



DELIBERASAUN N. 63/V/CAFI/2025

Conselho de Administração do Fundo das Infraestruturas – CAFI, baseia 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, 23 de maio de 2025, e halo deliberaun ba assunto tuir mai ne'e:

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

- 1. Novo Construção Cazernas da Policia PNTL Municipio Lautem;**
- 2. Novo Construção Cazernas da Policia PNTL Municipio Lautem (Lore).**

Proponente: Ministério do Interior – MI;

Notas/justifikasiakaun:

- SGP simu karta husi Ministério do Interior ho no. Ref.; 387/DNA-DGAF/MI/V/2025, data 22 de Maio de 2025, ho assuntu Agenda ba CAFI projetu ne'ebe nia finansiamentu iha FI no hetan ona verifikasiakaun ADN, I.P.;
- Bazei ba karta husi Ministério do Interior ho no. Ref.; 389/DNA-DGAF/MI/V/2025, data 7 de Maio de 2025, ho assuntu hato'o justifikasiakaun tekniku ba projeto Novo Construção Cazernas da Policia PNTL Municipio Lautem no Novo Construção Cazernas da Policia PNTL Municipio Lautem (Lore);
- Utilizasaun ba prosedimentu aprovisionamentu ho modalidade Solisitasau Kotasaun baseia ba artigu 35º no Artigu 39º paragraf (b) no. Artigu 42º tuir Decretu-Lei No.22 tinan 2022 de 11 de Maio 2022 kona ba Rezime Jurídico do Aprovisionamentu, dos Contratos Públicos a das Respetivas infraçõens;
- Projetu ida ne'e konsiste iha konstrusaun foun ba kazerna (kaza polícia) ba Polícia Nasional Timor-Leste (PNTL) iha Munisípiu Lautem. Objetivu principal mak hodi dezenvolve infraestrutura importante atu suporta programa seguransa nasional iha rejaun referida. Husi estableimentu facilidade ida ne'e, fó forsa ba PNTL atu aumenta operasaun sira no monitoriza efetivamente área sira ne'ebé tenke atensaun tanba potensiál konflitu;
- Ministerio Interior propoin ba CAFI hodi konsidera no aprova ba proposta: Autorizasaun despeza ba Projetu Novo Construção Cazernas Policia ha Municipiu Lautem ne'ebe nia desenho no BoO hetan ona verifikasiakaun ADN, I.P. ho Valor Orsamentu USD 1,666,830.26 Dollar Americano sei foti husi orsamentu alokadu FI 2024 ba Ministerio Interior hodi Autorizasaun despeza ba Projetu Novo Construção Cazernas Policia ha Municipiu Lautem (Lore) ne'ebe nia desenho no BoQ hetan ona verifikasiakaun ADN, I.P. ho Valor Orsamentu USD 1,427,310.28 Dollar Americano:

DELIBERASAUN N.º63/V/CAFI/2025



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



Conselho de
Administração

- Alokasaun orsamentu FI 2025: \$0 ba lina orsamentu ba Novo Construção Cazernas Policia iha Municipiu Lautem ho kodigo atividade (366132D), no Novo Construção Cazernas Policia iha Municipiu Lautem Posto Lore kodigo atividade (366132C);
- Desizaun kona ba abertura ka inisiasaun prosesu aprovisionamento bazeia, Artigo 24 & 25, Decreto Lei No.43/2024, de 20 de Dezembro, regra ezekusaun OGE 2025;
- 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;
- Dono do projeto sei assume responsabilidade hodi assegura orsamentu ba Ezekusaun no Implementasaun projeto;
- Projeto nain konfirma katak sei assume responsabilidade ba monitorizaun e akompanhamentu ba ezekusaun projeto ne'e no sei garante kualidade servisu nian tuir padraun no espesifikasiun ne'ebi aprova ona

- Lista Proposta:

Naran Projetu	Alokasaun FI 2025 & Kodigu Atividade	Kustu estimasaun	Observasaun
Novo Construção Cazernas da Policia Municipio de Lautem	FI 2025: \$0; Kodigu atividade 366132D: Novo Konstrusaun Kazerna iha Posto Lautem	\$1,666,830.20	Konfirmasaun ajustamento orsamentu hodi responde ba ezekusaun kontratu.
Novo Construção Cazernas da Policia Municipio de Lautem (Lore)	FI 2025: \$0; Kodigu atividade 366132C: Novo Konstrusaun Kazerna iha Posto Lore	\$ 1,427,310.28	Konfirmasaun ajustamento orsamentu hodi responde ba ezekusaun kontratu.

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 projeto:
 1. Novo Construção Cazernas da Policia PNTL Municipio Lautem, ne'ebi hetan ona Verifikasaun husi ADN, I.P. ho montante verifikadu \$1,666,830.20;
 2. Novo Construção Cazernas da Policia PNTL Municipio Lautem (Lore) ne'ebi hetan ona Verifikasaun husi ADN, I.P. ho montante verifikadu \$ 1,427,310.28;
- 2) Desizaun kona ba abertura ka inisiasaun prosesu aprovisionamento bazeia, Artigo 24 & 25, Decreto Lei No.43/2024, de 20 de Dezembro, regra ezekusaun OGE 2025;

DELIBERASAUN N.º63/V/CAFI/2025

Pájina 2 hosi 6

N
r
/-



- 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 justifikasaun tekniku no legal husi MI hanesan entidade adjudikante;
- 5) Dono do projetu sei assume responsabilidade hodi assegura orsamentu ba Ezekusaun no Implementasaun projetu;
- 6) Projetu nain sei asume responsabilidade ba koordenaun entre entidade relevantes ba implementasaun projetu ne'e, e ba supervizaun, monitorizasaun e akompanhamentu ba projetu ne'e iha faze implementasaun, e sei garante kualidade servisu nian tuir espesifikasiun 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 aprovisionamento 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 justifikasaun tekniku no legal husi MI hanesan entidade adjudikante;
5. Dono do projetu sei assume responsabilidade hodi assegura orsamentu ba Ezekusaun no Implementasaun projetu;
6. Projetu nain sei asume responsabilidade ba koordenaun entre entidade relevantes ba implementasaun projetu ne'e, e ba supervizaun, monitorizasaun e akompanhamentu ba projetu ne'e iha faze implementasaun, e sei garante kualidade servisu nian tuir espesifikasiun ne'ebe aprova ona;
7. Lista Aprovasaun:

✓ ✓ ✓



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



Conselho de
Administração

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
Novo Construção Cazernas da Policia Municipio de Lautem	\$1,666,830.20	FI 2025: \$0; Kodigu atividade 366132D: Novo Konstrusaun Kazerna iha Posto Lautem	CAFI : Konfirmasaun Finansiamentu CAFI: alinea 1 (b) Artigo Artigo 5.º Competência para a autorização da despesa.
Novo Construção Cazernas da Policia Municipio de Lautem (Lore)	\$1,427,310.28	FI 2025: \$0; Kodigu atividade 366132C: Novo Konstrusaun Kazerna iha Posto Lore	CAFI : Konfirmasaun Finansiamentu CAFI: alinea 1 (b) Artigo Artigo 5.º Competência para a autorização da despesa.

*N
h
J*



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



Conselho de
Administração

Aprovado husi CAFI iha loron 23 de maio 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

DELIBERASAUN N.º63/V/CAFI/2025

Página 5 hosi 6



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



Conselho de
Administração

Annexo:



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

NOTA DE DESPAICHO

1. ORIGEM DO DOCUMENTO

N Ref; 387/ DNA-DGAF/MI/VI/2025

Data do Documento : 22/ 05 /2025

Proveniência do Documento

Ministeriu Interior

2. DETALHES DO DOCUMENTO

Data Entrada do Documento: 22/ 05 /2025

Enviado ao:

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

Assunto:

Agenda CAFI

3. INSTRUÇÃO DO DIRETOR DO SGP

Data do Despacho: 22 J/2025

Para Sr/a

1. Sr/a Mauricio Borges
2. Sr/a Maria Fonseca
3. Sr/a Fatima Fortes

Despacho:

Assinatura :

Mauricio Borges



MINISTÉRIO DO INTERIOR
DIREÇÃO-GERAL de ADMINISTRAÇÃO e FINANÇAS
DIREÇÃO NACIONAL DE APROVISIONAMENTO



Data : 22 Fulan Maio 2025

Nú Oficio : 302/DNA-DGAF/MI/V/2025

Para/To: Ex^{mo} Diretor Secretariado Grandes Projeto (SGP)
Sr. Maurício Borges

Assunto : Agenda CAFI

Ho respeito,

Baseia ba assunto iha leten, hosi Dirasaun Nasional Aprovisionamento Ministerio do Interior hato'o ba **Ex^{mo} Sr. Diretor Secretariado Grandes Projeto (SGP)** hodi **Agenda CAFI** ba Projeto Ministerio do Interior ne'ebe maka orçamentada iha Fundos Infraestrura (FI) no projeto Consul hirak ne'e hetan ona Verifikasi saun iha A.D.N, I.P. maka hanesan tuir mai ne'e;

1. Novo construção casernas da polícia PNTL Municipio Lautem
2. Novo construção casernas da polícia PNTL Municipio Lautem (Lore)

(Anexo dokumentos verifikasi ADN)

Prepara :

Rocella M Francisca Campos

Teknik Administrativu, DNA-MI

Vistu:

João da Cruz, SE.M.S.I.

Diretor DNA





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



Data/ Date:
21 fulan Maio tinan 2025

Nú, Oficio: 389 /DNADGAF/MI/V/2025

Para/ To :
Exmo. Dirétor Secretariado dos Grandes Projectos (SGP)
Sr. Mauricio Borges

Assunto : Hato'o Justifikasi Tekniko

(*New Construction of Cazernas PNTL Municipality Lautem, and New Construction of Cazernas PNTL Lore, Municipality Lautem*)

Ho Respeito,

Baseia ba assunto iha leten, Diretor DNA-MI hakarak relata ba exmo. Dirétor Secretariado dos Grandes Projectos (SGP) kona ba Justifikasi Tekniko ba Projeto, New Construction of Cazernas Municipality Lautem and New Construction of Cazernas Posto Lore, Municipality Lautem hetan ona verifikasi Final husi ADN ho Total Orsamentu ba kada Projetos ho montante maka hanesan tuir mai :

1. New Construction of Cazernas Municipality Lautem ho Orsamento \$1,666,830.26 Dollar Americano (Resultadu Verifikasi ADN)
2. New Construction of Cazernas Posto Lore, Municipality Lautem ho Orsamento \$1,427,310.28 Dollar Americano (Resultadu Verifikasi ADN)

I. Informasaun Jerál

New Construction of Municipality Lautem, no New Construction of Posto Lore, Municipality Lautem, importante tanba envolve objetivu prinsipál balun.

Primeiru, konstrusaun Postu Cazernas Administrativo ho objetivu atu dezenvolve infrastrutura konstrusaun Postu Cazernas 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 monitorizasaun ba ameasa seguransa potensiál sira no krimen sira ne'ebé akontese iha Posto.

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

A. Justifikasi Teknika :

New Construction Cazernas Posto

- | | |
|-------------------|---|
| 1. Título Projeto | : New Construction of Cazernas, Municipality Lautem |
| Kategoria | : Projeto Foun |
| Tinan Civil | : 2025 |

Total osan Verifikadu BoQ : \$1,666,830.26 (Resultadu Verifikasiadu ADN)

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

Kategoria : Projetu Foun
Tinan Civil : 2025

Total osan Verifikadu BoQ : \$1,427,310.28 (Resultadu Verifikasiadu ADN)

B. Justifikasiadu Juridika:

1) Konformidade legal ba Novo Construçao ba Cazernas PNTL, iha Posto Administrativo Lore no Lautem :

- a) Prosesu lisensiamentu no aprovisaun hotu-hotu hala'o ona tuir provizaun legal aplikavel sira hanesan Desenho no BoQ hetan ona verifikasiadu husi MOP no Verifikasiadu final husi ADN
- b) Konformidade legal ba ba Konstrusaun no Reabilitasaun ba postu lina fronteira baseia ba Decretu-Lei No.22 tahun 2022 de 11 de Maio 2022 kona ba Rezime Juridico do Aprovisionamentu, dos Contratos Publicos a das Respetivas infraçōens.

➤ Solisitasaun kotasaun sira Artigo 35º

Solisitasaun kotasaun sira nu'udar prosedimentu ida husi aprovisionamentu konkorrensiál husi ámbitu restritu katak sei dezenvolve liuhosi haruka konvite ba pelumenus ema na'in tolu, singular ka koletiva, ka agrupamentu, ba aprezentasaun proposta.

➤ Prosedimentu husi valór hanesan ka superior ba US\$ 100.000 artigu 39º

- 1) Prosedimentu aprovisionamentu husi valór hanesan ka superior ba US\$ 100.000, entidde adjudikante tenke adota hanesan prosedimentu aprovisionamentu konkursu.
- 2) Entidade adjudikante bele adota hanesan prosedimentu aprovisionamentu solisitasaun kotasaun sira ka ajuste diretu iha situasaun sira previstu iha artigu 42º.

➤ Regra espesiál sira / single sources nia sistema artigu 42º

• Razaun utilizasaun prosedimentu aprovisionamentu ba Solisitasaun kotasaun

- a) Hanesan mensiona iha Artigu 39 parágrafo 2, katak Entidade adjudikante bele adota hanesan prosedimentu aprovisionamentu solisitasaun kotasaun sira ka ajuste diretu iha situasaun sira previstu iha artigu 42º
- b) Hodí fó atensaun ba Artigu 42, iha regra espesiál sira ne'ebé bele sai hanesan baze legal hodí konsidera utilizasaun Solisitasaun kotasaun iha situasaun sira hanesan deskreve ona iha parágrafo (1) Alinea (a) no (b), hodí permite utilizasaun Solisitasaun kotasaun ne'ebé resulta husi kompetisaun ba iha situasaun sira ne'ebé presiza kompania nia abilidade hodí halao servisu.

Ho referénsia ba provizaun hirak-ne'e, Ministeriu Interior propoin atu uza Solisitasaun kotasaun nu'udar prosedimentu aprovisionamentu ba projeto Novo Construçao ba Cazernas PNTL, iha Posto Administrativo Lore no Lautem ho nia razaun prinsipál mak hanesan tuirmai ne'e :

- (1) Uza Solisitasaun kotasaun sei permite atu hetan proposta oioin husi kontraktor sira ne'ebé konsidera projeto refere ho nia nesesidade úniku sira.

- (2) Solisitasauñ kotasauñ nu'udar rezultadu husi kompetisaun tuiñ Artigu 42 alinea (a), sei fasilita kontraktor atu halo servisu tuiñ nesesidade sira.

(3) Solisitasauñ kotasauñ permite atu hili kontraktor ne'ebé iha vizaun no solusaun ne'ebé di'ak liu atu responde ba nesesidade agencia ho loloos no inovativu.

*“Utilizasaun ba prosedimentu aprovisionamentu ho modalidade **Solisitasaun Kotasaun** Sira iha artigu 35º no artigu 39º paragrafu (b)”katak Entidade adjudikante bele adota hanesan prosedimentu aprovisionamentu solisitasaun kotasaun sira ka ajuste diretu iha situasaun sira previstu iha artigu (42º) no baseia ba artigu 42º paragrafu (1) Alinea (a) no alinea (b) permite aprovisionamentu hanesan fundamentu ba utilizasaun prosedimentu aprovisionamentu ne’ebé lalais no eficiente nune bele aslera preparasaun ba infraestrutura fisika sira hodi bele responde ba kestoens emerjénsia sira iha future”.*

II. Recomendasaun

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

- 1) Autorizasaun despeza ba Projetu Novo Construcao Cazernas Policia iha Municipiu Lautem ne'be nia desenho no BoQ hetan ona verifikasi saun MOP ho Valor Orsamentu \$1,666,830.26 Dollar Americano sei foti husi orsamentu alokadu FI 2024 ba Ministeriu Interior
 - 2) Autorizasaun despeza ba Projetu Novo Construcao Cazernas Policia iha Municipiu Lautem ne'be nia desenho no BoQ hetan ona verifikasi saun MOP ho Valor Orsamentu \$1,427,310.28 Dollar Americano sei foti husi orsamentu alokadu FI 2024 ba Ministeriu Interior
 - 3) ho lina orsamentu ba Novo Construcao Cazernas Policia iha Municipiu Lautem ho kodigo atividade (366132D), no Novo Construcao Cazernas Policia iha Municipiu Lautem Posto Lore kodigo atividade (366132C)
 - 4) Utilizasaun ba prosedimentu aprovisionamento ho modalidade **Solisitasau Kotasaun** baseia ba artigu 35º no Artigu 39º paragraf (b) no Artigu 42º tuir Decretu-Lei No.22 tahun 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 t cnico no legal nebe ami relata ba exmo. Director SGP e lahaluhan hato'o Melhores Comprimentos.

~~Diretório DNA~~

João da Cruz, S.E.M.S.i



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

**PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO
DE LAUTEM (LORE)**

PROJECT LOCATION : LORE, LAUTEM, TIMOR-LESTE

SUMMARY GERAL

NO	DESCRIPTION OF WORKS	OWNER COST ESTIMATION		RESULT, ADN, I.P	
		AMOUNT (\$)	AMOUNT (\$)	AMOUNT (\$)	AMOUNT (\$)
1	SITE PLAN	\$ 243,155.92	\$ 231,603.41		
2	PRIMEIRO COMANDANTE	\$ 83,102.82	\$ 78,539.02		
3	SEGUNDO COMANDANTE	\$ 64,139.54	\$ 61,263.27		
4	AGENTE HOUSE 4 UNIT	\$ 451,365.72	\$ 359,680.28		
5	DORMITORY FEMALE	\$ 92,201.39	\$ 82,394.62		
6	DORMITORY MALE	\$ 92,125.66	\$ 83,114.52		
7	GYM ROOM	\$ 59,737.42	\$ 55,727.97		
8	POST	\$ 17,728.81	\$ 17,141.41		
9	TOWER DISTRIBUSI AND UNDERGROUND TANK	\$ 26,469.62	\$ 28,179.91		
10	CONTROL PANEL HOUSE	\$ 704.54	\$ 707.74		
11	LANDSCAPE	\$ 151,732.08	\$ 143,436.84		
A	TOTAL CONSTRUCTION COST	\$ 1,282,463.53	\$ 1,141,789.00		
B	CONTRACTOR FEE (10% * A)	\$ 128,246.35	\$ 114,178.90		
C	OVERHEAD	\$ 25,900.00	\$ 29,177.00		
D	CONTINGENCY (10 % * A)	\$ 28,732.20	\$ 114,178.90		
E	TAX (2% x (A+B+C+D))	\$ 128,246.35	\$ 27,986.48		
G	TOTAL (A+B+C+D+E+F)	\$ 1,593,588.44	\$ 1,427,310.28		

Verified By:

Eng. Bosco Dinis de Sousa
Civil Engineering UAP - ADN, I.P.

Checked By:

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

Certified By:

Arch. José Fernando Liu Soares
Coordenador UAP - ADN.I.P
14/05/2025

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

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



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

PROJECT OWNER

: MINISTERIO DO INTERIOR

PROJECT TITLE

: NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM (LORE)

PROJECT LOCATION

: LORE, LAUTEM, TIMOR-LESTE

OVERHEAD OWNER COST ESTIMATION						RESULT, ADN, I.P.			
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (\$)	AMOUNT (\$)
I	PROJECT TEAM								
1	STAFF TEKNIKU								
	Project Manager					Ls	1.00	\$ 6,000.00	\$ 6,000.00
	Site Engineering	month	12.00	\$ 1,000.00	\$ 12,000.00	Ls	1.00	\$ 6,000.00	\$ 6,000.00
	Health, Safety and Environment								
	Surveyor					Ls	1.00	\$ 1,500.00	\$ 1,500.00
2	STAFF APOIO SERVISU								
	Logistics					Ls	1.00	\$ 1,800.00	\$ 1,800.00
	Administration					Ls	1.00	\$ 1,800.00	\$ 1,800.00
	security for 2 Person	month	12.00	\$ 450.00	\$ 5,400.00	Ls	1.00	\$ 3,600.00	\$ 3,600.00
II	KUSTU OPERASIONAL								
1	OPERATIONAL OFFICE								
	Communication					Ls	1.00	\$ 250.00	\$ 250.00
	Meeting fee	month	12.00	\$ 100.00	\$ 1,200.00	Ls	1.00	\$ 600.00	\$ 600.00
	Electricity					Ls	1.00	\$ 1,000.00	\$ 1,000.00
	Water					Ls	1.00	\$ 1,000.00	\$ 1,000.00
2	RELATORIOS								
	Project report and documentation	month	12.00	\$ 150.00	\$ 1,800.00				
	Daily, weekly, monthly reports					Ls	1.00	\$ 1,800.00	\$ 1,800.00
	As build drawing	Ls	1.00	\$ 500.00	\$ 500.00				
	Shop drawings, as built drawings					Ls	1.00	\$ 500.00	\$ 500.00
	Quality control report, test report, engineering report, final report					Ls	1.00	\$ 500.00	\$ 500.00
3	KUSTU SERVISU APOIO NIAN								
	Safety equipment and first AID equipment	Ls	1.00	\$ 3,000.00	\$ 3,000.00	Ls	1.00	\$ 1,000.00	\$ 1,000.00
	Material sampling and testing	Ls	1.00	\$ 2,000.00	\$ 2,000.00	Ls	1.00	\$ 1,827.00	\$ 1,827.00
	TOTAL				\$ 25,900.00				\$ 29,177.00



AGENCIA DE DESENVOLVIMENTO NACIONAL - I.P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR-LESTE

DETAIL-COST ESTIMATION										
OWNER COST ESTIMATION						RESULT, ADN I.P				
SITE PLAN	NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
1. PREPARATION WORK WORK										
1	Project name plate	Ls	1.00	\$ 90.29	\$ 90.29	Ls	1.00	\$ 90.34	\$ 90.34	
2	Temporary Fence	m1	307.80	\$ 14.05	\$ 4,324.59	m1	307.80	\$ 14.07	\$ 4,330.75	
3	Temporary Project Office	m2	24.00	\$ 147.31	\$ 3,535.44	m2	24.00	\$ 148.60	\$ 3,566.40	
4	Material Storage Warehouse	m2	60.00	\$ 130.60	\$ 7,836.00	m2	60.00	\$ 134.92	\$ 8,095.20	
5	Workers Room	m2	24.00	\$ 50.00	\$ 1,200.00	m2	24.00	\$ 50.00	\$ 1,200.00	
6	Mobilization and demobilization of work equipment	Ls	1.00	\$ 2,500.00	\$ 2,500.00	Ls	1.00	\$ 6,400.00	\$ 6,400.00	
7	Other heavy equipment mobilization and demobilization	Ls	1.00	\$ 5,000.00	\$ 5,000.00					
8	Electricity Supply for work	Ls	1.00	\$ 6,000.00	\$ 6,000.00					
9	Water Supply for work	Ls	1.00	\$ 6,000.00	\$ 6,000.00					
		Sub Total			\$ 36,486.32				\$ 23,682.69	
2. CIVIL WORKS										
A. CUTING AND FILL WORK										
I	EARTH WORK									
1	Filling for all site Thicknes	m3	6537.37	\$ 8.41	\$ 54,979.25	m3	6537.37	\$ 6.22	\$ 40,645.30	
	Sub Total				\$ 54,979.25				\$ 40,645.30	
B. FENCE										
I	EARTH WORK									
Bowplank		Ls	1.00	\$ 400.00	\$ 400.00	Ls	1.00	\$ 400.00	\$ 400.00	
Excavation for ordinary foundation		m3	353.79	\$ 5.17	\$ 1,829.10	m3	353.79	\$ 2.62	\$ 925.54	
Foundation excavation back filling		m3	88.45	\$ 1.71	\$ 151.25	m3	88.45	\$ 1.70	\$ 150.36	
Sand filling under foundation 50mm		m3	16.08	\$ 12.01	\$ 193.14	m3	16.08	\$ 32.51	\$ 522.81	
Stone Masonry 1 Pcs:4 Ps		m3	175.43	\$ 109.55	\$ 19,218.79	m3	175.43	\$ 112.82	\$ 19,792.46	
Lean Concrete K 100		m3	3.89	\$ 154.32	\$ 600.00	m3	3.89	\$ 221.80	\$ 862.36	
II	STRUCTURAL WORK									
footplate										
Concrete K 275	m3	15.55	\$ 181.78	\$ 2,827.04	m3	15.55	\$ 235.18	\$ 3,657.52		
Reinforced	kg	2908.22	\$ 1.60	\$ 4,661.88	kg	2908.22	\$ 1.87	\$ 5,438.38		
Formwork	m2	77.76	\$ 19.86	\$ 1,544.31	m2	77.76	\$ 19.57	\$ 1,521.76		
Padestal										
Concrete K 275	m3	4.97	\$ 181.78	\$ 903.08	m3	4.97	\$ 235.18	\$ 1,168.37		
Reinforced	kg	1255.37	\$ 1.60	\$ 2,012.36	kg	1255.37	\$ 1.87	\$ 2,347.55		
Formwork	m2	99.36	\$ 40.88	\$ 4,061.84	m2	99.36	\$ 43.63	\$ 4,335.08		
Ground Beam 20x25cm										
Concrete K 275	m3	14.62	\$ 181.78	\$ 2,657.53	m3	14.62	\$ 235.18	\$ 3,438.21		
Reinforced	kg	2159.79	\$ 1.60	\$ 3,462.14	kg	2159.79	\$ 1.87	\$ 4,038.80		
Formwork	m2	146.20	\$ 29.86	\$ 4,365.38	m2	146.20	\$ 32.69	\$ 4,779.11		
Midle Beam 15x15 cm										
Concrete K 275	m3	6.58	\$ 181.78	\$ 1,195.89	m3	6.58	\$ 235.18	\$ 1,547.20		
Reinforced	kg	1106.60	\$ 1.60	\$ 1,773.88	kg	1106.60	\$ 1.87	\$ 2,069.34		
Formwork	m2	87.72	\$ 50.45	\$ 4,425.32	m2	87.72	\$ 53.20	\$ 4,666.54		
Top Beam 20x20cm										
Concrete K 275	m3	11.70	\$ 181.78	\$ 2,126.03	m3	11.70	\$ 235.18	\$ 2,750.57		
Reinforced	kg	2082.79	\$ 1.60	\$ 3,338.71	kg	2082.79	\$ 1.87	\$ 3,894.82		
Formwork	m2	116.96	\$ 50.45	\$ 5,900.43	m2	116.96	\$ 53.20	\$ 6,222.06		
Column 30x30 cm										
Concrete K 275	m3	27.22	\$ 181.78	\$ 4,947.32	m3	27.22	\$ 235.18	\$ 6,400.66		
Reinforced	kg	2973.00	\$ 1.60	\$ 4,765.71	kg	2973.00	\$ 1.87	\$ 5,559.50		
Formwork	m2	181.44	\$ 40.88	\$ 7,417.27	m2	181.44	\$ 43.63	\$ 7,916.23		
III	ARCHITECTURAL WORK									
Block wall 40x20x10cm	m2	641.27	\$ 15.43	\$ 9,894.85	m2	641.27	\$ 16.92	\$ 10,850.35		
wall plaster 1pc:4ps	m2	1282.55	\$ 5.93	\$ 7,605.50	m2	1282.55	\$ 6.57	\$ 8,426.33		
finishing cement	m2	1282.55	\$ 3.49	\$ 4,476.09	m2	1282.55	\$ 3.32	\$ 4,258.06		
wall painting	m2	1282.55	\$ 3.57	\$ 4,578.69	m2	1282.55	\$ 3.60	\$ 4,617.17		



AGENCIA DE DESENVOLVIMENTO NACIONAL I.P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR-LESTE

DETAIL-COST ESTIMATION

OWNER COST ESTIMATION

RESULT, ADN I.P.

SITE PLAN		OWNER COST ESTIMATION				RESULT, ADN I.P.			
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
	Sub Total				\$ 111,333.56				\$ 122,557.15
C. GAPURA									
I EARTH WORK									
Bowplank	m'	12.00	\$ 11.15	\$ 133.80	m'	12.00	\$ 11.04	\$ 132.48	
Excavation for ordinary foundation	m3	5.27	\$ 5.17	\$ 27.25	m3	5.27	\$ 2.62	\$ 13.79	
Foundation excavation back filling	m3	3.95	\$ 1.71	\$ 6.76	m3	3.95	\$ 1.70	\$ 6.72	
Sand filling under foundation 50mm	m3	0.26	\$ 12.01	\$ 3.16	m3	0.26	\$ 32.51	\$ 8.57	
Lean Concrete K 100	m3	0.26	\$ 154.32	\$ 40.66	m3	0.26	\$ 221.80	\$ 58.44	
II STRUCTURAL WORK									
footplate									
Concrete K 275	m3	1.05	\$ 181.78	\$ 191.60	m3	1.05	\$ 235.18	\$ 247.88	
Reinforced	kg	262.49	\$ 1.60	\$ 420.77	kg	262.49	\$ 1.87	\$ 490.86	
Formwork	m2	3.55	\$ 19.86	\$ 70.50	m2	3.55	\$ 19.57	\$ 69.47	
Concrete K 275	m3	0.59	\$ 181.78	\$ 106.34	m3	0.59	\$ 235.18	\$ 137.58	
Reinforced	kg	150.46	\$ 1.60	\$ 241.19	kg	150.46	\$ 1.87	\$ 281.37	
Formwork	m2	7.80	\$ 40.88	\$ 318.86	m2	7.80	\$ 43.63	\$ 340.31	
Beam (B1) 20x25cm									
Concrete K 275	m3	1.24	\$ 181.78	\$ 225.41	m3	1.24	\$ 235.18	\$ 291.62	
Reinforced	kg	395.08	\$ 1.60	\$ 633.31	kg	395.08	\$ 1.87	\$ 738.80	
Formwork	m2	17.36	\$ 29.86	\$ 518.37	m2	17.36	\$ 53.20	\$ 923.55	
Beam (B2) 20x25cm									
Concrete K 275	m3	0.54	\$ 181.78	\$ 98.16	m3	0.54	\$ 235.18	\$ 127.00	
Reinforced	kg	172.05	\$ 1.60	\$ 275.80	kg	172.05	\$ 1.87	\$ 321.74	
Formwork	m2	7.56	\$ 50.45	\$ 381.40	m2	7.56	\$ 53.20	\$ 402.19	
Beam (B3) 15x25cm									
Concrete K 275	m3	0.71	\$ 181.78	\$ 128.15	m3	0.71	\$ 235.18	\$ 165.80	
Reinforced	kg	153.40	\$ 1.60	\$ 245.89	kg	153.40	\$ 1.87	\$ 286.85	
Formwork	m2	12.22	\$ 50.45	\$ 616.50	m2	12.22	\$ 53.20	\$ 650.10	
Column C1 30x30 cm									
Concrete K 275	m3	0.68	\$ 181.78	\$ 122.70	m3	0.68	\$ 235.18	\$ 158.75	
Reinforced	kg	127.50	\$ 1.60	\$ 204.38	kg	127.50	\$ 1.87	\$ 238.43	
Formwork	m2	9.00	\$ 40.88	\$ 367.92	m2	9.00	\$ 43.63	\$ 392.67	
Column C2 20x20 cm									
Concrete K 275	m3	1.84	\$ 181.78	\$ 334.48	m3	1.84	\$ 235.18	\$ 432.73	
Reinforced	kg	706.32	\$ 1.60	\$ 1,132.23	kg	706.32	\$ 1.87	\$ 1,320.82	
Formwork	m2	36.80	\$ 40.88	\$ 1,504.38	m2	36.80	\$ 43.63	\$ 1,605.58	
Column C3 15X15 cm									
Concrete K 275	m3	0.08	\$ 181.78	\$ 14.72	m3	0.08	\$ 235.18	\$ 19.05	
Reinforced	kg	13.62	\$ 1.60	\$ 21.84	kg	13.62	\$ 1.87	\$ 25.48	
Formwork	m2	2.16	\$ 40.88	\$ 88.30	m2	2.16	\$ 43.63	\$ 94.24	
Concrete Plate +5.00									
Concrete K 275	m3	2.11	\$ 181.78	\$ 382.83	m3	2.11	\$ 235.18	\$ 495.29	
Reinforced	kg	144.38	\$ 1.60	\$ 231.44	kg	144.38	\$ 1.87	\$ 269.99	
Formwork	m2	14.04	\$ 50.45	\$ 708.32	m2	14.04	\$ 53.20	\$ 746.93	
Concrete Plate +6.00									
Concrete K 275	m3	2.05	\$ 181.78	\$ 373.01	m3	2.05	\$ 235.18	\$ 482.59	
Reinforced	kg	140.68	\$ 1.60	\$ 225.50	kg	140.68	\$ 1.87	\$ 263.06	
Formwork	m2	13.68	\$ 50.45	\$ 690.16	m2	13.68	\$ 53.20	\$ 727.78	
III ARCHITECTURAL WORK									
Block wall 40x20x10cm	m2	15.75	\$ 15.43	\$ 243.02	m2	15.75	\$ 16.92	\$ 266.49	
Natural Stone High Quality	m2	15.75	\$ 65.81	\$ 1,036.51	m2	15.75	\$ 72.50	\$ 1,141.88	
List Concrete for beam	m1	6.20	\$ 50.00	\$ 310.00	m1	6.20	\$ 50.00	\$ 310.00	
List Concrete for foot column	unit	10.00	\$ 150.00	\$ 1,500.00	unit	10.00	\$ 150.00	\$ 1,500.00	



AGENCIA DE DESENVOLVIMENTO NACIONAL I.P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR-LESTE

DETAIL-COST ESTIMATION

OWNER COST ESTIMATION

RESULT, ADN I.P

SITE PLAN		OWNER COST ESTIMATION				RESULT, ADN I.P			
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
	Logo PNTL (Plate Stainlesssteel)	Ls	1.00	\$ 500.00	\$ 500.00	Ls	1.00	\$ 180.00	\$ 180.00
	Sub Total				\$ 14,675.65				
	GAPURA 1 UNIT				\$ 14,675.65				\$ 16,366.87
D. GATE									
I	EARTH WORK								
	Excavation Foundation	m3	2.20	\$ 5.17	\$ 11.37	m3	2.20	\$ 2.62	\$ 5.76
	Sand Fill	m3	0.20	\$ 12.01	\$ 2.40	m3	0.20	\$ 32.51	\$ 6.50
	Concrete foundation	m3	2.00	\$ 181.78	\$ 363.56	m3	2.00	\$ 235.18	\$ 470.36
II	STEEL WORK								
	Steel RHS 50X80X4mm	kg	141.25	\$ 2.18	\$ 307.93	kg	141.25	\$ 2.44	\$ 344.66
	Steel RHS 50X80X3mm	kg	167.77	\$ 2.18	\$ 365.74	kg	167.77	\$ 2.44	\$ 409.36
	Steel SHS 40X40X2mm	kg	124.74	\$ 2.18	\$ 271.93	kg	124.74	\$ 2.44	\$ 304.37
	Steel Plate 2mm	kg	113.04	\$ 2.10	\$ 237.38	kg	113.04	\$ 2.44	\$ 275.82
	Steel L 50X50X5mm	kg	39.30	\$ 2.10	\$ 82.53	kg	39.30	\$ 2.44	\$ 95.89
	Stainless Steel Wheels	unit	6.00	\$ 25.00	\$ 150.00	unit	6.00	\$ 25.00	\$ 150.00
	Steel Painting	m2	13.00	\$ 6.32	\$ 82.16	m2	13.00	\$ 4.16	\$ 54.08
	Sub Total				\$ 1,875.02				
	GATE 1 UNIT				\$ 1,875.02				\$ 2,116.79
E. FENCE FOR COMANDANTE									
I	EARTH WORK								
	Bowplank	Ls	1.00	\$ 200.00	\$ 200.00	Ls	1.00	\$ 200.00	\$ 200.00
	Excavation for ordinary foundation	m3	36.96	\$ 5.17	\$ 191.08	m3	36.96	\$ 2.62	\$ 96.69
	Foundation excavation back filling	m3	9.24	\$ 1.71	\$ 15.80	m3	9.24	\$ 1.70	\$ 15.71
	Sand filling under foundation 50mm	m3	3.26	\$ 12.01	\$ 39.09	m3	3.26	\$ 32.51	\$ 105.82
	Stone Masonry 1 Pc:4 Ps	m3	15.23	\$ 109.55	\$ 1,667.90	m3	15.23	\$ 112.82	\$ 1,717.68
	Lean Concrete K 100	m3	0.63	\$ 154.32	\$ 97.22	m3	0.63	\$ 221.80	\$ 139.73
II	STRUCTURAL WORK								
Footplate									
	Concrete K 275	m3	2.52	\$ 181.78	\$ 458.09	m3	2.52	\$ 235.18	\$ 592.65
	Reinforced	kg	320.32	\$ 1.60	\$ 513.47	kg	320.32	\$ 1.87	\$ 599.00
	Formwork	m2	16.80	\$ 19.86	\$ 333.65	m2	16.80	\$ 19.57	\$ 328.78
Padestal									
	Concrete K 275	m3	1.05	\$ 181.78	\$ 190.87	m3	1.05	\$ 235.18	\$ 246.94
	Reinforced	kg	171.59	\$ 1.60	\$ 275.05	kg	171.59	\$ 1.87	\$ 320.87
	Formwork	m2	21.00	\$ 40.88	\$ 858.48	m2	21.00	\$ 43.63	\$ 916.23
Ground Beam 20x25cm									
	Concrete K 275	m3	5.08	\$ 181.78	\$ 922.53	m3	5.08	\$ 235.18	\$ 1,193.54
	Reinforced	kg	749.75	\$ 1.60	\$ 1,201.84	kg	749.75	\$ 1.87	\$ 1,402.03
	Formwork	m2	50.75	\$ 29.86	\$ 1,515.40	m2	50.75	\$ 32.69	\$ 1,659.02
Midle Beam 15x15 cm									
	Concrete K 275	m3	0.26	\$ 181.78	\$ 47.04	m3	0.26	\$ 235.18	\$ 60.85
	Reinforced	kg	55.62	\$ 1.60	\$ 89.16	kg	55.62	\$ 1.87	\$ 104.01
	Formwork	m2	3.45	\$ 50.45	\$ 174.05	m2	3.45	\$ 53.20	\$ 183.54
Top Beam 20x20cm									
	Concrete K 275	m3	2.58	\$ 181.78	\$ 468.99	m3	2.58	\$ 235.18	\$ 606.76
	Reinforced	kg	626.92	\$ 1.60	\$ 1,004.95	kg	626.92	\$ 1.87	\$ 1,172.34
	Formwork	m2	34.40	\$ 50.45	\$ 1,735.48	m2	34.40	\$ 53.20	\$ 1,830.08
Column 30x30 cm									
	Concrete K 275	m3	3.15	\$ 181.78	\$ 572.61	m3	3.15	\$ 235.18	\$ 740.82
	Reinforced	kg	422.36	\$ 1.60	\$ 677.05	kg	422.36	\$ 1.87	\$ 789.82
	Formwork	m2	47.25	\$ 40.88	\$ 1,931.58	m2	47.25	\$ 43.63	\$ 2,061.52
III ARCHITECTURAL WORK									
Block wall 40x20x10cm	m2	159.40	\$ 15.43	\$ 2,459.54	m2	159.40	\$ 16.92	\$ 2,697.05	
wall plester 1pc:4ps	m2	318.80	\$ 5.93	\$ 1,890.48	m2	318.80	\$ 6.57	\$ 2,094.52	



AGENCIA DE DESENVOLVIMENTO NACIONAL, E. P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR-LESTE

DETAIL-COST ESTIMATION										
OWNER COST ESTIMATION							RESULT, ADN I.P			
SITE PLAN		DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
	finishing cement	m2	318.80	\$ 3.49	\$ 1,112.61	m2	318.80	\$ 3.32	\$ 1,058.42	
	Painting Wall	m2	318.80	\$ 3.57	\$ 1,138.12	m2	318.80	\$ 3.60	\$ 1,147.68	
	Railling fence SHS 40X40X3MM	kg	331.46	\$ 2.18	\$ 722.58	kg	331.46	\$ 2.44	\$ 808.76	
	Steel Painting for railling fence	m2	14.07	\$ 6.32	\$ 88.90	m2	14.07	\$ 4.16	\$ 58.52	
	Sub Total				\$ 22,593.63				\$ 24,949.36	
F. FLAG POLE										
I	EARTH WORK									
	Excavation for ordinary foundation	m3	0.24	\$ 5.17	\$ 1.24	m3	0.24	\$ 2.62	\$ 0.63	
	Soil filling under floor	m3	1.02	\$ 8.41	\$ 8.59	m3	1.02	\$ 8.29	\$ 8.47	
	Sand filling under floor 50mm	m3	0.32	\$ 12.01	\$ 3.87	m3	0.32	\$ 32.51	\$ 10.48	
	Lean Concrete K 100	m3	0.01	\$ 154.32	\$ 1.85	m3	0.01	\$ 221.80	\$ 2.66	
II	STRUCTURAL WORK									
	Footplate									
	Concrete K 275	m3	0.07	\$ 181.78	\$ 13.09	m3	0.07	\$ 235.18	\$ 16.93	
	Reinforced	kg	13.73	\$ 1.60	\$ 22.01	kg	13.73	\$ 1.87	\$ 25.67	
	Formwork	m2	0.48	\$ 19.86	\$ 9.53	m2	0.48	\$ 19.57	\$ 9.39	
	Padestal									
	Concrete K 275	m3	0.17	\$ 181.78	\$ 29.99	m3	0.17	\$ 235.18	\$ 38.80	
	Reinforced	kg	18.13	\$ 1.60	\$ 29.07	kg	18.13	\$ 1.87	\$ 33.91	
	Formwork	m2	1.76	\$ 40.88	\$ 71.95	m2	1.76	\$ 43.63	\$ 76.79	
	concrete curb									
	Concrete K 275	m3	0.48	\$ 181.78	\$ 87.98	m3	0.48	\$ 235.18	\$ 113.83	
	Reinforced	kg	56.79	\$ 1.60	\$ 91.03	kg	56.79	\$ 1.87	\$ 106.20	
	Formwork	m2	9.68	\$ 29.86	\$ 289.04	m2	9.68	\$ 29.86	\$ 289.04	
III	ARCHITECTURAL WORK									
	Spesi t=3cm	m2	4.75	\$ 7.72	\$ 36.67	m2	4.75	\$ 7.72	\$ 36.67	
	Wall Finishing	m2	4.75	\$ 3.49	\$ 16.58	m2	4.75	\$ 3.32	\$ 15.77	
	Stainless Steel Pipe 2-1 inch Include all accessories	Unit	1.00	\$ 500.00	\$ 500.00	Unit	1.00	\$ 500.00	\$ 500.00	
	Sub Total				\$ 1,212.50				\$ 1,285.25	
	Total Site Plan				\$ 243,155.92				\$ 231,603.41	
PRIMEIRO COMANDANTE										
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	
PREPARATION WORK										
A	GENERAL WORKS									
1	Setting out and measurement (Bouwplank)	m'	62.00	\$ 11.15	\$ 691.30	m'	62.00	\$ 11.04	\$ 684.48	
	Sub Total				\$ 691.30				\$ 684.48	
B	EARTH WORK									
1	Excavation for ordinary foundation	m3	132.11	\$ 5.17	\$ 683.01	m3	132.11	\$ 2.62	\$ 345.61	
2	Foundation excavation back filling	m3	33.03	\$ 1.71	\$ 56.48	m3	33.03	\$ 1.70	\$ 56.15	
3	Sand filling under foundation 50mm	m3	6.61	\$ 12.01	\$ 79.33	m3	6.61	\$ 32.51	\$ 214.74	
4	Sand filling under floor 50mm	m3	7.80	\$ 12.01	\$ 93.68	m3	7.80	\$ 32.51	\$ 253.58	
5	Soil fill for levelling floor	m3	62.10	\$ 8.29	\$ 514.81	m3	62.10	\$ 8.29	\$ 514.81	
6	Compacted floor	m3	62.10	\$ 4.25	\$ 263.93	m3	62.10	\$ 4.20	\$ 260.82	
	Sub Total				\$ 1,691.23				\$ 1,645.71	
ARCHITECTURAL WORK										
A	WALL MASONRY AND RENDER WORK									
1	Stone masonry work (1 cement : 4 sand)	m3	69.36	\$ 109.55	\$ 7,598.14	m3	69.36	\$ 112.82	\$ 7,824.94	
3	Ordinary block wall masonry 40x20x10 cm (1 cement : 4 sand) for 1st floor	m2	276.84	\$ 15.43	\$ 4,271.68	m2	276.84	\$ 16.92	\$ 4,684.18	
4	Ordinary wall plaster (1 cement : 4 sand) for 1st floor	m2	553.69	\$ 5.93	\$ 3,283.35	m2	553.69	\$ 6.40	\$ 3,543.58	
5	Cement render for 1st floor	m2	553.69	\$ 3.49	\$ 1,932.36	m2	553.69	\$ 3.32	\$ 1,838.23	
6	Bathroom Wall ceramic : 40x40 cm	m2	37.60	\$ 49.43	\$ 1,858.57	m2	37.60	\$ 26.87	\$ 1,010.31	
	Sub Total				\$ 18,944.10				\$ 18,901.25	



AGENCIA DE DESENVOLVIMENTO NACIONAL, I.P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR-LESTE

DETAIL-COST ESTIMATION

OWNER COST ESTIMATION						RESULT, ADN I.P.			
SITE PLAN									
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
B	FLOOR WORK								
1	Floor ceramic + stair : 40x40 cm	m2	94.10	\$ 49.43	\$ 4,651.36	m2	94.10	\$ 26.87	\$ 2,528.47
2	Bathroom Floor ceramic : 40x40 cm	m2	11.25	\$ 49.43	\$ 556.09	m2	11.25	\$ 26.87	\$ 302.29
3	plint ceramic 10x40cm	m'	134.00	\$ 7.15	\$ 958.10	m'	134.00	\$ 3.71	\$ 497.14
	Sub Total				\$ 6,165.55				\$ 3,327.89
C	DOOR, WINDOW AND VENTILATION WORK								
1	Wooden Door type D-1, including all accessories	unit	1.00	\$ 350.00	\$ 350.00	unit	1.00	\$ 251.00	\$ 251.00
2	Wooden Door type D-2, including all accessories	unit	2.00	\$ 250.00	\$ 500.00	unit	2.00	\$ 193.00	\$ 386.00
3	Wooden type D-3, including all accessories	unit	2.00	\$ 250.00	\$ 500.00	unit	2.00	\$ 193.00	\$ 386.00
4	Door type D-4, including all accessories (Material Frame Almunium 4inch, tebal 1.50mm)	unit	2.00	\$ 150.00	\$ 300.00	unit	2.00	\$ 177.00	\$ 354.00
5	Door type D-5, including all accessories (Material Frame Almunium 4inch, tebal 1.50mm)	unit	2.00	\$ 150.00	\$ 300.00	unit	2.00	\$ 177.00	\$ 354.00
6	Wooden Door type D-6, including all accessories	unit	1.00	\$ 150.00	\$ 150.00	unit	1.00	\$ 193.00	\$ 193.00
7	Windows type W-1, including all accessories (Material Teak Wood with Glass 8mm)	unit	4.00	\$ 180.00	\$ 720.00	unit	4.00	\$ 210.00	\$ 840.00
8	Windows type W-2, including all accessories (Material Teak Wood with Glass 8mm)	unit	1.00	\$ 90.00	\$ 90.00	unit	1.00	\$ 105.00	\$ 105.00
9	Windows type W-3, including all accessories (Material Teak Wood with Glass 8mm)	unit	2.00	\$ 120.00	\$ 240.00	unit	2.00	\$ 105.00	\$ 210.00
10	Windows type W-4, including all accessories (Material Teak Wood with Glass 8mm)	unit	1.00	\$ 300.00	\$ 300.00	unit	1.00	\$ 315.00	\$ 315.00
11	Windows type W-5, including all accessories (Material Teak Wood with Glass 8mm)	unit	1.00	\$ 200.00	\$ 200.00	unit	1.00	\$ 210.00	\$ 210.00
12	Ventilation type BV-1, including all accessories (Material Teak Wood with Glass 8mm)	unit	5.00	\$ 75.00	\$ 375.00	unit	5.00	\$ 62.50	\$ 312.50
	Sub Total				\$ 4,025.00				\$ 3,916.50
D	CEILING WORK								
1	Ceiling hollow frame 40/40mm and 40/20mm	m2	154.00	\$ 14.78	\$ 2,276.12	m2	154.00	\$ 13.86	\$ 2,134.44
2	Ceiling PVC 9mm High quality	m2	154.00	\$ 16.42	\$ 2,528.68	m2	154.00	\$ 14.03	\$ 2,160.62
3	List plafond PVC	m'	177.00	\$ 3.99	\$ 706.23	m'	177.00	\$ 3.30	\$ 584.10
	Sub Total				\$ 5,511.03				\$ 4,879.16
E	PAINT WORK								
1	wall painting	m2	553.69	\$ 3.57	\$ 1,976.66	m2	553.69	\$ 3.60	\$ 1,993.27
	Sub Total				\$ 1,976.66				\$ 1,993.27
STRUCTURAL WORK									
A	CONCRETE WORKS								
1	Ground Beam GB1 250x200 mm								
	Concrete K 275	m3	5.95	\$ 181.78	\$ 1,081.59	m3	5.95	\$ 235.18	\$ 1,399.32
	Reinforced d10 x Ø8	kg	879.01	\$ 1.60	\$ 1,409.06	kg	879.01	\$ 1.87	\$ 1,643.75
	Formwork	m2	59.50	\$ 29.86	\$ 1,776.67	m2	59.50	\$ 32.69	\$ 1,945.06
2	Midle Beam MB 1 150x150 mm								
	Concrete K 275	m3	2.33	\$ 181.78	\$ 423.32	m3	2.33	\$ 235.18	\$ 547.68
	Reinforced	kg	500.60	\$ 1.60	\$ 802.45	kg	500.60	\$ 1.87	\$ 936.11
	Formwork	m2	31.05	\$ 50.45	\$ 1,566.47	m2	31.05	\$ 53.20	\$ 1,651.86
3	Top Beam TB 200x150 mm								
	Concrete K 275	m3	3.50	\$ 181.78	\$ 636.68	m3	3.50	\$ 235.18	\$ 823.72
	Reinforced	kg	595.43	\$ 1.60	\$ 954.47	kg	595.43	\$ 1.87	\$ 1,113.44
	Formwork	m2	46.70	\$ 50.45	\$ 2,356.02	m2	46.70	\$ 53.20	\$ 2,484.44
4	Beam 120x150 mm								
	Concrete K 175	m3	0.29	\$ 161.64	\$ 46.55	m3	0.29	\$ 225.79	\$ 65.03
	Reinforced	kg	75.70	\$ 1.60	\$ 121.35	kg	75.70	\$ 1.87	\$ 141.56
	Formwork	m2	11.20	\$ 50.45	\$ 565.04	m2	11.20	\$ 53.20	\$ 595.84
5	Concrete Column (C.1) 150x150 mm								
	Concrete K 275	m3	3.42	\$ 181.78	\$ 620.87	m3	3.42	\$ 235.18	\$ 803.26
	Reinforced	kg	734.21	\$ 1.60	\$ 1,176.93	kg	734.21	\$ 1.87	\$ 1,372.97
	Formwork (2xpakal)	m2	45.54	\$ 40.88	\$ 1,861.68	m2	22.77	\$ 43.63	\$ 993.46
6	Concrete Column - 2 (C.2) 200x500 mm								



AGÊNCIA DE DESENVOLVIMENTO NACIONAL - P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR-LESTE

DETAIL-COST ESTIMATION

OWNER COST ESTIMATION

RESULT, ADN I.P

SITE PLAN

NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
	Concrete K 275	m3	0.66	\$ 181.78	\$ 119.97	m3	0.66	\$ 235.18	\$ 155.22
	Reinforced	kg	69.06	\$ 1.60	\$ 110.70	kg	69.06	\$ 1.87	\$ 129.14
	Formwork	m2	9.24	\$ 40.88	\$ 377.73	m2	9.24	\$ 43.63	\$ 403.14
7	Concrete Floor								
	Concrete K 175	m3	6.70	\$ 161.64	\$ 1,082.99	m3	6.70	\$ 225.79	\$ 1,512.79
8	Concrete table								
	Concrete K 175	m3	0.20	\$ 161.64	\$ 32.33	m3	0.20	\$ 225.79	\$ 45.16
	Reinforced	kg	35.20	\$ 1.60	\$ 56.43	kg	35.20	\$ 1.87	\$ 65.82
	Formwork	m2	2.40	\$ 50.45	\$ 121.08	m2	2.40	\$ 53.20	\$ 127.68
	Sub Total				\$ 17,300.38				\$ 18,956.44
B	ROOFING WORKS								
1	Steel frame, type C30X80X1.5mm include join screw for trusses	kg	632.61	\$ 3.12	\$ 1,973.74	kg	632.61	\$ 4.22	\$ 2,669.61
2	Steel Bracing type C30X80X1.5mm include join screw	kg	161.70	\$ 3.12	\$ 504.50	kg	161.70	\$ 4.22	\$ 682.37
3	Profile C30X80X1.5mm include join screw	kg	187.77	\$ 3.12	\$ 585.84	kg	187.77	\$ 4.22	\$ 792.39
4	Steel frame, type SHS 50X50X2mm include join screw for trusses	kg	314.00	\$ 3.12	\$ 979.68	kg	314.00	\$ 2.44	\$ 766.16
5	Steel Bracing type SHS 50X50X2mm include join screw	kg	169.56	\$ 3.12	\$ 529.03	kg	169.56	\$ 2.44	\$ 413.73
6	Profile reng 33x50x1.5 mm	kg	651.01	\$ 8.86	\$ 5,767.93	kg	651.01	\$ 5.13	\$ 3,339.67
7	Zinc Blue Scope t=0.42mm	m2	220.67	\$ 20.30	\$ 4,479.50	m2	220.67	\$ 20.26	\$ 4,470.67
8	Ridge Caping Zinc Blue Scope t=0.42mm	m'	53.00	\$ 15.80	\$ 837.40	m'	53.00	\$ 15.47	\$ 819.91
9	Gutter roof	m'	58.00	\$ 14.90	\$ 864.20	m'	58.00	\$ 14.62	\$ 847.96
	Sub Total				\$ 16,521.83				\$ 14,802.48
A	PLUMBING WORK								
	1st WASTE WATER PIPE installation								
1	Rucika pipe 2inch	M1	10.00	\$ 5.67	\$ 56.70	M1	10.00	\$ 8.66	\$ 86.60
2	Rucika pipe 4inch	M1	30.00	\$ 13.91	\$ 417.30	M1	30.00	\$ 14.56	\$ 436.80
3	Rucika elbow 2 inch	unit	4.00	\$ 6.03	\$ 24.12	unit	4.00	\$ 6.81	\$ 27.24
4	Rucika elbow 4inch	unit	10.00	\$ 21.82	\$ 218.20	unit	10.00	\$ 6.90	\$ 69.00
5	Rucika reduzer joint 2inch,4inch	unit	4.00	\$ 10.00	\$ 40.00	unit	4.00	\$ 5.00	\$ 20.00
6	Rucika YEE joint 2inch	unit	7.00	\$ 12.00	\$ 84.00	unit	7.00	\$ 3.00	\$ 21.00
7	Rucika End cup 4inch	unit	2.00	\$ 10.00	\$ 20.00	unit	2.00	\$ 3.10	\$ 6.20
8									
9	Supply and install Sit closet complete with accessories	unit	3.00	\$ 274.88	\$ 824.64	unit	3.00	\$ 364.31	\$ 1,092.93
10	Supply and install wastafel complete with accessories	unit	3.00	\$ 189.13	\$ 567.39				
11	Supply and install kitchen sink complete with accessories	unit	1.00	\$ 45.80	\$ 45.80	unit	1.00	\$ 176.72	\$ 176.72
12	Supply and install floor drain complete with accessories	unit	4.00	\$ 6.09	\$ 24.36	unit	4.00	\$ 5.97	\$ 23.88
	1st COLD WATER PIPE installation								
1	Stainless Steel Pipe 1 inch	M1	30.00	\$ 9.97	\$ 299.10	M1	30.00	\$ 13.15	\$ 394.50
2	Stainless Steel Pipe 1/2 inch	M1	10.00	\$ 6.03	\$ 60.30	M1	10.00	\$ 7.57	\$ 75.70
3	Stainless Steel Pipe reducer 1/2 -1 inch	unit	11.00	\$ 8.00	\$ 88.00	unit	11.00	\$ 3.15	\$ 34.65
4	Stainless Steel Pipe TEE 1/2 -1 inch	unit	10.00	\$ 10.00	\$ 100.00	unit	10.00	\$ 1.98	\$ 19.80
5	Stainless Steel Pipe elbow 1/2 -1 inch	unit	9.00	\$ 7.00	\$ 63.00	unit	9.00	\$ 1.98	\$ 17.82
6	Stainless Steel Pipe check valve 1/2 -1 inch	unit	1.00	\$ 14.00	\$ 14.00	unit	1.00	\$ 22.80	\$ 22.80
7	Stainless Steel Pipe gate valve 1/2 -1 inch	unit	6.00	\$ 15.00	\$ 90.00	unit	6.00	\$ 15.12	\$ 90.72
8	Stainless Steel Pipe joint pipe 1/2 -1 inch	unit	2.00	\$ 5.00	\$ 10.00	unit	2.00	\$ 5.00	\$ 10.00
9	Stainless Steel Pipe water faucet 1/2 inch	unit	4.00	\$ 6.10	\$ 24.40	unit	5.00	\$ 8.08	\$ 40.40
10	manhole for waste water	lot	2.00	\$ 80.53	\$ 161.06	lot	2.00	\$ 50.00	\$ 100.00
	SEPTICTANK								
1	Excavation	m3	21.38	\$ 5.17	\$ 110.51	m3	21.38	\$ 2.62	\$ 55.92
2	Sand fill	m3	0.43	\$ 12.01	\$ 5.13	m3	0.43	\$ 32.51	\$ 13.90
3	Coral Stone	m3	2.10	\$ 45.82	\$ 96.22	m3	2.10	\$ 42.93	\$ 90.15
4	Lean Concrete K 100	m3	0.81	\$ 154.32	\$ 125.00	m3	0.81	\$ 221.80	\$ 179.66



AGÊNCIA DE DESENVOLVIMENTO NACIONAL I.P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM (LORE)

PROJECT LOCATION : LORE, LAUTEM, TIMOR-LESTE

DETAIL-COST ESTIMATION

OWNER COST ESTIMATION

RESULT, ADN I.P

SITE PLAN									
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
5	Ground Beam								
	Concrete K 175	m3	0.26	\$ 161.64	\$ 42.55	m3	0.26	\$ 225.79	\$ 59.44
	Reinforced	kg	56.59	\$ 1.60	\$ 90.71	kg	56.59	\$ 1.87	\$ 105.82
6	Beam								
	Concrete K 175	m3	0.26	\$ 161.64	\$ 42.55	m3	0.26	\$ 225.79	\$ 59.44
	Reinforced	kg	56.59	\$ 1.60	\$ 90.71	kg	56.59	\$ 1.87	\$ 105.82
7	Column								
	Concrete K 175	m3	0.34	\$ 161.64	\$ 54.55	m3	0.34	\$ 225.79	\$ 76.20
	Reinforced	kg	72.55	\$ 1.60	\$ 116.30	kg	72.55	\$ 1.87	\$ 135.67
8	Concrete Wall								
	Concrete K 175	m3	0.91	\$ 161.64	\$ 147.42	m3	0.91	\$ 225.79	\$ 205.92
	Reinforced	kg	112.54	\$ 1.60	\$ 180.40	kg	112.54	\$ 1.87	\$ 210.45
9	Concrete Plate								
	Concrete K 175	m3	0.86	\$ 161.64	\$ 138.20	m3	0.86	\$ 225.79	\$ 193.05
	Reinforced	kg	105.51	\$ 1.60	\$ 169.13	kg	105.51	\$ 1.87	\$ 197.30
10	Block wall 40x20x10	m2	8.55	\$ 50.45	\$ 431.35	m2	8.55	\$ 53.20	\$ 454.86
	Plester	m2	41.01	\$ 15.43	\$ 632.78	m2	41.01	\$ 16.92	\$ 693.89
		m2	82.02	\$ 5.93	\$ 486.38	m2	82.02	\$ 6.40	\$ 524.93
12	PVC Pipe Rucika 4 Inch	m1	15.00	\$ 13.91	\$ 208.65	m1	15.00	\$ 14.56	\$ 218.40
	ELBOW PVC Pipe Rucika 4 Inch	unit	3.00	\$ 21.82	\$ 65.46	unit	3.00	\$ 6.90	\$ 20.70
	Steel Pipe 1Inch / Pembuang hawa	m1	3.00	\$ 9.97	\$ 29.91	m1	3.00	\$ 13.15	\$ 39.45
15	TEE Steel Pipe 1Inch / Pembuang hawa	unit	3.00	\$ 10.00	\$ 30.00	unit	3.00	\$ 2.50	\$ 7.50
Total for Plumbing Work						\$ 7,720.75			\$ 7,394.34
B ELECTRICAL									
1	Panel board 30X20X15	Unit	1.00	\$ 50.00	\$ 50.00	Unit	1.00	\$ 47.08	\$ 47.08
2	MCB 32A 2P	Unit	1.00	\$ 30.00	\$ 30.00	Unit	1.00	\$ 31.68	\$ 31.68
3	MCB 20A 1P	Unit	1.00	\$ 15.00	\$ 15.00	Unit	1.00	\$ 9.11	\$ 9.11
4	MCB 6A 1P	Unit	2.00	\$ 7.00	\$ 14.00	Unit	2.00	\$ 8.58	\$ 17.16
5	RCCB/RCD 30mA 32A	Unit	1.00	\$ 58.00	\$ 58.00	Unit	1.00	\$ 58.00	\$ 58.00
6	LDR Sensor	Unit	1.00	\$ 15.00	\$ 15.00	Unit	1.00	\$ 15.66	\$ 15.66
7	Cable NYK 3 X 2.5 mm + PVC Pipe	m1	150.00	\$ 5.50	\$ 825.00	m1	150.00	\$ 3.98	\$ 597.00
8	Cable NYK 3 X 1.5 mm + PVC Pipe	m1	150.00	\$ 4.50	\$ 675.00	m1	150.00	\$ 3.49	\$ 522.98
9	Circular Philips Lamp 25 w	pcs	1.00	\$ 25.00	\$ 25.00	pcs	1.00	\$ 25.00	\$ 25.00
10	DL Philips Lamp 15 w	pcs	13.00	\$ 15.00	\$ 195.00	pcs	13.00	\$ 12.25	\$ 159.25
11	DL Philips Lamp 7 w	pcs	9.00	\$ 7.00	\$ 63.00	pcs	9.00	\$ 10.41	\$ 93.69
12	Exhaust fan	pcs	3.00	\$ 25.00	\$ 75.00	pcs	3.00	\$ 25.38	\$ 76.14
13	Power outlet	pcs	17.00	\$ 12.00	\$ 204.00	pcs	17.00	\$ 5.67	\$ 96.39
14	Single switch	pcs	12.00	\$ 7.00	\$ 84.00	pcs	12.00	\$ 5.15	\$ 61.80
15	Double switch	pcs	3.00	\$ 9.00	\$ 27.00	pcs	3.00	\$ 5.67	\$ 17.01
16	Wall Fan	pcs	4.00	\$ 25.00	\$ 100.00	pcs	4.00	\$ 25.00	\$ 100.00
17	Ceiling Fan	pcs	2.00	\$ 50.00	\$ 100.00	pcs	2.00	\$ 54.78	\$ 109.56
Total for Electrical Work						\$ 2,555.00			\$ 2,037.51
TOTAL						\$ 83,102.82			\$ 78,539.02
SEGUNDO COMANDANTE									
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
PREPARATION WORK WORK									
A	GENERAL WORKS								



AGENCIA DE DESENVOLVIMENTO NACIONAL I.P.

PROJECT OWNER : MINISTERIO DO INTERIOR
PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM
PROJECT LOCATION : LAUTEM - TIMOR-LESTE

SUMMARY GERAL			
OWNER COST ESTIMATION			RESULT, ADN, I.P
NO	DESCRIPTION OF WORKS	AMOUNT (\$)	AMOUNT (\$)
1	SITE PLAN	\$ 268,868.06	\$ 266,157.29
2	PRIMEIRO COMANDANTE	\$ 79,543.85	\$ 76,889.02
3	SEGUNDO COMANDANTE	\$ 61,451.04	\$ 59,932.98
4	AGENTE HOUSE 4 UNIT	\$ 436,892.55	\$ 349,966.42
5	DORMITORY FEMALE	\$ 88,694.16	\$ 80,610.88
6	DORMITORY MALE	\$ 88,552.68	\$ 80,444.31
7	SALA MULTIFUNSAUN	\$ 78,655.91	\$ 73,377.28
8	GYM ROOM	\$ 57,360.11	\$ 53,395.23
9	POST 2 UNIT	\$ 36,290.91	\$ 32,478.49
10	TOILET PUBLIC	\$ 33,465.75	\$ 32,813.67
11	LAPANGAN SERBA GUNA	\$ 54,534.59	\$ 62,929.55
12	TOWER DISTRIBUSI AND UNDERGROUND TANK	\$ 25,644.93	\$ 28,318.06
13	CONTROL PANEL HOUSE	\$ 695.05	\$ 586.86
14	LANDSCAPE	\$ 147,303.61	\$ 139,575.23
A	TOTAL CONSTRUCTION COST	\$ 1,457,953.23	\$ 1,337,475.26
B	CONTRACTOR FEE (10% x A)	\$ 145,795.32	\$ 133,747.53
C	OVERHEAD	\$ 25,900.00	\$ 29,177.00
D	CONTINGENCY (10% * A)		\$ 133,747.53
E	TAX (2% x (A+B+C+D))	\$ 32,592.97	\$ 32,682.95
F	CONTINGENCY (10% * A)	\$ 145,795.32	
G	TOTAL (A+B+C+D+E)	\$ 1,808,036.85	\$ 1,666,830.26

Verified By:
Eng. Bosco Dinis de Sousa
 Civil Engineering UAP - ADN, I.P.

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

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

Checked By:
Eng. Johannes Hornay
 Senior Engineer AP EPMEITCM. UAP -
 ADN.IP

Certified By:
Arch. José Fernando Lima Soares
 Coordenador UAP - ADN.IP *14/05/25*



AGENCIAS DE DESENVOLVIMENTO NACIONAL, I.P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM

PROJECT LOCATION : LAUTEM - TIMOR-LESTE

OVERHEAD

OWNER COST ESTIMATION						RESULT, ADN, I.P			
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (\$)	AMOUNT (\$)
I	PROJECT TEAM								
1	STAFF TEKNIKU								
	Project Manager					Ls	1.00	\$ 6,000.00	\$ 6,000.00
	Site Engineering	month	12.00	\$ 1,000.00	\$ 12,000.00	Ls	1.00	\$ 6,000.00	\$ 6,000.00
	Health, Safety and Environment								
	Surveyor					Ls	1.00	\$ 1,500.00	\$ 1,500.00
2	STAFF APOIO SERVISU								
	Logistics					Ls	1.00	\$ 1,800.00	\$ 1,800.00
	Administration					Ls	1.00	\$ 1,800.00	\$ 1,800.00
	security for 2 Person	month	12.00	\$ 450.00	\$ 5,400.00	Ls	1.00	\$ 3,600.00	\$ 3,600.00
II	KUSTU OPERASIONAL								
1	OPERATIONAL OFFICE								
	Communication					Ls	1.00	\$ 250.00	\$ 250.00
	Meeting fee	month	12.00	\$ 100.00	\$ 1,200.00	Ls	1.00	\$ 600.00	\$ 600.00
	Electricity					Ls	1.00	\$ 1,000.00	\$ 1,000.00
	Water					Ls	1.00	\$ 1,000.00	\$ 1,000.00
2	RELATORIOS								
	Project report and documentation	month	12.00	\$ 150.00	\$ 1,800.00				
	Daily, weekly, monthly reports					Ls	1.00	\$ 1,800.00	\$ 1,800.00
	As build drawing	Ls	1.00	\$ 500.00	\$ 500.00				
	Shop drawings, as built drawings					Ls	1.00	\$ 500.00	\$ 500.00
	engineering report, final report					Ls	1.00	\$ 500.00	\$ 500.00
3	KUSTU SERVISU APOIO NIAN								
	Safety equipment and first AID equipment	Ls	1.00	\$ 3,000.00	\$ 3,000.00	Ls	1.00	\$ 1,000.00	\$ 1,000.00
	Material sampling and testing	Ls	1.00	\$ 2,000.00	\$ 2,000.00	Ls	1.00	\$ 1,827.00	\$ 1,827.00
	TOTAL				\$25,900.00				\$29,177.00



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I.P.

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM

PROJECT LOCATION : LAUTEM - TIMOR-LESTE

DETAIL-COST ESTIMATION

OWNER COST ESTIMATION						RESULT, ADN, I.P					
SITE PLAN		NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
1. PREPARATION WORK WORK											
1	Project name plate	Ls	1.00	\$ 90.25	\$ 90.25	Bh	1.00	\$ 90.34	\$ 90.34		
2	Temporary Fence	m1	382.00	\$ 13.72	\$ 5,241.04	m1	382.00	\$ 14.07	\$ 5,374.74		
3	Temporary Project Site Office	m2	24.00	\$ 145.59	\$ 3,494.16	m2	24.00	\$ 148.60	\$ 3,566.40		
4	Material Storage Warehouse	m2	60.00	\$ 127.67	\$ 7,660.20	m2	60.00	\$ 133.52	\$ 8,011.20		
5	Workers Room	m2	24.00	\$ 50.00	\$ 1,200.00	m2	24.00	\$ 50.00	\$ 1,200.00		
6	Mobilization and demobilization of work equipment	Ls	1.00	\$ 2,000.00	\$ 2,000.00	Ls	1.00	\$ 4,550.00	\$ 4,550.00		
7	Other heavy equipment mobilization and demobilization	Ls	1.00	\$ 5,000.00	\$ 5,000.00						
8	Electricity Supply for work	Ls	1.00	\$ 6,000.00	\$ 6,000.00						
9	Water Supply for work	Ls	1.00	\$ 6,000.00	\$ 6,000.00						
Sub Total					\$ 36,685.65						\$ 22,792.68
2. CIVIL WORKS											
A. CUTTING AND FILL WORK											
I	EARTH WORK										
1	Filling for all site Thicknes	m3	1352.40	\$ 8.39	\$ 11,346.64						
Sub Total					\$ 11,346.64						\$ -
B. FENCE											
I	EARTH WORK										
Bowplank	Ls	1.00	\$ 400.00	\$ 400.00	Ls	1.00	\$ 400.00	\$ 400.00			
Excavation for ordinary foundation	m3	457.38	\$ 5.14	\$ 2,350.93	m3	457.38	\$ 2.62	\$ 1,196.53			
Foundation excavation back filling	m3	114.35	\$ 1.70	\$ 194.39	m3	114.35	\$ 1.70	\$ 194.39			
Sand filling under foundation 50mm	m3	20.79	\$ 11.99	\$ 249.27	m3	20.79	\$ 24.24	\$ 503.95			
Stone Masonry 1 Pç:4 Ps	m3	226.80	\$ 89.81	\$ 20,368.91	m3	226.80	\$ 104.51	\$ 23,702.87			
Lean Concrete K 100	m3	3.89	\$ 139.04	\$ 540.59	m3	3.89	\$ 196.78	\$ 765.08			
II	STRUCTURAL WORK										
footplate											
Concrete K 275	m3	15.55	\$ 164.25	\$ 2,554.42	m3	15.55	\$ 211.91	\$ 3,295.62			
Reinforced	kg	2908.22	\$ 1.59	\$ 4,625.71	kg	2908.22	\$ 1.87	\$ 5,438.38			
Formwork	m2	77.76	\$ 19.57	\$ 1,521.76	m2	77.76	\$ 19.57	\$ 1,521.76			
Padestal											
Concrete K 275	m3	4.97	\$ 164.25	\$ 815.99	m3	4.97	\$ 211.91	\$ 1,052.77			
Reinforced	kg	1255.37	\$ 1.59	\$ 2,001.07	kg	1255.37	\$ 1.87	\$ 2,347.55			
Formwork	m2	99.36	\$ 40.50	\$ 4,024.08	m2	99.36	\$ 43.63	\$ 4,335.08			
Ground Beam 20x25cm											
Concrete K 275	m3	18.90	\$ 164.25	\$ 3,104.33	m3	18.90	\$ 211.91	\$ 4,005.10			
Reinforced	kg	2792.16	\$ 1.59	\$ 4,450.70	kg	2792.16	\$ 1.87	\$ 5,221.34			
Formwork	m2	189.00	\$ 29.56	\$ 5,586.84	m2	189.00	\$ 32.69	\$ 6,178.41			
Midle Beam 15x15 cm											
Concrete K 275	m3	8.51	\$ 164.25	\$ 1,396.95	m3	8.51	\$ 211.91	\$ 1,802.29			
Reinforced	kg	1430.60	\$ 1.59	\$ 2,280.38	kg	1430.60	\$ 1.87	\$ 2,675.23			
Formwork	m2	113.40	\$ 50.07	\$ 5,677.94	m2	113.40	\$ 53.20	\$ 6,032.88			
Top Beam 20x20cm											
Concrete K 275	m3	15.12	\$ 164.25	\$ 2,483.46	m3	15.12	\$ 211.91	\$ 3,204.08			
Reinforced	kg	2692.62	\$ 1.59	\$ 4,292.04	kg	2692.62	\$ 1.87	\$ 5,035.20			
Formwork	m2	151.20	\$ 50.07	\$ 7,570.58	m2	151.20	\$ 53.20	\$ 8,043.84			
Column 30x30 cm											
Concrete K 275	m3	27.22	\$ 164.25	\$ 4,470.23	m3	27.22	\$ 211.91	\$ 5,767.34			
Reinforced	kg	2973.00	\$ 1.59	\$ 4,738.95	kg	2973.00	\$ 1.87	\$ 5,559.50			
Formwork	m2	181.44	\$ 40.50	\$ 7,348.32	m2	181.44	\$ 43.63	\$ 7,916.23			
III	ARCHITECTURAL WORK										
Block wall 40x20x10cm	m2	868.14	\$ 14.45	\$ 12,544.62	m2	868.14	\$ 16.33	\$ 14,176.73			
wall plaster 1pc:4ps	m2	1736.28	\$ 5.33	\$ 9,254.37	m2	1736.28	\$ 6.24	\$ 10,834.39			
finishing cement	m2	1736.28	\$ 3.27	\$ 5,677.64	m2	1736.28	\$ 3.32	\$ 5,764.45			
wall painting	m2	1736.28	\$ 3.46	\$ 6,007.53	m2	1736.28	\$ 3.60	\$ 6,250.61			
Sub Total					\$ 126,541.99						\$ 143,221.59
C. GAPURA											
I	EARTH WORK										
Bowplank	m'	12.00	\$ 11.03	\$ 132.36	m'	12.00	\$ 11.04	\$ 132.48			
Excavation for ordinary foundation	m3	5.27	\$ 5.14	\$ 27.09	m3	5.27	\$ 2.62	\$ 13.79			
Foundation excavation back filling	m3	3.95	\$ 1.70	\$ 6.72	m3	3.95	\$ 1.70	\$ 6.72			
Sand filling under foundation 50mm	m3	0.26	\$ 11.99	\$ 3.16	m3	0.26	\$ 24.24	\$ 6.39			



AGÊNCIA DE DESENVOLVIMENTO NACIONAL - D.P.

PROJECT OWNER

: MINISTERIO DO INTERIOR

PROJECT TITLE

: NOVO CONSTRUÇÃO CAZERNAS DA POLÍCIA MUNICÍPIO DE LAUTEM

PROJECT LOCATION

: LAUTEM - TIMOR-LESTE

DETAIL-COST ESTIMATION

OWNER COST ESTIMATION

RESULT, ADN, I.P.

SITE PLAN		DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	
NO											
	Lean Concrete K 100			m3	0.26	\$ 139.04	\$ 36.64	m3	0.26	\$ 196.78	\$ 51.85
II	STRUCTURAL WORK										
	footplate										
	Concrete K 275	m3	1.05	\$ 164.25	\$ 173.12	m3	1.05	\$ 211.91	\$ 223.35		
	Reinforced	kg	262.49	\$ 1.59	\$ 418.41	kg	262.49	\$ 1.87	\$ 490.86		
	Formwork	m2	3.55	\$ 19.57	\$ 69.47	m2	3.55	\$ 19.57	\$ 69.47		
	Padestal										
	Concrete K 275	m3	0.59	\$ 164.25	\$ 96.09	m3	0.59	\$ 211.91	\$ 123.97		
	Reinforced	kg	150.46	\$ 1.59	\$ 239.84	kg	150.46	\$ 1.87	\$ 281.37		
	Formwork	m2	7.80	\$ 40.50	\$ 315.90	m2	7.80	\$ 43.63	\$ 340.31		
	Beam (B1) 20x25cm										
	Concrete K 275	m3	1.24	\$ 164.25	\$ 203.67	m3	1.24	\$ 211.91	\$ 262.77		
	Reinforced	kg	395.08	\$ 1.59	\$ 629.76	kg	395.08	\$ 1.87	\$ 738.80		
	Formwork	m2	17.36	\$ 29.56	\$ 513.16	m2	17.36	\$ 53.20	\$ 923.55		
	Beam (B2) 20x25cm										
	Concrete K 275	m3	0.54	\$ 164.25	\$ 88.70	m3	0.54	\$ 211.91	\$ 114.43		
	Reinforced	kg	172.05	\$ 1.59	\$ 274.25	kg	172.05	\$ 1.87	\$ 321.74		
	Formwork	m2	7.56	\$ 50.07	\$ 378.53	m2	7.56	\$ 53.20	\$ 402.19		
	Beam (B3) 15x25cm										
	Concrete K 275	m3	0.71	\$ 164.25	\$ 115.80	m3	0.71	\$ 211.91	\$ 149.40		
	Reinforced	kg	153.40	\$ 1.59	\$ 244.51	kg	153.40	\$ 1.87	\$ 286.85		
	Formwork	m2	12.22	\$ 50.07	\$ 611.86	m2	12.22	\$ 53.20	\$ 650.10		
	Column C1 30x30 cm										
	Concrete K 275	m3	0.68	\$ 164.25	\$ 110.87	m3	0.68	\$ 211.91	\$ 143.04		
	Reinforced	kg	127.50	\$ 1.59	\$ 203.24	kg	127.50	\$ 1.87	\$ 239.43		
	Formwork	m2	9.00	\$ 40.50	\$ 364.50	m2	9.00	\$ 43.63	\$ 392.67		
	Column C2 20x20 cm										
	Concrete K 275	m3	1.84	\$ 164.25	\$ 302.22	m3	1.84	\$ 211.91	\$ 389.91		
	Reinforced	kg	706.32	\$ 1.59	\$ 1,125.88	kg	706.32	\$ 1.87	\$ 1,320.82		
	Formwork	m2	36.80	\$ 40.50	\$ 1,490.40	m2	36.80	\$ 43.63	\$ 1,605.58		
	Column C3 15X15 cm										
	Concrete K 275	m3	0.08	\$ 164.25	\$ 13.30	m3	0.08	\$ 211.91	\$ 17.16		
	Reinforced	kg	13.62	\$ 1.59	\$ 21.72	kg	13.62	\$ 1.87	\$ 25.48		
	Formwork	m2	2.16	\$ 40.50	\$ 87.48	m2	2.16	\$ 43.63	\$ 94.24		
	Concrete Plate +5.00										
	Concrete K 275	m3	2.11	\$ 164.25	\$ 345.91	m3	2.11	\$ 211.91	\$ 446.28		
	Reinforced	kg	144.38	\$ 1.59	\$ 230.14	kg	144.38	\$ 1.87	\$ 269.99		
	Formwork	m2	14.04	\$ 50.07	\$ 702.98	m2	14.04	\$ 53.20	\$ 746.93		
	Concrete Plate +6.00										
	Concrete K 275	m3	2.05	\$ 164.25	\$ 337.04	m3	2.05	\$ 211.91	\$ 434.84		
	Reinforced	kg	140.68	\$ 1.59	\$ 224.24	kg	140.68	\$ 1.87	\$ 263.06		
	Formwork	m2	13.68	\$ 50.07	\$ 684.96	m2	13.68	\$ 53.20	\$ 727.78		
III	ARCHITECTURAL WORK										
	Block wall 40x20x10cm			m2	15.75	\$ 14.45	\$ 227.59	m2	15.75	\$ 16.33	\$ 257.20
	Natural Stone High Quality			m2	15.75	\$ 64.85	\$ 1,021.39	m2	15.75	\$ 72.20	\$ 1,137.15
	List Concrete for beam			m1	6.20	\$ 50.00	\$ 310.00	m1	6.20	\$ 50.00	\$ 310.00
	List Concrete for foot column			unit	10.00	\$ 150.00	\$ 1,500.00	unit	10.00	\$ 150.00	\$ 150.00
	Logo PNTL (Plate Stainlesssteel)			Ls	1.00	\$ 500.00	\$ 500.00	Ls	1.00	\$ 180.00	\$ 180.00
			Sub Total								
	CAPURA ZUNIT										
D.GATE											
I	EARTH WORK										
	Excavation Foundation			m3	2.20	\$ 5.14	\$ 11.31	m3	2.20	\$ 2.62	\$ 5.76
	Sand Fill			m3	0.20	\$ 11.99	\$ 2.40	m3	0.20	\$ 24.24	\$ 4.85
	Concrete foundation			m3	2.00	\$ 164.25	\$ 328.50	m3	2.00	\$ 211.91	\$ 423.82
II	STEEL WORK										
	Steel RHS 50X80X4mm			kg	141.25	\$ 2.15	\$ 303.70				
	Steel RHS 50X80X3mm			kg	167.77	\$ 2.15	\$ 360.71	kg	167.77	\$ 2.44	\$ 409.36
	Steel LHS 40X40X2mm			kg	124.74	\$ 2.15	\$ 268.19	kg	124.74	\$ 2.44	\$ 304.37
	Steel Plate 2mm			kg	113.04	\$ 2.08	\$ 235.12	kg	113.04	\$ 2.44	\$ 275.82
	Steel L 50X50X5mm			kg	39.30	\$ 2.08	\$ 81.74	kg	39.30	\$ 2.44	\$ 95.89
	Stainless Steel Wheels			unit	6.00	\$ 25.00	\$ 150.00	unit	6.00	\$ 25.00	\$ 150.00
	Steel Painting			m2	13.00	\$ 6.07	\$ 78.91	m2	13.00	\$ 4.16	\$ 54.09
			Sub Total								
	GATE 2 UNIT										
E.FENCE FOR COMANDANTE											



AGÊNCIA DE DESENVOLVIMENTO NACIONAL - P

PROJECT OWNER : MINISTERIO DO INTERIOR
 PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM
 PROJECT LOCATION : LAUTEM - TIMOR-LESTE

DETAIL-COST ESTIMATION										
OWNER COST ESTIMATION						RESULT, ADN, I.P.				
SITE PLAN		DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
NO	ITEM									
I	EARTH WORK									
	Bowplank		Ls	1.00	\$ 150.00	\$ 150.00	Ls	1.00	\$ 150.00	\$ 150.00
	Excavation for ordinary foundation		m3	36.96	\$ 5.14	\$ 189.97	m3	36.96	\$ 2.62	\$ 96.69
	Foundation excavation back filling		m3	9.24	\$ 1.70	\$ 15.71	m3	9.24	\$ 1.70	\$ 15.71
	Sand filling under foundation 50mm		m3	3.26	\$ 11.99	\$ 39.03	m3	3.26	\$ 24.24	\$ 78.90
	Stone Masonry 1 Pc:4 Ps		m3	15.23	\$ 89.81	\$ 1,367.36	m3	15.23	\$ 104.51	\$ 1,591.16
	Lean Concrete K 100		m3	0.63	\$ 139.04	\$ 87.60	m3	0.63	\$ 195.78	\$ 123.97
II	STRUCTURAL WORK									
	footplate									
	Concrete K 275	m3	2.52	\$ 164.25	\$ 413.91	m3	2.52	\$ 211.91	\$ 534.01	
	Reinforced	kg	320.32	\$ 1.59	\$ 510.59	kg	320.32	\$ 1.87	\$ 599.00	
	Formwork	m2	16.80	\$ 19.57	\$ 328.78	m2	16.80	\$ 19.57	\$ 328.78	
	Padestal									
	Concrete K 275	m3	1.05	\$ 164.25	\$ 172.46	m3	1.05	\$ 211.91	\$ 222.51	
	Reinforced	kg	171.59	\$ 1.59	\$ 273.51	kg	171.59	\$ 1.87	\$ 320.87	
	Formwork	m2	21.00	\$ 40.50	\$ 850.50	m2	21.00	\$ 43.63	\$ 916.23	
	Ground Beam 20x25cm									
	Concrete K 275	m3	5.08	\$ 164.25	\$ 833.57	m3	5.08	\$ 211.91	\$ 1,075.44	
	Reinforced	kg	749.75	\$ 1.59	\$ 1,195.10	kg	749.75	\$ 1.87	\$ 1,402.03	
	Formwork	m2	50.75	\$ 29.56	\$ 1,500.17	m2	50.75	\$ 32.69	\$ 1,659.02	
	Midle Beam 15x15 cm									
	Concrete K 275	m3	0.26	\$ 164.25	\$ 42.50	m3	0.26	\$ 211.91	\$ 54.83	
	Reinforced	kg	55.62	\$ 1.59	\$ 88.66	kg	55.62	\$ 1.87	\$ 104.01	
	Formwork	m2	3.45	\$ 50.07	\$ 172.74	m2	3.45	\$ 53.20	\$ 183.54	
	Top Beam 20x20cm									
	Concrete K 275	m3	2.58	\$ 164.25	\$ 423.77	m3	2.58	\$ 211.91	\$ 546.73	
	Reinforced	kg	626.92	\$ 1.59	\$ 999.31	kg	626.92	\$ 1.87	\$ 1,172.34	
	Formwork	m2	34.40	\$ 50.07	\$ 1,722.41	m2	34.40	\$ 53.20	\$ 1,830.08	
	Column 30x30 cm									
	Concrete K 275	m3	3.15	\$ 164.25	\$ 517.39	m3	3.15	\$ 211.91	\$ 657.52	
	Reinforced	kg	422.36	\$ 1.59	\$ 673.25	kg	422.36	\$ 1.87	\$ 789.82	
	Formwork	m2	47.25	\$ 40.50	\$ 1,913.63	m2	47.25	\$ 43.63	\$ 2,061.52	
III	ARCHITECTURAL WORK									
	Block wall 40x20x10cm		m2	159.40	\$ 14.45	\$ 2,303.33	m2	159.40	\$ 16.33	\$ 2,603.00
	wall plaster 1pc:4ps		m2	318.80	\$ 5.33	\$ 1,699.20	m2	318.80	\$ 6.24	\$ 1,989.31
	finishing cement		m2	318.80	\$ 3.27	\$ 1,042.48	m2	318.80	\$ 3.32	\$ 1,058.42
	Painting Wall		m2	318.80	\$ 3.46	\$ 1,103.05	m2	318.80	\$ 3.60	\$ 1,147.68
	Railing fence SHS 40X40X3MM		kg	331.46	\$ 2.15	\$ 712.64	kg	331.46	\$ 2.44	\$ 808.76
	Steel Painting for railing fence		m2	14.07	\$ 6.07	\$ 85.39	m2	14.07	\$ 4.16	\$ 58.52
	Sub Total					\$ 21,427.97				\$ 24,190.39
F.GAZEBO										
I	EARTH WORK									
	Bowplank		Ls	12.00	\$ 11.03	\$ 132.36	Ls	12.00	\$ 11.03	\$ 132.36
	Excavation for ordinary foundation		m3	3.00	\$ 5.14	\$ 15.42	m3	3.00	\$ 2.62	\$ 7.85
	Foundation excavation back filling		m3	0.75	\$ 1.70	\$ 1.28	m3	0.75	\$ 1.70	\$ 1.28
	Sand filling under foundation 50mm		m3	0.25	\$ 11.99	\$ 3.00	m3	0.25	\$ 24.24	\$ 6.06
	Sand filling under floor 50mm		m3	0.31	\$ 11.99	\$ 3.75	m3	0.31	\$ 24.24	\$ 7.58
	Stone Masonry 1 Pc:4 Ps		m3	1.50	\$ 89.81	\$ 134.72	m3	1.50	\$ 104.51	\$ 156.77
II	STRUCTURAL WORK									
	Ground Beam 20x25cm									
	Concrete K 275	m3	0.30	\$ 164.25	\$ 49.28	m3	0.30	\$ 211.91	\$ 63.57	
	Reinforced	kg	51.00	\$ 1.59	\$ 81.29	kg	51.00	\$ 1.87	\$ 95.37	
	Formwork	m2	4.00	\$ 29.56	\$ 118.24	m2	4.00	\$ 32.69	\$ 130.76	
	Top Beam 15x15cm									
	Concrete K 275	m3	0.23	\$ 164.25	\$ 36.96	m3	0.23	\$ 211.91	\$ 47.68	
	Reinforced	kg	48.37	\$ 1.59	\$ 77.10	kg	48.37	\$ 1.87	\$ 90.45	
	Formwork	m2	3.00	\$ 50.07	\$ 150.21	m2	3.00	\$ 53.20	\$ 159.60	
	Column 30x30 cm									
	Concrete K 275	m3	0.54	\$ 164.25	\$ 88.04	m3	0.54	\$ 211.91	\$ 113.58	
	Reinforced	kg	71.87	\$ 1.59	\$ 114.56	kg	71.87	\$ 1.87	\$ 134.39	
	Formwork	m2	6.60	\$ 40.50	\$ 267.30	m2	6.60	\$ 43.63	\$ 287.96	
	Concrete Floor									
	Concrete K 275	m3	0.31	\$ 164.25	\$ 51.33	m3	0.31	\$ 211.91	\$ 66.22	
	Concrete Stair									
	Concrete K 275	m3	0.08	\$ 164.25	\$ 12.32	m3	0.08	\$ 211.91	\$ 15.89	
III	ARCHITECTURAL WORK									



AGÊNCIA DE DESENVOLVIMENTO NACIONAL - IP

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM

PROJECT LOCATION : LAUTEM - TIMOR-LESTE

DETAIL-COST ESTIMATION											
OWNER COST ESTIMATION								RESULT, ADN, I.P.			
SITE PLAN											
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)		
	Steel Canal C 30X80X1,5 mm for Rafter	kg	55.11	\$ 3.09	\$ 170.29	kg	55.11	\$ 4.22	\$ 232.56		
	Reng asimetric 33x50x1,5mm for purlin	kg	47.67	\$ 8.84	\$ 421.38	kg	47.67	\$ 5.13	\$ 244.52		
	Zinc Blue Scope 0,42mm	m2	18.40	\$ 20.02	\$ 368.37	m2	18.40	\$ 20.26	\$ 372.78		
	Ridge Capping Zinc Blue Scope 0,42mm	m1	9.20	\$ 15.52	\$ 142.78	m1	9.20	\$ 15.47	\$ 142.32		
	Lisplank Playwood 400x20x10mm	m1	16.00	\$ 15.52	\$ 248.32	m1	16.00	\$ 15.47	\$ 247.52		
	Railling Fence SHS 40X40X2mm	kg	152.61	\$ 2.15	\$ 328.11	kg	152.61	\$ 2.44	\$ 372.36		
	Steel Painting	m2	9.73	\$ 6.07	\$ 59.05	m2	9.73	\$ 4.16	\$ 40.47		
IV ELECTRICAL WORK											
1	Circular lighting Phillips 25W	unit	1.00	\$ 25.00	\$ 25.00	unit	1.00	\$ 25.00	\$ 25.00		
		Sub Total			\$ 3,100.43				\$ 3,194.92		
		GAZEBO 9 UNIT			\$ 27,903.83				\$ 28,754.28		
G. ATRIBUN											
I EARTH WORK											
	Bowplank	ls	1.00	\$ 150.00	\$ 150.00	ls	1.00	\$ 150.00	\$ 150.00		
	Excavation for ordinary foundation	m3	20.42	\$ 5.14	\$ 104.98	m3	20.42	\$ 2.62	\$ 53.43		
	Foundation excavation back filling	m3	5.11	\$ 1.70	\$ 8.68	m3	5.11	\$ 1.70	\$ 8.68		
	Sand filling under foundation 50mm	m3	1.74	\$ 11.99	\$ 20.86	m3	1.74	\$ 24.24	\$ 42.18		
	Soil filling under floor	m3	36.00	\$ 8.39	\$ 302.04	m3	36.00	\$ 8.29	\$ 298.44		
	Sand filling under floor 50mm	m3	3.00	\$ 11.99	\$ 35.97	m3	3.00	\$ 24.24	\$ 72.72		
	Stone Masonry 1 Pç:4 Ps	m3	7.98	\$ 89.81	\$ 716.68	m3	7.98	\$ 104.51	\$ 833.99		
	Lean Concrete K 100	m3	0.43	\$ 139.04	\$ 60.07	m3	0.43	\$ 196.78	\$ 85.01		
II STRUCTURAL WORK											
	Footplate										
	Concrete K 275	m3	1.73	\$ 164.25	\$ 283.82	m3	1.73	\$ 211.91	\$ 366.18		
	Reinforced	kg	219.65	\$ 1.59	\$ 350.12	kg	219.65	\$ 1.87	\$ 410.74		
	Formwork	m2	11.52	\$ 19.57	\$ 225.45	m2	11.52	\$ 19.57	\$ 225.45		
	Padestal With Column										
	Concrete K 275	m3	0.58	\$ 164.25	\$ 94.61	m3	0.58	\$ 211.91	\$ 122.06		
	Reinforced	kg	47.66	\$ 1.59	\$ 75.98	kg	47.66	\$ 1.87	\$ 89.13		
	Formwork	m2	11.52	\$ 40.50	\$ 466.56	m2	11.52	\$ 43.63	\$ 302.62		
	Ground Beam										
	Concrete K 275	m3	2.90	\$ 164.25	\$ 476.33	m3	2.90	\$ 211.91	\$ 614.54		
	Reinforced	kg	428.43	\$ 1.59	\$ 682.91	kg	428.43	\$ 1.87	\$ 801.16		
	Formwork	m2	29.00	\$ 29.56	\$ 857.24	m2	29.00	\$ 32.69	\$ 948.01		
	Beam 15x20 cm										
	Concrete K 275	m3	1.74	\$ 164.25	\$ 285.80	m3	1.74	\$ 211.91	\$ 366.72		
	Reinforced	kg	397.88	\$ 1.59	\$ 634.22	kg	397.88	\$ 1.87	\$ 744.94		
	Formwork	m2	23.20	\$ 50.07	\$ 1,161.62	m2	23.20	\$ 53.20	\$ 1,234.24		
	Concrete Slab										
	Concrete K 275	m3	7.20	\$ 164.25	\$ 1,182.60	m3	7.20	\$ 211.91	\$ 1,525.75		
	Reinforced	kg	493.60	\$ 1.59	\$ 786.80	kg	493.60	\$ 1.87	\$ 923.03		
	Concrete Stair										
	Concrete K 275	m3	0.36	\$ 164.25	\$ 59.13	m3	0.36	\$ 211.91	\$ 76.29		
III ARCHITECTURAL WORK											
	Spesi t=3cm	m2	60.00	\$ 6.88	\$ 412.80	m2	60.00	\$ 6.88	\$ 412.80		
	Wall Block 40x20x10 cm	m2	35.20	\$ 14.45	\$ 508.64	m2	35.20	\$ 16.33	\$ 574.92		
	Wall Plaster 1:4	kg	35.20	\$ 5.33	\$ 187.62	kg	35.20	\$ 6.24	\$ 219.65		
	Wall Finishing	m2	35.20	\$ 3.27	\$ 115.10	m2	35.20	\$ 3.32	\$ 116.86		
	Wall Painting	m1	35.20	\$ 3.46	\$ 121.79	m1	35.20	\$ 3.60	\$ 125.72		
	Railling Fence SHS 40X40X2mm	kg	392.88	\$ 2.15	\$ 844.69	kg	392.88	\$ 2.44	\$ 958.62		
	Steel Painting	m2	25.02	\$ 6.07	\$ 151.90	m2	25.02	\$ 4.16	\$ 104.10		
		Sub Total			\$ 11,364.99				\$ 13,009.97		
H. FLAG POLE											
I EARTH WORK											
	Excavation for ordinary foundation	m3	0.24	\$ 5.14	\$ 1.23	m3	0.24	\$ 2.62	\$ 0.63		
	Soil filling under floor	m3	1.02	\$ 8.39	\$ 8.57	m3	1.02	\$ 8.29	\$ 8.47		
	Sand filling under floor 50mm	m3	0.32	\$ 11.99	\$ 3.87	m3	0.32	\$ 24.24	\$ 7.82		
	Lean Concrete K 100	m3	0.01	\$ 139.04	\$ 1.67	m3	0.01	\$ 196.78	\$ 2.36		
II STRUCTURAL WORK											
	Footplate										
	Concrete K 275	m3	0.07	\$ 164.25	\$ 11.83	m3	0.07	\$ 211.91	\$ 15.26		
	Reinforced	kg	13.73	\$ 1.59	\$ 21.88	kg	13.73	\$ 1.87	\$ 25.67		
	Formwork	m2	0.48	\$ 19.57	\$ 9.39	m2	0.48	\$ 19.57	\$ 9.39		
	Padestal										



AGÊNCIA DE DESENVOLVIMENTO NACIONAL I.P.

PROJECT OWNER : MINISTÉRIO DO INTERIOR

PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM

PROJECT LOCATION : LAUTEM - TIMOR-LESTE

DETAIL-COST ESTIMATION

OWNER COST ESTIMATION

RESULT, ADN, I.P.

SITE PLAN		OWNER COST ESTIMATION				RESULT, ADN, I.P.			
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (USS)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (USS)	AMOUNT (\$)
	Concrete K 275	m3	0.17	\$ 164.25	\$ 27.10	m3	0.17	\$ 211.91	\$ 34.97
	Reinforced	kg	18.13	\$ 1.59	\$ 28.90	kg	18.13	\$ 1.87	\$ 33.91
	Formwork	m2	1.76	\$ 40.50	\$ 71.28	m2	1.76	\$ 43.63	\$ 76.79
	concrete curb								
	Concrete K 275	m3	0.48	\$ 164.25	\$ 79.50	m3	0.48	\$ 211.91	\$ 102.56
	Reinforced	kg	56.79	\$ 1.59	\$ 90.52	kg	56.79	\$ 1.87	\$ 106.20
	Formwork	m2	9.68	\$ 29.56	\$ 286.14	m2	9.68	\$ 29.56	\$ 286.14
III	ARCHITECTURAL WORK								
	Spesi t=3cm	m2	4.75	\$ 6.88	\$ 32.68	m2	4.75	\$ 6.88	\$ 32.68
	Wall Finishing	m2	4.75	\$ 3.27	\$ 15.53	m2	4.75	\$ 3.32	\$ 15.77
	Stainless Steel Pipe 2-1 inch include all accessories	Unit	1.00	\$ 500.00	\$ 500.00	Unit	1.00	\$ 500.00	\$ 500.00
	Sub Total				\$ 1,190.10				\$ 1,258.61
	Total Site Plan				\$ 268,868.06				\$ 266,157.29
	PRIMEIRO COMANDANTE								
NO	DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (USS)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (USS)	AMOUNT (\$)
	PREPARATION WORK								
A	GENERAL WORKS								
1	Setting out and measurement (Bouwplank)	m'	62.00	\$ 11.03	\$ 683.86	m'	62.00	\$ 11.04	\$ 684.48
	Sub Total				\$ 603.86				\$ 684.48
B	EARTH WORK								
1	Excavation for ordinary foundation	m3	132.11	\$ 5.14	\$ 679.05	m3	132.11	\$ 2.62	\$ 345.61
2	Foundation excavation back filling	m3	33.03	\$ 1.70	\$ 56.15	m3	33.03	\$ 1.70	\$ 56.15
3	Sand filling under foundation 50mm	m3	6.61	\$ 11.99	\$ 79.20	m3	6.61	\$ 24.24	\$ 160.12
4	Sand filling under floor 50mm	m3	7.80	\$ 11.99	\$ 93.52	m3	7.80	\$ 24.24	\$ 189.07
5	Soil fill for levelling floor	m3	62.10	\$ 8.29	\$ 514.81	m3	62.10	\$ 8.29	\$ 514.81
6	Compacted floor	m3	62.10	\$ 4.20	\$ 260.82	m3	62.10	\$ 4.20	\$ 260.82
	Sub Total				\$ 1,683.54				\$ 1,526.57
	ARCHITECTURAL WORK								
A	WALL MASONRY AND RENDER WORK								
1	Stone masonry work (1 cement: 4 sand)	m3	69.36	\$ 89.81	\$ 6,229.02	m3	69.36	\$ 104.51	\$ 7,248.58
3	Ordinary block wall masonry 40x20x10 cm (1 cement: 4 sand) for 1st floor	m2	276.84	\$ 14.45	\$ 4,000.37	m2	276.84	\$ 16.33	\$ 4,520.84
4	Ordinary wall plaster (1 cement: 4 sand) for 1st floor	m2	553.69	\$ 5.33	\$ 2,951.14	m2	553.69	\$ 6.24	\$ 3,454.99
5	Cement render for 1st floor	m2	553.69	\$ 3.27	\$ 1,810.55	m2	553.69	\$ 3.32	\$ 1,838.23
6	Bathroom Wall ceramic: 40x40 cm	m2	37.60	\$ 48.19	\$ 1,811.94	m2	37.60	\$ 26.17	\$ 983.99
	Sub Total				\$ 16,803.03				\$ 18,046.64
B	FLOOR WORK								
1	Floor ceramic + stair: 40x40 cm	m2	94.10	\$ 48.19	\$ 4,534.68	m2	94.10	\$ 26.17	\$ 2,462.60
2	Bathroom Floor ceramic: 40x40 cm	m2	11.25	\$ 48.19	\$ 542.14	m2	11.25	\$ 26.17	\$ 294.41
3	plint ceramic 10x40cm	m'	134.00	\$ 6.97	\$ 933.98	m'	134.00	\$ 3.66	\$ 490.44
	Sub Total				\$ 6,010.80				\$ 3,247.45
C	DOOR, WINDOW AND VENTILATION WORK (Material Teak Wood)								
1	Wooden Door type D-1, including all accessories	unit	1.00	\$ 350.00	\$ 350.00	unit	1.00	\$ 251.00	\$ 251.00
2	Wooden Door type D-2, Including all accessories	unit	2.00	\$ 250.00	\$ 500.00	unit	2.00	\$ 193.00	\$ 386.00
3	Wooden type D-3, Including all accessories	unit	2.00	\$ 250.00	\$ 500.00	unit	2.00	\$ 193.00	\$ 386.00
4	Door type D-4, including all accessories (Material Frame Alumunium 4inch, tebal 1.50mm)	unit	2.00	\$ 150.00	\$ 300.00	unit	2.00	\$ 177.00	\$ 354.00
5	Door type D-5, including all accessories (Material Frame Alumunium 4inch, tebal 1.50mm)	unit	2.00	\$ 150.00	\$ 300.00	unit	2.00	\$ 177.00	\$ 354.00
6	Wooden Door type D-6, including all accessories	unit	1.00	\$ 150.00	\$ 150.00	unit	1.00	\$ 193.00	\$ 193.00
7	Windows type W-1, including all accessories (Material Teak Wood with Glass 8mm)	unit	4.00	\$ 180.00	\$ 720.00	unit	4.00	\$ 210.00	\$ 840.00
8	Windows type W-2, including all accessories (Material Teak Wood with Glass 8mm)	unit	1.00	\$ 90.00	\$ 90.00	unit	1.00	\$ 105.00	\$ 105.00
9	Windows type W-3, Including all accessories (Material Teak Wood with Glass 8mm)	unit	2.00	\$ 120.00	\$ 240.00	unit	2.00	\$ 105.00	\$ 210.00
10	Windows type W-4, Including all accessories (Material Teak Wood with Glass 8mm)	unit	1.00	\$ 300.00	\$ 300.00	unit	1.00	\$ 315.00	\$ 315.00
11	Windows type W-5, Including all accessories (Material Teak Wood with Glass 8mm)	unit	1.00	\$ 200.00	\$ 200.00	unit	1.00	\$ 210.00	\$ 210.00
12	Ventilation type BV-1, including all accessories (Material Teak Wood with Glass 8mm)	unit	5.00	\$ 75.00	\$ 375.00	unit	5.00	\$ 62.50	\$ 312.50
	Sub Total				\$ 4,025.00				\$ 3,916.50
D	CEILING WORK								
1	Ceiling hollow frame 40/40mm and 40/20mm	m2	154.00	\$ 14.31	\$ 2,203.74	m2	154.00	\$ 13.86	\$ 2,134.44



AGENCIA DE DESARROLLO NACIONAL - 3

PROJECT OWNER : MINISTERIO DO INTERIOR

PROJECT TITLE : NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM

PROJECT LOCATION : LAUTEM - TIMOR-LESTE

DETAIL-COST ESTIMATION



AGÊNCIA DE DESENVOLVIMENTO NACIONAL - I. P.

PROJECT OWNER

: MINISTERIO DO INTERIOR

PROJECT TITLE

: NOVO CONSTRUÇÃO CAZERNAS DA POLICIA MUNICÍPIO DE LAUTEM

PROJECT LOCATION

: LAUTEM - TIMOR-LESTE

DETAIL-COST ESTIMATION

OWNER COST ESTIMATION

RESULT, ADN, I.P.

SITE PLAN		DESCRIPTION OF WORKS	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)	UNIT	VOLUME	UNIT PRICE (US\$)	AMOUNT (\$)
NO										
1	Stainless Steel Pipe 1 inch		M1	30.00	\$ 9.87	\$ 296.10	M1	30.00	\$ 13.15	\$ 394.50
2	Stainless Steel Pipe 1/2 inch		M1	10.00	\$ 5.93	\$ 59.30	M1	10.00	\$ 7.57	\$ 75.70
3	Stainless Steel Pipe redizer 1/2-1 inch		unit	11.00	\$ 8.00	\$ 88.00	unit	11.00	\$ 3.15	\$ 34.65
4	Stainless Steel Pipe TEE 1/2-1 inch		unit	10.00	\$ 10.00	\$ 100.00	unit	10.00	\$ 1.98	\$ 19.80
5	Stainless Steel Pipe elbow 1/2-1 inch		unit	9.00	\$ 7.00	\$ 63.00	unit	9.00	\$ 1.98	\$ 17.82
6	Stainless Steel Pipe check valve 1/2-1 inch		unit	1.00	\$ 14.00	\$ 14.00	unit	1.00	\$ 22.80	\$ 22.80
7	Stainless Steel Pipe gate valve 1/2-1 inch		unit	6.00	\$ 15.00	\$ 90.00	unit	6.00	\$ 15.12	\$ 90.72
8	Stainless Steel Pipe joint pipe 1/2-1 inch		unit	2.00	\$ 5.00	\$ 10.00	unit	2.00	\$ 5.00	\$ 10.00
9	Stainless Steel Pipe water faucet 1/2 inch		unit	4.00	\$ 5.98	\$ 23.92	unit	5.00	\$ 8.08	\$ 40.40
10	manhole for waste water		lot	2.00	\$ 76.48	\$ 152.96	lot	2.00	\$ 80.00	\$ 160.00
	SEPTICTANK									
1	Excavation		m3	21.38	\$ 5.14	\$ 109.87	m3	21.38	\$ 2.62	\$ 55.92
2	Sand fill		m3	0.43	\$ 11.99	\$ 5.13	m3	0.43	\$ 24.24	\$ 103.56
3	Coral Stone		m3	2.10	\$ 38.14	\$ 80.09	m3	2.10	\$ 40.84	\$ 85.76
4	Lean Concrete K 100		m3	0.81	\$ 139.04	\$ 112.62	m3	0.81	\$ 196.78	\$ 159.39
5	Ground Beam									
	Concrete K 175		m3	0.26	\$ 145.79	\$ 38.38	m3	0.26	\$ 202.03	\$ 53.18
	Reinforced		kg	56.59	\$ 1.59	\$ 90.20	kg	56.59	\$ 1.87	\$ 105.82
	Formwork		m2	3.51	\$ 29.56	\$ 103.74	m2	3.51	\$ 32.48	\$ 114.74
6	Beam									
	Concrete K 175		m3	0.26	\$ 145.79	\$ 38.38	m3	0.26	\$ 202.03	\$ 53.18
	Reinforced		kg	56.59	\$ 1.59	\$ 90.20	kg	56.59	\$ 1.87	\$ 105.82
	Formwork		m2	3.51	\$ 50.07	\$ 175.75	m2	3.51	\$ 53.20	\$ 184.73
7	Column									
	Concrete K 175		m3	0.34	\$ 145.79	\$ 49.20	m3	0.34	\$ 202.03	\$ 68.19
	Reinforced		kg	72.55	\$ 1.59	\$ 115.64	kg	72.55	\$ 1.87	\$ 135.67
	Formwork		m2	9.00	\$ 40.50	\$ 364.50	m2	9.00	\$ 42.43	\$ 392.67
8	Concrete Wall									
	Concrete K 175		m3	0.91	\$ 145.79	\$ 132.96	m3	0.91	\$ 202.03	\$ 184.25
	Reinforced		kg	112.54	\$ 1.59	\$ 179.39	kg	112.54	\$ 1.87	\$ 210.45
	Formwork		m2	18.24	\$ 29.56	\$ 539.17	m2	18.24	\$ 19.57	\$ 358.96
9	Concrete Plate									
	Concrete K 175		m3	0.86	\$ 145.79	\$ 124.65	m3	0.86	\$ 202.03	\$ 172.74
	Reinforced		kg	105.51	\$ 1.59	\$ 168.18	kg	105.51	\$ 1.87	\$ 197.30
	Formwork		m2	6.55	\$ 50.07	\$ 328.10	m2	8.55	\$ 53.20	\$ 454.86
10	Block wall 40x20x10		m2	41.01	\$ 14.45	\$ 592.59	m2	41.01	\$ 16.33	\$ 669.69
11	Plester		m2	82.02	\$ 5.33	\$ 437.17	m2	82.02	\$ 6.24	\$ 511.80
12	PVC Pipe Rucika 4 Inch		m1	15.00	\$ 13.70	\$ 205.50	m1	15.00	\$ 14.56	\$ 218.40
13	ELBOW PVC Pipe Rucika 4 Inch		unit	3.00	\$ 21.70	\$ 65.10	unit	3.00	\$ 6.90	\$ 20.70
14	Steel Pipe 1inch / Pembuang hawa		m1	3.00	\$ 9.87	\$ 29.61	m1	3.00	\$ 13.15	\$ 39.45
15	TEE Steel Pipe 1inch / Pembuang hawa		unit	3.00	\$ 10.00	\$ 30.00	unit	3.00	\$ 2.50	\$ 7.50
	Total for Plumbing Work					\$ 7,507.73				\$ 7,338.31
B	ELECTRICAL									
1	Panel board 30X20X15		Unit	1.00	\$ 50.00	\$ 50.00	Unit	1.00	\$ 47.08	\$ 47.08
2	MCB 3ZA 2P		Unit	1.00	\$ 30.00	\$ 30.00	Unit	1.00	\$ 31.68	\$ 31.68
3	MCB 20A 1P		Unit	1.00	\$ 15.00	\$ 15.00	Unit	1.00	\$ 9.11	\$ 9.11
4	MCB 6A 1P		Unit	2.00	\$ 7.00	\$ 14.00	Unit	2.00	\$ 6.58	\$ 17.16
5	RCCB/RCD 30mA 32A		Unit	1.00	\$ 58.00	\$ 58.00	Unit	1.00	\$ 58.00	\$ 58.00
6	LDR Sensor		Unit	1.00	\$ 15.00	\$ 15.00	Unit	1.00	\$ 15.66	\$ 15.66
7	Cable NYY 3 X 2.5 mm + PVC Pipe		m1	150.00	\$ 5.50	\$ 825.00	m1	150.00	\$ 3.98	\$ 597.00
8	Cable NYY 3 X 1.5 mm + PVC Pipe		m1	150.00	\$ 4.50	\$ 675.00	m1	150.00	\$ 3.49	\$ 522.98
9	Circular Philips Lamp 25 w		pcs	1.00	\$ 25.00	\$ 25.00	pcs	1.00	\$ 25.00	\$ 25.00
10	DL Philips Lamp 15 w		pcs	13.00	\$ 15.00	\$ 195.00	pcs	13.00	\$ 12.25	\$ 159.25
11	DL Philips Lamp 7 w		pcs	9.00	\$ 7.00	\$ 63.00	pcs	9.00	\$ 10.41	\$ 93.69
12	Exhaust fan		pcs	3.00	\$ 25.00	\$ 75.00	pcs	3.00	\$ 25.38	\$ 76.14
13	Power outlet		pcs	17.00	\$ 12.00	\$ 204.00	pcs	17.00	\$ 5.67	\$ 96.39
14	Single switch		pcs	12.00	\$ 7.00	\$ 84.00	pcs	12.00	\$ 5.15	\$ 61.80
15	Double switch		pcs	3.00	\$ 9.00	\$ 27.00	pcs	3.00	\$ 5.67	\$ 17.01
16	Wall Fan		pcs	4.00	\$ 25.00	\$ 100.00	pcs	4.00	\$ 25.00	\$ 100.00
17	Ceiling Fan		pcs	2.00	\$ 50.00	\$ 100.00	pcs	2.00	\$ 54.78	\$ 109.56
	Total for Electrical Work					\$ 2,555.00				\$ 2,037.51
	TOTAL					\$ 79,543.85				\$ 76,889.02