200 mm - K275										
	Concrete K275		m3	0.46	\$ 159.35	\$ 72.66		m3	0.46	\$ 235.18	\$ 107.24
	Reinforced		kg	113.25	\$ 1.59	\$ 180.52		kg	113.25	\$ 1.87	\$ 211.78
	Formwork		m2	6.08	\$ 29.56	\$ 179.72		m2	6.08	\$ 32.69	\$ 198.76
2	Concrete beam ring 150x200 mm - K275										
	Concrete K275		m3	0.46	\$ 159.35	\$ 72.66		m3	0.46	\$ 235.18	\$ 107.24
	Reinforced		kg	113.25	\$ 1.59	\$ 180.52		kg	113.25	\$ 1.87	\$ 211.78
	Formwork		m2	8.36	\$ 50.07	\$ 418.59		m2	8.36	\$ 53.20	\$ 444.75
3	Concrete column 150x200 mm - K275										
	Concrete K275		m3	0.72	\$ 159.35	\$ 114.73		m3	0.72	\$ 235.18	\$ 169.33
	Reinforced		kg	149.20	\$ 1.59	\$ 237.82		kg	149.20	\$ 1.87	\$ 279.00
	Formwork		m2	14.40	\$ 40.50	\$ 583.20		m2	14.40	\$ 43.63	\$ 628.27



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

BILL OF QUANTITY

OWNER COST ESTIMATED

RESULT, ADN, I.P.

ARCHITECTURAL

NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
4	Concrete column 150x400mm - K275								
	Concrete K275	m3	0.18	\$ 159.35	\$ 28.68	m3	0.18	\$ 235.18	\$ 42.33
	Reinforced	kg	39.77	\$ 1.59	\$ 63.39	kg	39.77	\$ 1.87	\$ 74.37
	Formwork	m2	3.30	\$ 40.50	\$ 133.65	m2	3.30	\$ 43.63	\$ 143.98
5	Concrete slab, t = 120 mm - K275								
	Concrete K 275	m3	0.96	\$ 159.35	\$ 152.98	m3	0.96	\$ 235.18	\$ 225.77
6	Concrete roof								
	Concrete K275	m3	0.85	\$ 159.35	\$ 135.96	m3	0.85	\$ 235.18	\$ 200.66
	Reinforced	kg	58.49	\$ 1.59	\$ 93.24	kg	58.49	\$ 1.87	\$ 109.38
	Formwork	m2	7.11	\$ 50.07	\$ 356.00	m2	7.11	\$ 53.20	\$ 378.25
	Sub Total				\$ 3,004.33				\$ 3,532.89
D	FLOOR WORK								
2	Ceramic Tile 400x400mm	m2	8.39	\$ 21.62	\$ 181.39	m2	8.39	\$ 26.87	\$ 225.44
3	Ceramic Tile 200x200mm for toilet	m2	1.21	\$ 22.82	\$ 27.61	m2	1.21	\$ 25.74	\$ 31.15
	Sub Total				\$ 209.00				\$ 256.58
E	DOORS, WINDOWS And VENTILATIONS WORKS								
1	Door type D-1, including all accessories	Unit	1.00	\$ 300.00	\$ 300.00	Unit	1.00	\$ 230.00	\$ 230.00
2	Door type D-2, including all accessories	Unit	1.00	\$ 150.00	\$ 150.00	Unit	1.00	\$ 170.00	\$ 170.00
3	Window type W-1, including all accessories	Unit	1.00	\$ 200.00	\$ 200.00	Unit	1.00	\$ 140.00	\$ 140.00
4	Window type W-2, including all accessories	Unit	1.00	\$ 100.00	\$ 100.00	Unit	1.00	\$ 75.00	\$ 75.00
5	Ventilation type BV-1, including all accessories	Unit	2.00	\$ 80.00	\$ 160.00	Unit	2.00	\$ 65.00	\$ 130.00
	Sub Total				\$ 910.00				\$ 745.00
F	CEILING WORK								
1	Supply and install gypsumboard 9 mm thick,	m2	14.57	\$ 12.38	\$ 180.41	m2	14.57	\$ 12.69	\$ 184.93
2	Supply and install hollow frame 4/4cm	m2	14.57	\$ 14.31	\$ 208.53	m2	14.57	\$ 14.16	\$ 206.35
3	Supply and install ceiling cornice profile ceiling gypsum	m'	14.00	\$ 3.92	\$ 54.88	m'	14.00	\$ 3.94	\$ 55.16
	Sub Total				\$ 443.82				\$ 446.43
G	ROOFING WORKS								
1	RHS 100X50X2mm for trusses	kg	462.52	\$ 3.08	\$ 1,424.57	kg	462.52	\$ 2.44	\$ 1,128.55
2	Purlin Chanel 100x50x2mm	kg	50.46	\$ 1.81	\$ 91.34	kg	50.46	\$ 2.53	\$ 127.67
3	Calsiboard, 6.0 mm	m1	15.40	\$ 16.00	\$ 246.40				
4	Metal Roofing 0.42	m2	21.36	\$ 28.00	\$ 598.08	m2	21.36	\$ 20.26	\$ 432.75
5	Ridge capping. 0.42 mm	m1	10.60	\$ 16.16	\$ 171.30	m1	10.60	\$ 15.47	\$ 163.98
	Sub Total				\$ 2,531.68				\$ 1,852.96
G	ELECTRICAL WORKS								
1	MCB Box 1-Way	Unit	1.00	\$ 3.50	\$ 3.50	Unit	1.00	\$ 3.50	\$ 3.50
2	MCB 6 A 1P	Unit	1.00	\$ 9.63	\$ 9.63	Unit	1.00	\$ 8.58	\$ 8.58
3	Supply and install Dowlight philips lamp 15 watt	Unit	1.00	\$ 10.00	\$ 10.00	Unit	1.00	\$ 14.61	\$ 14.61
4	Supply and install Dowlight philips lamp 7 watt	Unit	1.00	\$ 7.00	\$ 7.00	Unit	1.00	\$ 10.41	\$ 10.41
5	Supply and install single switch lamp good quality	Unit	2.00	\$ 6.00	\$ 12.00	Unit	2.00	\$ 5.15	\$ 10.30
6	Supply and install single Power Outlet good quality	Unit	1.00	\$ 8.00	\$ 8.00	Unit	1.00	\$ 5.67	\$ 5.67
7	Cable NYM 3x1.5 mm + PVC	m1	15.00	\$ 4.50	\$ 67.50	m1	15.00	\$ 3.49	\$ 52.30
8	Cable NYFGBY 3x2.5 mm + PVC	m1	50.00	\$ 6.50	\$ 325.00	m1	50.00	\$ 6.33	\$ 316.25
	Sub Total				\$ 442.63				\$ 421.62
H	SANITATION WORK								
1	Squat closet colour white + accessories	Unit	1.00	\$ 273.46	\$ 273.46	Unit	1.00	\$ 364.31	\$ 364.31
2	Supply and install Floor drain	Unit	1.00	\$ 5.97	\$ 5.97	Unit	1.00	\$ 5.97	\$ 5.97
3	Pipe PVC AW dia 0.5" for cold water pipe instalation	m'	20.00	\$ 2.71	\$ 54.20	m'	20.00	\$ 2.23	\$ 44.60
4	Pipe PVC dia. 3" for waste water pipe instalation	m'	20.00	\$ 10.30	\$ 206.00	m'	20.00	\$ 11.31	\$ 226.20



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR LESTE

BILL OF QUANTITY									
OWNER COST ESTIMATED						RESULT, ADN, I.P.			
ARCHITECTURAL									
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
5	Pipe PVC dia. 4" for water closed pipe instalation	m'	10.00	\$ 13.70	\$ 137.00	m'	10.00	\$ 19.69	\$ 196.90
6	Septictank 1500x1000 mm	Unit	1.00	\$ 1,200.00	\$ 1,200.00	Unit	1.00	\$ 1,200.00	\$ 1,200.00
7	Absorption	Unit	1.00	\$ 600.00	\$ 600.00	Unit	1.00	\$ 300.00	\$ 300.00
	Sub Total				\$ 2,476.63				\$ 2,337.98
I	PAINTING WORK								
1	Wall painting	m2	73.20	\$ 3.46	\$ 253.27	m2	73.20	\$ 3.60	\$ 263.52
2	Ceiling painting	m2	14.57	\$ 3.36	\$ 48.96	m2	14.57	\$ 3.50	\$ 51.00
	Sub Total				\$ 302.24				\$ 314.52
J	SEPTICTANK								
1	Excavation	m3	4.50	\$ 5.91	\$ 26.60	m3	4.50	\$ 5.91	\$ 26.60
2	sand bedding	m3	0.30	\$ 14.13	\$ 4.24	m3	0.30	\$ 11.99	\$ 3.60
3	concrete slab	m3	0.53	\$ 149.21	\$ 79.38	m3	0.53	\$ 225.79	\$ 120.12
4	concrete column								
	Concrete K 175	m3	0.60	\$ 149.21	\$ 89.53	m3	0.60	\$ 225.79	\$ 135.47
	Reinforced	kg	95.99	\$ 1.59	\$ 153.01	kg	95.99	\$ 1.87	\$ 179.50
	Formwork	m2	12.00	\$ 40.50	\$ 486.00	m2	12.00	\$ 43.63	\$ 523.56
5	Concrete for top septictank								
	Concrete K 175	m3	0.53	\$ 149.21	\$ 79.38	m3	0.53	\$ 225.79	\$ 120.12
	Reinforced	kg	43.77	\$ 1.59	\$ 69.76	kg	43.77	\$ 1.87	\$ 81.84
	Formwork	m2	5.32	\$ 50.07	\$ 266.37	m2	5.32	\$ 53.20	\$ 283.02
6	Pipe PVC dia. 4"	m'	6.00	\$ 12.38	\$ 74.28	m'	6.00	\$ 19.69	\$ 118.14
7	Pipe PVC dia. 2"	m'	2.00	\$ 5.05	\$ 10.10	m'	2.00	\$ 8.66	\$ 17.32
8	Tee PVC dia. 4"	Unit	1.00	\$ 19.17	\$ 19.17	Unit	1.00	\$ 13.86	\$ 13.86
9	Tee PVC dia. 2"	Unit	1.00	\$ 5.36	\$ 5.36	Unit	1.00	\$ 3.30	\$ 3.30
10	Ordinary block wall masonry 40x20x10 cm (1 cement : 4 sand)	m2	37.29	\$ 13.42	\$ 500.43	m2	37.29	\$ 16.92	\$ 630.95
11	Ordinary wall plaster (1 cement : 4 sand)	m2	37.29	\$ 4.94	\$ 184.21	m2	37.29	\$ 6.57	\$ 245.00
12	Wall Cement render	m2	37.29	\$ 3.21	\$ 119.70	m2	37.29	\$ 3.32	\$ 123.80
	Sub Total				\$ 2,167.52				\$ 2,626.20
	Total for Security Post one unit				\$ 14,632.79				\$ 15,215.97
	Total for Security Post two unit				\$ 29,265.58				\$ 30,431.95
	Total for LANDSCAPE				\$ 127,718.72				\$ 126,358.80



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

(2)

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA ERMERA (HATULIA B)
 PROJECT LOCATION : HATULIA B, ERMERA, TIMOR LESTE

SUMMARY

NO	DESCRIPTION OF WORKS	PURPOSED BY OWNER	VERIFIED BY ADN, I.P
		AMOUNT (\$)	AMOUNT (\$)
I	PREPARATION WORKS	\$ 41.520,26	\$ 39.274,60
II	MAIN BUILDING		
	- ARCHITECTURAL WORK	\$ 116.014,75	\$ 105.979,70
	- STRUCTURAL WORK	\$ 137.469,03	\$ 153.301,91
	- PLUMBING WORK	\$ 18.779,10	\$ 17.635,63
	- ELECTRICAL WORK	\$ 54.900,27	\$ 53.934,07
	- AIR CONDITIONING (AC) WORK	\$ 5.938,37	\$ 6.969,88
	- CCTV WORK	\$ 4.257,51	\$ 3.802,27
	- FIRE ALARM WORK	\$ 3.692,61	\$ 3.692,61
	- FIRE PROTECTION WORK	\$ 225,00	\$ 225,00
	- SOUND SYSTEM WORK	\$ 3.589,32	\$ 4.187,99
	- LIGHTNING PROTECTION WORK	\$ 2.508,55	\$ 2.470,55
	- TELEPHONE WORK	\$ 23.467,40	\$ 2.382,89
	- LAN/DATA WORK	\$ 2.189,86	\$ 3.633,89
III	LANDSCAPE WORK	\$ 125.792,55	\$ 128.445,58
A	TOTAL CONSTRUCTION COST	\$ 540.344,58	\$ 525.936,58
B	CONTRACTOR FEE (10% x A)	\$ 54.034,46	\$ 52.593,66
C	OVERHEAD	\$ 22.500,00	\$ 12.527,00
D	TAX (2% x (A+B+C))	\$ 12.337,58	\$ 11.821,14
E	CONTINGENCY (10 % * A)	\$ 54.034,46	\$ 52.593,66
F	TOTAL (A+B+C+D+E)	\$ 683.251,08	\$ 655.472,04

Verified by :

Francisca da Costa Ximenes
 Engineering UAP ADN.I.P

Olivio Marcos D.S. Correia
 Electrical Engineering UAP ADN.I.P

Joaniito Doutel Pereira
 Assessor Técnico UAP ADN.I.P

Elvis Ferreira Soares
 ICT Engineering UAP ADN.I.P

Checked by :

Johnates Hornay
 Chefe Departamento do EPMEITCM ADN.I.P

Certified by :

Arch. José Fernando Liu Soares
 Coordenador do UAP ADN.I.P

19/3/25



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

SUMMARY

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA MANATUTO (LACLO)
 PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

NO	DESCRIPTION OF WORKS	PROPOST		VERIFIED BY A D N.I.P
		AMOUNT (\$)	AMOUNT (\$)	AMOUNT (\$)
I	PREPARATION WORKS	\$ 27,975.49	\$ 27,030.45	
II	MAIN BUILDING			
	- ARCHITECTURAL WORK	\$ 117,616.97	\$ 96,429.17	
	- STRUCTURAL WORK	\$ 139,174.64	\$ 148,646.83	
	- PLUMBING WORK	\$ 18,816.70	\$ 21,847.00	
	- ELECTRICAL WORK	\$ 54,900.27	\$ 53,934.07	
	- AIR CONDITIONING (AC) WORK	\$ 5,938.37	\$ 26,912.08	
	- CCTV WORK	\$ 4,257.51	\$ 3,802.27	
	- FIRE ALARM WORK	\$ 3,239.61	\$ 3,239.61	
	- FIRE PROTECTION WORK	\$ 225.00	\$ 225.00	
	- SOUND SYSTEM WORK	\$ 3,589.32	\$ 4,187.99	
	- LIGHTNING PROTECTION WORK	\$ 2,508.55	\$ 2,470.55	
	- TELEPHONE WORK	\$ 23,467.40	\$ 2,382.89	
	- LAN/DATA WORK	\$ 2,189.86	\$ 3,633.89	
III	LANDSCAPE WORK	\$ 124,353.87	\$ 113,033.06	
A	TOTAL CONSTRUCTION COST	\$ 528,253.56	\$ 507,774.86	
B	CONTRACTOR FEE (10% x A)	\$ 52,825.36	\$ 50,777.49	
C	OVERHEAD	\$ 22,500.00	\$ 12,527.00	
D	CONTINGENCY (10 % * A)		\$ 50,777.49	
D	TAX (2% x (A+B+C+D))	\$ 12,071.58	\$ 12,437.14	
E	CONTINGENCY (10 % * A)	\$ 52,825.36		
G	TOTAL (A+B+C+D+E+F)	\$ 668,475.85	\$ 634,293.97	

Verified by :

(Oscar M. Gomes)
 Civil Engineer ADN, I.P.

(Olivio Marcos S. Coreia)
 Electrical Engineer ADN, I.P.

(Elvis Rereira Soares)
 Técnico IT

Checked By :

(Johannes Hornay)
 chefe do Departamento de Edifícios Públicos DAP - 2

(Joaoito Dourel Pereira)
 Nacional Adviser, ADN-IP

Certified By :

(Eng. Jose Fernando Liu Soares)
 Coord. Unidade de Avaliação de projeto



AGÉNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR
PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA MANATUTO (LACLO)
PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

OVERHEAD

NO	DESCRIPTION OF WORKS	PROPOST BY OWNER				VERIFIED BY ADN.I.P			
		UNIT	VOLUME	UNIT PRICE (\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (\$)	AMOUNT (\$)
1	Contractor project team	month	12.00	\$ 1,000.00	\$ 12,000.00	months	12.00	\$ 500.00	\$ 6,000.00
2	Safety equipment and first AID equipment	unit	2.00	\$ 500.00	\$ 1,000.00	unit	1.00	\$ 500.00	\$ 500.00
3	Material sampling and testing	sheet	5.00	\$ 1,000.00	\$ 5,000.00	ls	1.00	\$ 1,827.00	\$ 1,827.00
4	Project report and documentation	month	12.00	\$ 50.00	\$ 600.00	ls	1.00	\$ 300.00	\$ 300.00
5	Contractor site security 2 Person	month	12.00	\$ 300.00	\$ 3,600.00	ls	1.00	\$ 3,600.00	\$ 3,600.00
6	As build drawing	sheet	1.00	\$ 300.00	\$ 300.00	sheet	1.00	\$ 300.00	\$ 300.00
TOTAL						\$ 22,500.00			\$ 12,527.00



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

DETAIL - COST ESTIMATION

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA MANATUTO (LACLO)
 PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

PREPARATION WORK

NO	DESCRIPTION OF WORKS	PROPOST BY OWNER				VERIFIED BY ADN.IP			
		UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
A	GENERAL WORKS								
1	Mobilization and Demobilization	Ls	1.00	\$ 300.00	\$ 300.00	Ls	1.00	\$ 500.00	\$ 500.00
2	Site cleaning and demolishing existing building include carry out the debris out from project site	m2	1690.50	\$ 1.40	\$ 2,366.70	m2	1,690.50	\$ 1.40	\$ 2,366.70
3	Site office and storage	m2	48.00	\$ 50.00	\$ 2,400.00	Ls	1.00	\$ 2,000.00	\$ 2,000.00
4	Mess for labour	m2	48.00	\$ 50.00	\$ 2,400.00	m2	48.00	\$ 50.00	\$ 2,400.00
5	Temporary fence	m'	177.00	\$ 12.72	\$ 2,251.44	m'	177.00	\$ 13.03	\$ 2,306.31
6	Water and electrical supply for works	Ls	1.00	\$ 2,000.00	\$ 2,000.00	Ls	1.00	\$ 1,200.00	\$ 1,200.00
7	Information Board project	unit	1.00	\$ 79.26	\$ 79.26	unit	1.00	\$ 79.35	\$ 79.35
	Sub Total				\$ 11,797.40				\$ 10,852.36
B	SOIL STABILIZATION WORK								
1	Selected material filling and compaction using mechanical equipment	m3	1690.50	\$ 9.57	\$ 16,178.09	m3	1,690.50	\$ 9.57	\$ 16,178.09
	Sub Total				\$ 16,178.09				\$ 16,178.09
	GRAND TOTAL				\$ 27,975.49				\$ 27,030.45



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

DETAIL - COST ESTIMATION

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA MANATUTO (LACLO)
 PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

ARCHITECTURAL WORK

NO	DESCRIPTION OF WORKS	PROPOST BY OWNER				VERIFIED BY ADN.I.P			
		UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
A	EARTH WORK								
1	Excavation for ordinary foundation	m3	114.54	\$ 5.91	\$ 676.96	m3	114.54	\$ 5.91	\$ 676.96
2	Foundation back filling	m3	229.09	\$ 1.70	\$ 389.45	m3	229.09	\$ 1.70	\$ 389.45
3	Sand filling under foundation and tie beam 50 mm	m3	4.46	\$ 14.13	\$ 63.02	m3	4.46	\$ 20.00	\$ 89.20
4	Sand filling under floor 50mm	m3	19.20	\$ 14.13	\$ 271.30	m3	19.20	\$ 20.00	\$ 384.00
5	Soil fill for levelling floor 150mm	m3	57.60	\$ 11.73	\$ 675.65	m3	57.60	\$ 8.29	\$ 477.50
	Sub Total				\$ 2,076.37				\$ 2,017.11
B	WALL MASONRY AND RENDER WORK								
1	Stone masonry work (1 cement : 4 sand)	m3	3.19	\$ 80.50	\$ 256.47	m3	3.19	\$ 70.45	\$ 224.45
3	Ordinary block wall masonry 40x20x10 cm (1 cement : 4 sand) for 1st floor	m2	883.51	\$ 14.04	\$ 12,404.41	m2	883.51	\$ 13.36	\$ 11,803.63
4	Ordinary wall plaster (1 cement : 4 sand) for 1st floor	m2	1767.01	\$ 5.28	\$ 9,329.81	m2	1,767.01	\$ 5.14	\$ 9,082.43
5	Cement render for /Acian	m2	1767.01	\$ 3.28	\$ 5,795.79	m2	1,767.01	\$ 3.26	\$ 5,760.45
6	Interior wall furniture for sala resepsau and sala encontro meza 2.5 x 1.1 x 1.5 MEZA 2.5X1.5 kadeira roda/metan	ls	1.00	\$ 7,000.00	\$ 7,000.00	unit	1.00	\$ 1,511.45	\$ 1,511.45
						unit	1.00	\$ 1,187.18	\$ 1,187.18
						unit	12.00	\$ 89.00	\$ 1,068.00
	kadeira besi/azul					unit	100.00	\$ 28.00	\$ 2,800.00
	transportation for furniture					ls	1.00	\$ 313.21	\$ 313.21
7	Granite wall : 60x60 cm for Toilet	m2	94.40	\$ 56.13	\$ 5,298.67	m2	94.40	\$ 27.54	\$ 2,599.78
8	Pantry granite wall : 60x60 cm	m2	2.40	\$ 56.13	\$ 134.71	m2	2.40	\$ 27.54	\$ 66.10
9	Granite wall external : 60x60 cm	m2	63.75	\$ 56.13	\$ 3,578.29	m2	63.75	\$ 27.54	\$ 1,755.68
10	Natural stone wall 30x15 cm	m2	24.00	\$ 58.06	\$ 1,393.44	m2	24.00	\$ 63.66	\$ 1,527.84
11	Stair hand railing,	kg	179.11	\$ 1.95	\$ 349.26	kg	179.11	\$ 2.20	\$ 394.03
12	Department logo with copper text and accessories	unit	3.00	\$ 500.00	\$ 1,500.00	unit	3.00	\$ 180.00	\$ 540.00
13	Concrete ornament for listplank	m1	94.00	\$ 57.74	\$ 5,427.56	m1	94.00	\$ 41.20	\$ 3,872.80
	Sub Total				\$ 52,468.42				\$ 44,507.02
C	FLOOR WORK								
1	Granite Tile : 60x60 cm G1.G2.G3	m2	342.61	\$ 56.13	\$ 19,230.70	m2	342.61	\$ 27.54	\$ 9,435.48
2	Bathroom floor granite : 40x40 cm G4	m2	37.75	\$ 43.05	\$ 1,625.14	m2	37.75	\$ 11.97	\$ 451.87
4	Pantry ceramic table : 30x30 cm	m2	2.40	\$ 18.45	\$ 44.28	m2	2.40	\$ 18.45	\$ 44.28
5	Ceramic plint : 10x60 cm	m1	312.25	\$ 4.83	\$ 1,508.17	m1	312.25	\$ 3.12	\$ 974.22
6	Water proofing for floor plate	m2	328.00	\$ 8.00	\$ 2,624.00	m2	328.00	\$ 6.30	\$ 2,066.40
	Sub Total				\$ 25,032.28				\$ 12,972.25
D	CEILING WORK								
1	Ceiling frame hollow 40/40mm 20/20mm	m2	366.00	\$ 13.44	\$ 4,919.04	m2	366.00	\$ 13.04	\$ 4,772.64
2	Ceiling gypsum 9mm	m2	328.25	\$ 11.75	\$ 3,856.94	m2	328.25	\$ 12.02	\$ 3,945.57
3	Ceiling PVC	m2	37.75	\$ 10.00	\$ 377.50	m2	37.75	\$ 13.19	\$ 497.92
4	Supply and install ceiling cornice profile ceiling gypsum	m1	337.05	\$ 3.60	\$ 1,213.38	m1	337.05	\$ 3.60	\$ 1,213.38
	Sub Total				\$ 10,366.86				\$ 10,429.51
E	DOOR, WINDOW AND VENTILATION WORK (Material Brown Alumunium)								
1	Door type D-1, including all accessories	unit	1.00	\$ 800.00	\$ 800.00	unit	1.00	\$ 525.00	\$ 525.00
2	Door type D-2, including all accessories	unit	2.00	\$ 500.00	\$ 1,000.00	unit	2.00	\$ 485.00	\$ 970.00
3	Door type D-3, including all accessories	unit	1.00	\$ 300.00	\$ 300.00	unit	1.00	\$ 250.00	\$ 250.00
4	Door type D-4, including all accessories	unit	2.00	\$ 300.00	\$ 600.00	unit	2.00	\$ 250.00	\$ 500.00
5	Door type D-5, including all accessories	unit	3.00	\$ 225.00	\$ 675.00	unit	3.00	\$ 250.00	\$ 750.00
6	Door type D-6, including all accessories	unit	1.00	\$ 225.00	\$ 225.00	unit	1.00	\$ 250.00	\$ 250.00
7	Door type D-7, including all accessories	unit	5.00	\$ 275.00	\$ 1,375.00	unit	5.00	\$ 250.00	\$ 1,250.00
8	Door type D-8, including all accessories	unit	4.00	\$ 275.00	\$ 1,100.00	unit	4.00	\$ 250.00	\$ 1,000.00
9	Door type D-9, including all accessories	unit	1.00	\$ 250.00	\$ 250.00	unit	1.00	\$ 230.00	\$ 230.00
10	Door type D-10, including all accessories	unit	6.00	\$ 200.00	\$ 1,200.00	unit	6.00	\$ 230.00	\$ 1,380.00
12	Door type D-11, including all accessories	unit	8.00	\$ 200.00	\$ 1,600.00	unit	8.00	\$ 200.00	\$ 1,600.00
13	Door type DW-1, including all accessories	unit	1.00	\$ 1,500.00	\$ 1,500.00	unit	1.00	\$ 678.00	\$ 678.00
14	Door type DW-2, including all accessories (Material Square Hollow Steel)	unit	1.00	\$ 800.00	\$ 800.00	unit	1.00	\$ 800.00	\$ 800.00
15	Door type DW-3, including all accessories (Material Square Hollow Steel)	unit	1.00	\$ 800.00	\$ 800.00	unit	1.00	\$ 800.00	\$ 800.00
16	Window type W-1, including all accessories	unit	4.00	\$ 175.00	\$ 700.00	unit	4.00	\$ 117.50	\$ 470.00
17	Window type W-2, including all accessories	unit	2.00	\$ 250.00	\$ 500.00	unit	2.00	\$ 145.00	\$ 290.00
18	Window type W-3, including all accessories	unit	4.00	\$ 250.00	\$ 1,000.00	unit	4.00	\$ 154.00	\$ 616.00
19	Window type W-4, including all accessories	unit	2.00	\$ 275.00	\$ 550.00	unit	2.00	\$ 138.85	\$ 277.70
20	Window type W-5, including all accessories	unit	2.00	\$ 450.00	\$ 900.00	unit	2.00	\$ 295.00	\$ 590.00
21	Ventilation type BV-1, including all accessories	unit	3.00	\$ 125.00	\$ 375.00	unit	3.00	\$ 75.00	\$ 225.00
22	Ventilation type BV-2, including all accessories	unit	4.00	\$ 50.00	\$ 200.00	unit	4.00	\$ 50.00	\$ 200.00



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

DETAIL - COST ESTIMATION

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA MANATUTO (LACLO)
 PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

ARCHITECTURAL WORK

NO	DESCRIPTION OF WORKS	PROPOST BY OWNER				VERIFIED BY ADN.I.P			
		UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
23	Ventilation type BV-3, including all accessories		4.00	\$ 75.00	\$ 300.00		4.00	\$ 75.00	\$ 300.00
	F ROOF AND CEILING WORK	Sub Total			\$ 16,750.00				\$ 13,951.70
1	Metal Roofing, 0.42 mm	m2	132.62	\$ 18.24	\$ 2,418.95	m2	132.62	\$ 18.46	\$ 2,448.13
2	Colourbond custom orb" 0.42 mm rooftop capping	m1	24.00	\$ 14.31	\$ 343.44	m1	24.00	\$ 14.26	\$ 342.24
3	Gutter roof Colourbond 0.42 mm include frame	m1	38.00	\$ 13.52	\$ 513.76	m1	38.00	\$ 13.52	\$ 513.76
4	Supply and install Lisplank GRC Board 200(x2)x10mm	m1	38.00	\$ 14.31	\$ 543.78	m1	38.00	\$ 14.26	\$ 541.88
	G PAINT WORK	Sub Total			\$ 3,819.93				\$ 3,846.01
1	Interior wall painting	m2	1447.01	\$ 3.34	\$ 4,833.01	m2	1,447.01	\$ 3.46	\$ 5,006.65
2	Exterior wall painting with weather bond type painting	m2	320.00	\$ 3.75	\$ 1,200.00	m2	320.00	\$ 8.09	\$ 2,589.44
3	Ceiling painting	m2	328.25	\$ 3.26	\$ 1,070.10	m2	328.25	\$ 3.38	\$ 1,109.49
	TOTAL ARCHITECTURAL WORK	Sub Total			\$ 7,103.11				\$ 8,705.58
					\$ 117,616.97				\$ 96,429.17



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

DETAIL - COST ESTIMATION

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA MANATUTO (LACLO)
 PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

STRUCTURAL WORK

NO	DESCRIPTION OF WORKS	PROPOST BY OWNER				VERIFIED BY ADN.I.P			
		UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
A	CONCRETE WORKS								
1	Foundation Sub Structure								
2	Lean Concrete , t = 10 cm - K125	m3	4.05	\$ 127.03	\$ 514.87	m3	4.05	\$ 117.47	\$ 476.12
3	Concrete foot plate 01, (800x800x250mm)	Concrete K 275	6.56	\$ 148.51	\$ 974.23	m3	6.56	\$ 130.43	\$ 855.62
		Reinforced kg	972.19	\$ 1.45	\$ 1,406.76	kg	972.19	\$ 1.66	\$ 1,612.87
		Formwork m2	32.80	\$ 18.03	\$ 591.38	m2	32.80	\$ 18.03	\$ 591.38
	Concrete foot plate 02, (600x600x250mm)	Concrete K 275	0.54	\$ 148.51	\$ 80.20	m3	0.54	\$ 130.43	\$ 70.43
		Reinforced kg	116.69	\$ 1.45	\$ 168.85	kg	116.69	\$ 1.66	\$ 193.59
		Formwork m2	3.60	\$ 18.03	\$ 64.91	m2	3.60	\$ 18.03	\$ 64.91
4	Concrete Padestal - K300	Concrete K 275	3.54	\$ 148.51	\$ 525.28	m3	3.54	\$ 130.43	\$ 461.33
		Reinforced kg	848.75	\$ 1.45	\$ 1,228.15	kg	848.75	\$ 1.66	\$ 1,408.08
		Formwork m2	48.60	\$ 36.59	\$ 1,778.27	m2	48.60	\$ 18.03	\$ 876.26
5	Concrete tie beam, 200x300mm	Concrete K 275	12.64	\$ 148.51	\$ 1,877.02	m3	12.64	\$ 130.43	\$ 1,648.50
		Reinforced kg	2688.40	\$ 1.45	\$ 3,890.11	kg	2688.40	\$ 1.66	\$ 4,460.05
6	Concrete ground beam - K300	Concrete K 275	126.39	\$ 26.78	\$ 3,384.72	m2	126.39	\$ 47.71	\$ 6,030.07
		Reinforced kg	4695.29	\$ 1.45	\$ 6,794.08	kg	4695.29	\$ 1.66	\$ 7,789.48
		Formwork m2	220.74	\$ 26.78	\$ 5,911.42	m2	220.74	\$ 29.52	\$ 6,516.24
7	Concrete ground floor, t = 10 cm - K175 elev ±0.00	Concrete K 175	38.40	\$ 130.08	\$ 4,995.07	m3	38.40	\$ 120.59	\$ 4,630.66
		Reinforced kg	3033.60	\$ 1.45	\$ 4,389.62	kg	3033.60	\$ 1.66	\$ 5,032.74
8	Concrete Column C1, (300x300mm)	Concrete K 275	15.87	\$ 148.51	\$ 2,356.41	m3	15.87	\$ 130.43	\$ 2,069.53
		Reinforced kg	2424.05	\$ 1.45	\$ 3,507.61	kg	2424.05	\$ 1.66	\$ 4,021.51
		Formwork m2	211.56	\$ 36.59	\$ 7,740.98	m2	211.56	\$ 39.33	\$ 8,320.65
9	Concrete Column C2, (200x200mm)	Concrete K 275	2.43	\$ 148.51	\$ 361.18	m3	2.43	\$ 130.43	\$ 317.21
		Reinforced kg	326.09	\$ 1.45	\$ 471.85	kg	326.09	\$ 1.66	\$ 540.98
		Formwork m2	48.64	\$ 36.59	\$ 1,779.74	m2	48.64	\$ 39.33	\$ 1,913.01
10	Concrete Column C3, (150x150mm)	Concrete K 275	7.58	\$ 148.51	\$ 1,126.30	m3	7.58	\$ 130.43	\$ 989.18
		Reinforced kg	1023.33	\$ 1.45	\$ 1,480.76	kg	1023.33	\$ 1.66	\$ 1,697.71
		Formwork m2	101.12	\$ 36.59	\$ 3,699.98	m2	101.12	\$ 39.33	\$ 3,977.05
11	Ring Balok, 200x100mm	Concrete K 275	5.84	\$ 148.51	\$ 867.00	m3	5.84	\$ 130.43	\$ 761.45
		Reinforced kg	1104.74	\$ 1.45	\$ 1,598.56	kg	1104.74	\$ 1.66	\$ 1,832.77
		Formwork m2	116.76	\$ 44.97	\$ 5,250.70	m2	116.76	\$ 47.71	\$ 5,570.62
12	Concrete Consol - K300	Concrete K 275	1.82	\$ 148.51	\$ 269.55	m3	1.82	\$ 130.43	\$ 236.73
		Reinforced kg	173.17	\$ 1.45	\$ 250.58	kg	173.17	\$ 1.66	\$ 287.29
13	Concrete Beam B2 - K300	Concrete K 275	14.00	\$ 44.97	\$ 629.58	m2	14.00	\$ 39.33	\$ 550.62
		Reinforced kg	4114.53	\$ 1.45	\$ 5,953.72	kg	4114.53	\$ 1.66	\$ 6,826.01
		Formwork m2	255.15	\$ 44.97	\$ 11,474.10	m2	255.15	\$ 47.71	\$ 12,173.21
14	Concrete Beam B3 - K300	Concrete K 300	2.85	\$ 148.51	\$ 423.25	m3	2.85	\$ 130.43	\$ 371.73
		Reinforced kg	541.37	\$ 1.45	\$ 783.37	kg	541.37	\$ 1.66	\$ 898.14
15	Concrete Beam B4 - K300	Concrete K 275	45.60	\$ 44.97	\$ 2,050.63	m2	45.60	\$ 47.71	\$ 2,175.58
		Reinforced kg	408.44	\$ 1.45	\$ 591.02	kg	408.44	\$ 1.66	\$ 677.61
		Formwork m2	55.50	\$ 44.97	\$ 2,495.61	m2	55.50	\$ 47.71	\$ 2,647.67
16	Concrete plate and roof, t = 120 mm - K175 for elev ±4.00	Concrete K 175	26.42	\$ 130.08	\$ 3,437.23	m3	26.42	\$ 120.59	\$ 3,186.47
		Reinforced kg	2173.81	\$ 1.45	\$ 3,145.51	kg	2173.81	\$ 1.66	\$ 3,606.36
		Formwork m2	220.20	\$ 44.97	\$ 9,902.39	m2	220.20	\$ 47.71	\$ 10,505.74
17	Concrete plate and roof, t = 120 mm - K175 for elev ±4.500 ± 5.00	Concrete K 175	8.40	\$ 130.08	\$ 1,092.67	m3	8.40	\$ 120.59	\$ 1,012.96
		Reinforced kg	1036.56	\$ 1.45	\$ 1,499.90	kg	1036.56	\$ 1.66	\$ 1,719.65
		Formwork m2	70.00	\$ 44.97	\$ 3,147.90	m2	70.00	\$ 47.71	\$ 3,339.70
18	Concrete table, t = 100 mm - K175	Concrete K 175	0.24	\$ 130.08	\$ 31.22	m3	0.24	\$ 120.59	\$ 28.94



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

DETAIL - COST ESTIMATION

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA MANATUTO (LACLO)
 PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

STRUCTURAL WORK

NO	DESCRIPTION OF WORKS	PROPOST BY OWNER				VERIFIED BY ADN.I.P			
		UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
19	Concrete For Armory Room	Reinforced kg	23.69	\$ 1.45	\$ 34.28	kg	23.69	\$ 1.66	\$ 39.31
		Formwork m ²	2.40	\$ 44.97	\$ 107.93	m ²	2.40	\$ 47.71	\$ 114.50
		Concrete K 275 m ³	16.06	\$ 148.51	\$ 2,385.07	m ³	16.06	\$ 130.43	\$ 2,094.71
		Reinforced kg	835.12	\$ 1.45	\$ 1,208.42	kg	835.12	\$ 1.66	\$ 1,385.46
		Formwork m ²	80.30	\$ 44.97	\$ 3,611.09	m ²	80.30	\$ 47.71	\$ 3,831.11
		Sub Total			\$ 130,015.96				\$ 138,301.80
B	ROOFING WORK								
1	Steel plate 300x300x12 mm	kg	33.23	\$ 3.26	\$ 108.34	kg	33.23	\$ 2.20	\$ 73.11
2	Anchor bolt d16mm	kg	30.34	\$ 1.45	\$ 43.90	kg	30.34	\$ 1.66	\$ 50.33
3	Steel frame, type WF 200x100x5.5x8 mm for trusses	kg	777.02	\$ 3.26	\$ 2,533.10	kg	777.02	\$ 3.65	\$ 2,836.14
4	Steel frame, type WF 150x75x5x7 mm for trusses	kg	1282.40	\$ 3.26	\$ 4,180.62	kg	1282.40	\$ 3.65	\$ 4,680.76
5	Steel frame, type WF 300x270x8x12 mm for trusses	kg	119.38	\$ 3.26	\$ 389.18	kg	119.38	\$ 3.65	\$ 435.74
6	Steel profile type C 150x50x20x3.2 mm for purlin	kg	816.10	\$ 1.65	\$ 1,346.56	kg	816.10	\$ 2.24	\$ 1,828.06
7	Steel bar d10mm for bracing purlin	kg	17.28	\$ 1.45	\$ 25.00	kg	17.28	\$ 1.66	\$ 28.66
8	Steel plate 150x150x10 mm	kg	127.17	\$ 3.26	\$ 414.57	kg	127.17	\$ 2.20	\$ 279.77
9	Steel L 30x30x3 mm	kg	60.21	\$ 1.95	\$ 117.41	kg	60.21	\$ 2.20	\$ 132.46
		Sub Total			\$ 9,158.68				\$ 10,345.03
		TOTAL STRUCTURAL WORK			\$ 139,174.64				\$ 148,646.83



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

DETAIL - COST ESTIMATION

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA MANATUTO (LACLO)
 PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

MEP

NO	DESCRIPTION OF WORKS	PROPOST BY OWNER				VERIFIED BY ADN.I.P			
		UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
A	PLUMBING WORK								
	1st WASTE WATER PIPE installation								
1	Pipe PVC Ø 4 inch	M1	60.00	\$ 12.38	\$ 742.80	M1	60.00	\$ 17.62	\$ 1,057.20
2	Pipe PVC Ø 2 inch	M1	30.00	\$ 9.40	\$ 282.00	M1	30.00	\$ 7.75	\$ 232.50
3	pipe pvc elbow 4 inch	pcs	8.00	\$ 19.17	\$ 153.36	pcs	8.00	\$ 22.85	\$ 182.80
4	pipe pvc elbow 2 inch	pcs	4.00	\$ 8.00	\$ 32.00	pcs	4.00	\$ 6.14	\$ 24.56
5	pipe pvc TEE 4 inch	pcs	5.00	\$ 19.17	\$ 95.85	pcs	5.00	\$ 11.03	\$ 55.13
6	pipe pvc TEE 2 inch	pcs	3.00	\$ 8.00	\$ 24.00	pcs	3.00	\$ 2.63	\$ 7.88
7	pipe Reduzer 4-2 inch	pcs	11.00	\$ 10.00	\$ 110.00	pcs	11.00	\$ 3.68	\$ 40.43
8	Floor drain stainless	pcs	16.00	\$ 5.41	\$ 86.56	pcs	16.00	\$ 5.41	\$ 86.56
9	Supply and install seat closet complete with accessories	unit	8.00	\$ 242.71	\$ 1,941.68	unit	8.00	\$ 322.20	\$ 2,577.60
10	Supply and install squad closet complete with accessories	unit	2.00	\$ 72.32	\$ 144.64	unit	2.00	\$ 75.31	\$ 150.62
11	Supply and install wastafel complete with accessories	unit	6.00	\$ 167.46	\$ 1,004.76	unit	6.00	\$ 104.46	\$ 626.76
12	Supply and install urinoir complete with accessories	unit	1.00	\$ 262.50	\$ 262.50	unit	1.00	\$ 315.07	\$ 315.07
13	Supply and install double bowl kitchen sink complete with accessories	unit	1.00	\$ 450.00	\$ 450.00	unit	1.00	\$ 155.16	\$ 155.16
	RAIN WATER installation								
14	Pipe PVC Ø 6 inch	M1	40.00	\$ 18.00	\$ 720.00	M1	40.00	\$ 20.48	\$ 819.00
15	Pipe PVC Ø 4 inch	M1	80.00	\$ 12.38	\$ 990.40	M1	80.00	\$ 17.62	\$ 1,409.60
	2nd COLD WATER PIPE installation								
16	pvc pipe elbow 1/2 inch	pcs	2.00	\$ 5.00	\$ 10.00	pcs	2.00	\$ 0.33	\$ 0.66
17	pvc pipe elbow 1 inch	pcs	7.00	\$ 6.00	\$ 42.00	pcs	7.00	\$ 6.00	\$ 42.00
18	pvc pipe TEE 1 inch	pcs	16.00	\$ 5.00	\$ 80.00	pcs	16.00	\$ 5.00	\$ 80.00
19	pipe Reduzer 1-1/2 inch	pcs	16.00			pcs	16.00	\$ 3.75	\$ 60.00
20	Pipe PVC 1 inch	M1	60.00	\$ 2.98	\$ 178.80	M1	60.00	\$ 2.98	\$ 178.80
21	Pipe PVC Ø 1/2 inch	M1	20.00	\$ 2.53	\$ 50.60	M1	20.00	\$ 2.11	\$ 42.20
22	Gate valve Ø 25 mm	pcs	3.00	\$ 26.00	\$ 78.00	pcs	3.00	\$ 26.00	\$ 78.00
23	Supply and Install Water Faucet	pcs	18.00	\$ 5.42	\$ 97.56	pcs	18.00	\$ 7.26	\$ 130.68
	WLC + Installation Cable Control								
24	WLC + installation cable control	lot	1.00	\$ 20.00	\$ 20.00	lot	1.00	\$ 20.00	\$ 20.00
25	Distribution pump cold water Pacaged (1 unit pump)	SET	1.00	\$ 250.00	\$ 250.00	SET	1.00	\$ 250.00	\$ 250.00
	TORRE								
27	Foot Plate, 800x800x350mm								
	Concrete 24 Mpa	m3	0.90	\$ 140.47	\$ 125.86	m3	0.90	\$ 130.43	\$ 116.87
	Reinforced D16mm	Kg	50.50	\$ 1.45	\$ 73.07	Kg	50.50	\$ 1.66	\$ 83.77
	Formwork	m2	1.60	\$ 18.03	\$ 28.85	m2	1.60	\$ 18.03	\$ 28.85
28	Tei Beam, 200x350x250mm								
	Concrete 24 Mpa	m3	0.70	\$ 140.47	\$ 98.33	m3	0.70	\$ 130.43	\$ 91.30
	Reinforced D16mm	Kg	126.24	\$ 1.45	\$ 182.67	Kg	126.24	\$ 1.66	\$ 209.43
	Reinforced Ø8mm	Kg	21.76	\$ 1.45	\$ 31.49	Kg	21.76	\$ 1.66	\$ 36.10
	Formwork	m2	3.50	\$ 44.97	\$ 157.40	m2	3.50	\$ 47.71	\$ 166.99
29	Sloof, 200x300x250mm								
	Concrete 24 Mpa	m3	0.60	\$ 140.47	\$ 84.28	m3	0.60	\$ 130.43	\$ 78.26
	Reinforced D16mm	Kg	126.24	\$ 1.45	\$ 182.67	Kg	126.24	\$ 1.66	\$ 209.43
	Reinforced Ø8mm	Kg	32.00	\$ 1.45	\$ 46.30	Kg	32.00	\$ 1.66	\$ 53.09
	Formwork	m2	9.00	\$ 26.78	\$ 241.02	m2	9.00	\$ 29.52	\$ 265.68
30	Beam 1 (250x450x250mm)								
	Concrete 24 Mpa	m3	1.13	\$ 140.47	\$ 158.03	m3	1.13	\$ 130.43	\$ 146.73
	Reinforced D16mm	Kg	157.80	\$ 1.45	\$ 228.34	Kg	157.80	\$ 1.66	\$ 261.79
	Reinforced Ø8mm	Kg	32.00	\$ 1.45	\$ 46.30	Kg	32.00	\$ 1.66	\$ 53.09
	Formwork	m2	12.50	\$ 44.97	\$ 562.13	m2	12.50	\$ 47.71	\$ 596.38
31	Beam 2 (250x450x250mm)								
	Concrete 24 Mpa	m3	1.13	\$ 140.47	\$ 158.03	m3	1.13	\$ 130.43	\$ 146.73
	Reinforced D16mm	Kg	157.80	\$ 1.45	\$ 228.34	Kg	157.80	\$ 1.66	\$ 261.79
	Reinforced Ø8mm	Kg	32.00	\$ 1.45	\$ 46.30	Kg	32.00	\$ 1.66	\$ 53.09
	Formwork	m2	12.50	\$ 44.97	\$ 562.13	m2	12.50	\$ 47.71	\$ 596.38
32	Beam 3 (200x300x250mm)								
	Concrete 24 Mpa	m3	0.30	\$ 140.47	\$ 42.14	m3	0.30	\$ 130.43	\$ 39.13
	Reinforced D16mm	Kg	63.12	\$ 1.45	\$ 91.33	Kg	63.12	\$ 1.66	\$ 104.72
	Reinforced Ø8mm	Kg	16.00	\$ 1.45	\$ 23.15	Kg	16.00	\$ 1.66	\$ 26.54
	Formwork	m2	4.50	\$ 44.97	\$ 202.37	m2	4.50	\$ 47.71	\$ 214.70
33	Finish Floor Concrete								
	Concrete 24 Mpa	m3	0.31	\$ 140.47	\$ 43.90	m3	0.31	\$ 130.43	\$ 40.76
	Formwork	m2	1.00	\$ 44.97	\$ 44.97	m2	1.00	\$ 47.71	\$ 47.71
34	Railing								



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

DETAIL - COST ESTIMATION

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA MANATUTO (LACLO)
 PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

MEP

NO	DESCRIPTION OF WORKS	PROPOST BY OWNER				VERIFIED BY ADN.IP			
		UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
	Hollow 40.40, T=2mm	m	116.50	\$ 1.45	\$ 168.93	m	278.44	\$ 1.45	\$ 403.73
	Hollow 80.80, T=2mm	m	12.00	\$ 1.45	\$ 17.40	m	12.00	\$ 1.45	\$ 17.40
	Steel Plate 80.80, T=4mm	Bh	3.00	\$ 50.00	\$ 150.00	Bh	3.00	\$ 50.00	\$ 150.00
	Dina Bolt M10	Bh	33.00	\$ 12.00	\$ 396.00	Bh	33.00	\$ 12.00	\$ 396.00
35	Water tank (3200 ltr) - National product, Ex. Rotomor	Unit	1.00	\$ 350.00	\$ 350.00	Unit	1.00	\$ 504.00	\$ 504.00
	Polypipe (SNI/Australian), 3/4 inch	Roll	5.00	\$ 100.00	\$ 500.00	Roll	5.00	\$ 840.00	\$ 4,200.00
	Sanyo (SHIMIZU 3 HP) - provide all accessories	Unit	1.00	\$ 250.00	\$ 250.00	Unit	1.00	\$ 125.00	\$ 125.00
	Water pipe line and instalation	Ls	1.00	\$ 2,500.00	\$ 2,500.00	Ls	1.00	\$ 500.00	\$ 500.00
	Sub Total				\$ 15,869.22				\$ 18,848.61
B	Septictank								
1	Excavation	m3	12.00	\$ 5.91	\$ 70.92	m3	12.00	\$ 5.91	\$ 70.92
2	sand bedding	m3	0.60	\$ 14.13	\$ 8.48	m3	0.60	\$ 20.00	\$ 12.00
3	concrete slab	m3	0.53	\$ 140.47	\$ 74.73	m3	0.53	\$ 130.43	\$ 69.39
4	concrete column								
	Concrete K 275	m3	0.60	\$ 140.47	\$ 84.28	m3	0.60	\$ 130.43	\$ 78.26
	Reinforced	kg	95.99	\$ 1.45	\$ 138.90	kg	95.99	\$ 1.66	\$ 159.25
	Formwork	m2	12.00	\$ 36.59	\$ 439.08	m2	12.00	\$ 39.33	\$ 471.96
5	concrete for top septictank								
	Concrete K 275	m3	0.53	\$ 140.47	\$ 74.73	m3	0.53	\$ 130.43	\$ 69.39
	Reinforced	kg	43.77	\$ 1.45	\$ 63.33	kg	43.77	\$ 1.66	\$ 72.61
	Formwork	m2	5.32	\$ 44.97	\$ 239.24	m2	5.32	\$ 47.71	\$ 253.82
6	Pipe PVC dia. 4"	m'	6.00	\$ 9.40	\$ 56.40	m'	6.00	\$ 17.62	\$ 105.72
7	Pipe PVC dia. 2"	m'	2.00	\$ 9.40	\$ 18.80	m'	2.00	\$ 7.75	\$ 15.50
8	Tee PVC dia. 4"	Unit	1.00	\$ 19.17	\$ 19.17	Unit	1.00	\$ 11.03	\$ 11.03
9	Tee PVC dia. 2"	Unit	1.00	\$ 8.00	\$ 8.00	Unit	1.00	\$ 2.63	\$ 2.63
10	Ordinary block wall masonry 40x20x10 cm (1 cement : 4 sand)	m2	37.29	\$ 14.04	\$ 523.55	m2	37.29	\$ 13.36	\$ 498.19
11	Ordinary wall plaster (1 cement : 4 sand)	m2	37.29	\$ 5.28	\$ 196.89	m2	37.29	\$ 5.14	\$ 191.67
12	Wall Cement render	m2	37.29	\$ 3.28	\$ 122.31	m2	37.29	\$ 3.26	\$ 121.57
C	Diffusion and Installation pipe Complete								
1	Excavation	m3	6.50	\$ 5.91	\$ 38.42	m3	6.50	\$ 5.14	\$ 33.41
2	concrete for top diffusion								
3	Concrete K 275	m3	0.52	\$ 140.47	\$ 73.04	m3	0.52	\$ 130.43	\$ 67.82
	Reinforced	kg	26.65	\$ 1.45	\$ 38.57	kg	26.65	\$ 1.66	\$ 44.22
	Formwork	m2	2.60	\$ 44.97	\$ 116.92	m2	2.60	\$ 18.03	\$ 46.88
4	Gravel 20x20 mm	m3	2.21	\$ 35.00	\$ 77.18	m3	2.21	\$ 30.74	\$ 67.79
5	Fibre of Palmtree	m2	14.25	\$ 10.00	\$ 142.50	m2	14.25	\$ 15.74	\$ 224.30
6	Ordinary block wall masonry 40x20x10 cm (1 cement : 4 sand)	m2	14.25	\$ 14.04	\$ 200.07	m2	14.25	\$ 13.36	\$ 190.38
7	Ordinary wall plaster (1 cement : 4 sand)	m2	14.25	\$ 5.28	\$ 75.24	m2	14.25	\$ 5.14	\$ 73.25
8	Cement render	m2	14.25	\$ 3.28	\$ 46.74	m2	14.25	\$ 3.26	\$ 46.46
	Sub Total				\$ 2,947.49				\$ 2,998.38
	Total Septictank & Dlsfusion				\$ 2,947.49				\$ 2,998.38
	Total for Plumbing Work				\$ 18,816.70				\$ 21,847.00
B	ELECTRICAL								
I	Medium Voltage Line 20 KV								
	<u>Supply and install all these equipments complete with all necessary fittings and accessories required refer on drawing</u>								
1	Concrete Pole 12 M 350 daN	unit	4.00	\$ 769.76	\$ 3,079.04	unit	4.00	\$ 642.10	\$ 2,568.40
2	AAAC - S 1 x 70 mm ²	m	50.00	\$ 6.00	\$ 300.00	m	600.00	\$ 3.38	\$ 2,028.00
3	Pin post Insulator	Unit	12.00	\$ 50.00	\$ 600.00	Unit	12.00	\$ 25.00	\$ 300.00
4	Hang Insulator (Complit with Acccessories)	set	2.00	\$ 150.00	\$ 300.00	set	2.00	\$ 60.00	\$ 120.00
5	Fuse Cut outs	set	1.00	\$ 448.00	\$ 448.00	set	1.00	\$ 80.00	\$ 80.00
6	Cross arm A1 Channnel UNP 1.8 Meter (Galvanized) (Begel)	Unit	1.00	\$ 85.00	\$ 85.00	Unit	1.00	\$ 63.90	\$ 63.90
7	Cross arm A2 channnel UNP 2 Meter (Galvanized) (Begel)	Unit	6.00	\$ 150.00	\$ 900.00	Unit	6.00	\$ 112.76	\$ 676.56
8	Braco for Support cross arm (127) (Begel)	Unit	7.00	\$ 25.00	\$ 175.00	Unit	7.00	\$ 18.80	\$ 131.60
9	Helical / Filaca	m	18.00	\$ 3.50	\$ 63.00	m	18.00	\$ 2.25	\$ 40.50
10	Climber Protection	Unit	3.00	\$ 8.00	\$ 24.00	Unit	3.00	\$ 6.01	\$ 18.03
11	Warning Sign	Unit	3.00	\$ 8.00	\$ 24.00	Unit	3.00	\$ 6.01	\$ 18.03
12	Truckschoor (Assembly)	Unit	4.00	\$ 3.36	\$ 13.44	Unit	4.00	\$ 97.71	\$ 390.84
13	Parallel Groove Connector (AL) 35 - 150mm ²	Unit	6.00	\$ 8.96	\$ 53.76	Unit	6.00	\$ 3.01	\$ 18.06
14	Construction material (Stone,sand,cement,iron,wire)	Unit	3.00	\$ 12.00	\$ 36.00	Unit	3.00	\$ 19.48	\$ 58.44
	Sub Total				\$ 6,101.24				\$ 6,512.36
II	New Transformer 20 KV/400 V								



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

DETAIL - COST ESTIMATION

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA MANATUTO (LACLO)
 PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

MEP

NO	DESCRIPTION OF WORKS	PROPOST BY OWNER				VERIFIED BY ADN.I.P			
		UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
1	Administration Fee EDTL (power connection)	ls	1	\$ 550.00	\$ 550.00	ls	1.00	\$ 550.00	\$ 550.00
2	Supply & Install immersed Oil Transformer 50 KVA D Yzn 5 - 3 phase 20kV - 400 V + Accesories	unit	1	\$ 7,275.00	\$ 7,275.00	unit	1.00	\$ 7,035.00	\$ 7,035.00
3	N2XSEBY 3x95 mm ² (24 kv) Underground Cable)	m	30	\$ 68.17	\$ 2,045.10	m	30.00	\$ 68.17	\$ 2,045.10
4	Fuse Cut Out	set	1	\$ 448.00	\$ 448.00	set	1.00	\$ 80.00	\$ 80.00
5	Lightning Arrester 24 KV	set	1	\$ 448.00	\$ 448.00	set	1.00	\$ 80.00	\$ 80.00
6	Termination Clamp 50 mm	unit	30	\$ 12.00	\$ 360.00	unit	30.00	\$ 1.88	\$ 56.40
7	Raycham Indoor	set	1	\$ 500.00	\$ 500.00	set	1.00	\$ 500.00	\$ 500.00
8	Raycham Outdoor	set	1	\$ 500.00	\$ 500.00	set	1.00	\$ 500.00	\$ 500.00
9	Galvanized pipe 3" (6 m) include Acc.	unit	4	\$ 105.00	\$ 420.00	unit	4.00	\$ 75.17	\$ 300.68
10	NYFGBY 4x35 mm ² to Panel CONTROL	m	15	\$ 43.85	\$ 657.75	m	15.00	\$ 43.85	\$ 657.75
	Sub Total				\$ 13,203.85				\$ 11,804.93
III M V M D P (Medium Voltage Distribution Panel 20 kV)									
	Free standing - metal enclosed cubicle, fixed type, galvanized metal sheet								
	- Rated voltage : 24 kV								
	- Service voltage : 20 kV								
1	Incoming Cubicle	set	1	\$ 4,909.09	\$ 4,909.09	set	1.00	\$ 4,909.09	\$ 4,909.09
	- SF6 manually operated LBS (400 A)								
	- 1 set CVD + indicating light								
	- Short circuiting/earthing switch								
	- 1 set isolated bus (400 A - 500 MVA)								
	- Accessories								
2	Transformer Protection Cubicle; Outgoing	set	1	\$ 6,676.36	\$ 6,676.36	set	1.00	\$ 6,676.36	\$ 6,676.36
	- SF6 manually operated LBS (400 A) with fuse mounted below + shunt trip 220 VAC								
	- 1 set HRC fuse (125 A-20 kV) with striker pin								
	- 1 set CVD + indicating light								
	- Short circuiting/earthing switch								
	- 1 set isolated bus (400 A - 500 MVA)								
	- Accessories								
3	Voltage Measurement Cubicle; Outgoing	set	1	\$ 7,069.09	\$ 7,069.09	set	1.00	\$ 7,069.09	\$ 7,069.09
	- SF6 manually operated LBS (400 A)								
	- 1 set potential transformer 20 kV/110 V								
	- 1 set HRC fuse (6,3 A-20 kV)								
	- 1 Unit Voltmeter 0 - 20 kV + VSS 7 Spots								
	- 1 set CVD + indicating light								
	- Short circuiting/earthing switch								
	- 1 set isolated bus (400 A - 500 MVA)								
	- Accessories								
	Sub Total				\$ 18,654.54				\$ 18,654.54
IV Power station:									
1	Power Backup_Silent Generator perkins 50 KVA	Unit	1.00	\$ 8,000.00	\$ 8,000.00	Unit	1.00	\$ 8,000.00	\$ 8,000.00
2	Supply and Install PANEL CONTROL 600X400X200 include all accessories	Unit	1.00	\$ 500.00	\$ 500.00	Unit	1.00	\$ 861.36	\$ 861.36
3	Supply and Install OCB 175-250A 4P	Unit	1.00	\$ 150.00	\$ 150.00	Unit	1.00	\$ 150.00	\$ 150.00
4	Supply and Install MCCB 80A 3P	Unit	1.00	\$ 100.98	\$ 100.98	Unit	1.00	\$ 100.98	\$ 100.98
5	Supply and Install Cable NYX 4X10mm+PVC	m1	30.00	\$ 14.42	\$ 432.60	m1	30.00	\$ 13.57	\$ 407.10
V Supply and Install PANEL SDP-A 600X400X200 include all accessories									
1	Supply and Install MCCB 50A 3P	Unit	1.00	\$ 86.28	\$ 86.28	Unit	1.00	\$ 86.28	\$ 86.28
2	Supply and Install MCB 6A 1P	Unit	17.00	\$ 9.63	\$ 163.71	Unit	17.00	\$ 8.58	\$ 145.86
3	Supply and Install MCB 10A1P	Unit	5.00	\$ 12.78	\$ 63.90	Unit	5.00	\$ 9.11	\$ 45.55
4	Supply and Install MCB 16A 1P	Unit	1.00	\$ 15.93	\$ 15.93	Unit	1.00	\$ 9.11	\$ 9.11
5	Supply and Install MCB 20A 1P	Unit	2.00	\$ 18.03	\$ 36.06	Unit	2.00	\$ 9.11	\$ 18.22
6	Supply and Install Fluoroscent TL 2X36W	Unit	23.00	\$ 50.00	\$ 1,150.00	Unit	23.00	\$ 54.78	\$ 1,259.94
7	Supply and Install Downlight 15W	Unit	15.00	\$ 15.00	\$ 225.00	Unit	15.00	\$ 15.93	\$ 238.95
8	Supply and Install Circular Light 25W	Unit	4.00	\$ 25.00	\$ 100.00	Unit	4.00	\$ 25.00	\$ 100.00
9	Supply and Install Downlight 7 W	Unit	18.00	\$ 7.00	\$ 126.00	Unit	18.00	\$ 10.41	\$ 187.38
10	Supply and Install Exhaust Fan	Unit	6.00	\$ 49.03	\$ 294.18	Unit	6.00	\$ 42.18	\$ 253.08
11	Supply and Install Power Outlet 250VA	Unit	55.00	\$ 8.00	\$ 440.00	Unit	55.00	\$ 5.67	\$ 311.85
12	Supply and Install Single switch	Unit	31.00	\$ 6.00	\$ 186.00	Unit	31.00	\$ 5.15	\$ 159.65



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

DETAIL - COST ESTIMATION

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA MANATUTO (LACLO)
 PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

MEP

NO	DESCRIPTION OF WORKS	PROPOST BY OWNER				VERIFIED BY ADN.IP			
		UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
13	Supply and Install Double switch	Unit	15.00	\$ 8.00	\$ 120.00	Unit	15.00	\$ 5.67	\$ 85.05
	Sub Total				\$ 12,690.64				\$ 12,609.24
V	TRAY CABLE:								
1	Tray Cable 400x100 with cover	M1	24	\$ 25.00	\$ 600.00	M1	24.00	\$ 40.35	\$ 968.40
2	Supply and Install Cable NYM 3X2,5mm + PVC	m1	500	\$ 4.50	\$ 2,250.00	m1	500.00	\$ 3.98	\$ 1,990.00
3	Supply and Install Cable NYM 3X1,5mm + PVC	m1	400	\$ 3.50	\$ 1,400.00	m1	400.00	\$ 3.49	\$ 1,394.60
	Total TRAY CABLE Work				\$ 4,250.00				\$ 4,353.00
	Total Electrical Work				\$ 54,900.27				\$ 53,934.07
VI	Supply and Install PANEL AC 600X400X200 include all accessories								
	Supply and Install MCCB 40A 3P	Unit	1.00	\$ 75.00	\$ 75.00	Unit	1.00	\$ 75.00	\$ 75.00
	Supply and Install MCB 6A	Unit	1.00	\$ 9.63	\$ 9.63	Unit	1.00	\$ 8.58	\$ 8.58
	Supply and Install MCB 10A	Unit	14.00	\$ 12.78	\$ 178.92	Unit	14.00	\$ 9.11	\$ 127.54
	Supply and Install AC 9000 BTU	Unit	14.00	\$ 354.13	\$ 4,957.82	Unit	14.00	\$ 432.88	\$ 6,060.32
	power outlet for AC	Unit	14.00	\$ 8.00	\$ 112.00	Unit	14.00	\$ 5.67	\$ 79.38
	Installation power outlet AC 9000 BTU with cable NYM 3X2,5 mm in conduit 20 mm pvc	Point	14.00	\$ 25.00	\$ 350.00	Point	14.00	\$ 27.25	\$ 381.50
	Pipe refrigerant for AC 9000 BTU	m1	13.00	\$ 5.00	\$ 65.00	m1	13.00	\$ 5.00	\$ 65.00
	Supply and Install Ceiling Fan + Remote control	Unit	2.00	\$ 95.00	\$ 190.00	Unit	2.00	\$ 86.28	\$ 172.56
	Total Air Conditioning (AC) Work				\$ 5,938.37				\$ 6,969.88
VII	CCTV								
	Supply and Install all item								
a.	NVR 16 channel camera input, tru real time display Hardisk 1 tB MPEG 4 buil in network	unit	1.00	\$ 700.00	\$ 700.00	unit	1.00	\$ 415.59	\$ 415.59
b.	Keyboard controller PT2	unit	1.00	\$ 14.04	\$ 14.04	unit	1.00	\$ 14.04	\$ 14.04
c.	LCD Monitor 32" colour	unit	1.00	\$ 250.00	\$ 250.00	unit	1.00	\$ 313.26	\$ 313.26
d.	UPS 1 KVA complete with Backup battery 15 menit	unit	1.00	\$ 300.00	\$ 300.00	unit	1.00	\$ 300.00	\$ 300.00
e.	Rack cabinet	unit	1.00	\$ 39.47	\$ 39.47	unit	1.00	\$ -	\$ -
f.	Cable installation network	Roll	2.00	\$ 92.00	\$ 184.00	Roll	2.00	\$ 63.89	\$ 127.78
g.	Dome camera colour hikvision 8 mpx indoor camera	unit	4.00	\$ 200.00	\$ 800.00	unit	4.00	\$ 217.41	\$ 869.64
h.	Bullet Camera hikvision 8 mpx outdoor camera	unit	5.00	\$ 350.00	\$ 1,750.00	unit	5.00	\$ 281.69	\$ 1,408.45
i.	CABLE CAT6 (300m)	Roll	1.00	\$ 120.00	\$ 120.00	Roll	1.00	\$ 253.51	\$ 253.51
	Test and commissioning	lot	1.00	\$ 100.00	\$ 100.00	lot	1.00	\$ 100.00	\$ 100.00
	Total for CCTV Work				\$ 4,257.51				\$ 3,802.27
VIII	FIRE ALARM								
	Supply and Install all item								
MAIN UNIT :									
MCFa Single ZONE	un	1.00	\$ 438.00	\$ 438.00	un	1.00	\$ 438.00	\$ 438.00	
ANNUNCIATOR	un	1.00	\$ 228.00	\$ 228.00	un	1.00	\$ 228.00	\$ 228.00	
Cable feeder from MCFa to ANNUNCIATOR	m	35.00	\$ 2.50	\$ 87.50	m	35.00	\$ 2.50	\$ 87.50	
installation smoke detector with cable NYA 2 x 1,5 mm in conduit pvc Ø 20 mm	Point	15.00	\$ 50.00	\$ 750.00	Point	15.00	\$ 50.00	\$ 750.00	
installation Heat detector with cable NYA 2 x 1,5 mm in conduit pvc Ø 20 mm	Point	6.00	\$ 50.00	\$ 300.00	Point	6.00	\$ 50.00	\$ 300.00	
installation ALARM BELL with cable NYA 2 x 1,5 mm in conduit pvc Ø 20 mm	Point	2.00	\$ 25.00	\$ 50.00	Point	2.00	\$ 25.00	\$ 50.00	
installation INDICATOR LAMP with cable NYA 2 x 1,5 mm in conduit pvc Ø 20 mm	Point	2.00	\$ 25.00	\$ 50.00	Point	2.00	\$ 25.00	\$ 50.00	
Smoke Detector	un	15.00	\$ 41.84	\$ 627.60	un	15.00	\$ 41.84	\$ 627.60	
Heat Detector	un	6.00			un	6.00	\$ -	\$ -	
Alarm bell	un	1.00	\$ 52.81	\$ 52.81	un	1.00	\$ 52.81	\$ 52.81	
Push button	un	1.00	\$ 61.58	\$ 61.58	un	1.00	\$ 61.58	\$ 61.58	
Indicator lamp	un	1.00	\$ 52.81	\$ 52.81	un	1.00	\$ 52.81	\$ 52.81	
TB Box	un	1.00	\$ 39.91	\$ 39.91	un	1.00	\$ 39.91	\$ 39.91	
EOL	un	2.00	\$ 0.70	\$ 1.40	un	2.00	\$ 0.70	\$ 1.40	
Test and commissioning	lot	1.00	\$ 500.00	\$ 500.00	lot	1.00	\$ 500.00	\$ 500.00	
	Total Fire Alarm Work				\$ 3,239.61				\$ 3,239.61
IX	FIRE PROTECTION								
	Supply and Install all item								
Fire Extinguisher type ABC Powder cap : 5 kg	un	3.00	\$ 75.00	\$ 225.00	un	3.00	\$ 75.00	\$ 225.00	
	Total for Fire Protection Work				\$ 225.00				\$ 225.00
X	SOUND SYSTEM AUDITORIUM ROOM								
	Supply and Install all item								
Power Amplifier 125 W	Unit	1.00	\$ 500.00	\$ 500.00	Unit	1.00	\$ 500.00	\$ 500.00	
Mixer amplifier 12 Channel	Unit	1.00	\$ 315.79	\$ 315.79	Unit	1.00	\$ 315.79	\$ 315.79	
DVD/USB/BT	Unit	1.00	\$ 80.00	\$ 80.00	Unit	1.00	\$ 80.00	\$ 80.00	
SUBWOFER	Unit	1.00	\$ 223.68	\$ 223.68	Unit	1.00	\$ 223.68	\$ 223.68	



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

DETAIL - COST ESTIMATION

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA MANATUTO (LACLO)
 PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

MEP

NO	DESCRIPTION OF WORKS	PROPOST BY OWNER				VERIFIED BY ADN.IP			
		UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
Ceiling Speaker	Unit	25.00	\$ 45.00	\$ 1,125.00	Unit	25.00	\$ 41.04	\$ 1,026.00	
Volume Speaker	Unit	11.00	\$ 15.00	\$ 165.00	Unit	11.00	\$ 15.00	\$ 165.00	
MIC Triport	Unit	1.00	\$ 15.00	\$ 15.00	Unit	1.00	\$ 15.00	\$ 15.00	
Mic wireless	Unit	2.00	\$ 61.40	\$ 122.80	Unit	2.00	\$ 61.40	\$ 122.80	
Cabinet rack 32 c/w acc(Rack Server 32U, Standing Close Rack Glass Door(IR6032G), 19 inch Cabinet Rack, Dimension 600Dx600Wx1605H mm, 82 kg)	Unit	1.00	\$ 35.09	\$ 35.09	Unit	1.00	\$ 932.76	\$ 932.76	
Cable mic	M1	5.00	\$ 3.50	\$ 17.50	M1	5.00	\$ 3.50	\$ 17.50	
Cable speaker OLFLEX KABEL 2 X 1.5 mm in HIC connector for cable to speaker/sound	M1	200.00	\$ 3.50	\$ 700.00	M1	200.00	\$ 2.50	\$ 500.00	
Test and commissioning	lot	1.00	\$ 13.16	\$ 13.16	lot	1.00	\$ 13.16	\$ 13.16	
Total for Sound System Work				\$ 3,589.32				\$ 4,187.99	
H LIGHTING PROTECTION									
Supply and Install all item									
Head protection lighting radius 35 m	un	1.00	\$ 328.95	\$ 328.95	un	1.00	\$ 328.95	\$ 328.95	
support pipe GIP Ø 50 mm	un	1.00	\$ 166.90	\$ 166.90	un	1.00	\$ 166.90	\$ 166.90	
Cable NYK 1 x 70 mm	m	40.00	\$ 13.73	\$ 549.20	m	40.00	\$ 12.78	\$ 511.20	
Grounding rood Ø 25 mm	m	6.00	\$ 217.60	\$ 1,305.60	m	6.00	\$ 217.60	\$ 1,305.60	
Box control 40 x 40 cm	un	1.00	\$ 70.18	\$ 70.18	un	1.00	\$ 70.18	\$ 70.18	
Test and commissioning	lot	1.00	\$ 87.72	\$ 87.72	lot	1.00	\$ 87.72	\$ 87.72	
Total for Lighting Protection Work				\$ 2,508.55				\$ 2,470.55	
I TELEPHONE									
Supply and Install all item									
Penyambungan jaringan baru TELKOM 3 line									
PABX 2-5 ch + 2 poert + 30 port	Unit	1.00	\$ 456.14	\$ 456.14	Unit	1.00	\$ 456.14	\$ 456.14	
wall mount rack (Rack Server 15U, WallMount Rack Single Glass Door (WIR4515S), 19 inch Cabinet Rack, Dimension 450D x 600W x 780H mm, and Weight 30kg)	Unit	1.00	\$ 22.37	\$ 22.37	Unit	1.00	\$ 371.01	\$ 371.01	
Printer standart (LaserJet Pro MFP M125a) Black & Colour	Unit	1.00	\$ 43.86	\$ 43.86	Unit	1.00	\$ 220.14	\$ 220.14	
Kabel ITC 10 x 0,6 pair in pipe PVC 1,5 "	m	70.00	\$ 311.32	\$ 21,792.40	m	70.00	\$ 4.82	\$ 337.40	
UPS 2 Kva	Unit	1.00	\$ 500.00	\$ 500.00	Unit	1.00	\$ 370.01	\$ 370.01	
Terminal Box 20 pair	Unit	1.00	\$ 35.09	\$ 35.09	Unit	1.00	\$ 35.09	\$ 35.09	
instalasi outlet telepon	Point	13.00	\$ 15.88	\$ 206.44	Point	13.00	\$ 14.00	\$ 182.00	
Outlet telepon	pcs	18.00	\$ 8.95	\$ 161.10	pcs	18.00	\$ 8.95	\$ 161.10	
instalasi outlet telepon direct	Unit	5.00	\$ 50.00	\$ 250.00	Unit	5.00	\$ 50.00	\$ 250.00	
Total for Telephone Work				\$ 23,467.40				\$ 2,382.89	
J LAN/DATA									
Supply and Install all item									
Cabinet rack 32 c/wacc(Rack Server 32U, Standing Close Rack Glass Door(IR6032G), 19 inch Cabinet Rack, Dimension 600Dx600Wx1605H mm, 82 kg)	Unit	1.00	\$ 39.47	\$ 39.47	Unit	1.00	\$ 932.76	\$ 932.76	
UPS 2 Kva	Unit	1.00	\$ 500.00	\$ 500.00	Unit	1.00	\$ 395.01	\$ 395.01	
Switch 24 Port/RG-NBS3100-24GT4SFP-P)	Unit	1.00	\$ 27.19	\$ 27.19	Unit	1.00	\$ 558.29	\$ 558.29	
PATCH Panel (Patch Panel 24 Port)	Unit	1.00	\$ 68.93	\$ 68.93	Unit	1.00	\$ 129.62	\$ 129.62	
cabinet rack 6 u	Unit	1.00	\$ 86.62	\$ 86.62	Unit		\$ -		
instalasi data	point	15.00	\$ 14.95	\$ 224.25	point	15.00	\$ 14.95	\$ 224.25	
acces point(wififi) (RG-720L)	point	4.00	\$ 120.00	\$ 480.00	point	4.00	\$ 125.14	\$ 500.56	
Outlet data (Simon)	pcs	15.00	\$ 9.56	\$ 143.40	pcs	15.00	\$ 9.56	\$ 143.40	
cable UTP Cat 6 in conduit 20 mm (300m)	roll	1.00	\$ 120.00	\$ 120.00	roll	1.00	\$ 250.00	\$ 250.00	
Test and commissioning	lot	1.00	\$ 500.00	\$ 500.00	lot	1.00	\$ 500.00	\$ 500.00	
Total for LAN/DATA Work				\$ 2,189.86				\$ 3,633.89	
Total for Mechanical Work				\$ 45,415.62				\$ 26,912.08	
TOTAL MEP WORK				\$ 119,132.59				\$ 102,693.15	



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

DETAIL - COST ESTIMATION

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA MANATUTO (LACLO)
 PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

LANDSCAPE WORK

NO	DESCRIPTION OF WORKS	PROPOST BY OWNER				VERIFIED BY ADN.I.P				
		UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	
I	PRELIMINARY WORK									
1	Sand filling, t = 10 cm	m3	105.60	\$ 14.13	\$ 1,492.13	m3	105.60	\$ 20.00	\$ 2,112.00	
2	Paving block work 20 x 10 x 6 cm	m2	1056.00	\$ 29.46	\$ 31,109.76	m2	1056.00	\$ 24.25	\$ 25,608.00	
3	Kansteen concrete work - K125	m1	204.02	\$ 13.68	\$ 2,790.33	m1	204.02	\$ 12.37	\$ 2,524.36	
	painting for kansteen	m2	40.80	\$ 1.52	\$ 62.02	m2	40.80	\$ 4.05	\$ 165.26	
4	Concrete floor, t = 10 cm - K125	m3	4.11	\$ 127.03	\$ 522.60	m3	4.11	\$ 117.47	\$ 483.27	
5	Humus soil	m3	87.65	\$ 35.00	\$ 3,067.58	m3	87.65	\$ 20.37	\$ 1,785.33	
6	Grass planting (<i>Zoysia japonica</i> (Japanese lawngrass))	m2	292.15	\$ 5.00	\$ 1,460.75	m2	292.15	\$ 10.38	\$ 3,031.35	
7	Red Shoot Tree h= 2 m	unit	30.00	\$ 150.00	\$ 4,500.00	unit	30.00	\$ 100.00	\$ 3,000.00	
8	Supply and installation flagpole such as drawing complete with all accessories	unit	1.00	\$ 350.00	\$ 350.00	unit	1.00	\$ 517.70	\$ 517.70	
II	ELECTRICAL FOR LANDSCAPE									
1	MCB Box 6-Ways	unit	1.00	\$ 6.00	\$ 6.00	unit	1.00	\$ 6.00	\$ 6.00	
2	LED LIGHT 15 W + CAP	unit	1.00	\$ 35.00	\$ 35.00	unit	1.00	\$ 35.00	\$ 35.00	
3	MCB 20A 1P	unit	1.00	\$ 18.03	\$ 18.03	unit	1.00	\$ 9.11	\$ 9.11	
4	MCB 10A 1P	unit	1.00	\$ 12.78	\$ 12.78	unit	1.00	\$ 9.11	\$ 9.11	
5	Theben Timer (Automatic Timer)	unit	1.00	\$ 32.50	\$ 32.50	unit	1.00	\$ 32.50	\$ 32.50	
6	RCCB/RCD 30mA 16A	unit	1.00	\$ 45.00	\$ 45.00	unit	1.00	\$ 45.00	\$ 45.00	
7	Cable NYFGBY 3x2.5 mm +PVC	m1	300.00	\$ 6.50	\$ 1,950.00	m1	300.00	\$ 6.33	\$ 1,897.50	
	Sub Total				\$ 47,454.48				\$ 41,261.48	
III	FENCE WORK									
A	EARTH AND SAND WORK									
1	Bowplank	Ls	1.00	\$ 350.00	\$ 350.00	Ls	1.00	\$ 350.00	\$ 350.00	
2	Excavation for ordinary foundation	m3	106.26	\$ 5.14	\$ 546.18	m3	106.26	\$ 5.14	\$ 546.18	
3	Stone masonry work (1 cement : 4 sand)	m3	58.44	\$ 80.50	\$ 4,704.66	m3	58.44	\$ 70.45	\$ 4,117.31	
4	Foundation excavation backfilling	m3	26.57	\$ 1.70	\$ 45.16	m3	26.57	\$ 1.70	\$ 45.16	
5	Sand filling under foundation	m3	6.64	\$ 14.13	\$ 93.84	m3	6.64	\$ 20.00	\$ 132.83	
	Sub Total				\$ 5,739.84				\$ 5,191.47	
B	WALL WORKS AND PLASTER WORK									
1	Ordinary block wall 40x20x10 cm masonry (1 sand : 4 sand)	m2	360.25	\$ 14.04	\$ 5,057.91	m2	360.25	\$ 13.36	\$ 4,812.94	
2	Ordinary wall plaster (1 cement : 4 sand) 15 mm thickness	m2	720.50	\$ 5.28	\$ 3,804.24	m2	720.50	\$ 6.33	\$ 4,560.77	
	Sub Total				\$ 11,225.39				\$ 11,722.54	
C	CONCRETE WORKS									
1	Concrete sloof 200x300 mm - K175									
	Concrete K175	m3	9.91	\$ 130.08	\$ 1,288.57	m3	9.91	\$ 120.59	\$ 1,194.56	
	Reinforced Formwork	kg	1760.74	\$ 1.45	\$ 2,547.79	kg	1760.74	\$ 1.66	\$ 2,921.06	
2	Concrete beam 150x200 mm - K175	m2	99.06	\$ 26.78	\$ 2,652.83	m2	99.06	\$ 29.52	\$ 2,924.25	
	Concrete K175	m3	4.35	\$ 130.08	\$ 566.24	m3	4.35	\$ 120.59	\$ 524.93	
	Reinforced Formwork	kg	817.59	\$ 1.45	\$ 1,183.05	kg	817.59	\$ 1.66	\$ 1,356.38	
3	Concrete column 150x150 mm - K175 for fence type 2 & 3	m2	58.04	\$ 44.97	\$ 2,610.06	m2	58.04	\$ 47.71	\$ 2,769.09	
	Concrete K175	m3	7.20	\$ 130.08	\$ 936.58	m3	7.20	\$ 120.59	\$ 868.25	
	Reinforced Formwork	kg	1061.64	\$ 1.45	\$ 1,536.19	kg	1061.64	\$ 1.66	\$ 1,761.26	
	Formwork	m2	144.00	\$ 36.59	\$ 5,268.96	m2	144.00	\$ 39.33	\$ 5,663.52	
	Sub Total				\$ 18,590.26				\$ 19,983.30	
D	PAINTING WORK									
1	Wall and column painting	Sub Total	m2	1014.60	\$ 3.34	\$ 3,388.76	m2	1014.60	\$ 3.46	\$ 3,510.52
E	SUPPLY AND INSTALLATION WORK									
1	Supply and installation main gate	Unit	2.00	\$ 750.00	\$ 1,500.00	Unit	2.00	\$ 750.00	\$ 1,500.00	
2	Supply and installation marble nameboard include stainless steel letter	Ls	1.00	\$ 1,500.00	\$ 1,500.00	Ls	1.00	\$ 1,250.00	\$ 1,250.00	
	Sub Total				\$ 3,000.00				\$ 2,750.00	
	Total for fence work				\$ 41,944.26				\$ 43,157.83	
IV	DRAINAGEN WORK									
A	EARTH WORK									
	Setting out bowplank	Ls	1.00	\$ 350.00	\$ 350.00	Ls	1.00	\$ 300.00	\$ 300.00	
	Excavation for ordinary foundation	m3	71.83	\$ 5.14	\$ 369.23	m3	71.83	\$ 5.14	\$ 369.23	
	Foundation excavation backfilling	m3	10.26	\$ 1.70	\$ 17.45	m3	10.26	\$ 1.70	\$ 17.45	
	Sand filling under foundation	m3	10.26	\$ 14.13	\$ 145.00	m3	10.26	\$ 20.00	\$ 205.24	
	Stone masonry	m3	28.59	\$ 80.50	\$ 2,301.25	m3	28.59	\$ 70.45	\$ 2,013.95	
	Plaster 1PC: 4PS thicknes 20mm	m2	190.58	\$ 6.53	\$ 1,244.49	m2	190.58	\$ 6.33	\$ 1,206.37	
	Cover Steel type L30X30X3mm-50mm	m1	146.60	\$ 21.48	\$ 3,148.62	m1	146.60	\$ 1.40	\$ 205.68	
	Total for Drainagen work				\$ 7,576.03				\$ 4,317.92	
V	SECURITY POST									



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

DETAIL - COST ESTIMATION

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 PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

LANDSCAPE WORK

NO	DESCRIPTION OF WORKS	PROPOST BY OWNER				VERIFIED BY ADN.I.P				
		UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	
A	EARTH AND SAND WORK									
1	Bowplank	m1	10.20	\$ 9.92	\$ 101.18	m1	10.20	\$ 9.92	\$ 101.18	
2	Excavation for ordinary foundation	m3	10.56	\$ 5.14	\$ 54.28	m3	10.56	\$ 5.14	\$ 54.28	
3	Foundation excavation backfilling	m3	2.64	\$ 1.70	\$ 4.49	m3	2.64	\$ 1.70	\$ 4.49	
4	Sand filling under foundation	m3	0.66	\$ 14.13	\$ 9.33	m3	0.66	\$ 20.00	\$ 13.20	
5	Sand filling under floor	m3	0.48	\$ 14.13	\$ 6.78	m3	0.48	\$ 20.00	\$ 9.60	
6	stone masonry	m3	5.81	\$ 80.50	\$ 467.54	m3	5.81	\$ 70.45	\$ 409.17	
	Sub Total				\$ 643.60				\$ 591.92	
B	WALL MASONRY WORKS AND PLASTER WORK									
1	Ordinary block wall 40x20x10 cm masonry (1 sand : 4 sand)	m2	36.60	\$ 14.04	\$ 513.86	m2	36.60	\$ 13.36	\$ 488.98	
2	Ordinary wall plaster (1 cement : 4 sand) 15 mm thickness	m2	73.20	\$ 5.28	\$ 386.50	m2	73.20	\$ 5.14	\$ 376.25	
3	Wall cement render	m2	73.20	\$ 3.28	\$ 240.10	m2	73.20	\$ 3.26	\$ 238.63	
4	Bathroom ceramic wall : 20x25 cm for 1st floor	m2	6.60	\$ 20.58	\$ 135.83	m2	6.60	\$ 20.58	\$ 135.83	
	Sub Total				\$ 1,276.28				\$ 1,239.68	
C	CONCRETE WORKS									
1	Concrete sloof 150x200 mm - K275									
	Concrete K275	m3	0.46	\$ 140.47	\$ 64.05	m3	0.46	\$ 130.43	\$ 59.48	
	Reinforced	kg	113.25	\$ 1.45	\$ 163.87	kg	113.25	\$ 1.66	\$ 187.88	
2	Concrete beam ring 150x200 mm - K275	Formwork	m2	6.08	\$ 26.78	\$ 162.82	m2	6.08	\$ 29.52	\$ 179.48
	Concrete K275	m3	0.46	\$ 140.47	\$ 64.05	m3	0.46	\$ 130.43	\$ 59.48	
	Reinforced	kg	113.25	\$ 1.45	\$ 163.87	kg	113.25	\$ 1.66	\$ 187.88	
	Formwork	m2	8.36	\$ 44.97	\$ 375.95	m2	8.36	\$ 47.71	\$ 398.86	
3	Concrete column 150x200 mm - K275									
	Concrete K275	m3	0.72	\$ 140.47	\$ 101.14	m3	0.72	\$ 130.43	\$ 93.91	
	Reinforced	kg	149.20	\$ 1.45	\$ 215.89	kg	149.20	\$ 1.66	\$ 247.52	
4	Concrete column 150x400mm - K275	Formwork	m2	14.40	\$ 36.59	\$ 526.90	m2	14.40	\$ 39.33	\$ 566.35
	Concrete K275	m3	0.18	\$ 140.47	\$ 25.28	m3	0.18	\$ 130.43	\$ 23.48	
	Reinforced	kg	39.77	\$ 1.45	\$ 57.54	kg	39.77	\$ 1.66	\$ 65.98	
5	Concrete slab, t = 120 mm - K275	Formwork	m2	3.30	\$ 36.59	\$ 120.75	m2	3.30	\$ 39.33	\$ 129.79
	Concrete K275	m3	0.96	\$ 140.47	\$ 134.85	m3	0.96	\$ 130.43	\$ 125.21	
	Concrete roof									
	Concrete K275	m3	0.85	\$ 140.47	\$ 119.85	m3	0.85	\$ 130.43	\$ 111.28	
	Reinforced	kg	58.49	\$ 1.45	\$ 84.64	kg	58.49	\$ 1.66	\$ 97.04	
	Formwork	m2	7.11	\$ 44.97	\$ 319.74	m2	7.11	\$ 47.71	\$ 339.22	
	Sub Total				\$ 2,701.20				\$ 2,872.83	
D	FLOOR WORK									
2	Ceramic Tile 400x400mm	m2	8.39	\$ 19.48	\$ 163.44	m2	8.39	\$ 22.40	\$ 187.94	
3	Ceramic Tile 200x200mm for toilet	m2	1.21	\$ 20.58	\$ 24.90	m2	1.21	\$ 21.42	\$ 25.92	
	Sub Total				\$ 188.34				\$ 213.85	
E	DOORS, WINDOWS And VENTILATIONS WORKS									
1	Door type D-1, including all accessories	Unit	1.00	\$ 300.00	\$ 300.00	Unit	1.00	\$ 230.00	\$ 230.00	
2	Door type D-2, including all accessories	Unit	1.00	\$ 150.00	\$ 150.00	Unit	1.00	\$ 170.00	\$ 170.00	
3	Window type W-1, including all accessories	Unit	1.00	\$ 200.00	\$ 200.00	Unit	1.00	\$ 140.00	\$ 140.00	
4	Window type W-2, including all accessories	Unit	1.00	\$ 100.00	\$ 100.00	Unit	1.00	\$ 75.00	\$ 75.00	
5	Ventilation type BV-1, including all accessories	Unit	2.00	\$ 80.00	\$ 160.00	Unit	2.00	\$ 65.00	\$ 130.00	
	Sub Total				\$ 910.00				\$ 745.00	
F	CEILING WORK									
1	Supply and install gypsumboard 9 mm thick,	m2	14.57	\$ 11.75	\$ 171.23	m2	14.57	\$ 12.02	\$ 175.16	
2	supply and install hollow frame 4/4cm	m2	14.57	\$ 13.44	\$ 195.85	m2	14.57	\$ 13.04	\$ 190.03	
3	Supply and install ceiling cornice profile gypsum	m'	14.00	\$ 3.60	\$ 50.40	m'	14.00	\$ 3.60	\$ 50.40	
	Sub Total				\$ 417.48				\$ 415.59	
G	ROOFING WORKS									
1	RHS 100X50X2mm for trusses	kg	462.52	\$ 2.78	\$ 1,285.81	kg	462.52	\$ 2.20	\$ 1,017.55	
2	Purlin Chanel 100x50x2mm	kg	50.46	\$ 1.65	\$ 83.27	kg	50.46	\$ 2.24	\$ 113.04	
3	Calisboard, 6.0 mm	m1	15.40	\$ 16.00	\$ 246.40	m1	15.40	\$ 12.82	\$ 197.43	
4	Metal Roofing 0,42	m2	21.36	\$ 28.00	\$ 598.08	m2	21.36	\$ 14.26	\$ 304.59	
5	Ridge caping, 0.42 mm	m1	10.60	\$ 14.42	\$ 152.85	m1	10.60	\$ 14.26	\$ 151.16	
	Sub Total				\$ 2,366.41				\$ 1,783.77	
G	ELECTRICAL WORKS									
1	MCB Box 1-Way	Unit	1.00	\$ 3.50	\$ 3.50	Unit	1.00	\$ 3.50	\$ 3.50	
2	MCB 6 A 1P	Unit	1.00	\$ 9.63	\$ 9.63	Unit	1.00	\$ 8.58	\$ 8.58	
3	Supply and install Dowlight philips lamp 15 watt	Unit	1.00	\$ 10.00	\$ 10.00	Unit	1.00	\$ 14.61	\$ 14.61	
4	Supply and install Dowlight philips lamp 7 watt	Unit	1.00	\$ 7.00	\$ 7.00	Unit	1.00	\$ 10.41	\$ 10.41	
5	Supply and install single switch lamp good quality	Unit	2.00	\$ 6.00	\$ 12.00	Unit	2.00	\$ 5.15	\$ 10.30	
6	Supply and install single Power Outlet good quality	Unit	1.00	\$ 8.00	\$ 8.00	Unit	1.00	\$ 5.67	\$ 5.67	
7	Cable NYM 3x1.5 mm + PVC	m1	15.00	\$ 4.50	\$ 67.50	m1	15.00	\$ 3.49	\$ 52.30	
8	Cable NYFGBY 3x2.5 mm + PVC	m1	50.00	\$ 6.50	\$ 325.00	m1	50.00	\$ 6.33	\$ 316.25	



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

DETAIL - COST ESTIMATION

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NEW CONSTRUCTION OF ESQUADRA MANATUTO (LACLO)
 PROJECT LOCATION : LACLO, MANATUTO, TIMOR LESTE

LANDSCAPE WORK

NO	DESCRIPTION OF WORKS	PROPOST BY OWNER				VERIFIED BY ADN.I.P			
		UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
H	SANITATION WORK				\$ 442.63				\$ 421.62
1	Squat closet colour white + accessories	Unit	1.00	\$ 242.71	\$ 242.71	Unit	1.00	\$ 242.71	\$ 242.71
2	Supply and install Floor drain	Unit	1.00	\$ 5.41	\$ 5.41	Unit	1.00	\$ 5.41	\$ 5.41
3	Pipe PVC AW dia 0.5" for cold water pipe instalation	m'	20.00	\$ 2.53	\$ 50.60	m'	20.00	\$ 2.11	\$ 42.20
4	Pipe PVC dia. 3" for waste water pipe instalation	m'	20.00	\$ 9.40	\$ 188.00	m'	20.00	\$ 10.29	\$ 205.80
5	Pipe PVC dia. 4" for water closed pipe instalation	m'	10.00	\$ 12.38	\$ 123.80	m'	10.00	\$ 17.62	\$ 176.20
6	Septictank 1500x1000 mm	Unit	1.00	\$ 1,200.00	\$ 1,200.00	Unit	1.00	\$ 450.00	\$ 450.00
7	Absorption	Unit	1.00	\$ 600.00	\$ 600.00	Unit	1.00	\$ 300.00	\$ 300.00
	Sub Total				\$ 2,410.52				\$ 1,422.32
I	PAINTING WORK								
1	wall painting	m2	73.20	\$ 3.34	\$ 244.49	m2	73.20	\$ 3.46	\$ 253.27
2	Ceiling painting	m2	14.57	\$ 3.26	\$ 47.51	m2	14.57	\$ 3.38	\$ 49.26
	Sub Total				\$ 291.99				\$ 302.53
J	SEPTICTANK								
1	Excavation	m3	4.50	\$ 5.91	\$ 26.60	m3	4.50	\$ 5.91	\$ 26.60
2	sand bedding	m3	0.30	\$ 14.13	\$ 4.24	m3	0.30	\$ 20.00	\$ 6.00
3	concrete slab	m3	0.53	\$ 130.08	\$ 69.20	m3	0.53	\$ 123.63	\$ 65.77
4	concrete column								
	Concrete K 175	m3	0.60	\$ 130.08	\$ 78.05	m3	0.60	\$ 120.59	\$ 72.35
	Reinforced	kg	95.99	\$ 1.45	\$ 138.90	kg	95.99	\$ 1.66	\$ 159.25
	Formwork	m2	12.00	\$ 36.59	\$ 439.08	m2	12.00	\$ 39.33	\$ 471.96
5	Concrete for top septic tank								
	Concrete K 175	m3	0.53	\$ 130.08	\$ 69.20	m3	0.53	\$ 120.59	\$ 64.15
	Reinforced	kg	43.77	\$ 1.45	\$ 63.33	kg	43.77	\$ 1.66	\$ 72.61
	Formwork	m2	5.32	\$ 44.97	\$ 239.24	m2	5.32	\$ 47.71	\$ 253.82
6	Pipe PVC dia. 4"	m'	6.00	\$ 12.38	\$ 74.28	m'	6.00	\$ 17.62	\$ 105.72
7	Pipe PVC dia. 2"	m'	2.00	\$ 5.05	\$ 10.10	m'	2.00	\$ 7.75	\$ 15.50
8	Tee PVC dia. 4"	Unit	1.00	\$ 19.17	\$ 19.17	Unit	1.00	\$ 11.03	\$ 11.03
9	Tee PVC dia. 2"	Unit	1.00	\$ 5.36	\$ 5.36	Unit	1.00	\$ 2.63	\$ 2.63
10	Ordinary block wall masonry 40x20x10 cm (1 cement : 4 sand)	m2	37.29	\$ 13.42	\$ 500.43	m2	37.29	\$ 13.36	\$ 498.19
11	Ordinary wall plaster (1 cement : 4 sand)	m2	37.29	\$ 4.94	\$ 184.21	m2	37.29	\$ 5.14	\$ 191.67
12	Wall Cement render	m2	37.29	\$ 3.21	\$ 119.70	m2	37.29	\$ 3.26	\$ 121.57
	Sub Total				\$ 2,041.09				\$ 2,138.81
	Total for Security Post one unit				\$ 13,689.55				\$ 12,147.92
	Total for Security Post two unit				\$ 27,379.11				\$ 24,295.83
	Total for LANDSCAPE				\$ 124,353.87				\$ 113,033.06