Cover, corner angle						LC: US\$			Total estimat	
Work Item	Unit	Quantity				ic Price	· · ·			
			<u> </u>	erial		abor	Equip		Amou	LC
			FC	LC	FC	LC	FC '	LC	FC	LC
1 Material					н. На н				1000000	. 0
Non return valve and o		1		- 0					1296000	353
Cast iron cover	Nos	3	1 A. 1997	117.6				•	0	
Non corrosive metal me	sh Nos	. 1	0	11				· · · ·	0	11
Steps	kg	35	1	0.54				· · ·	0	19
Ventilation pipe Dia.1	00x2Nos	. 2	0	80					0	160
Coner angle	kg	310	. 0	0.36					. 0	112
Wasted corner angle(29	) kg	6.2	. 0						0	2
Miscellaneous	L. S.	1	.0	2.28					. 0	. 2
Fuel Truck St	day	1.2	0	80					0	96
<ul> <li>Generator 45KVA</li> </ul>	day	2.3	0	24					0	55
Sub Total		1 .				1			1296000	809
2 Labour					1997 - A.					•
Foreman	man. day	2.3			0	38.20	)		0	88
Labor	man. daj	/ 20			· 0	14.30	)		. 0	286
Welder	man. day	5			0	23.09	)		0	115
Truck 8t	man. day	1.2			· 0	. 33			0	40
Generator 45KVA	man. day	2.3	ł		o	33	].		0	76
Sub Total									· 0	605
3 Equipment										
Truck St	day	1.2					3, 480	. 0	4, 176	
Generator 45KVA	dav	2. 3			1		. 1,080	0	2, 484	
Welder 300A	day	2.3			·		130	0	276	
Other equipment	L. S.	1					139	. 0	- 139	
Sub Total		1.1	·		ł		1		7,075	
		_ <u>}</u>		<u> </u>	· · · · · · · · · · · · · · · · · · ·		Total		1, 303, 075	1, 414
							Unit Price	per No.	1, 303, 074. 72	1, 414. 13
INDIRECT COST	·		•• • • • • • • • • • • • • • • • • • • •					15%	195, 461. 21	212, 12

••

1,498,536

1,626.25

•

407

TOTAL

4C04406

No

FC: YEN

Total estimate for 1 No. LC: US\$ Concrete Placing Unit Cost Basic Price Work Item Unit Quantity Material Labor Equipment Amount LC FC LC FC LC FC LC FC 1 Material 14, 980 214.00 70.00 Ready mixed concrete m3 n 328 Wasted concrete(5%) 70.00 m3 4.68 4,576 Formwork m2 832 5.50 0 306 77 n Fuel Truck crane 16t day · 0 " 0 Concrete mixer 0.6m day 95 . 11 24 Generator 45KVA day 4.0 20,285 Sub Total 2 Labour 153 38.20 0 Foreman man. day 0 14.30 Q 858 Labor man. day 60.0 0 0 132 0 33 Truck crane 16t man. day 33 0 132 0 Concrete mixer 0.6m3 man.day 132 0 33 0 Generator 45KVA man. day 0 1,407 Sub Total 3 Equipment 9,480 0 37,920 Truck crane 16t day -0 6,480 0 25,920 Concrete mixer 0.6m3 day 4, 320 1,080 0 Generator 45KVA day 120 960 Vibrator day 69,120 Sub Total Total 69, 120 21,692

	•	· · ·		 Unit	: Price per No	o. '	69, 120, 00	21,691.68
INDIRECT COST						15%	10, 368. 00	3, 253. 75
 TOTAL						19 - L	79, 488	24, 945. 43
		<u> </u>						

408

LA l	JNION	PORT	DEVELOPMENT	PROJECT
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4C04407

Total estimate for 1 No.

	Backfill sand & Compacti	on	1		e de la composición d		LC: US\$	-		Total estimat	e for 1 No.
No	Work Item	1	Quantity			Bas	sic Price			Unit (	Cost
				Mate	rial .	L	abor	Equip	ment	Аточ	nt
-				FC	LC	FC	LC .	FC	LC	FC	LC
ľ	Material										
	Backfill sand	m3	1954	. 0	0.00					0	0
	Wasted Backfill sand (25%)	m3	0	0	0.00					0	0
	Fuel Backhoe 1.5m3	day	• 4	0	170					0	680
	" Tire roller 8-20t	day	4.0	0	55					0	221
	" Tampa 60kg	day	4.0	0	2					0	7
	Sub Total	ł					1			0	907
2	Labour			·		1					
	Foreman	man. day	4			0	38, 20	· .		0	153
÷	Labor	man. day				0	14.30			0	229
	Backhoe 1.5m3	man. day				. 0	33			0	132
·	Tire roller 8-20t	man. day				0	33			0	132
	Sub Total									0.	646
	Equipment								1. 2		
	Backhoe 1.5m3	day	4					19, 440	0	77, 760	
	Tire roller 8-20t	day	4					3, 360	. 0	13, 440	
	Tampa 60kg	day	4		j 			212	0	. 850	
	Sub Total	ua,	.							92, 050	1
	Sub Total	<u> </u>	<u> </u>	I	l	1	<u>, I,</u> .	Total		92, 050	1, 553
							н Н	Unit Price	per No.	92, 049. 60	1, 552. 60
<b></b>	INDIRECT COST		· · ·						15%		232.89
┣	TOTAL				<u></u>					105, 857	1, 785. 49

FC: YEN

409

### LA UNION PORT DEVELOPMENT PROJECT

4C044

410

Truck crane 16t per day

LC: US\$

FC: YEN

No	Work Item	Unit	Quantity			Basic Pri	ce			Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	rc	FC	LC ·	FC LC		FC	LC
1	Material										
	Fuel & Lubricant	lr.	232.00	0	0.33					0	77
	Others	L. S.	1	0	0.00	ĺ				0	0
	Sub Total									0	77
2	Labor								· ·	enter Antonio de la composición de la composi Antonio de la composición	
	Operator	man. day	1			0	33.00			. 0	33
	Others	L. S.	1			0	0.00			· 0	0
÷.	Sub Total			-		Í.				0	33
. 3	Equipment										
		day	- 1			and the second		9480	. 0	9,480	0
	Sub Total			· · ·						9, 480	0
	Total				· .		· ·			9, 480	110
· 		ł .									

Fuel & Lubricant: 230ps x 0.11 x 4 x 1.05

100ps x 0.2 x 6 x 1.05

4C044-1

### LA UNION PORT DEVELOPMENT PROJECT

4C044

### FC: YEN LC: HSS

No	Truck 8t per day Work Item	Unit	Quantity		· · · · · ·	Basic Pri	ce			Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
_ 1	Material	1									
	Fuel & Lubricant	lr.	233.00		0.33					• 0	
	Others	L. S.	1		) 3.00					0	3
	Sub Total									0	80
		1.		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			1				
	Labor			· · ·							
	Operator	man. day	1			c c	33. 00	b ·		0	33
	Others	L. S.	1	- -		c	0.00			. 0	0
	Sub Total									· 0	33
	Equipment										
	Truck 8t	day	. 1					348	0	0 3,480	
ļ	Sub Total		1 · · ·	6 -						3, 480	-
	000 10001										
	Total									3, 480	113
·	IULAL						· · · ·				· ·

4C044-2

Fuel & Lubricant: 253ps x 0.11 x 8 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

4C044

FC: YEN

	Dump truck 10t /day	<u>т                                    </u>	1		<u> </u>		LC: US\$	· · · · · ·		Tre	
٩	Work Item	Unit	Quantity	1.1.1.1.1.1		Basic Pri	се	· · · · · · · · · · · · · · · · · · ·		Unit Cost	· · ·
				Material		Labour		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
]	Material										
	Fuel & Lubricant	lr.	309.00	0	0.33					0	102
	Others	L. S.	1	0	3.00	1 A 4				0	
	Sub Total	÷			·					0	105
											· · · · ·
. 2	Labour	] ·			· .						
	Operator	man. day	1			0	33.00		· .	· · · · · · · · · · · · · · · · · · ·	33
	Others	L. S.	1			0	. 0.00			. 0	. 0
	Sub Total									0	- 33
	Equipment	· · .	10 B			· · ·				· · · ·	
	Dump truck 10t	day	1					6720		6, 720	
	Sub Total									6, 720	
•	Total									6, 720	138
•	10000	4		· · ·							

Fuel & Lubricant: 335ps x 0.11 x 8 x 1.05

4C044-3

# LA UNION PORT DEVELOPMENT PROJECT

4C044

413

### FC: YEN LC: US\$

Generator	45KVA	per	day
001107 0004		F	

Ňо	Generator 45KvA per da Work Item		Quantity			Basic Pri	се			Unit Cost	
NO	HOLK FCen			Material		Labour ·		Equipment		Amount	
			1	FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	72.00		0 0.33					0	24
	Others	L. S.	1		0 0.00			] .		0	0
	Sub Total								1990 B	0	24
2	Labour		ļ						}		
	Operator	man, day				· .	33.00	)		0	33
	Others	L.S.				0	0.00	)		0	(
	Sub Total	5. 0.								0	3
	Sub lotal										
								· · ·			
	Equipment					1		1080		1, 080	
	Generator 45KVA	day								1,080	
	Sub Total			- . •		j				1,000	
										1 090	5
	Total	1								1,080	2

Fuel & Lubricant: 57ps x 0.2 x 6 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

4C044

414

Backhoe 1.5 m3 per day

### FC: YEN LC: US\$

	Backnoe 1.5 m3 per	day		r				LC 030			1	y
No	Work Item	Unit	Quantity				Basic Pri	ce	· .		Unit Cost	
• •				Materia	al		Labour		Equipment		Amount	
				FC	LC	) )	FC	LC	FC	LC	FC	LC
1	Material											
	Fuel & Lubricant	lr.	509.00	•	0	0.33			1. A. A.		0	168
	Others	L. S.	1		0	2.00					0	. 2
	Sub Total			-							0	170
2	Labour											
	Operator	man. day	1				0	33.00	)	· · ·	0	33
	Others	L. S.	1				0	0.00	)		0	. 0
3	Sub Total Equipment					·					0	33
	Backhoe 1.5m3	day	1			÷.			19440			o
	Sub Total										19, 440	· 0
	Total					•					19, 440	203

Fuel & Lubricant: 303ps x 0.2 x 8 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

4C044

415

FC: YEN 

1.1	Tire roller 8-20t per	day					LC: US\$			<u> </u>
		Unit	Quantity			Basic Pr	ice		Unit Cost	
				Material	· · · · · ·	Labour	· .	Equipment	Amount	
• •					LC	FC	LC	FC LC	FC LC	
1	Material		a de la composition de la comp							
	Fuel & Lubricant	lr.	161.00	. 0	0.33				0	53
	Others	L. S. 🕤	1	0	2.00	· · ·			0	2
	Sub Total					· · ·			0	55
· 2	Labour									
	Operator	man. day	. I			(	33.00		0	33
	Others	L. S.	· 1			·	0.00		0	0
-	Sub Total		ан С						0	33
					· ·					
3	Equipment			· .						
	Tire roller 8-20t	day	1					3360	3, 360	0
	Sub Total								3, 360	0
	Total				-				3, 360	88

Fuel & Lubricant: 96ps x 0.2 x 8 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

4C044

416

Tampa 60-100kg per day

# FC: YEN

LC: US\$

No	Work Item	Unit	Quantity		· · ·	Basic Pri	ce			Unit Cost	
				Material	•	Labour		Equipment		Amount	
		ļ		FC	LC	FC	LC	FC L	С	FC	LC
1	Material										
	Fuel & Lubricant	lr.	5.00	- O	0.33	×				. 0	2
	Others	L. S.	I	- 0	0.00					· 0	. 0
	Sub Total					. *	н. На селото се			0	2
		Ì							•		
2	Labour										
	Operator	man. day	1			0	33, 00			0	33
	Others	L. S.	1			0	0.00		· .	0	0
	Sub Total						· ·		,	. 0 .	33
3	Equipment					1990 - A.					
	Tampa	day	. 1					212. 4	. 0	212. 40	o
	Sub Total									212. 40	o
								· ·			
	Total						:		. ·	212. 40	35
			•				14		•		

Fuel & Lubricant: 5ps x 0.2 x 5 x 1.05

4C044-7

LA UNION PORT DEVELOPMENT PROJECT

4C044

FC: YEN LC: USS

No	Concrete Mixer 0.6m3 Work Item	Unit	Quantity	·		Basic Pri	ce			Unit Cost		
			1			Labour		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC		
	1 Material											
	Fuel & Lubricant	lr.	. 0	0	0.33			5		0	0	
	Others	L. S.	1	0	0.00					0	0	
	Sub Total									. 0	0	
	2 Labor											
	Operator	man. da	1 1			0	33.00			0	33	
	Others	L. S.	1			. 0	0.00			0	0	
	Sub Total									0	33	
	3 Equipment											
	Concrete Mixer 0.6m3	day	1					6480	(	6, 480. 00	(	
	Sub Total									6, 480. 00	(	
	Total									6, 480. 00	33	

LA UNION PORT DEVELOPMENT PROJECT

4C044

Generator 100KVA per day

FC: YEN LC: US\$

No	Work Item	Unit	Quantity	<u> </u>	· .		Basic Pri	ce			Unit Cost	
				Ma	terial		Labour		Equipment		Amount	
				FC		LC	FC	LC	FC	LC	FC	LC
1	Material											
	Fuel & Lubricant	lr.	157.00	· ·	0	0.33					0	52
	Others	L. S.	· 1		. 0	0.00					0	0
	Sub Total						an an an				· 0	52
2	Labour											· · · · · · · · · · · · · · · · · · ·
	Operator	man. day	· 1		. •		0	33.00			0	33
	Others	L. S.	Í			· .	0	0.00			. 0	0
	Sub Total										0	33
3	Equipment											1
		day	· 1					· ·	1800	. 0	1,800	. (
	Sub Total		ļ								1,800	(
	Total	· · ·								· · ·	1, 800	85
		· .			· .							

Fuel & Lubricant: 125ps x 0.2 x 6 x 1.05

418

4C044-9

LA	UNION PORT	DEVELOPMENT	PROJECT

419

LA UNI	ON:	PORT	DEVELOP	MENI	PROJEC.	1
4F01			1		1 A. 1	
401		1.00		2		

FC: YEN

Total	estimate	for	1	Span	

4F01 46KV TRANSMISSION LIN	E	4. <sup>1</sup> 1		. *	. •	LC: US\$		· · · · · · · · · · · · · · · · · · ·	Total estimat	e for 1 Span
No Work Item	Unit	Quantity			Uni	t Cost				
	s		Mate	rial	. L	abor	Equip	ment	An	ount
			FC	LC	FC	LC	FC	LC -	FC	LC .
1 Material			, t		·					
Concrete Pole 28m	nos.	1	0	4, 590. 00					0	4, 590
Above others 16.3%	L.S	0.163	0	4, 590. 00					0	748
Cable 46KV	m	195		16.00					0	3, 120
Quarry run	m3	1,4	0	7.54					. 0	11
Fuel Truck 8t with cran	e day	0.5	0	83					0	41
" Truck crane 45t	day	0.5	0	108	- 10 - 11 - 11 1				0	54
Sub Total									0	8, 564
2 Labor						1				
		<u></u> ,			· · ·	38.20			0	38
Electrician	man. day	1				31.09			0	31
Forman	man. da					14.30			. 0	114
Labor	man. day	1.1		ана (1997) Алган		33			. 0	17
Truck 4t with crane	man. day		1.1.1		0	33			ů O	17
Truck crane 45t	man.da	y 0.5			0				0	217
Sub Total						a shirt an				
3 Equipment								0	2, 760	
Truck 8t with crane	day	0.5					5, 520		[	an a
Truck crane 45t	day	0.8			1 · .		22, 320	0	11,160	
Sub Total			<u>]</u>	<u> </u>					13, 920	
					1.		Total		13, 920	8, 781
			· · · · ·				Unit Price		13, 920. 00	8, 780. 62
INDIRECT COST								15%		1, 317. 09
TOTAL									16,008	10, 097. 71

LA UNION PORT DEVELOPMENT PROJECT

4F01

;

420

Truck 8t with crane per day

FC: YEN

LC: US\$

No	Work Item	Unit	Quantity			Ba	sic Price			Unj	it Cost
				Mate	rial	L	abor	Equip	ment	A	mount
				FC ·	LC	FC	LC	FC	LC	FC	LC ·
1	Material										
	Fuel & Lubricant	lr.	250.00	0	0.33					0	83
	Others	L. S.	1	0	0,00					0	0
	Sub Total				· .					0	83
									and the second		
2	Labor										
	Operator	man. day	- 1			0	33.00			0	33
	Others	L. S.	1			0	0.00			0	. 0
	Sub Total						- E			0	33
. 3	Equipment										
	Truck 8t with crane	day	i i					5520	0	5, 520	· 0 ·
	Sub Total	1								5, 520	. <b>O</b> ·
	Total									5, 520	116

Fuel & Lubricant: 269ps x 0.11 x 4 x 1.05

100ps x 0.2 x 6 x 1.05

## LA UNION PORT DEVELOPMENT PROJECT

4F01

Truck crane 45t per day

# FC: YEN

Truck crane 45t per day												
No	Work Item	Unit	Quantity			Ba	sic Price			Uni	t Cost	
				Mate	rial	L	abor	Equip	nent	A	nount	
		· .		FC	LC	FC	LC	FC ·	LC	FC	LC	
1	Material						· · · ·					
• .	Fuel & Lubricant	lr.	327.00	· 0	0.33	· · ·				0	108	
	Others	L. S.	1	. 0	0.00					. 0	0	
	Sub Total									0	108	
			-									
2	Labor											
	Operator	man. day	1			0	33.00			0	33	
	Others	L. S.	I			0	0.00			0	0	
	Sub Total									0	. 33	
				1								
3	Equipment					[ .						
	Truck crane 45t	day	1					22320	0	22, 320		
	Sub Total								· • · ·	22, 320		
	·											
	Total									22, 320	141	

4F01-2

Fuel & Lubricant: 300ps x 0.11 x 4 x 1.05

150ps x 0.2 x 6 x 1.05

### 4F02

FC: YEN

46KV SUBSTATION

LC: US\$

Total estimate for 1 L.S

No	Work Item	Unit	Quantity			Bas	ic Price			Unit	Cost
ļ				Ma	erial	· L	abor	Equi	pment	Amo	ount
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	46KVA Circuit breaker	set	1		0 46, 409					0	46, 409
ŀ	46KVA Disconnecting switch	set	1		0 10, 296					0	10, 296
	46KVA 1P Potential Transformer	set	3		0 9,350				1. A. A.	0	28, 050
	46KVA 1P Current Transformer	set	3		0 13, 200	· ·				0	39, 600
	46KVA 1P Arrester	set	3		0 2, 600	· .				0	7,800
	46/4.16KV,3Phase 60Hz,4000KVA, T	Rset	1		0 223, 729				}	· 0	223, 729
	Neutral Grounding Transformer	set	1		0 5, 720					. 0	5, 720
	Other materials	L. S	1		0 13, 500					. 0	13, 500
	Fuel Truck 8t with crane	day	15		0 83	}.				0	1, 238
	* Truck crane 16t	day	15		0 78					0	1, 163
	Sub Total								· ·	0	377, 505
2	Labor										
	Electrician	man. day	43		·	.0	31.09			0	1, 337
:	Labor	man. day	240			0	14.30			0	3, 432
	Truck 4t with crane	man. day	15			0	33			0	495
	Truck crane 16t	man, day	15			0	33			. <b>0</b>	495
	Sub Total									0	5, 759
3	Equipment	<b>1</b>									
	Truck 8t with crane	day	15					5, 520	0	82, 800	. 0
	Truck crane 16t	day	15					9, 480	0	142, 200	. 0
	Sub Total									225, 000	0
								Total		225, 000	383, 264
								Unit Price	per no.	225, 000. 00	383, 263. 62
	INDIRECT COST								15%	33, 750. 00	57, 489. 54
	TOTAL									258, 750	440, 753. 16

LA UNION PORT DEVELOPMENT PROJECT

4F02

423

Truck 4t with crane per day

FC: YEN LC: US\$

Work Item	Unit	Quantity			Ba.	sic Price		• •	Uni	t Cost
		Mate	rial	L	abor	Equip	nent	Ar	nount	
			FC	LC	FC	LC	FC	LC	T FC	LC
Material								- 		
Fuel & Lubricant	lr.	250.00	0	0.33				. •	· . 0	83
Others	L. S.	.1	0	0.00					0	0
Sub Total									°0	83
Labor	1 - 1 1				н 1. М	· · · · ·		·		
Operator	man. day	1			. 0	33. 00			0	33
Others	L. S.	1	· ·		· 0	0.00			0	0
Sub Total					·				· 0	33
Fouinment										
· · · ·	dav	1					5520	0	5, 520	
Sub Total									5, 520	
Total									5, 520	. 116
	Material Suel & Lubricant Others Sub Total Labor Operator Others Sub Total Equipment Fruck 4t with crane Sub Total	Material Suel & Lubricant lr. Others L. S. Sub Total Labor Operator man. day Others L. S. Sub Total Equipment Fruck 4t with crane day Sub Total	Material Suel & Lubricant Ir. 250.00 Others L.S. 1 Sub Total Labor Operator man. day 1 Others L.S. 1 Sub Total Equipment Fruck 4t with crane day 1 Sub Total	Material       Suel & Lubricant     Ir.     250.00     0       Others     L. S.     1     0       Sub Total     Intersection     1     0       Deperator     man. day     1     1       Others     L. S.     1     0       Sub Total     Intersection     1     1       Equipment     Intersection     1     1       Sub Total     Intersection     1     1	MaterialMaterialFCLCAterialSuel & Lubricant1r.250.00000.33OthersL.S.Sub TotalLaborman. dayOperatorman. dayOthersL.S.Sub TotalEquipmentFruck 4t with craneSub Total	MaterialLMaterialIFCLCFCLCFCLCSub TotalLaborOperatorDeratorDatersL. S.I0OthersSub TotalEquipmentFruck 4t with craneSub Total	Material     Labor       FC     LC     FC     LC       Aterial     Ir.     250.00     0     0.33       Others     L.S.     1     0     0.00       Sub Total       0     33.00       Operator     man. day     1     0     0.00       Others     L.S.     1     0     0.00       Sub Total      0     0.00       Sub Total      1     0     0.00       Sub Total       1     0       Sub Total           Sub Total           Sub Total	Material         Labor         Equip           Material         Labor         Equip           Atterial         Ir.         250.00         0         0.33         Ir.         FC         LC         FC         LC         FC         Ir.         Provide Lubricant         Ir.         250.00         0         0.33         Ir.         Ir.         Ir.         250.00         0         0.33         Ir.         Ir.	Material     Labor     Equipment       Asterial     FC     LC     FC     LC       Subricant     Ir.     250.00     0     0.33	Material         Labor         Equipment         Ar           faterial         FC         LC         FC         LC         FC         LC         FC         C         FC         FC<

Fuel & Lubricant: 269ps x 0.11 x 4 x 1.05

100ps x 0.2 x 6 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

4F02

424

Truck crane 16t per day

FC: YEN

LC: US\$	

No	Work Item	Unit	Quantity			Ba		Unit Cost			
		1		Mate	rial	L	abor	Equir	oment	Am	ount
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	235.00	0	0.33					. 0	. 78
	Others	L. S.	1	0	0.00			-		0	0
	Sub Total		ų.							0	78
2	Labor										
- -		man. day	· 1			0	33.00			. 0	33
	Others	L. S.	· 1			0	0.00			0	0
	Sub Total									0	33
3	Equipment		· ·		-						
		day	1					9480	0	9, 480	0
	Sub Total		· .			· .				9, 480	о
	the second second second second			. M							
	Total									9, 480	111

Fuel & Lubricant: 230ps x 0.11 x 4 x 1.05

100ps x 0.2 x 6 x 1.05

	<sup>† .</sup>	· · · · · · · · · · · · · · · · · · ·	4I0104 and 4I0105 CABLING 3C x 100mm2(4.16KV)				C: YEN .C: US\$	Total estima	te for 100m
	No		Work Item	Unit	Quantíty	Basic F	rice	Unit	Cost
						1. J. 1.	· .	Amot	int
						FC /	LC	FC	LC
41010401	and	41010501	Excavation & Disposal	M	100	103.50	1.89	10, 350	189.04
41010402	and	41010502	Sand	М	100	66.08	7.16	6,608	716.27
41010403	and	41010503	Installation Cable 100mm2	M	100	38.64	27.53	3, 864	2, 753. 46
41010404	and	41010504	Backfill & Compaction	M	100	67.30	2.04	6, 730	204.18
			Total	· · ·				27, 552	3, 862. 94
						Unit Price p	er m	276	38.63

.

4I010401 and 4I010501

Excavation & Disposal for Cabling 3C x 100mm2 (4.16KV)

LC: US\$

FC: YEN

Total estimate for 100m

No	Work Item	Unit	Quantity			Bas	ic Price			Unit	Cost
				Material		L	abor	Equi	ipment	Атс	ount
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Excavation & Disposal	m3	130	·. 0	0.00	•				. 0	. 0
	Fuel Backhoe 0.8m3	day	0.5	0	95	: · ·				. 0	48
	" Dump truck 10t	day	0.5	0	105		· .			· · · 0	52
	Sub Total			·						0	100
2	Labor									· ·	
	Foreman	man. day	0.5			. 0	38.20			0	19
	Labor	man. day	2. 0			· 0	14.30			0	- 29
	Backhoe 0.8m3	man. day	0, 5	,* 	1	· 0	33			0	. 17
	Dump truck 10t	man. day	0.5		н. 1	· 0	33			0	17
	Sub Total	ŀ								. 0	64
3	Equipment						•				
	Backhoe 0.8m3	day	0.5			· · ·	· 1	11, 280	0	5, 640	
	Dump truck 10t	day	0.5					6, 720	0	3, 360	C
	Sub Total									9,000	e <sup>t</sup> a e constante de la constante
				, · ·				Total		9, 000	164
							· · · ·	Unit Pric	e per m	90.00	1.64
	INDIRECT COST					1 A.			15%	13. 50	0.25
	TOTAL						· · · · ·			104	1.89

426

LA	UNION	PORT	DEVELOPMENT	PROJECT

41010402 and 41010502

FC: YEN

Sand for Foundation of Cabling 3C x 100mm2(4.16KV)

LC: US\$

Total estimate for 100 m

No	Work Item	Unit	Quantity		· · · · · ·	Basi	lc Price			Unit	Cost
					terial	L	abor	Équip	ment	Amo	unt
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Sand	пЗ	74.50	c	5.16		No.			0	384
	Wasted sand (25%)	т3	18.63	. c	5. 16					0	96
	Fuel Backhoe 0.8m3	day	0.5	C	95					0	48
	" Plate compactor 50kg	day	0.5	· c	4					0	2
•	Sub Total									0	530
2	Labor										
	Foreman	man. day	0.5			· 0	38.20			0	19
	Labor	man. day	4			0	14.30			0	57
	Backhoe 0.8m3	man. day	0.5			. 0	33			0	17
	Sub Total									0	93
3	Equipment										
·	Backhoe 0.8m3	day	0.5					11, 280	0	5, 640	C
	Plate compactor 50kg	day	0.5					212.40	0	106.20	C
	Sub Total									5, 746. 20	(
								Total		5, 746. 20	623
								Unit Price p	per m	57.46	6.23
	INDIRECT COST								15%	8.62	0. 93
	TOTAL									66	7.16

427

4I010403 and 4I010503

Installation of Cabling 3C x 100mm2(4.16KV)

FC: YEN LC: US\$

Total estimate for 100m

No	Work Item	Unit	Quantity			Ba	sic Price		· .	- Uni	t Cost
			} [	Mate	rial	L	abor	Equip	oment	Amount	
				FC	LC .	FC -	LC	FC	LC	FC	LC
1	Material										
	Cable 3C x 100m2	m	100	. 0	20.00					· 0	2,000
	Above others 15%	L. S	15	0	12.05					0	181
	Concrete Pit	m3	0.1	0	90.00					0	. 9
	Fuel Truck 4t with crane	day	1	0	69					0	69
	Sub Total									0	2, 259
2	Labor										
	Electrician	man. day	· 1			0	31.09			0	31
	Labor	man. day	5			0	14.30			0	72
•	Truck 4t with crane	man. day	1			0	33			: O	33
	Sub Total									. 0	136
3	Equipment										
	Truck 4t with crane	day	1					3, 360	0	3, 360	0
	Sub Total									3, 360	0
	······································							Total		3,360	2, 394
•								Unit Price p	per m	33.60	23.94
	INDIRECT COST								15%	5.04	3, 59
	TOTAL						age of the second			39	27.53

4 L/	UNION	PORT	DEVELOPMENT	PROJECT
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4I010404 and 4I010504

FC: YEN

	Backfill sand & Compacti Work Item	Unit	Quantity			Bas	ic Price			Unit Cost		
٠	HOLK LUCIN			Mate	erial	Labor		Equipment		Аточ	int	
				FC	LC	FC	LC	FC	LC	FC	LC	
. 1	Material	1					· · ·					
	Backfill material	m3	65	. C	0, 00					0	0	
	Wasted Backfill sand (25%)	m3	16.25	Ċ	0.00					. 0	0	
•	Fuel Backhoe 0.8m3	day	0.5	C	95					0	48	
	" Plate compactor	day	1.0	Č C	4				· · · ·	0	· 4	
5	Sub Total									0	51	
2	Labor											
	Foreman	man. day	1			0	38.20			0	38	
	Labor	man. day	5			0	14.30			0	72	
	Backhoe 0.8m3	man. day	0.5			0	33			0	17	
	Sub Total									0	126	
3	Equipment											
	Backhoe 0.8m3	day	0.5					11, 280	0	5,640		
	Plate compactor	day	1					212.40	0	212		
	Sub Total						·			5, 852		
	<u>1</u>	<u> </u>	` <u></u>					Total		5, 852	178	
								Unit Price p	er m	58. 52	1.78	
	INDIRECT COST								15%	8.78	0.27	
	TOTAL		· ·							67	2.04	

429

LA UNION PORT DEVELOPMENT PROJECT

4I0104 and 4I0105

No

Work Item

Truck 4t with crane per day

FC: YEN LC: US\$

Unit Cost

Unit Quantity Basic Price Material Labor

			Material		Labor		Equipment		Amount	
			FC ·	LC	FC	LC	FC	LC	FC	LC
l Material										
Fuel & Lubricant	lr.	209.00	0	0.33					• 0	69
Others	L. S.	. 1	0	D, 00		-			0	0
Sub Total									0	69
								• •		
2 Labor										
Operator	man. day	1			0	33.00			0	33
Others	L. S.	. 1			0	0.00			0	0
Sub Total									0	33
3 Equipment										
Truck 4t with crane	day	1					3360	0	3, 360	0
Sub Total									3, 360	0
						-				
Total									3, 360	102
					· ·					

Fuel & Lubricant: 180ps x 0.11 x 4 x 1.05

100ps x 0.2 x 6 x 1.05

410104-1 410105-1

LA UNION PORT DEVELOPMENT PROJECT

4I0104 and 4I0105

431

FC: YEN

	Dump truck 10t per da	iy.					LC: US\$				
No	Work Item		Quantity			Ba	sic Price			Unit	Cost
•					rial	L	abor	Equip	ment	Атс	unt
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material							· . ·			
	Fuel & Lubricant	lr.	309.00	. 0	0.33					0	102
	Others	L. S.	. 1	0	3.00					0	3
	Sub Total	ł								0	105
. 2	Labor							, ,	ŀ		
	Operator	man. day	1			0	33, 00			0	33
	Others	L. S.	1			- 0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Dump truck 10t	day	· 1		· · .			6720	)	0 6,720	(
•	Sub Total									6, 720	. (
	Total									6, 720	138
				1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -					· .		

Fuel & Lubricant: 335ps x 0.11 x 8 x 1.05

410104-2

410105-2

LA UNION PORT DEVELOPMENT PROJECT

4I0104 and 4I0105

Backhoe 0.8 m3 per day

FC: YEN LC: US\$

	Wester There		lour + i + - [			Po	sic Price			[Init	Cost
No	Work Item	Unit	Quantity					r			
1				Mate	rial	Ĺ	.abor	Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC .
1	Material					-					
	Fuel & Lubricant	lr.	283. 00	0	0.33					0	93
	Others	L. S.	_ 1	0	2.00					0	2
	Sub Total									0	95
·											
2	Labor										
	Operator	man. day	1			0	33.00			0	33
	Others	L. S.	1. I			0	0.00			0	0
	Sub Total	м.,								0	33
						· · ·					
3	Equipment					•			· ·		
	Backhoe 0.8m3	day	1					11280	· _ 0	11, 280	· 0
	Sub Total	1								11, 280	0
									н. 19		
	Total									11, 280	128
			l I								

Fuel & Lubricant: 169ps x 0.2 x 8 x 1.05

410104-3 410105-3

· LA UNION PORT DEVELOPMENT PROJECT

4T0104 and 4T0105

433

FC: YEN

	410104 and 410105	•	÷.			÷	TO TER				
	Plate Compactor 60-100kg	per	day	1			LC: US\$	· · ·			
No	Work Item					Ba	sic Price			Uni	t Cost
		4		Mate	rial	L	abor	Equip	nent	A	mount
				FC	LC	FC	LC	FC	LC	FC	LC
. 1	Material										
	Fuel & Lubricant	lr.	5.00	0	0. 33					0	2
	Others	L. S.	1	. 0	2.00					0	· 2
	Sub Total			н. н.						0	. 4
2	Labor					5					
	Operator	man. day	1			· 0	33, 00			0	- 33
	Others	L. S.	1			0	• 0,00			0	0
	Sub Total									· 0	33
	Equipment			· ·							
	Plate Compactor	day	1					212.4	· 0		0
	Sub Total									212.40	0
	Total				-					212	37

Fuel & Lubricant: 5ps x 0.2 x 5 x 1.05

410104-4 410105-4

410116

434

### CABLING 3C x 38mm2(480V)

### FC: YEN

LC: US\$ Total estimate for 100m

No	Work Item	Unit	Quantity	Basic H	Price	Unit	Cost
алан алан алан алан алан алан алан алан				· .		Amou	Int
			1. S. S.	FC	LC	FC	LC
41011601	Excavation & Disposal	М	100	6.49	0. 13	649	12.87
41011602	Sand	М	100	6.61	0.68	661	68.41
. 41011603	Installation Cable 100mm2	М	100	3.86	6.82	386	682.21
41011604	Backfill & Compaction	М	100	6. 73	0. 19	673	18.77
	Total		· ·			2, 369	782.26
	· · · · · · · · · · · · · · · · · · ·			Unit Price p	erm	24	7.82

1\_\_\_\_\_

LA	UNION	PORT	DEVELOPMENT	PROJECT
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41011601

Total estimate for 100m LC: US\$ Excavation & Disposal for Cabling 3C x 38mm2 (480V) Unit Cost Basic Price Unit Quantity Work Item No Material Labor Equipment Amount LC LC FC LC FC FC FC LC Material 0 Excavation & Disposal 0.00 130 m3 0 5 95 Fuel Backhoe 0.8m3 0.05 0 day 5 0 Sub Total 2 Labor 2 0 38.20 man. day 0.05 Foreman 3 14.30 0 man. day 0.2 ۵ Labor 2 33 0 0 Backhoe 0.8m3 man. day 0.05 6 0 Sub Total • 3 Equipment 564 11,280 0 0 0.05 day Backhoe 0.8m3 564 0 Sub Total 11 Total 564 5.64 0.11 Unit Price per m 15% 0.85 0.02 INDIRECT COST 6 0.13 TOTAL

FC: YEN

4I011602

436

## FC: YEN

Sand for Foundation of Cabling 3C x 38mm2(480V)

LC: US\$

Total estimate for 100 m

No	Work Item	Unit	Quantity		Basic Price						Unit Cost		
				Mat	erial	L	abor	Equip	ment	Атс	ount		
				FC	LC ·	FC	LC	FC	LC	FC	LC		
1	Material												
	Sand	m3	· 8.00	0	5.16					0	41		
	Wasted sand (5%)	m3	0.40	0	5. 16					0	2		
	Fuel Backhoe 0.8m3	day	0.05	0	95	a		н. - С		0	5		
	" Plate compactor 50kg	day	0.1	· · · 0	4					0	0		
	Sub Total									0	48		
. 2	Labor												
	Foreman	man. day	0.1			0	38.20			. 0	4		
	Labor	man. day	0.4			0	14.30		a da kara da sa	. 0	6		
	Backhoe 0.8m3	man. day	0.05			· 0	33			0	2		
	Sub Total						· · ·			. 0	11		
3	Equipment							н					
	Backhoe 0.8m3	day	0.05					11, 280	. 0	564	0		
	Plate compactor 50kg	day	0.05	1		· · ·		212.40	0	10.62	0		
	Sub Total				-					574.62	0		
				· ·	· · ·			Total	н. 1	574.62	59		
1		. '			en an tean	· · ·		Unit Price p	oer m	- 5. 75	0.59		
	INDIRECT COST							1. A.	15%	0.86	0.09		
	TOTAL			× • •						7	0.68		

¥ 4	TINTON	DODD	DEVELOPMENT	DDATECT
6 A	I N I CINI	171 IK	DRAFTERWEINT	PRUTEL
. L.C.	OUTON	LOULT	DUDING TO DUT INTO LA R	1100000

41011603

437

FC: YEN LC: US\$

Total estimate for 100m

	Installation of Cabling	3C x 38r	mm2(480V)	1.5 1			LC: US\$		1	fotal estimat	e for 100m
No	Work Item	1	Quantity			Bas	sic Price			Uni	t Cost
				Mater	ial	Li Li	abor	Equip	ment	An	nount
				FC	LC	FC ·	LC	FC	LC	FC	LC
1	Material		T						-		
	Cable 3C x 38m2	m	100	0	5.40					0	540
	Above others5%	L.S	5	· · · o	5.40					0	27
		m3	0.08	0	90.00					0	7
н и Н 1	Fuel Truck 4t with crane	day	0.1	0	69		· *			0	7
	Sub Total	· ·								. 0	581
2	Labor										
	Electrician	man. day	0.1	1		0	31.09			0	. 3
	Labor	man. day	0.4			0	14.30			0	6
	Truck 4t with crane	man.day			· · · · ·	0	33			0	. 3
	Sub Total									0	12
3	Equipment										
	Truck 4t with crane	day	0.1					3, 360	0	336	
	Sub Total					· .				336	1
	1	<b>. I.</b>		L				Total		336	593
			· .					Unit Price	per m	3.36	5.93
	INDIRECT COST					-			15%	0, 50	0.89
	TOTAL									4	6.82

· 4I011604

### Backfill sand & Compaction for Cabling 3C x 38mm2(480V)

FC: YEN LC: US\$

### Total estimate for 100 m

No Work Item	Unit	Quantity			Ba	sic Price			Uni	t Cost
			Mate	rial	· L	abor	Equip	ment	An	ount
			FC	LC	FC	LC	FC	LC	FC	LC
l Material					:				-	
Backfill material	m3	65	0	0,00				1	÷ 0	0
Wasted Backfill sand (25%)	m3 .	16. 25	. 0	- 0, 00				-	· 0	0
Fuel Backhoe 0.8m3	day	0.05	0	95					0	· 5
"Plate compactor	day	0.1	0	4					0	. 0
Sub Total									0	5
2 Labor										
Foreman	man. day	0.1			0	38. 20			0	4
Labor	man. day	0.4			• 0	14.30			. 1 0	6
Backhoe 0.8m3	man. day	··· 0. 05			0	33			_ 0	• 2
Sub Total									0	. 11
3 Equipment	1									
Backhoe 0.8m3	day	0. 05					11, 280	1 O	564	0
Plate compactor	day	0.1					212. 40	.0	21	0
Sub Total									585	0
							Total		585	16
			· .				Unit Price p	ber m	5.85	0.16
INDIRECT COST						· . · ·		15%	0. 88	0. 02
TOTAL									7.1	0.19

LA UNION PORT DEVELOPMENT PROJECT

4I0116

439

Truck 4t with crane per day

FC: YEN LC: US\$

	Truck 4t with crane pe	r day					LC+ US¢				
No	Work Item		Quantity			Ba	sic Price			Uni	t Cost
				Mate	rial	L	abor	Equip	nent	Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material						· · · ·				
1.	Fuel & Lubricant	lr.	209.00	0	0.33					0	69
	Others	L. S.	. 1	. 0	0.00					0	0
.*	Sub Total		·			· .				0	69
_ 2	Labor										33
	Operator	man. day	1			0	33.00		•	0	
	Others	L. S.	1			0	0.00			0	0
	Sub Total									0 <sup>1</sup>	33
. 3	Equipment										
	Truck 4t with crane	day	1 1					3360	0	3, 360	l
	Sub Total									3, 360	(
	Total					- -				3, 360	102
		1			•			1		· ·	

Fuel & Lubricant: 180ps x 0.11 x 4 x 1.05

100ps x 0.2 x 6 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

4I0117

440

Dump truck 10t per day

FC: YEN

LC: US\$

No	Work Item	Unit	Quantity			Ba	sic Price			Unit	Cost
				Mate	rial	L	abor	Equip	ment	Amo	ount
				FC	LC.	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	309. 00	0	0. 33	•				· 0	102
	Others	L. S.	1	O	3.00					0	3
	Sub Total									· 0	105
•											
2	Labor										
	Operator	man. day	1			0	33.00			· 0	33
	Others	L. S.	1			0	0.00		-	0	0
	Sub Total		ta series							<u>)</u> 0	33
3	Equipment				•				•		
а на 1	Dump truck 10t	day	1		· ·		:	6720	· 0	6, 720	0
	Sub Total					1. A.				6, 720	· 0
	Total		1997 - A.							6, 720	138
								an a			

Fuel & Lubricant: 335ps x 0.11 x 8 x 1.05

LA UNION PORT DEVELOPMENT PROJECT 410117

FC: YEN

	Backhoe 0.8 m3 per da	y .	1. J. 1.				LC: US\$	· · · · · · · · · · · · · · · · · · ·			
No	Work Item	1	Quantity			Ba	sic Price			Uni	t Cost
1.0					rial	L	abor	Equip	nent	Ar	nount
				FC	LC	FC	LC	FC	LC	FC	LC
]	Material										
÷	Fuel & Lubricant	lr.	283.00	· 0	0.33					0	93
÷	Others	L. S.	1	0	2.00		· ·			0	2
	Sub Total									. 0	95
			·								
ć	Labor										-
	Operator	man. day	·   · 1			0	33. 00			0	- 33
	Others	L.S.	I			0	0.00			. 0	. 0
	Sub Total									0	33
			ļ		1						
. :	Equipment				· · ·						
	Backhoe 0.8m3	day	1					11280	. 0	11, 280	0
	Sub Total									11, 280	0
					· ·						
	Total									11, 280	128
		1	ļ	1 .						}	-

410117-3

Fuel & Lubricant: 169ps x 0.2 x 8 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

410117

FC: YEN

Plate Compactor 60-100kg per day

LC:	US\$

	Plate Compactor 60-100kg	per	day				LC: 000				
No	Work Item	Unit	Quantity			Ba	sic Price		· .	Uni	t Cost
				Mate	rial	··· L	abor	Equip	ment	A	nount
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	5.00	·. 0	0.33					0	2
	Others	L. S.	1	´ 0	2.00				1. 1.	0	2
	Sub Total	1.				1. 1.				- 0	4
2	Labor	Ì						l and the			
	Operator	man. day	1			· 0	33.00			0	33
	Others	L. S.	1			0	0.00			0	0
	Sub Total					.: .				. 0	33
	4										
- 3	Equipment						1				
	Plate Compactor	day	·* · 1					212.4	0	212.40	0
	Sub Total					· · .			-	212.40	0
	Total						· · · ·			212	37
ı.								2	· · · ·		

Fuel & Lubricant: 5ps x 0.2 x 5 x 1.05

410117-4

A UNION PORT DEVELOPMENT PROJE		UNION	PORT	DEVELOPMENT	PROJECT
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# 410117

I

#### FC: YEN

CABLING 3C x 60mm2(480V)

LC: US\$ Total estimate for 100m

No	Work Item	Unit	Quantity	Basic	Price	Unit	Cost
						Amo	unt
				FC	LC	FC	LC
 41011701	Excavation & Disposal	М	100	6.49	0.13	649	12. 87
41011702		М	100	6.61	1.00	661	99.56
41011703	Installation Cable 100mm2	M	100	3.86	12.60	386	1, 260. 08
41011704	Backfill & Compaction	М	100	6.73	0.19	673	18, 77
	Total					2, 369	1, 391. 29
 				Unit Price p	per m	24	13.91

4I011701

# FC: YEN

Excavation & Disposal for Cabling 3C x 60mm2 (480V)

LC: US\$

Total estimate for 100m

No	Work Item	Unit	Quantity			Bas	sic Price			Unit	Cost
				Mate	rial	L	abor	Equi	ipment	Amo	ount
				FC	LC	FC	LC	FC	LC	FC	LC
- 1	Material									х.	
	Excavation & Disposal	m3	130	0	0,00		4			0	0
	Fuel Backhoe 0.8m3	day	0.05	: 0	95			:		0	5
	Sub Total									0	5
2	Labor										
	Foreman	man. day	0.05			0	38.20			0	. 2
	Labor	man. day	0. 2			0	14.30			0	3
	Backhoe 0.8m3	man. day	0, 05			0	- 33			. 0	2
	Sub Total						an a			0	6
3	Equipment				·	-					
	Backhoe 0.8m3	day	0. 05			- * . 		11, 280	· . 0	564	0
	Sub Total	· ]						-		564	0
	· · · · · · · · · · · · · · · · · · ·		••			·		Total		564	11
•						·		Unit Pric	e per m	5.64	0.11
	INDIRECT COST		·	·			·		15%	0.85	0.02
	TOTAL						· .			6	0.13

	LA	UNION	PORT	DEVELOPMENT	PROJECT
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41011702

Sand for Foundation of Cabling 3C x 60mm2(480V)

FC: YEN LC: US\$

Total estimate for 100 m

No	Work Item		Quantity			Basi	c Price			Unit (	Cost
				·	erial	La	bor	Equip	nent	Amou	nt
				FC	. LC	FC	LC	FC	LC -	FC	LC
1	Material										
	Sand	mЗ	13.00	· 0	5.16					0	67
•	Wasted sand (5%)	m3	0.65	O	5. 16					0	3
	Fuel Backhoe 0.8m3	day	0. 05	. 0	95					0	5
	" Plate compactor 50k	day	0.1	<u>;</u> 0	4					0	0
	Sub Total									0	75
2	Labor						·			ĺ	
	Foreman	man. day	0.1			. 0	38.20			0	4
	Labor	man. day	0.4			0	14.30			0	6
	Backhoe 0.8m3	man. day	0.05			0	33			0	2
	Sub Total	ł								0	11
	Equipment						-				
	Backhoe 0.8m3	day	0.05					11, 280	. 0	564	0
	Plate compactor 50kg	day	- 0,05					212.40	. 0	10.62	0
	Sub Total									574.62	0
	1		· ·····					Total		574.62	87
-								Unit Price p	oer m	5.75	0.87
	INDIRECT COST								15%	0.86	0.13
	TOTAL									7	1.00

41011703

FC: YEN

Installation of Cabling 3C x 60mm2(480V) LC: US\$ Total estimate for 100m

No	Work Item	Unit	Quantity			Bas	sic Price			Uni	t Cost
				Mate	rial	La	abor	Equip	nent	A	nount
•				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
ļ	Cable 3C x 60m2	m	100	0	9.30					0	930
	Above others15%	L. S	15	0	9.30					0	140
	Concrete Pit	m3	0. 08	0	<sup>1</sup> 90.00					. 0	. 7
	Fuel Truck 4t with crane	day	0.1	0	- 69					0	7
	Sub Total									0	1,084
2	Labor						÷ .				
	Electrician	man. day				0	31.09			. 0	3
	Labor	man. day	0.4			0	14.30			0	6
	Truck 4t with crane	man. day	0.1			0	33			0	3
	Sub Total						•	C. C		0	12
3	Equipment										
	Truck 4t with crane	day	0.1					3, 360	0	336	c
·	Sub Total									- 336	·
	· · ·							Total		336	1, 096
			-			· · · · ·		Unit Price p	er m		10.96
	INDIRECT COST								15%	0.50	1.64
	TOTAL		1.4							4	12.60

41011704

## FC: YEN LC: US\$

Backfill sand & Compaction for Cabling 3C x 60mm2(480V)

Total estimate for 100 m

No	Work Item	Unit	Quantity			Ba	sic Price			Unit	Cost
				Mate:	rial	L	abor	Equipm	nent	Аточ	int
				FC	LC	FC	LC	FC	LC	FC	LC
I	Material	1				· .					
	Backfill material	m3	65	0	0.00					0	. 0
	Wasted Backfill sand (25%)	m3	16.25	0	0.00	· · ·				0	0
	Fuel Backhoe 0.8m3	day	0. 05	: 0	95					0	5
	" Plate compactor	day	0.1	0	4					0	0
	Sub Total	}								0	5
2	Labor										
	Foreman	man. day	0.1			0	38.20			0	4
	Labor	man. day	0.4			• 0	14.30			0	6
	Backhoe 0.8m3	man. day	0.05			0	33			· 0	2
	Sub Total									0	11
-3	Equipment										
	Backhoe 0.8m3	day	0.05					11, 280	0	564	0
	Plate compactor	day	0.1					212.40	0	21	0
	Sub Total									585	0
	· · · · · · · · · · · · · · · · · · ·							Total		585	16
								Unit Price p	er m	5, 85	0.16
	INDIRECT COST								15%	0.88	0.02
•	TOTAL									7	0.19

## Appendix-3. Equipment Cost LA UNION PORT DEVELOPMENT PROJECT

410117

Thursda de matela

FC: YEN LO: US\$

	Truck 4t with crane	per day					LC: US\$	· · · · · · · · · · · ·			
No	Work Item	Unit	Quantity			Ba	sic Price			Uni	t Cost
				Mate	rial	Ĺ	abor	Equip	ment	A	nount
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	209.00	0	0.33					0	69
	Others	L. S.	1	0	0. 00					0	0
	Sub Total					· ·				0	69
e Line											
2	Labor										
	Operator	man. day	1			0	33. 00			0.	33 .
	Others	L. S.	1			0	0.00			0	0
	Sub Total		Ì		1					0	33
			· ·								
3	Equipment										
	Truck 4t with crane	day	. 1					3360	0	3, 360	0
	Sub Total						5	- •		3, 360	0
							а — — — — — — — — — — — — — — — — — — —				
	Total									3, 360	102
		1									

Fuel & Lubricant: 180ps x 0.11 x 4 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

410117

449

Dump truck 10t per day

FC: YEN LC: US\$

No	Work Item	Unit	Quantity			Ba	sic Price			Unit	Cost
					rial	L	abor	Equip	nent	Amo	unt
				FC	LC	FC	LC -	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	1r.	309, 00	0	0.33					0	102
	Others	L. S.	1	0	3. 00					0	. 3
	Sub Total									0	105
2	Labor									- <u>-</u>	
	Operator	man. day	. 1			. 0	33.00	· · ·		0	33
	Others	L. S.	1			. 0	0.00		1	. <b>О</b>	. 0
	Sub Total									0	33
3	Equipment										
	Dump truck 10t	day	1					6720	0	6, 720	
	Sub Total									6,720	I
	Total	· ·								6, 720	138

Fuel & Lubricant: 335ps x 0.11 x 8 x 1.05

410117-2

LA UNION PORT DEVELOPMENT PROJECT

410117

Backhoe 0.8 m3 per day

FC: YEN

LC: US\$

No	Work Item	Unit	Quantity			Ba	sic Price			Uni	t Cost
н н.				Mate	rial	· L	abor	Equip	ment	A	mount
				FC	LC	FC	LC	• FC	LC	FC	LC
l Mat	erial										
Fue	l & Lubricant	lr.	283.00	· 0	0.33					- 0	. 93
Oth	iers	L. S.	1	0	2.00					0	2
Sub	Total									0	95
								· .			
2 Lab	or					·	an an taon				
Ope	rator	man day	1			· 0	33.00			0	- 33
Oth	ers	L. S.	1			0	0,00			0.	. 0
Sub	o Total					· · · · ·				0	33
3 Equ	ipment										
		day	1					11280	0	11,280	0
1	Total			· · ·						11, 280	0
					an a				· .		
Tot	al									11, 280	128

Fuel & Lubricant: 169ps x 0.2 x 8 x 1.05

410117-3

LA UNION PORT DEVELOPMENT PROJECT

410117

Plate Compactor 60-100kg per day

FC:	YEN	
rc:	US\$	

Work Item	Unit	A								
	OILLU	Quantity			Bas	ic Price			Uni	t Cost
			Mate	rial	L	abor	Equip	nent	An	ount
			FC	LC	FC	LC	FC	LC	FC	LC
laterial	· .									
uel & Lubricant	lr.	5, 00	0	0.33					0	2
thers	L. S.	· 1	. 0	2.00					0	2
									0	4
abor										
	man.day	1			0	33.00			0	33
		1		а. А. (	0	0.00			· 0	0
									·, 0	33
Guipment										
	dav	- 1					212.4	. 0	212. 40	. C
	,					. *			212.40	Ċ
[^+a]									212	37
10 697										
	uel & Lubricant thers ub Total abor perator thers ub Total quipment	uel & Lubricant Ir. thers L. S. ub Total abor perator man. day thers L. S. ub Total quipment late Compactor day ub Total	uel & Lubricant lr. 5.00 thers L.S. 1 ub Total abor perator man.day 1 thers L.S. 1 ub Total quipment late Compactor day 1 ub Total	aterial     Ir.     5.00     0       uel & Lubricant     Ir.     5.00     0       thers     L.S.     1     0       ub Total     man. day     1       abor     man. day     1       perator     man. day     1       thers     L.S.     1       ub Total     day     1       ub Total     day     1	aterial uel & Lubricant Ir. 5.00 0 0.33 thers L.S. 1 0 2.00 ub Total abor perator man. day 1 thers L.S. 1 ub Total quipment late Compactor day 1 ub Total	Aterial uel & LubricantIr.5.0000.33thers ub TotalL.S.102.00abor perator thersman. day10thers ub TotalL.S.10quipment late Compactor ub Totalday10	Aterial uel & LubricantIr.5.0000.33LCthers ub TotalL. S.102.000abor peratorman. day1033.00thers ub TotalL. S.100quipment late Compactorday100	aterial         FC         LC         FC         LC         FC           aterial         uel & Lubricant         1r.         5.00         0         0.33	Image: state of the s	Image: Active aterial         FC         LC         FC         LC </td

410117-4

Fuel & Lubricant: 5ps x 0.2 x 5 x 1.05

4I0118 and 4I0119

#### FC: YEN

CABLING 3C x 22mm2(480V)

LC: US\$ Total estimate for 100m

No	Work Item	Unit	Quantity	- Basic	Price	Unit	Cost
						Amo	unt -
				FC FC	LC	FC .	LC
4I011801 and 4I011901	Excavation & Disposal	M	100	6.49	0,13	. 649	12. 87
4I011802 and 4I011902	Sand	М	. 100	6.61	0.68	661	68.41
41011803 and 41011903	Installation Cable 100mm2	м	100	3.86	4.80	386	479.81
4I011804 and 4I011904	Backfill & Compaction	. М	100	6.73	0.19	673	. 18.77
	Total					2, 369	579.86
••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • •	· •		Unit Price	per m	24	5.80

4I011801 and 4I011901

FC: YEN

LC: US\$

Excavation & Disposal for Cabling 3C x 22mm2 (480V)

Total estimate for 100m

No.	Work Item	· · · · · · · · · · · · · · · · · · ·	Quantity	· · ·		Bas	ic Price			Unit	Cost
				Mate	rial	La	abor	Equi	pment	Amo	unt
				FC	LC	FC	LC	FC	LC	FC	LC
	Material Excavation & Disposal	m3	130	0	0.00					0	0
۰.	Fuel Backhoe 0.8m3	day	0, 05	. 0	95					0	. 5
•	Sub Total									0	5
2	Labor										
÷.,	Foreman	man, day	0.05			0	38, 20			. 0	2
	Labor	man. day	0.2			0	14.30			0	3
	Backhoe 0.8m3	man. day	0.05			. 0	33			. 0	2
	Sub Total		:				1. S. S.			0	6
. 3	Equipment							· ·			
	Backhoe 0.8m3	day	0.05					-11, 280	0	564	· 0
•	Sub Total							· ·		564	0
								Total		564	11
				·	<u>.</u>			Unit Pric		5.64	0.11
	INDIRECT COST							••	15%	0.85	0.02
	TOTAL									6	0.13

4I011802 and 4I011902

FC: YEN

Sand for Foundation of Cabling 3C x 22mm2(480V)

LC: US\$

Total estimate for 100 m

No	Work Item	Unit	Quantity			Bas	ic Price			Unit	Cost
				Mat	erial	• L	abor	Equip	ment	Amo	ount
				FC	LC	FC	e LC e	FC	LC	FC	- LC
1	Material										
	Sand	m3 · · · ·	8.00	0	5.16					0	41
	Wasted sand (5%)	m3	0.40	0	5.16					. 0	2
	Fuel Backhoe 0.8m3	day	<sup>°</sup> 0. 05	0	95					. · · 0	5
	" Plate compactor 50kg	day	0.1	· 0	4					0	0
	Sub Total								а. Т	0	48
· 2	Labor		н н. 1919 - Ал								
	Foreman	man. day	0.1			. 0	38.20			0	4
	Labor	man. day	0.4			0	14.30			0	6
	Backhoe 0.8m3	man. day	0.05		· .	0	33			0	2
	Sub Total					· · .			· · · ·	0	11
3	Equipment	•									
	Backhoe 0.8m3	day	0.05		н Н			11, 280	0	564	
s.,	Plate compactor 50kg	day	0.05	·	1			212. 40	. 0	10.62	o
	Sub Total									574.62	0
				•				Total		574.62	59
		· ·	· · · · ·	· · · ·				Unit Price p	er m	- 5. 75	0. 59
	INDIRECT COST						·		15%	0.86	0.09
• •	TOTAL							·		- 7	0.68

	TV ONTON LOUI DEVELOTINED	I I KOJD	<b>•</b> ••								•
	4I011803 and 4I011903					I	FC: YEN				
	Installation of Cabling	3C x 22	mm2(480V)				LC: US\$		· · ·	Total estimat	e for 100m
No	Work Item		Quantity			Bas	ic Price			Unit	t Cost
					erial	La	abor	Equips	nent	Am	ount
				FC	LC	FC	LC	FC	LC	FC	LC
· 1	Material										
	Cable 3C x 22m2	m	100	0	3.40				· · ·	0	340
	Above others15%	L.S	15	0	3.40					0	. 51
	Concrete Pit	m3	0.08	, c	90.00					0	7
	Fuel Truck 4t with crane	day	0.1	С	69					0	7
	Sub Total									0	405
2	Labor										
	Electrician	man. day	0.1			0	31.09			0	3
	Labor	man. day	0.4			0	14.30			· 0	6
	Truck 4t with crane	man. day	0.1			0	- 33			. 0	3
	Sub Total									0	12
3	Equipment										
	Truck 4t with crane	day	0.1					3, 360	0	336	0
	Sub Total						· · · ·		<u> </u>	- 336	0
	_ <b>1</b>							Total	1	336	417
								Unit Price p	)er m	3.36	4.17

0.63

4.80

15%

0.50

4

455

LA UNION PORT DEVELOPMENT PROJECT

INDIRECT COST

TOTAL

4I011804 and 4I011904

456

#### Backfill sand & Compaction for Cabling 3C x 22mm2(480V)

FC: YEN LC: US\$

Total estimate for 100 m

No Work Item	Unit	Quantity			Ba	sic Price			Uni	t Cost
			Mate	rial	Labor		Equipment		Ап	ount
			FC	LC	FC	LC	FC	LC	FC	LC
l Material										
Backfill material	m3	- 65	0	0.00					0	0
Wasted Backfill sand (25%)	m3 .	16. 25	• 0	0.00				н. -	0	0
Fuel Backhoe 0.8m3	day	0.05	. 0	95					0	5
" Plate compactor	day	0, 1	. 0	4					0	0
Sub Total									0	5
2 Labor										
Foreman	man. day	0.1			. 0	38.20			0	4
Labor	man. day	0.4			0	14.30			0	6
Backhoe 0.8m3	man. day	0. 05			0	33			0	. 2
Sub Total									· 0	11
3 Equipment										
Backhoe 0.8m3	day	0. 05					11, 280	. 0	564	0
Plate compactor	day	0.1				· •	212. 40	0	. 21	. 0
Sub Total									585	1 I I I I I I I I I I I I I I I I I I I
		• • • • • •					Total		585	16
				en e			Unit Price p	er m	5.85	0.16
INDIRECT COST					· · · ·	·	· .	15%	0.88	0.02
TOTAL						1			7	0.19

Appendix-3.		Equipment	Cost	
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4I0118 and 4I0119

FC: YEN

	HOILO GUG HOILO										
. •	Truck 4t with crane pe	r day					LC: US\$	1	. <u></u>	· · · · · · · · · · · · · · · · · · ·	
No	Work Item	Unit	Quantity			Ba	sic Price			Uni	t Cost
				Mate	rial	· L	abor	Equip	nent	An	ount
	и. И сталование сталование сталование сталование сталование сталование сталование сталование сталование сталование И сталование			FC	LC	FC	LC	FC	LC	FC	LC :
1	Material								•		
	Fuel & Lubricant	lr.	. 209.00	. 0	0.33		1. A.			· 0	69
	Others	L. S.	. 1	· 0	0.00					0	0
	Sub Total									· 0	69
. 2.	Labor										
	Operator	man. day	1			. 0	33.00		·	.0	33
	Others	L. S	1			· · · 0	0.00			0	0
	Sub Total	14							*	0	33
3	Equipment										
	Truck 4t with crane	day	1					3360	j: C	3, 360	0
	Sub Total									3, 360	0
	Total									3, 360	102
				1							

410118-1 410119-1

Fuel & Lubricant: 180ps x 0.11 x 4 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

4I0118 and 4I0119

Dump truck 10t per day

FC: YEN

LC: US\$

	Damp track for per da		·····								
No	Work Item	Unit	Quantity			Bas	sic Price			• Unit	Cost
	·			Mate	rial	L	abor	Equip	ment	Amo	ount
				FC	LC ·	FC	LC ·	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	309.00	0	0.33					· 0	. 102
	Others	L. S.	1	0	3.00			н 		0	3
	Sub Total					1 A.				0	105
							· · ·				
2	Labor									· · ·	
	Operator	man. day	. · 1			0	33.00			0	33
	Others	L. S.	1			0	0.00			0	0
	Sub Total									0	33
3	Equipment					-					
	Dump truck 10t	day	1					6720	0	6, 720	. (
	Sub Total									6, 720	(
	Total	· ·					•			6, 720	138
·		· ·			· · ·						- -

Fuel & Lubricant: 335ps x 0.11 x 8 x 1.05

410118-2 410119-2

LA UNION PORT DEVELOPMENT PROJECT

4I0118 and 4I0119

Backhoe 0.8 m3 per day

FC: YEN LC: US\$

uay					<u>00: 000</u>				
Unit	Quantity			Ba	sic Price			Uni	t Cost
		Mate	rial	L	Labor		Equipment		ount
		FC	LC	FC	LC I	FC	LC	FC	LC
1r.	283.00	0	0.33					0	93
L. S.	1	0	2. 00					0	2
								0	95
							•		
man. day	, 1			0	33. 00			0	3
L. S.	1			0	0,00			0	I
								0	3
day	1					11280	0	11, 280	
				· .				11, 280	
							- -		
								11, 280	12
	lr. L.S. man.day	Unit Quantity 1r. 283.00 L.S. 1 man.day 1 L.S. 1	Unit Quantity Mate FC 1r. 283.00 0 L.S. 1 0 man.day 1 L.S. 1	Unit         Quantity         Material           FC         LC           1r.         283.00         0         0.33           L.S.         1         0         2.00           man. day         1         1         1           L.S.         1         0         2.00	Unit         Quantity         Base           Material         L.           Ir.         283.00         0         0.33           L.S.         1         0         2.00           man. day         1         0         0           L.S.         1         0         2.00	Unit         Quantity         Basic Price           Material         Labor           FC         LC         FC         LC           1r.         283.00         0         0.33         1           L.S.         1         0         2.00         1           man. day         1         0         33.00         0           L.S.         1         0         0         33.00           L.S.         1         0         0         0	$\begin{tabular}{ c c c c c c c } \hline Unit & Quantity & Material & Labor & Equipting \\ \hline Material & Labor & Equipting \\ \hline FC & LC & FC & LC & FC \\ \hline Ir. & 283.00 & 0 & 0.33 & & & & \\ Ir. & 283.00 & 0 & 0.33 & & & & \\ Ir. & 283.00 & 0 & 0 & 0.33 & & & & \\ Ir. & 283.00 & 0 & 0 & 0.33 & & & & \\ Ir. & 283.00 & 0 & 0 & 0.33 & & & & \\ Ir. & 283.00 & 0 & 0 & 0.33 & & & & \\ Ir. & 283.00 & 0 & 0 & 0.33 & & & & \\ Ir. & 283.00 & 0 & 0 & 0 & 0.33 & & & & \\ Ir. & 283.00 & 0 & 0 & 0 & 0.33 & & & & \\ Ir. & 283.00 & 0 & 0 & 0 & 0 & 0.33 & & & & \\ Ir. & 283.00 & 0 & 0 & 0 & 0 & 0 & 0.33 & & & \\ Ir. & 283.00 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \\ Ir. & 283.00 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \\ Ir. & 283.00 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \\ Ir. & 283.00 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \\ Ir. & 283.00 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $	UnitQuantityBasic PriceMaterialLaborEquipmentFCLCFCLCIr.283.0000.33L.S.102.00man. day1033.00L.S.100	$ \begin{array}{ c c c c c c c c c c } \hline Uni & Uni & Uni \\ \hline & Material & Labor & Equipment & An \\ \hline & FC & LC & FC & LC & FC & LC & FC \\ \hline Ir. & 283.00 & 0 & 0.33 & & & & & & & & & & & & & & & & & & $

Fuel & Lubricant: 169ps x 0.2 x 8 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

4I0118 and 4I0119

FC: YEN

Plate Compactor 60-100kg per day

LC: US\$

No	Work Item	Quantity				Ba		Unit Cost				
				M	ater	ial	L	abor	Equip	ment	A	mount
				FC		LC	FC	LC	FC FC	LC	FC	LC
1	Material											
	Fuel & Lubricant	lr.	5.00		0	0. 33					. 0	2
	Others	L. S.	· 1		0	2.00		· .			0	2
	Sub Total										. 0	4
2	Labor					н 						
	Operator	man, day	1				0	33.00			0	33
	Others	L. S.	1				0	0.00	1		0	. 0
	Sub Total										0	33
3	Equipment											
	Plate Compactor	day	· · 1						212. 4	0	212.40	
	Sub Total						·				212.40	
	Total							· · ·			212	37

Fuel & Lubricant: 5ps x 0.2 x 5 x 1.05

460

410118-4 410119-4

## 4I0121 and 4I0122

# FC: YEN

CABLING 3C x 100mm2(480V)

LC: US\$ Total estimate for 100m

No Work Item	Unit	Quantity	Basic	Price	Unit	Cost
					Amou	int
			FC	LC	FC	LC
4I012101 and 4I012201 Excavation & Disposal	M	100	6.49	0.13	649	12.87
41012102 and 41012202 Sand	M	100	6.61	0.68	661	68.41
4I012103 and 4I012203 Installation Cable 100mm2	М	100	3.86	15.93	386	1, 593. 41
4I012104 and 4I012204 Backfill & Compaction	м	100	6.73	0.19	673	18.77
Total					2, 369	1, 693. 46
			Unit Price p	ber n	- 24	16.93

.

#### 4I012101 and 4I012201

462

Excavation & Disposal for Cabling 3C x 100mm2 (480V)

FC: YEN LC: US\$

Total estimate for 100m

No	Work Item	Unit	Quantity			Bas	ic Price			Unit	Cost
				Mate	rial	L	abor	Equ	ipment	Amo	ount
				FC	LC	FC	LC	FC	LC	FC -	LC ·
1	Material										
	Excavation & Disposal	m3	130	0	0. 00					0	0
	Fuel Backhoe 0.8m3	day	0.05	0	95	·	i .			0	5
	Sub Total									0	5
2	Labor										
	Foreman	man. day	0. 05	:		o	38.20			0	2
	Labor	man, day	0.2			. 0	14.30			. 0	. 3
	Backhoe 0.8m3	man. day	0. 05			· 0.	33			0	· 2
, i	Sub Total							· .		. 0	6
3	Equipment						and the second				
· .	Backhoe 0.8m3	day	0.05					11, 280	· 0.	564	0
	Sub Total	1 .3			1.4					564	0
	• · · · · · · · · · · · · · · · · · · ·				·			Total		564	11
					· · · · · ·			Unit Pric	e per m	5.64	• • • 0.11
	INDIRECT COST								15%	0.85	0.02
	TOTAL		· · · ·							6	0.13

4I012102 and 4I012202

FC: YEN

	Sand for Foundation of	Cabling	3C x 100	)mm2 (480V)			LC: US\$		1	otal estimate	e for 100 m.
No	Work Item		Quantity			Bas:	ic Price			Unit	Cost
					terial	L	abor	Equip	ment	Аточ	int
				FC ·	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Sand	m3	8.00	(	5.16					0	41
·	Wasted sand (5%)	m3	0.40	. (	5. 16	· · ·				0	- 2
. 1		day	0.05		95					0	5
	" Plate compactor 50kg	day	0.1		4				· .	0	0
	Sub Total									. 0	48
2	Labor						· ·				
	Foreman	man. day	0.1			· 0	38, 20			0	4
	Labor	man. day	0.4			0	14.30			0	6
	Backhoe 0.8m3	man. day	0.05		1	0	33	}		0	2
	Sub Total									o	11
3	Equipment	1	·								
-	Backhoe 0.8m3	day	0.05					11, 280	. 0	564	•
	Plate compactor 50kg	day	0.05					212.40	0	10.62	
	Sub Total		· · ·							574.62	
			1	t <u></u>			<u></u>	Total		574.62	59
								Unit Price	per m	5. 75	0.59
	INDIRECT COST		<u></u>	<u>. au</u>	<u></u>				15%	0.86	0.09
	TOTAL	· · · · · ·								7	0.68

4I012103 and 4I012203

Installation of Cabling 3C x 100mm2(480V)

FC: YEN LC: US\$

#### Total estimate for 100m

No	Work Item	Unit	Quantity	y Basic Price					Uni	t Cost		
т. 1				Mate	rial	I	abor		Equip	ment	A	mount
				FC	LC	FC		LC	FC	LC	FC	LC
1	Material											
	Cable 3C x 100m2	m	100	0	13.00						0	1, 300
	Above others 5%	L. S	5	0	12.05					1.	. 0	60
	Concrete Pit	m3	0. 07	0	90.00						0	6
	Fuel Truck 4t with crane	day	- 0, 1	o	69						. 0	7
	Sub Total										0	1, 373
2	Labor								1			
	Electrician	man. day	0, 1			0		31.09			· 0	3
	Labor	man. day	0.4	1.		0		14. 30			0	6
	Truck 4t with crane	man. day	0.1			0		33			0	. 3
1	Sub Total										0	12
3	Equipment	· · ·										
	Truck 4t with crane	day	0.1				· ·		3, 360	0	336	0
	Sub Total		ŀ				<u> </u>				- 336	0
						1.			Total		336	1, 386
	· · · · · · · · · · · · · · · · · · ·							÷.	Unit Price p	oer m	3. 36	13.86
	INDIRECT COST									15%	0.50	2.08
	TOTAL								1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		4	15.93

# 4I012104 and 4I012204

**4**65

#### FC: YEN

Backfill sand & Compaction for Cabling 3C x 100mm2(480V)

LC: US\$

Total estimate for 100 m

No Work Item	Unit	Quantity						Unit	Cost	
				erial	L	abor	Equip	ment	Атс	ount
			FC	LC	FC	LC	FC	LC -	FC ·	LC
IMaterial										
Backfill material	m3 '	65	. 0	0.00					· 0	O
Wasted Backfill sand (25%)	m3	16.25	0	0.00					0	0
Fuel Backhoe 0.8m3	day	0.05	0	95					0	5
" Plate compactor	day	0.1	0	4					. 0	0
Sub Total									0	5
2 Labor				-						
Foreman	man. da	y 0,1			· . 0	38.2	D ·		0	4
Labor	man. daj	y 0.4			.0	14. 30	D I		0	6
Backhoe 0.8m3	man. daj	y 0.05			. 0	33			. 0	2
Sub Total	· .					2000 - 2000 2000 - 2000			0	11
3 Equipment						e.				
Backhoe 0.8m3	day	0.05					11, 280	0	564	0
Plate compactor	day	0.1					212. 40	· 0	21	0
Sub Total				· ·	5 - S.				585	0
<u> </u>	. <u> </u>		L	<u>.</u>		- <b>h</b> um	Total		585	16
	•						Unit Price	perm	5, 85	0.16
INDIRECT COST								- 15%	0.88	0.02
TOTAL							· · · · · · · · · · · · · · · · · · ·		7	0.19

LA UNION PORT DEVELOPMENT PROJECT

4I0121 and 4I0122

FC: YEN

Truck 4t with crane per day

LC: US\$

No	Work Item	Unit	Quantity			Ba	sic Price			Uni	t Cost
				Mate	rial	I	abor	Equip	ment	A	mount
				FC	LC	FC	LC ·	FC	LC	FC	LC
, <b>1</b>	Material										
	Fuel & Lubricant	lr.	209.00	0	0.33					0	69
	Others	L. S.	1	. 0	0.00					0	0
	Sub Total				* 4				-	· 0	- 69
										· ·	
2	Labor										
	Operator	man.day	1			· 0	33.00			0	33
	Others	L. S.	1			0	0,00			0	0
	Sub Total									. 0	33
								<u>'</u> .			
3	Equipment	2 - 2 - 2							di selati se Selati selati		
	Truck 4t with crane	day	1					3360	0	3, 360	0
	Sub Total								- 	3, 360	0
						a Al-Al-Al-Al-Al-Al-Al-Al-Al-Al-Al-Al-Al-A					
	Total	· .								3, 360	102
				$\sum_{i=1}^{n} \frac{1}{i} \sum_{i=1}^{n} \frac{1}{i} \sum_{i$					1 1 N		

Fuel & Lubricant: 180ps x 0.11 x 4 x 1.05

466

100ps x 0.2 x 6 x 1.05

410121-1 410122-1

LA UNION PORT DEVELOPMENT PROJECT

4I0121 and 4I0122

Dump truck 10t per day

FC: YEN LC: US\$

	Dump truck lot per da	у					<u>D0: 000</u>				I
No	Work Item	Unit	Quantity			Bas	sic Price	1 :		Unit	Cost
			1. 1	Mate	rial	L	abor	Equip	ment	Amo	unt
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	309, 00	0	0. 33					0	102
	Others	L. S.	1	0	: . 3,00					- 0	3
	Sub Total									0	105
							ч. 1				
2	Labor	1									
	Operator	man. day	1			0	33.00			0	33
	Others	L. S.	1			0	0.00			0	0
· .	Sub Total									0	33
						· · · ·					
3	Equipment										
•	Dump truck 10t	day	1					6720	· . 0	6, 720	0
	Sub Total			- 94 						6, 720	ု၀
	Total									6, 720	138
	10ta1										
	1	1	1	ł	1				L		

Fuel & Lubricant: 335ps x 0.11 x 8 x 1.05

410121-2 410122-2

LA UNION PORT DEVELOPMENT PROJECT

4I0121 and 4I0122

Backhoe 0.8 m3 per day

FC: YEN

LC: US\$

No	Work Item	Unit	Quantity			Ba	sic Price			Uni	t Cost
				Mate	rial	· L	abor	Equip	ment	A	nount
	•			FC	LC	FC	LC	FC	LC	FC	LC
. 1	Material										
	Fuel & Lubricant	lr.	283.00	0	0.33	. <u>.</u>				0	93
	Others	L. S.	1	- 0	2. 00					. 0	2
	Sub Total									0	95
2	Labor										
	Operator	man. day	1			0	33.00			0	33
	Others	L. S.	Ī			. 0	0.00		-	0	0
	Sub Total									. 0	33
							4 · · ·				
3	Equipment										
	Backhoe 0.8m3	day	I					11280	0	11, 280	o
	Sub Total								;	11, 280	c
	Total									11, 280	128

Fuel & Lubricant: 169ps x 0.2 x 8 x 1.05

410121-3 410122-3

LA UNION PORT DEVELOPMENT PROJECT

410121 and 410122

469

FC: YEN

	410121 4110 410122										
	Plate Compactor 60-100kg	per	day				LC: US\$				
No	Work Item	Unit	Quantity			Bas	sic Price			Uni	t Cost
				Mate	erial	L	abor	Equip	ment	Ar	nount
				FC	LC	FC	LC	FC	LC	FC	LC
. 1	Material										
	Fuel & Lubricant	lr. '	5,00	- 0	0.33					0	2
	Others	L. S.	1	0	2.00		· .			- 0	2
	Sub Total									0	. 4
		н. 									
2	Labor										
	Operator	man. day	, 1		ļ	. 0	33. 00			. 0	33
	Others	L. S.	1			0	0.00			0	0
	Sub Total									0	33
(	Equipment										
	Plate Compactor	day .	1					212.4	. <sup>:</sup> 0	212.40	(
	Sub Total			<i>x</i>						212. 40	
	Total						]			212	37
		1									

Fuel & Lubricant: 5ps x 0.2 x 5 x 1.05

4J0101

#### FC: YEN

Installation of Flood Light Mast 36M for 6X1000W

LC: US\$

Total estimate for I Nos.

No	Work Item	Unit	Quantity			Ba	sic Price			Uni	t Cost
				Mate	rial	·L	abor	Equip	oment	A	mount
		· ·		FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Flood light mast 36m	nos.	1	0	8, 500. 00					0	8,500
	Above others 11,16%	L.S	0.1116	. 0	8, 500. 00					0	949
	Fuel Truck 8t with crane	day	1	0	83					0	83
	" Truck crane 45t	day	1	0	108					0	108
	Sub Total									0	9, 639
2	Labor										
	Electrician	man.day	. 2			. 0	<sup>.</sup> 38.20	· .		0.	76
	Forman	man.day	2			0	31.09	· .		0	62
	Labor	man. day	13			0	14.30			0	186
	Truck 4t with crane	man. day	1			0	. 33			· 0	. 33
	Truck crane 45t	man. day	1			0	33	ан (т. 1997) 1997 - Полон (т. 1997) 1997 - Полон (т. 1997)		0	33
	Sub Total									0	390
3	Equipment		·			4 4					
. •	Truck St with crane	day	1					5, 520	· · · 0,	5, 520	· 0
	Truck crane 45t	day	1	÷.,		. ·		22, 320	1. <sup>1</sup> . 0	22, 320	0
	Sub Total				an thair a					27, 840	<sup>-</sup> 0
		a tu u		· · ·				Total		27, 840	10, 029
							•	Unit Price	per no.	27, 840.00	10, 029. 49
	INDIRECT COST							·	15%	4, 176.00	1, 504. 42
	TOTAL									32, 016	11, 533. 91

LA UNION PORT DEVELOPMENT PROJECT

4J0101

FC: YEN

	430101					÷	LC: US\$	÷			
	Truck St with crane pe	T		<u></u>				<u> </u>		Í Imá	+ Cast
No	Work Item	Unit	Quantity		·		sic Price				t Cost
				Mate:	rial 👘	L	abor	Equip			nount
				FC	LC	FC	LC -	FC	LC	FC	LC
- 1	Material										
	Fuel & Lubricant	lr.	250.00	0	0.33					0	83
	Others	L. S.	1	0	0.00					0	0
	Sub Total									0	83
2	Labor										
	Operator	man. day	1			0	33.00			0	33
	Others	L. S.	. 1			0	0.00			0	0
	Sub Total									0	33
2	Equipment		н. 								
-	Truck 8t with crane	day	1					5520	c o	5, 520	0
	Sub Total				ĺ					5,520	0
	Total									5, 520	116
	10004	1						1			

4J0101-1

Fuel & Lubricant: 269ps x 0.11 x 4 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

4J0101

472

FC: YEN

Truck crane 45t per day

LC: US\$

Huck chance for per de						<u></u>				
Work Item	Unit	Quantity			Ba	sic Price	and a second second		Uni	t Cost
н Настания Настания			Mate	rial	L	abor	Equipment		Ar	nount
			FC ···	LC	FC	LC	FC LC	)	FC	LC
Material										
Fuel & Lubricant	lr.	327.00	. 0	0. 33					· 0	108
Others	L. S.	1	0	0,00					0	· 0
Sub Total									0	108
Labor				·						
	man. day	1			0	33.00			0	33
Others	L.S.	· · 1			0	0.00			0	Ċ
Sub Total									, o	33
Equipment										
	day	1					22320	0	22, 320	• • •
Total	• • •			1967) 1		n an		· . ·	22, 320	141
									,	
	Work Item Material Fuel & Lubricant Others Sub Total Labor Operator Others Sub Total Equipment	Work ItemUnitMaterialFuel & LubricantOthersSub TotalLaborOperatorOperatorOthersSub TotalEquipmentTruck crane 45tSub Total	Work ItemUnitQuantityMaterialIr.327.00Fuel & LubricantIr.327.00OthersL.S.1Sub TotalInterstand1LaborInterstandInterstandOperatorInterstandInterstandOthersL.S.1Sub TotalInterstandEquipmentInterstandTruck crane 45tIntertandSub TotalIntertand	Work ItemUnitQuantityMaterialFCMaterialIr.Fuel & LubricantIr.SubrotalIr.Sub TotalIr.LaborIman. dayOperatorIman. dayOthersL. S.Sub TotalEquipmentTruck crane 45tSub Total	Work ItemUnitQuantityMaterialFCLCMaterialFCLCMaterialIr.327.0000.33OthersL.S.100.00Sub Totalman. day100.00Laborman. day100.00Operatorman. day100.00Sub TotalL.S.100.00EquipmentL.S.100.00Sub TotalAngle Angle Ang	Work ItemUnitQuantityBarMaterialLFCLCMaterialFCMaterialIr.Fuel & LubricantIr.OthersL.S.Sub TotalIntervalueLaborIntervalueOperatorIntervalueOthersL.S.Sub TotalIntervalueEquipmentIntervalueTruck crane 45tIntervalueSub TotalIntervalue	Work ItemUnitQuantityBasic PriceMaterialLaborMaterialLaborFCLCFCMaterialIr.Fuel & LubricantIr.Sub TotalI.S.Labor0Operatorman. dayOthersL.S.Sub TotalI.S.EquipmentInterfaceTruck crane 45tdaySub Total	Work ItemUnitQuantityBasic PriceMaterialLaborEquipmentFCLCFCLCMaterialIr.327.000OthersL.S.100.00Sub TotalIndext and the second se	Work ItemUnitQuantityBasic PriceMaterialLaborEquipmentFCLCFCLCMaterialIr.327.000OthersL.S.100.00Sub Totalman. day1033.00OthersL.S.100.00Sub TotalL.S.1022320EquipmentTruck crane 45tday122320	Work ItemUnitQuantityBasic PriceUnitMaterialLaborEquipmentAnd the second

Fuel & Lubricant: 300ps x 0.11 x 4 x 1.05

4J0102

. . FC: YEN

· .	Installation of Flood Li	ght Mas	t 24M for	6X1000W			LC: US\$			Total estimat	
No	Work Item		Quantity			Ba	sic Price			Uni	t Cost
				Mate	erial	L	abor	Equip	ment	An	nount
				FC	LC ·	FC	LC	FC	LC	FC	LC
1	Material	·					1. I. S.				
	Flood light mast 24m	nos.	1	0	5, 800. 00					0	5,800
	Above others 11.17%	L.S	0.1117	0	5, 800.00					0	648
	Fuel Truck 8t with crane	day	1	0	83					0	83
	" Truck crane 45t	day	1	. · · · ·	108					- 0	108
	Sub Total									. 0	6, 638
- 2	Labor										
	Electrician	man. day	2			0	38.20			0	70
•	Forman	man. day	2			0	31, 09	· · ·		· 0	62
	Labor	man. day	10			0	14. 30	·		. 0	143
	Truck 4t with crane	man. day	1			0	33			0	33
	Truck crane 45t	man. day	1			0	33			. 0	3:
	Sub Total						·			0	348
. 3	Equipment					1					
	Truck St with crane	day	1				4	5, 520	·. ' 0	5, 520	
•	Truck crane 45t	day	1					22, 320	0	22, 320	
	Sub Total		$(1, \dots, n) \in \mathbb{R}^{n}$							27, 840	· .
,		<u></u>		I	- <b>t</b>			Total		27, 840	6, 98
								Unit Price p	per no.	27, 840. 00	6, 985. 8
	INDIRECT COST								15%	4, 176. 00	1, 047. 8
	TOTAL						<b>~~</b> ~~	· · · · · · · · · · · · · · · · · · ·		32, 016	8, 033. 73

LA UNION PORT DEVELOPMENT PROJECT

4J0102

474

FC: YEN

Truck 8t with crane per day

LC: US\$

No	Work Item	Unit	Quantity			Ba	sic Price			Uni	t Cost
				Mate	erial	L	abor	Equipment	an a	A	mount
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	250.00	. 0	0.33					0	83
	Others	L. S.	1	0	0.00	· .				0	<b>0</b>
	Sub Total									0	83
2	Labor										
	Operator	man. day	1			0	33.00			· 0	33
	Others	L. S.	1			0	0.00			0	0
	Sub Total					1. A.				0	. 33
3	Equipment		1. A.		1						
-	Truck St with crane	day	1			: · .		5520	0	5, 520	0
	Sub Total									5, 520	0
	Total									5, 520	116
	and the state of the state of the			a da ser da se					1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		

Fuel & Lubricant: 269ps x 0.11 x 4 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

4J0102

475

FC: YEN

	Truck crane 45t per	day		·			LC: US\$		1.		
No	Work Item	Unit	Quantity		· ·	Ba	sic Price			Uni	t Cost
				Material		Labor		Equipment		Amount	
	an a			FC	LC ·	FC	LC	FC	LC	FC	LC
1	Material						_* *				
	Fuel & Lubricant	lr	327.00	· o	0.33		- -			0	108
	Others	L. S.	1	0	0.00	÷ .				0	0
	Sub Total		·							0	108
2	Labor								· ·		
	Operator	man. day	, 1			0	33.00			0	33
	Others	L. S.	1			0	0.00			0	0
	Sub Total									0	33
											-
3	Equipment				-						
	Truck crane 45t	day	1					. 22320	0	22, 320	. C
	Sub Total									22, 320	C.
			:								
	Total									22, 320	141

Fuel & Lubricant: 300ps x 0.11 x 4 x 1.05

4J0104

Installation of Street Light Pole 12M for 2X250W

FC: YEN LC: US\$

Total estimate for 3 Nos.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
	· ·			Material Labor		Equip	ment	Ar	nount			
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Street light pole 12m	nos.	. 3	0	- 1, 700. 00					· 0	5,100	
	Above others 10.65%	L.S	0.3195	. 0	1, 700. 00					· 0	543	
	Fuel Truck St with crane	day	0.5	0	83	-					41	
	" Truck crane 16t	day	1	0	78					0	78	
	Sub Total									0	5, 762	
2	Labor											
	Electrician	man. day	1	1.		0	31.09			0	31	
	Labor	man. day	4			. 0	14.30			0	57	
	Truck 4t with crane	man. day	0.5		1.1	0	33			0	17	
	Truck crane 16t	man. day	1			. O	33			· · · · 0	33	
	Sub Total									0	138	
3	Equipment											
	Truck St with crane	day	0.5					5, 520	· 0	2, 760	. (	
	Truck crane 16t	day	. 1		a an an A			9, 480	· · 0	9, 480	C	
	Sub Total			· .				· · · · · ·		12, 240	c	
			· · · ·			. :		Total		12, 240	5, 900	
•	· · · ·					. •		Unit Price.p	er no.	4, 080. 00	1, 966. 58	
	INDIRECT COST					<i>.</i> .		· · · · · ·	15%	612.00	294.99	
	TOTAL						· .	· .		4,692	2, 261. 57	

LA UNION PORT DEVELOPMENT PROJECT

4J0104

477

Truck 4t with crane per day

FC: YEN

	Truck 4t with crane per	r day				-	LC: US\$	-			
No	Work Item	Unit	Quantity			Unit Cost					
				Material		·L	Labor		Equipment		nount
•				FC	LC	FC	LC	FC	LC ·	FC	LC
1	Material										
	Fuel & Lubricant	lr.	250.00	· 0	0.33	· ·				0	83
	Others	Ľ. S.	1	0	0.00					0	0
•	Sub Total									C	83
2	Labor										
•	Operator	man. day	1			. 0	33.00			0	33
	Others	L. S.	1			0	0.00			0	. 0
	Sub Total				•					0	33
. 3	Equipment									5 500	
	Truck 4t with crane	day						5520	U U	5, 520	
	Sub Total									5, 520	
	Total									5, 520	116
						· · · ·			· ·	· · ·	

Fuel & Lubricant: 269ps x 0.11 x 4 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

4J0104

478

Truck crane 16t per day

FC: YEN

LC: US\$

No	Work Item	Unit	Quantity		<u> </u>	Ba		Unit Cost			
				Mate	erial	L	Labor		ment	Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	235.00	. 0	0. 33					0	78
	Others	L. S.	1	0	0.00					0	. 0
	Sub Total									0	78
2	Labor										
	Operator	man. day	1			. 0	33.00			0	33
	Others	L. S.	1			0	0.00			0	. 0
	Sub Total	· ·			·					0	33
		[								1	
. 3	Equipment										
	•	day	1					9480	0	9, 480	0
	Sub Total									9, 480	. 0
	Total									9, 480	111
				· · · ·					1 1.		

Fuel & Lubricant: 230ps x 0.11 x 4 x 1.05

Installation of Street Light Pole 12M for 2X250W

4J0105

FC: YEN

LC: US\$

Total estimate for 2 Nos.

No	Work Item	Unit	Quantity		······································	Bas	sic Price			Unit Cost			
•				Mat	erial	L	abor	Equip	ment	A	mount		
				FC	- LC	FC -	LC	FC	LC	FC	LC		
	Material Street light pole 12m	nos.	2		0 1, 700. 00					0	3, 400		
	Above others 3.85%	L.S	0.077		0 1,700.00					0	131		
· ·	Fuel Truck St with crane	day	0.2		0 83			1 .		0	17		
	" Truck crane 16t	day	0.3	•	0 78					0	23		
	Sub Total									0	3, 571		
2	Labor												
	Electrician	man. day	0.3			. 0	31.09			0	9		
	Labor	man. day	1.6			. 0	14.30			0	23		
	Truck 4t with crane	man. day	0.2			0	33			0	7		
	Truck crane 16t	man. day	0.3			· : 0	33	ĺ		0	10		
	Sub Total									0	49		
3	Equipment												
	Truck 8t with crane	day	0.2					5, 520	0	1,104			
	Truck crane 16t	day	0.3					9, 480	0	2, 844			
	Sub Total									3, 948			
	·		•					Total		3, 948	3, 619		
					· · ·			Unit Price )	per no.	1, 974. 00	1, 809. 69		
	INDIRECT COST			- · · · ·					15%	296.10	271.45		
	TOTAL									2, 270	2, 081. 14		

LA UNION PORT DEVELOPMENT PROJECT

4J0105

Truck 4t with crane per day

FC: YEN

LC: US\$

No	Work Item	Unit	Quantity			Ba	Unit Cost				
				Mate	rial	L	abor	Equip	ment	- Ai	nount
				FC -	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	250.00	0	0.33					0	83
	Others	L. S.	1	0	0.00					0	· 0
	Sub Total									· 0	83
2	Labor										
	Operator	man. day	1			- 0	33.00			0	33
	Others	L. S.	1			0	0.00			. 0	0
	Sub Total									0.	33
. 3	Equipment						· · ·				
	Truck 4t with crane	day	1					5520	C	5, 520	. 0
	Sub Total			i						5, 520	. 0
	Total			•		· ·				5, 520	116

Fuel & Lubricant: 269ps x 0.11 x 4 x 1.05

100ps x 0.2 x 6 x 1.05

4J0105-1

LA UNION PORT DEVELOPMENT PROJECT

4J0105

FC: YEN

	4juius	dav			· .		LC: US\$		· · ·		
No	Truck crane 16t per Work Item		Quantity				Unit Cost				
110	401K 100M			Mate	Material		Labor		Equipment		nount
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	235.00	. 0	0. 33					0	78
	Others	L. S.	1	0	0, 00					. 0	0
	Sub Total									0	78
. 2	Labor										
	Operator	man. day	. 1			0	33.00			. 0	33
	Others	L. S.	1			0	0.00			0	0
	Sub Total									0	33
3	Equipment	1							:		
	Truck crane 16t	day	1					9480	0	9, 480	
	Sub Total						н. 1			9,480	
	Total					н. — — — — — — — — — — — — — — — — — — —				9, 480	111
	10.001					-					

Fuel & Lubricant: 230ps x 0.11 x 4 x 1.05

100ps x 0.2 x 6 x 1.05