

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C0201

FC: YEN

Generator 45KVA per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				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									0	24
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										
	Generator 45KVA	day	1					1080	0	1,080	0
	Sub Total									1,080	0
	Total									1,080	57

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

4C0201-4

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C0201

FC: YEN

Backhoe 0.8 m3 per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		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			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Backhoe 0.8m3	day	1					11280	0	11,280	0
	Sub Total									11,280	0
	Total									11,280	128

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

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C0201

FC: YEN

Tire roller 8-20t per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	161.00	0	0.33					0	53
	Others	L.S.	1	0	2.00					0	2
	Sub Total									0	55
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										
	Tire roller 8-20t	day	1					3360	0	3,360	0
	Sub Total									3,360	0
	Total									3,360	88

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

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APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C0201

FC: YEN

LC: US\$

Tampa 60-100kg per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				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	0.00					0	0
	Sub Total									0	2
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										
	Tampa	day	1					212.4	0	212.40	0
	Sub Total									212.40	0
	Total									212.40	35

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

APPENDIX-3. EQUIPMENT COST
LA UNION PORT DEVELOPMENT PROJECT

4C0201

FC: YEN

Concrete Mixer 0.6m³ per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	0	0	0.33					0	0
	Others	L.S.	1	0	0.00					0	0
	Sub Total									0	0
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										
	Concrete Mixer 0.6m ³	day	1					6480	0	6,480.00	0
	Sub Total									6,480.00	0
	Total									6,480.00	33

4C0201-8

LA UNION PORT DEVELOPMENT PROJECT

4C0202

GREASE TRAP

FC: YEN

LC: US\$

Total estimate for 15 Nos

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
				Amount		Amount	
				FC	LC	FC	LC
4C020201	Excavation & Disposal	Nos.	15	189.52	3.21	2,843	48.14
4C020202	Crushed Stone for Foundation	Nos.	15	44.05	1.36	661	20.36
4C020203	Lean Concrete	Nos.	15	29.44	3.93	442	59.01
4C020204	Reinforcement	Nos.	15	1,423.24	83.96	21,349	1,259.44
4C020205	Corner Angle	Nos.	15	914.94	60.18	13,724	902.77
4C020206	Concrete Placing	Nos.	15	158.24	176.79	2,374	2,651.86
4C020207	Backfill Sand & Compaction	Nos.	15	56.93	5.45	854	81.82
	Total					42,246	5,023.40
Unit Price per No.						2,816	334.89

LA UNION PORT DEVELOPMENT PROJECT

4C020201

FC: YEN

Excavation & Disposal for Manhole

LC: US\$

Total estimate for 15 Nos

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Excavation sand	m3	24.58	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	0.1	0	95					0	10	
	" Dump truck 10t	day	0.20	0	105					0	21	
	Sub Total									0	31	
2	Labor											
	Foreman	man. day				0	38.20			0	0	
	Labor	man. day	0.1			0	14.30			0	1	
	Backhoe 0.8m3	man. day	0.1			0	33			0	3	
	Dump truck 10t	man. day	0.20			0	33			0	7	
	Sub Total									0	11	
3	Equipment											
	Backhoe 0.8m3	day	0.1					11,280	0	1,128	0	
	Dump truck 10t	day	0.20					6,720	0	1,344	0	
	Sub Total									2,472	0	
Total										2,472	42	
Unit Price per No.										164.80	2.79	
INDIRECT COST										15%	24.72	0.42
TOTAL										190	3.21	

LA UNION PORT DEVELOPMENT PROJECT

4C020202

FC: YEN

LC: US\$

Crushed stone for Foundation of Manhole

Total estimate for 15 Nos

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Crushed stone	m3	1.33	0	5.16					0	6.86	
	Wasted crushed stone (25%)	m3	0.33	0	5.16					0	1.72	
	Fuel Backhoe 0.8m3	day	0.05	0	95					0	4.77	
	" Tampa 60kg	day	0.05	0	2					0	0.08	
	Sub Total									0	13.43	
2	Labor											
	Foreman	man. day	0.05			0	38.20			0	1.91	
	Labor	man. day	0.05			0	14.30			0	0.72	
	Backhoe 0.8m3	man. day	0.05			0	33			0	1.65	
	Sub Total									0	4.28	
3	Equipment											
	Backhoe 0.8m3	day	0.05					11,280	0	564.00	0	
	Tampa 60kg	day	0.05					212.40	0	10.62	0	
	Sub Total									575	0	
Total										575	18	
Unit Price per No.										38.31	1.18	
INDIRECT COST										15%	5.75	0.18
TOTAL										44	1.36	

LA UNION PORT DEVELOPMENT PROJECT

4C020203

FC: YEN

Lean Concrete

LC: US\$

Total estimate for 15Nos

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Ready mixed concrete	m3	0.67	0	65.00					0	44	
	Wasted concrete (1.5%)	m3	0.01	0	65.00					0	1	
	Fuel Concrete mixer 0.6m3	day	0.05	0	0					0	0	
	Generator 45KVA	day	0.05	0	24					0	1	
	Sub Total									0	45	
2	Labor											
	Foreman	man. day	0.05			0	38.20			0	2	
	Labor	man. day	0.05			0	14.30			0	1	
	Concrete mixer 0.6m3	day	0.05			0	33			0	2	
	Generator 45KVA	day	0.05			0	33			0	2	
	Sub Total									0	6	
3	Equipment											
	Concrete mixer 0.6m3	day	0.05					6,480	0	324	0	
	Generator 45KVA	day	0.05					1,080	0	54	0	
	Vibrator	day	0.05					120	0	6	0	
	Sub Total									384	0	
Total										384	51	
Unit Price per No.										25.60	3.42	
INDIRECT COST										15%	3.84	0.51
TOTAL										29	3.93	

LA UNION PORT DEVELOPMENT PROJECT

4C020204

FC: YEN

LC: US\$

Total estimate for 15 Nos

Reinforcement

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Reinforcement bar	kg	1277.00	0	0.36					0	460	
	Wasted steel bar(1.5%)	kg	19.16	0	0.36					0	7	
	Fuel Truck crane 16t	day	1.3	0	77					0	100	
	Truck 8t	day	1.3	0	80					0	104	
	Generator 45KVA	day	1	0	24					0	31	
	Sub Total									0	701	
2	Labor											
	Foreman	man. day	1.3			0	38.20			0	50	
	Labor	man. day	13			0	14.30			0	186	
	Welder	man. day	1.3			0	23.09			0	30	
	Truck crane 16t	man. day	1.3			0	33			0	43	
	Truck 8t	man. day	1.3			0	33			0	43	
	Generator 45KVA	man. day	1.3			0	33			0	43	
	Sub Total									0	394	
3	Equipment											
	Truck crane 16t	day	1.3					9,480	0	12324	0	
	Truck 8t	day	1.3					3,480	0	4,524	0	
	Generator 45KVA	day	1.3					1,080	0	1,404	0	
	Bar cutter	day	1.3					120	0	156	0	
	Bar bender	day	1.3					120	0	156	0	
	Sub Total									18,564	0	
Total										18,564	1,095	
Unit Price per No.										1,237.60	73.01	
INDIRECT COST										15%	185.64	10.95
TOTAL										1,423	83.96	

LA UNION PORT DEVELOPMENT PROJECT

4C020205

Corner Angle for Manhole

FC: YEN

LC: US\$

Total estimate for 15 Nos

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Coner angle	kg	172.65	0	0.36					0	62	
	Wasted corner angle(2%)	kg	3.45	0	0.36					0	1	
	Miscellaneous	L.S.	1	0	1.27					0	1	
	Fuel Truck 8t	day	2.5	0	80					0	200	
	Generator 45KVA	day	2.50	0	24					0	59	
	Sub Total									0	324	
2	Labor											
	Foreman	man. day	2.5			0	38.20			0	96	
	Labor	man. day	10			0	14.30			0	143	
	Welder	man. day	2.5			0	23.09			0	58	
	Truck 8t	man. day	2.5			0	33			0	83	
	Generator 45KVA	man. day	2.5			0	33			0	83	
	Sub Total									0	461	
3	Equipment											
	Truck 8t	day	2.5					3,480	0	8,700	0	
	Generator 45KVA	day	2.5					1,080	0	2,700	0	
	Welder 300A	day	2.5					120	0	300	0	
	Other equipment	L.S.	1					234	0	234	0	
	Sub Total									11,934	0	
Total										11,934	785	
Unit Price per No.										795.60	52.33	
INDIRECT COST										15%	119.34	7.85
TOTAL										915	60.18	

LA UNION PORT DEVELOPMENT PROJECT

4C020206

FC: YEN

LC: US\$

Total estimate for 15 Nos

Concrete Placing

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Cover for manhole	Nos	15.00	0	100.00					0	1,500	
	Ready mixed concrete	m3	4.20	0	70.00					0	294	
	Wasted concrete(5%)	m3	0.21	0	70.00					0	15	
	Formwork	m2	83.00	0	5.50					0	457	
	Fuel Truck crane 16t	day	0.1	0	77					0	8	
	Concrete mixer 0.6m3	day	0.1	0	0					0	0	
	Generator 45KVA	day	0.1	0	24					0	2	
	Truck 8t	day	0.1	0	80					0	8	
	Sub Total									0	2,283	
2	Labor											
	Foreman	man. day	0.1			0	38.20			0	4	
	Labor	man. day	0.4			0	14.30			0	6	
	Truck crane 16t	man. day	0.1			0	33			0	3	
	Concrete mixer 0.6m3	man. day	0.1			0	33			0	3	
	Generator 45KVA	man. day	0.1			0	33			0	3	
	Truck 8t	man. day	0.1			0	33			0	3	
	Sub Total									0	23	
3	Equipment											
	Truck crane 16t	day	0.1					9,480	0	948	0	
	Concrete mixer 0.6m3	day	0.1					6,480	0	648	0	
	Generator 45KVA	day	0.1					1,080	0	108	0	
	Truck 8t	day	0.1					3,480	0	348	0	
	Vibrator	day	0.1					120	0	12	0	
	Sub Total									2,064	0	
Total										2,064	2,306	
Unit Price per No.										137.60	153.73	
INDIRECT COST										15%	20.64	23.06
TOTAL										158	176.79	

LA UNION PORT DEVELOPMENT PROJECT

4C020207

FC: YEN

Backfill sand & Compaction

LC: US\$

Total estimate for 15 Nos

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Backfill sand	m3	11.38	0	4.00					0	46	
	Wasted Backfill sand (25%)	m3	2.85	0	4.00					0	11	
	Fuel Backhoe 0.8m3	day	0.05	0	95					0	5	
	" Tire roller 8-20t	day	0.05	0	55					0	3	
	" Tampa 60kg	day	0.05	0	2					0	0	
	Sub Total									0	65	
2	Labor											
	Foreman	man. day	0.05			0	38.20			0	2	
	Labor	man. day	0.1			0	14.30			0	1	
	Backhoe 0.8m3	man. day	0.05			0	33			0	2	
	Tire roller 8-20t	man. day	0.05			0	33			0	2	
	Sub Total									0	7	
3	Equipment											
	Backhoe 0.8m3	day	0.05					11,280	0	564	0	
	Tire roller 8-20t	day	0.05					3,360	0	168	0	
	Tampa 60kg	day	0.05					212	0	11	0	
	Sub Total									743	0	
Total										743	71	
Unit Price per No.										49.51	4.74	
INDIRECT COST										15%	7.43	0.71
TOTAL										57	5.45	

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C0202

FC: YEN

LC: US\$

Truck crane 16t per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	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					0	0
	Sub Total									0	77
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 with crane 8t	day	1					9480	0	9,480	0
	Sub Total									9,480	0
	Total									9,480	110

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

100ps x 0.2 x 6 x 1.05

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C0202

FC: YEN

Truck 8t per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	233.00	0	0.33					0	77
	Others	L. S.	1	0	3.00					0	3
	Sub Total									0	80
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 8t	day	1					3480	0	3,480	0
	Sub Total									3,480	0
	Total									3,480	113

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

4C0202-02

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C0202
 Dump truck 10t per day

FC: YEN
 LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				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
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	0
	Sub Total									6,720	0
	Total									6,720	138

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

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C0202

FC: YEN

Generator 45KVA per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				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									0	24
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										
	Generator 45KVA	day	1					1080	0	1,080	0
	Sub Total									1,080	0
	Total									1,080	57

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

4C0202-4

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C0202

FC: YEN

LC: US\$

Backhoe 0.8 m3 per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		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			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Backhoe 0.8m3	day	1					11280	0	11,280	0
	Sub Total									11,280	0
	Total									11,280	128

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

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C0202
 Tire roller 8-20t per day

FC: YEN
 LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	161.00	0	0.33					0	53
	Others	L. S.	1	0	2.00					0	2
	Sub Total									0	55
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										
	Tire roller 8-20t	day	1					3360	0	3,360	0
	Sub Total									3,360	0
	Total									3,360	88

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

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C0202

FC: YEN

LC: US\$

Tampa 60-100kg per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				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	0.00					0	0
	Sub Total									0	2
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										
	Tampa	day	1					212.4	0	212.40	0
	Sub Total									212.40	0
	Total									212.40	35

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

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C0202

FC: YEN

LC: US\$

Concrete Mixer 0.6m3 per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	0	0	0.33					0	0
	Others	L. S.	1	0	0.00					0	0
	Sub Total									0	0
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										
	Concrete Mixer 0.6m3	day	1					6480	0	6,480.00	0
	Sub Total									6,480.00	0
	Total									6,480.00	33

LA UNION PORT DEVELOPMENT PROJECT

4C0301

FC: YEN

Catch Basin

LC: US\$

Total estimate for 15 Nos

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
						Amount	
				FC	LC	FC	LC
4C030101	Excavation & Disposal	Nos.	15	379.04	6.42	5,686	96.28
4C030102	Crushed Stone for Foundation	Nos.	15	88.11	2.85	1,322	42.80
4C030103	Lean Concrete	Nos.	15	58.88	8.64	883	129.54
4C030104	Reinforcement	Nos.	15	2,737.00	164.95	41,055	2,474.20
4C030105	Corner Angle	Nos.	15	914.94	62.09	13,724	931.35
4C030106	Concrete Placing	Nos.	15	949.44	358.19	14,242	5,372.88
4C030107	Backfill Sand & Compaction	Nos.	15	113.87	8.55	1,708	128.22
	Total					78,619	9,175.27
Unit Price per No.						5,241	611.63

LA UNION PORT DEVELOPMENT PROJECT

4C030101

FC: YEN

Excavation & Disposal for Manhole

LC: US\$

Total estimate for 15 Nos

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Excavation sand	m3	49.2	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	0.2	0	95					0	19	
	" Dump truck 10t	day	0.40	0	105					0	42	
	Sub Total									0	61	
2	Labor											
	Foreman	man. day				0	38.20			0	0	
	Labor	man. day	0.2			0	14.30			0	3	
	Backhoe 0.8m3	man. day	0.2			0	33			0	7	
	Dump truck 10t	man. day	0.40			0	33			0	13	
	Sub Total									0	23	
3	Equipment											
	Backhoe 0.8m3	day	0.2					11,280	0	2,256	0	
	Dump truck 10t	day	0.40					6,720	0	2,688	0	
	Sub Total									4,944	0	
Total										4,944	84	
Unit Price per No.										329.60	5.58	
INDIRECT COST										15%	49.44	0.84
TOTAL										379	6.42	

LA UNION PORT DEVELOPMENT PROJECT

4C030102

FC: YEN

LC: US\$

Crushed stone for Foundation of Manhole

Total estimate for 15 Nos

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Crushed stone	m3	2.94	0	5.16					0	15.17	
	Wasted crushed stone (25%)	m3	0.74	0	5.16					0	3.79	
	Fuel Backhoe 0.8m3	day	0.1	0	95					0	9.54	
	" Tampa 60kg	day	0.10	0	2					0	0.17	
	Sub Total									0	28.67	
2	Labor											
	Foreman	man. day	0.1			0	38.20			0	3.82	
	Labor	man. day	0.1			0	14.30			0	1.43	
	Backhoe 0.8m3	man. day	0.1			0	33			0	3.30	
	Sub Total									0	8.55	
3	Equipment											
	Backhoe 0.8m3	day	0.1					11,280	0	1,128.00	0	
	Tampa 60kg	day	0.1					212.40	0	21.24	0	
	Sub Total									1,149	0	
Total										1,149	37	
Unit Price per No.										76.62	2.48	
INDIRECT COST										15%	11.49	0.37
TOTAL										88	2.85	

LA UNION PORT DEVELOPMENT PROJECT

4C030103

Lean Concrete

FC: YEN

LC: US\$

Total estimate for 15Nos

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Ready mixed concrete	m3	1.47	0	65.00					0	96	
	Wasted concrete(1.5%)	m3	0.02	0	65.00					0	1	
	Fuel Concrete mixer 0.6m3	day	0.10	0	0					0	0	
	Generator 45KVA	day	0.10	0	24					0	2	
	Sub Total									0	99	
2	Labor											
	Foreman	man. day	0.10			0	38.20			0	4	
	Labor	man. day	0.20			0	14.30			0	3	
	Concrete mixer 0.6m3	day	0.10			0	33			0	3	
	Generator 45KVA	day	0.10			0	33			0	3	
	Sub Total									0	13	
3	Equipment											
	Concrete mixer 0.6m3	day	0.10					6,480	0	648	0	
	Generator 45KVA	day	0.10					1,080	0	108	0	
	Vibrator	day	0.10					120	0	12	0	
	Sub Total									768	0	
Total										768	113	
Unit Price per No.										51.20	7.51	
INDIRECT COST										15%	7.68	1.13
TOTAL										59	8.64	

LA UNION PORT DEVELOPMENT PROJECT

4C030104

FC: YEN

LC: US\$

Total estimate for 15 Nos

Reinforcement

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Reinforcement bar	kg	2580.00	0	0.36					0	929	
	Wasted steel bar(1.5%)	kg	38.70	0	0.36					0	14	
	Fuel Truck crane 16t	day	2.5	0	77					0	191	
	Truck 8t	day	2.5	0	80					0	200	
	Generator 45KVA	day	3	0	24					0	59	
	Sub Total									0	1,393	
2	Labor											
	Foreman	man. day	2.5			0	38.20			0	96	
	Labor	man. day	25			0	14.30			0	358	
	Welder	man. day	2.5			0	23.09			0	58	
	Truck crane 16t	man. day	2.5			0	33			0	83	
	Truck 8t	man. day	2.5			0	33			0	83	
	Generator 45KVA	man. day	2.5			0	33			0	83	
	Sub Total									0	758	
3	Equipment											
	Truck crane 16t	day	2.5					9,480	0	23700	0	
	Truck 8t	day	2.5					3,480	0	8,700	0	
	Generator 45KVA	day	2.5					1,080	0	2,700	0	
	Bar cutter	day	2.5					120	0	300	0	
	Bar bender	day	2.5					120	0	300	0	
	Sub Total									35,700	0	
Total										35,700	2,151	
Unit Price per No.										2,380.00	143.43	
INDIRECT COST										15%	357.00	21.51
TOTAL										2,737	164.95	

LA UNION PORT DEVELOPMENT PROJECT

4C030105

Corner Angle for Manhole

FC: YEN

LC: US\$

Total estimate for 15 Nos

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Coner angle	kg	239.00	0	0.36					0	86	
	Wasted corner angle(2%)	kg	4.78	0	0.36					0	2	
	Miscellaneous	L.S.	1	0	1.76					0	2	
	Fuel Truck 8t	day	2.5	0	80					0	200	
	" Generator 45KVA	day	2.50	0	24					0	59	
	Sub Total									0	349	
2	Labor											
	Foreman	man. day	2.5			0	38.20			0	96	
	Labor	man. day	10			0	14.30			0	143	
	Welder	man. day	2.5			0	23.09			0	58	
	Truck 8t	man. day	2.5			0	33			0	83	
	Generator 45KVA	man. day	2.5			0	33			0	83	
	Sub Total									0	461	
3	Equipment											
	Truck 8t	day	2.5					3,480	0	8,700	0	
	Generator 45KVA	day	2.5					1,080	0	2,700	0	
	Welder 300A	day	2.5					120	0	300	0	
	Other equipment	L.S.	1					234	0	234	0	
	Sub Total									11,934	0	
Total										11,934	810	
Unit Price per No.										795.60	53.99	
INDIRECT COST										15%	119.34	8.10
TOTAL										915	62.09	

LA UNION PORT DEVELOPMENT PROJECT

4C030106

FC: YEN

LC: US\$

Total estimate for 15 Nos

Concrete Placing

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Cover for manhole	Nos	15.00	0	147.00					0	2,205	
	Ready mixed concrete	m3	14.00	0	70.00					0	980	
	Wasted concrete (5%)	m3	0.70	0	70.00					0	49	
	Formwork	m2	217.00	0	5.50					0	1,194	
	Fuel Truck crane 16t	day	0.6	0	77					0	46	
	~ Concrete mixer 0.6m3	day	0.6	0	0					0	0	
	~ Generator 45KVA	day	0.6	0	24					0	14	
	~ Truck 8t	day	0.6	0	80					0	48	
	Sub Total									0	4,536	
2	Labor											
	Foreman	man. day	0.6			0	38.20			0	23	
	Labor	man. day	2.4			0	14.30			0	34	
	Truck crane 16t	man. day	0.6			0	33			0	20	
	Concrete mixer 0.6m3	man. day	0.6			0	33			0	20	
	Generator 45KVA	man. day	0.6			0	33			0	20	
	Truck 8t	man. day	0.6			0	33			0	20	
	Sub Total									0	136	
3	Equipment											
	Truck crane 16t	day	0.6					9,480	0	5,688	0	
	Concrete mixer 0.6m3	day	0.6					6,480	0	3,888	0	
	Generator 45KVA	day	0.6					1,080	0	648	0	
	Truck 8t	day	0.6					3,480	0	2,088	0	
	Vibrator	day	0.6					120	0	72	0	
	Sub Total									12,384	0	
Total										12,384	4,672	
Unit Price per No.										825.60	311.47	
INDIRECT COST										15%	123.84	46.72
TOTAL										949	358.19	

LA UNION PORT DEVELOPMENT PROJECT

4C030107

FC: YEN

Backfill sand & Compaction

LC: US\$

Total estimate for 15 Nos

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Backfill sand	m3	16.6	0	4.00					0	66	
	Wasted Backfill sand (25%)	m3	4.15	0	4.00					0	17	
	Fuel Backhoe 0.8m3	day	0.1	0	95					0	10	
	" Tire roller 8-20t	day	0.1	0	55					0	6	
	" Tampa 60kg	day	0.1	0	2					0	0	
	Sub Total									0	98	
2	Labor											
	Foreman	man. day	0.1			0	38.20			0	4	
	Labor	man. day	0.2			0	14.30			0	3	
	Backhoe 0.8m3	man. day	0.1			0	33			0	3	
	Tire roller 8-20t	man. day	0.1			0	33			0	3	
	Sub Total									0	13	
3	Equipment											
	Backhoe 0.8m3	day	0.1					11,280	0	1,128	0	
	Tire roller 8-20t	day	0.1					3,360	0	336	0	
	Tampa 60kg	day	0.1					212	0	21	0	
	Sub Total									1,485	0	
Total										1,485	111	
Unit Price per No.										99.02	7.43	
INDIRECT COST										15%	14.85	1.11
TOTAL										114	8.55	

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C0301

FC: YEN
 LC: US\$

Truck crane 16t per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	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					0	0
	Sub Total									0	77
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 with crane 8t	day	1					9480	0	9,480	0
	Sub Total									9,480	0
	Total									9,480	110

Fuel & Lubricant: 230ps x 0.11 x 4 x 1.05
 100ps x 0.2 x 6 x 1.05

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT

4C0301

FC: YEN

Truck 8t per day

LC: USS

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	233.00	0	0.33					0	77
	Others	L.S.	1	0	3.00					0	3
	Sub Total									0	80
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 8t	day	1					3480	0	3,480	0
	Sub Total									3,480	0
	Total									3,480	113

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

4C0301-02

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C0301
 Dump truck 10t per day

FC: YEN
 LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				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
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	0
	Sub Total									6,720	0
	Total									6,720	138

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

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT

4C0301

FC: YEN

Generator 45KVA per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				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									0	24
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										
	Generator 45KVA	day	1					1080	0	1,080	0
	Sub Total									1,080	0
	Total									1,080	57

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

4C0301-4

APPENDIX-3. EQUIPMENT COST
LA UNION PORT DEVELOPMENT PROJECT

4C0301

FC: YEN

LC: US\$

Backhoe 0.8 m3 per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		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			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Backhoe 0.8m3	day	1					11280	0	11,280	0
	Sub Total									11,280	0
	Total									11,280	128

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

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT

4C0301

FC: YEN

LC: US\$

Tire roller 8-20t per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	161.00	0	0.33					0	53
	Others	L.S.	1	0	2.00					0	2
	Sub Total									0	55
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										
	Tire roller 8-20t	day	1					3360	0	3,360	0
	Sub Total									3,360	0
	Total									3,360	88

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

APPENDIX-3. EQUIPMENT COST
LA UNION PORT DEVELOPMENT PROJECT

4C0301

FC: YEN

LC: US\$

Tampa 60-100kg per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				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	0.00					0	0
	Sub Total									0	2
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										
	Tampa	day	1					212.4	0	212.40	0
	Sub Total									212.40	0
	Total									212.40	35

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

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT

4C0301

FC: YEN

Concrete Mixer 0.6m3 per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	0	0	0.33					0	0
	Others	L.S.	1	0	0.00					0	0
	Sub Total									0	0
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										
	Concrete Mixer 0.6m3	day	1					6480	0	6,480.00	0
	Sub Total									6,480.00	0
	Total									6,480.00	33

4C0301-8

LA UNION PORT DEVELOPMENT PROJECT

4C0302

FC: YEN

LC: US\$

Total estimate for 75 m

Drain Trench

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
						Amount	
				FC	LC	FC	LC
4C030201	Excavation & Disposal	m	75	75.81	1.28	5,686	96.28
4C030202	Crushed Stone for Foundation	m	75	17.62	0.85	1,322	64.01
4C030203	Lean Concrete	m	75	11.78	3.17	883	238.03
4C030204	Reinforcement	m	75	437.92	26.12	32,844	1,958.77
4C030205	Corner Angle	m	75	182.99	15.17	13,724	1,137.66
4C030206	Concrete Placing	m	75	189.89	142.67	14,242	10,700.37
4C030207	Backfill Sand & Compaction	m	75	22.77	2.17	1,708	162.72
	Total					70,408	14,357.85
Unit Price per m						939	191.44

LA UNION PORT DEVELOPMENT PROJECT

4C030201

FC: YEN

LC: US\$

Excavation & Disposal for Manhole

Total estimate for 75 m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Excavation sand	m3	56	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	0.2	0	95					0	19	
	" Dump truck 10t	day	0.40	0	105					0	42	
	Sub Total									0	61	
2	Labor											
	Foreman	man. day				0	38.20			0	0	
	Labor	man. day	0.2			0	14.30			0	3	
	Backhoe 0.8m3	man. day	0.2			0	33			0	7	
	Dump truck 10t	man. day	0.40			0	33			0	13	
	Sub Total									0	23	
3	Equipment											
	Backhoe 0.8m3	day	0.2					11,280	0	2,256	0	
	Dump truck 10t	day	0.40					6,720	0	2,688	0	
	Sub Total									4,944	0	
Total										4,944	84	
Unit Price per No.										65.92	1.12	
INDIRECT COST										15%	9.89	0.17
TOTAL										76	1.28	

LA UNION PORT DEVELOPMENT PROJECT

4C030202

FC: YEN

LC: US\$

Total estimate for 75 m

Crushed stone for Foundation of Manhole

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Crushed stone	m3	5.80	0	5.16					0	29.93	
	Wasted crushed stone (25%)	m3	1.45	0	5.16					0	7.48	
	Fuel Backhoe 0.8m3	day	0.1	0	95					0	9.54	
	" Tampa 60kg	day	0.10	0	2					0	0.17	
	Sub Total									0	47.11	
2	Labor											
	Foreman	man. day	0.1			0	38.20			0	3.82	
	Labor	man. day	0.1			0	14.30			0	1.43	
	Backhoe 0.8m3	man. day	0.1			0	33			0	3.30	
	Sub Total									0	8.55	
3	Equipment											
	Backhoe 0.8m3	day	0.1					11,280	0	1,128.00	0	
	Tampa 60kg	day	0.1					212.40	0	21.24	0	
	Sub Total									1,149	0	
Total										1,149	56	
Unit Price per No.										15.32	0.74	
INDIRECT COST										15%	2.30	0.11
TOTAL										18	0.85	

LA UNION PORT DEVELOPMENT PROJECT

4C030203

Lean Concrete

FC: YEN

LC: US\$

Total estimate for 75 m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Ready mixed concrete	m3	2.90	0	65.00					0	189
	Wasted concrete(1.5%)	m3	0.04	0	65.00					0	3
	Fuel Concrete mixer 0.6m3	day	0.10	0	0					0	0
	Generator 45KVA	day	0.10	0	24					0	2
	Sub Total									0	194
2	Labor										
	Foreman	man. day	0.10			0	38.20			0	4
	Labor	man. day	0.20			0	14.30			0	3
	Concrete mixer 0.6m3	day	0.10			0	33			0	3
	Generator 45KVA	day	0.10			0	33			0	3
	Sub Total									0	13
3	Equipment										
	Concrete mixer 0.6m3	day	0.10					6,480	0	648	0
	Generator 45KVA	day	0.10					1,080	0	108	0
	Vibrator	day	0.10					120	0	12	0
	Sub Total									768	0
Total										768	207
Unit Price per No.										10.24	2.76
INDIRECT COST										15%	0.41
TOTAL										12	3.17

LA UNION PORT DEVELOPMENT PROJECT

4C030204

FC: YEN

LC: US\$

Reinforcement

Total estimate for 75 m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Reinforcement bar	kg	2015.00	0	0.36					0	725	
	Wasted steel bar(1.5%)	kg	30.23	0	0.36					0	11	
	Fuel Truck crane 16t	day	2	0	77					0	153	
	" Truck 8t	day	2	0	80					0	160	
	" Generator 45KVA	day	2.0	0	24					0	48	
	Sub Total									0	1,097	
2	Labor											
	Foreman	man. day	2			0	38.20			0	76	
	Labor	man. day	20			0	14.30			0	286	
	Welder	man. day	2			0	23.09			0	46	
	Truck crane 16t	man. day	2			0	33			0	66	
	Truck 8t	man. day	2			0	33			0	66	
	Generator 45KVA	man. day	2			0	33			0	66	
	Sub Total									0	607	
3	Equipment											
	Truck crane 16t	day	2					9,480	0	18,960	0	
	Truck 8t	day	2					3,480	0	6,960	0	
	Generator 45KVA	day	2					1,080	0	2,160	0	
	Bar cutter	day	2					120	0	240	0	
	Bar bender	day	2					120	0	240	0	
	Sub Total									28,560	0	
Total										28,560	1,703	
Unit Price per No.										380.80	22.71	
INDIRECT COST										15%	57.12	3.41
TOTAL										438	26.12	

LA UNION PORT DEVELOPMENT PROJECT

4C030205

FC: YEN

LC: US\$

Corner Angle for Manhole

Total estimate for 75

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Coner angle	kg	718.00	0	0.36					0	258	
	Wasted corner angle (2%)	kg	14.36	0	0.36					0	5	
	Miscellaneous	L.S.	1	0	5.27					0	5	
	Fuel Truck 8t	day	2.5	0	80					0	200	
	Generator 45KVA	day	2.50	0	24					0	59	
	Sub Total									0	528	
2	Labor											
	Foreman	man. day	2.5			0	38.20			0	96	
	Labor	man. day	10			0	14.30			0	143	
	Welder	man. day	2.5			0	23.09			0	58	
	Truck 8t	man. day	2.5			0	33			0	83	
	Generator 45KVA	man. day	2.5			0	33			0	83	
	Sub Total									0	461	
3	Equipment											
	Truck 8t	day	2.5					3,480	0	8,700	0	
	Generator 45KVA	day	2.5					1,080	0	2,700	0	
	Welder 300A	day	2.5					120	0	300	0	
	Other equipment	L.S.	1					234	0	234	0	
	Sub Total									11,934	0	
Total										11,934	989	
Unit Price per No.										159.12	13.19	
INDIRECT COST										15%	23.87	1.98
TOTAL										183	15.17	

LA UNION PORT DEVELOPMENT PROJECT

4C030206

FC: YEN

LC: US\$

Total estimate for 75

Concrete Placing

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Cover for manhole	m	75.00	0	89.70					0	6,728	
	Ready mixed concrete	m3	14.60	0	70.00					0	1,022	
	Wasted concrete(5%)	m3	0.73	0	70.00					0	51	
	Formwork	m2	229.00	0	5.50					0	1,260	
	Fuel Truck crane 16t	day	0.6	0	77					0	46	
	Concrete mixer 0.6m3	day	0.6	0	0					0	0	
	Generator 45KVA	day	0.6	0	24					0	14	
	Truck 8t	day	0.6	0	80					0	48	
	Sub Total									0	9,168	
2	Labor											
	Foreman	man. day	0.6			0	38.20			0	23	
	Labor	man. day	2.4			0	14.30			0	34	
	Truck crane 16t	man. day	0.6			0	33			0	20	
	Concrete mixer 0.6m3	man. day	0.6			0	33			0	20	
	Generator 45KVA	man. day	0.6			0	33			0	20	
	Truck 8t	man. day	0.6			0	33			0	20	
	Sub Total									0	136	
3	Equipment											
	Truck crane 16t	day	0.6				9,480	0		5688	0	
	Concrete mixer 0.6m3	day	0.6				6,480	0		3,888	0	
	Generator 45KVA	day	0.6				1,080	0		648	0	
	Truck 8t	day	0.6				3,480	0		2,088	0	
	Vibrator	day	0.6				120	0		72	0	
	Sub Total									12,384	0	
Total										12,384	9,305	
Unit Price per No.										165.12	124.06	
INDIRECT COST										15%	24.77	18.61
TOTAL										190	142.67	

LA UNION PORT DEVELOPMENT PROJECT

4C030207

FC: YBN

LC: US\$

Total estimate for 75 Nos

Backfill sand & Compaction

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Backfill sand	m3	22.6	0	4.00					0	90	
	Wasted Backfill sand (25%)	m3	5.65	0	4.00					0	23	
	Fuel Backhoe 0.8m3	day	0.1	0	95					0	10	
	" Tire roller 8-20t	day	0.1	0	55					0	6	
	" Tampa 60kg	day	0.1	0	2					0	0	
	Sub Total									0	128	
2	Labor											
	Foreman	man. day	0.1			0	38.20			0	4	
	Labor	man. day	0.2			0	14.30			0	3	
	Backhoe 0.8m3	man. day	0.1			0	33			0	3	
	Tire roller 8-20t	man. day	0.1			0	33			0	3	
	Sub Total									0	13	
3	Equipment											
	Backhoe 0.8m3	day	0.1					11,280	0	1,128	0	
	Tire roller 8-20t	day	0.1					3,360	0	336	0	
	Tampa 60kg	day	0.1					212	0	21	0	
	Sub Total									1,485	0	
Total										1,485	141	
Unit Price per No.										19.80	1.89	
INDIRECT COST										15%	2.97	0.28
TOTAL										23	2.17	

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C0302

FC: YEN

LC: US\$

Truck crane 16t per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	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					0	0
	Sub Total									0	77
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 with crane 8t	day	1					9480	0	9,480	0
	Sub Total									9,480	0
	Total									9,480	110

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

100ps x 0.2 x 6 x 1.05

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C0302

FC: YEN

Truck 8t per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	233.00	0	0.33					0	77
	Others	L. S.	1	0	3.00					0	3
	Sub Total									0	80
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 8t	day	1					3480	0	3,480	0
	Sub Total									3,480	0
	Total									3,480	113

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

4C0302-2

APPENDIX-3. EQUIPMENT COST
LA UNION PORT DEVELOPMENT PROJECT

4C0302

FC: YEN

Dump truck 10t per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				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
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	0
	Sub Total									6,720	0
	Total									6,720	138

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

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C0302

FC: YEN

Generator 45KVA per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				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									0	24
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										
	Generator 45KVA	day	1					1080	0	1,080	0
	Sub Total									1,080	0
	Total									1,080	57

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

4C0302-4

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C0302

FC: YEN

LC: US\$

Backhoe 0.8 m3 per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		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			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Backhoe 0.8m3	day	1					11280	0	11,280	0
	Sub Total									11,280	0
	Total									11,280	128

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

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT

4C0302

FC: YEN

Tire roller 8-20t per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	161.00	0	0.33					0	53
	Others	L. S.	1	0	2.00					0	2
	Sub Total									0	55
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										
	Tire roller 8-20t	day	1					3360	0	3,360	0
	Sub Total									3,360	0
	Total									3,360	88

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

4C0302-6

APPENDIX-3. EQUIPMENT COST
LA UNION PORT DEVELOPMENT PROJECT

4C0302

FC: YEN

Tampa 60-100kg per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				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	0.00					0	0
	Sub Total									0	2
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										
	Tampa	day	1					212.4	0	212.40	0
	Sub Total									212.40	0
	Total									212.40	35

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

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C0302

Concrete Mixer 0.6m3 per day

FC: YEN

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	0	0	0.33					0	0
	Others	L.S.	1	0	0.00					0	0
	Sub Total									0	0
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										
	Concrete Mixer 0.6m3	day	1					6480	0	6,480.00	0
	Sub Total									6,480.00	0
	Total									6,480.00	33

4C0302-8

PORT REACTIVATION PROJECT IN LA UNION PROVINCE

4C04

FC: YEN

OIL SEPARATOR

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
						Amount	
				FC	LC	FC	LC
4C0401	Excavation & Disposal	Nos.	1	64,584.00	1,308.04	64,584	1,308.04
4C0402	Crushed Stone for Foundation	Nos.	1	3,964.88	118.13	3,965	118.13
4C0403	Lean Concrete	Nos.	1	264.96	24.45	265	24.45
4C0404	Reinforcement & Flap Valve	Nos.	1	101,016.00	5,686.96	101,016	5,686.96
4C0405	Corner Angle	Nos.	1	8,135.93	1,002.15	8,136	1,002.15
4C0406	Concrete Placing	Nos.	1	43,801.20	9,863.26	43,801	9,863.26
4C0407	Backfill Sand & Compaction	Nos.	1	17,080.26	360.61	17,080	360.61
	Total					238,847	18,363.59
Unit Price per No.:						238,847	18,363.59

LA UNION PORT DEVELOPMENT PROJECT

4C0401

FC: YEN

Excavation & Disposal for Oil Separator

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Excavation & Disposal	m3	569	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	2	0	95					0	191	
	" Dump truck 10t	day	5.0	0	105					0	525	
	Sub Total									0	716	
2	Labor											
	Foreman	man. day	2			0	38.20			0	76	
	Labor	man. day	8			0	14.30			0	114	
	Backhoe 0.8m3	man. day	2			0	33			0	66	
	Dump truck 10t	man. day	5			0	33			0	165	
	Sub Total									0	422	
3	Equipment											
	Backhoe 0.8m3	day	2					11,280	0	22,560	0	
	Dump truck 10t	day	5					6,720	0	33,600	0	
	Sub Total									56,160	0	
Total										56,160	1,137	
Unit Price per No.										56,160.00	1,137.43	
INDIRECT COST										15%	8,424.00	170.61
TOTAL										64,584	1,308.04	

LA UNION PORT DEVELOPMENT PROJECT

4C0402

FC: YEN

Crushed stone for Foundation of Oil Separator

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Crushed stone	m3	5.44	0	5.16					0	28.07	
	Wasted crushed stone (25%)	m3	1.36	0	5.16					0	7.02	
	Fuel Backhoe 0.8m3	day	0.3	0	95					0	28.62	
	" Tampa 60kg	day	0.3	0	2					0	0.50	
	Sub Total									0	64.20	
2	Labor											
	Foreman	man. day	0.3			0	38.20			0	11.46	
	Labor	man. day	1.2			0	14.30			0	17.16	
	Backhoe 0.8m3	man. day	0.3			0	33			0	9.90	
	Sub Total									0	38.52	
3	Equipment											
	Backhoe 0.8m3	day	0.3					11,280	0	3,384.00	0	
	Tampa 60kg	day	0.3					212.40	0	63.72	0	
	Sub Total									3,448	0	
Total										3,448	103	
Unit Price per No.										3,447.72	102.72	
INDIRECT COST										15%	517.16	15.41
TOTAL										3,965	118.13	

PORT REACTIVATION PROJECT IN LA UNION PROVINCE

4C0403

FC: YEN

Lean Concrete

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Ready mixed concrete	m3	2.38	0	65.00					0	155	
	Wasted concrete (1.5%)	m3	0.04	0	65.00					0	2	
	Fuel Concrete mixer 0.6m3	day	0.3	0	0					0	0	
	“ Generator 45KVA	day	0.3	0	24					0	7	
	Sub Total									0	164	
2	Labor											
	Foreman	man. day	0.3			0	38.20			0	11	
	Labor	man. day	1.2			0	14.30			0	17	
	Concrete mixer 0.6m3	day	0.3			0	33			0	10	
	Generator 45KVA	day	0.3			0	33			0	10	
	Sub Total									0	48	
3	Equipment											
	Concrete mixer 0.6m3	day	0.3					6,480	0	1944	0	
	Generator 45KVA	day	0.3					1,080	0	324	0	
	Vibrator	day	0.3					120	0	36	0	
	Sub Total									2,304	0	
Total										2,304	213	
Unit Price per No.										230.40	21.26	
INDIRECT COST										15%	34.56	3.19
TOTAL										265	24.45	

LA UNION PORT DEVELOPMENT PROJECT

4C0404

FC: YEN

LC: US\$

Total estimate for 1 No.

Reinforcement

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Steel bar	ton	3.66	0	360.00					0	1,318	
	Wasted steel bar(1.5%)	ton	0.05	0	360.00					0	20	
	Fuel Truck crane 16t	day	6	0	77					0	459	
	Truck 8t	day	6	0	80					0	479	
	Generator 45KVA	day	8	0	24					0	190	
	Sub Total									0	2,466	
2	Labor											
	Foreman	man. day	8			0	38.20			0	306	
	Labor	man. day	80			0	14.30			0	1,144	
	Welder	man. day	16			0	23.09			0	369	
	Truck crane 16t	man. day	6			0	33			0	198	
	Truck 8t	man. day	6			0	33			0	198	
	Generator 45KVA	man. day	8			0	33			0	264	
	Sub Total									0	2,479	
3	Equipment											
	Truck crane 16t	day	6				9,480	0	56880		0	
	Truck 8t	day	6				3,480	0	20,880		0	
	Generator 45KVA	day	8				1,080	0	8,640		0	
	Bar cutter	day	6				120	0	720		0	
	Bar bender	day	6				120	0	720		0	
	Sub Total								87,840		0	
Total										87,840	4,945	
Unit Price per No.										87,840.00	4,945.18	
INDIRECT COST										15%	13,176.00	741.78
TOTAL										101,016	5,686.96	

LA UNION PORT DEVELOPMENT PROJECT

4C0405

FC: YEN

LC: US\$

Cover, corner angle and others for Manhole

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Cast iron cover	Nos	3	0	117.6					0	353	
	Non corrosive metal mesh	Nos	1	0	11					0	11	
	Steps	kg	35	0	0.54					0	19	
	Ventilation pipe Dia.100x2	Nos	2	0	80					0	160	
	Coner angle	kg	310	0	0.36					0	112	
	Wasted corner angle(2%)	kg	6.2	0	0.36					0	2	
	Miscellaneous	L. S.	1	0	2.28					0	2	
	Fuel Truck 8t	day	1.2	0	80					0	96	
	Generator 45KVA	day	2.3	0	24					0	55	
	Sub Total									0	267	
2	Labour											
	Foreman	man. day	2.3			0	38.20			0	88	
	Labor	man. day	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			0	33			0	76	
	Sub Total									0	605	
3	Equipment											
	Truck 8t	day	1.2					3,480	0	4,176	0	
	Generator 45KVA	day	2.3					1,080	0	2,484	0	
	Welder 300A	day	2.3					120	0	276	0	
	Other equipment	L. S.	1					139	0	139	0	
	Sub Total									7,075	0	
Total										7,075	871	
Unit Price per No.										7,074.72	871.43	
INDIRECT COST										15%	1,061.21	130.72
TOTAL										8,136	1,002.15	

LA UNION PORT DEVELOPMENT PROJECT

4C0406

FC: YEN

LC: US\$

Total estimate for 1 No.

Concrete Placing

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Ready mixed concrete	m3	80.24	0	70.00					0	5,617	
	Wasted concrete(5%)	m3	4.68	0	70.00					0	328	
	Formwork	m2	355	0	5.50					0	1,953	
	Fuel Truck crane 16t	day	2.2	0	77					0	168	
	" Concrete mixer 0.6m3	day	2.2	0	0					0	0	
	" Generator 45KVA	day	2.2	0	24					0	52	
	Sub Total									0	8,118	
2	Labour											
	Foreman	man. day	2.2			0	38.20			0	84	
	Labor	man. day	11.0			0	14.30			0	157	
	Truck crane 16t	man. day	2.2			0	33			0	73	
	Concrete mixer 0.6m3	man. day	2.2			0	33			0	73	
	Generator 45KVA	man. day	2.2			0	33			0	73	
	Sub Total									0	459	
3	Equipment											
	Truck crane 16t	day	2.2					9,480	0	20856	0	
	Concrete mixer 0.6m3	day	2.2					6,480	0	14,256	0	
	Generator 45KVA	day	2.2					1,080	0	2,376	0	
	Vibrator	day	5					120	0	600	0	
	Sub Total									38,088	0	
Total										38,088	8,577	
Unit Price per No.										38,088.00	8,576.74	
INDIRECT COST										15%	5,713.20	1,286.51
TOTAL										43,801	9,863.26	

LA UNION PORT DEVELOPMENT PROJECT

4C0407

FC: YEN

Backfill sand & Compaction

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Backfill sand	m3	387	0	0.00					0	0	
	Wasted Backfill sand (25%)	m3	0	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	1	0	95					0	95	
	" Tire roller 8-20t	day	1.0	0	55					0	55	
	" Tampa 60kg	day	1.0	0	2					0	2	
	Sub Total									0	152	
2	Labour											
	Foreman	man. day	1			0	38.20			0	38	
	Labor	man. day	4			0	14.30			0	57	
	Backhoe 0.8m3	man. day	1			0	33			0	33	
	Tire roller 8-20t	man. day	1			0	33			0	33	
	Sub Total									0	161	
3	Equipment											
	Backhoe 0.8m3	day	1					11,280	0	11,280	0	
	Tire roller 8-20t	day	1					3,360	0	3,360	0	
	Tampa 60kg	day	1					212	0	212	0	
	Sub Total									14,852	0	
Total										14,852	314	
Unit Price per No.										14,852.40	313.57	
INDIRECT COST										15%	2,227.86	47.04
TOTAL										17,080	360.61	

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C04
 Truck crane 16t per day

FC: YEN
 LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	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					0	0
	Sub Total									0	77
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 with crane 8t	day	1					9480	0	9,480	0
	Sub Total									9,480	0
	Total									9,480	110

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

100ps x 0.2 x 6 x 1.05

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C04

FC: YEN

Truck 8t per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	233.00	0	0.33					0	77
	Others	L.S.	1	0	3.00					0	3
	Sub Total									0	80
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 8t	day	1					3480	0	3,480	0
	Sub Total									3,480	0
	Total									3,480	113

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

4C04-2

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C04

FC: YEN

Dump truck 10t /day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				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
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										
	Dump truck 10t	day	1					6720	0	6,720	0
	Sub Total									6,720	0
	Total									6,720	138

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

APPENDIX-3. EQUIPMENT COST
LA UNION PORT DEVELOPMENT PROJECT

4C04

FC: YEN

LC: US\$

Generator 45KVA per day

No.	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				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									0	24
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										
	Generator 45KVA	day	1					1080	0	1,080	0
	Sub Total									1,080	0
	Total									1,080	57

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

4C04-4

APPENDIX-3. EQUIPMENT COST.
 LA UNION PORT DEVELOPMENT PROJECT
 4C04

FC: YEN

LC: US\$

Backhoe 0.8 m3 per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		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	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										
	Backhoe 0.8m3	day	1					11280	0	11,280	0
	Sub Total									11,280	0
	Total									11,280	128

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

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C04

FC: YEN

LC: US\$

Tire roller 8-20t per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	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	1			0	33.00			0	33
	Others	L.S.	1			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Tire roller 8-20t	day	1					3360	0	3,360	0
	Sub Total									3,360	0
	Total									3,360	88

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

4C04-6

APPENDIX-3. EQUIPMENT COST
LA UNION PORT DEVELOPMENT PROJECT

4C04

FC: YEN

Tampa 60-100kg per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				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	0.00					0	0
	Sub Total									0	2
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										
	Tampa	day	1					212.4	0	212.40	0
	Sub Total									212.40	0
	Total									212.40	35

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

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C04

Concrete Mixer 0.6m3 per day

FC: YEN

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	0	0	0.33					0	0
	Others	L. S.	1	0	0.00					0	0
	Sub Total									0	0
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										
	Concrete Mixer 0.6m3	day	1					6480	0	6,480.00	0
	Sub Total									6,480.00	0
	Total									6,480.00	33

4C04-8

PORT REACTIVATION PROJECT IN LA UNION PROVINCE

4C041

FC: YEN

OIL SEPARATOR (Route A)

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
						Amount	
				FC	LC	FC	LC
4C04101	Excavation & Disposal	Nos.	1	421,054.56	9,328.78	421,055	9,328.78
4C04102	Crushed Stone for Foundation	Nos.	1	6,780.08	237.02	6,780	237.02
4C04103	Lean Concrete	Nos.	1	264.96	69.36	265	69.36
4C04104	Reinforcement & Flap Valve	Nos.	1	101,016.00	8,855.35	101,016	8,855.35
4C04105	Corner Angle	Nos.	1	1,498,535.93	1,626.25	1,498,536	1,626.25
4C04106	Concrete Placing	Nos.	1	79,488.00	22,008.33	79,488	22,008.33
4C04107	Backfill Sand & Compaction	Nos.	1	105,857.04	1,415.02	105,857	1,415.02
	Total					2,212,997	43,540.11
				Unit Price per No.		2,212,997	43,540.11

LA UNION PORT DEVELOPMENT PROJECT

4C04101

FC: YEN

Excavation & Disposal for Oil Separator

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Excavation & Disposal	m3	2209	0	0.00					0	0	
	Steel sheet pile(5%)	ton	58	0	35.00					0	2,030	
	Other materials	ton	5.8	0	35.00					0	203	
	Fuel Backhoe 1.5m3	day	6	0	170					0	1,020	
	" Dump truck 10t	day	24	0	105					0	2,519	
	" Truck crane 16t	day	4	0	77					0	306	
	" Generator 100KVA	day	4	0	52					0	207	
	Sub Total									0	6,286	
2	Labor											
	Foreman	man. day	6			0	36.20			0	229	
	Labor	man. day	24			0	14.30			0	343	
	Backhoe 1.5m3	man. day	6			0	33			0	198	
	Dump truck 10t	man. day	24			0	33			0	792	
	Truck crane 16	man. day	4			0	33			0	132	
	Generator 100KVA	man. day	4			0	33			0	132	
	Sub Total									0	1,826	
3	Equipment											
	Backhoe 1.5m3	day	6					19,440	0	116,640	0	
	Dump truck 10t	day	24					6,720	0	161,280	0	
	Truck crane 16	day	4					9,480	0	37,920	0	
	Generator 100KVA	day	4					1,800	0	7,200	0	
	Vibrohammer 60kw	day	4					10,560	0	42,240	0	
	Submersible pump 80mm	day	4					213.60	0	854	0	
	Sub Total									366,134	0	
Total										366,134	8,112	
Unit Price per No.										366,134.40	8,111.98	
INDIRECT COST										15%	54,920.16	1,216.80
TOTAL										421,055	9,328.78	

LA UNION PORT DEVELOPMENT PROJECT

4C04102

FC: YEN

Crushed stone for Foundation of Oil Separator

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Crushed stone	m3	18.00	0	5.16					0	92.88	
	Wasted crushed stone (25%)	m3	4.50	0	5.16					0	23.22	
	Fuel Backhoe 1.5m3	day	0.3	0	170					0	50.99	
	" Tampa 60kg	day	0.3	0	2					0	0.50	
	Sub Total									0	167.59	
2	Labor											
	Foreman	man. day	0.3			0	38.20			0	11.46	
	Labor	man. day	1.2			0	14.30			0	17.16	
	Backhoe 1.5m3	man. day	0.3			0	33			0	9.90	
	Sub Total									0	38.52	
3	Equipment											
	Backhoe 1.5m3	day	0.3					19,440	0	5,832.00	0	
	Tampa 60kg	day	0.3					212.40	0	63.72	0	
	Sub Total									5,896	0	
Total										5,896	206	
Unit Price per No.										5,895.72	206.11	
INDIRECT COST										15%	884.36	30.92
TOTAL										6,780	237.02	

PORT REACTIVATION PROJECT IN LA UNION PROVINCE

4C04103

FC: YEN

Lean Concrete

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Ready mixed concrete	m3	8.30	0	65.00					0	540	
	Wasted concrete(1.5%)	m3	0.12	0	65.00					0	8	
	Fuel Concrete mixer 0.6m3	day	0.3	0	0					0	0	
	Generator 45KVA	day	0.3	0	24					0	7	
	Sub Total									0	555	
2	Labor											
	Foreman	man. day	0.3			0	38.20			0	11	
	Labor	man. day	1.2			0	14.30			0	17	
	Concrete mixer 0.6m3	day	0.3			0	33			0	10	
	Generator 45KVA	day	0.3			0	33			0	10	
	Sub Total									0	48	
3	Equipment											
	Concrete mixer 0.6m3	day	0.3					6,480	0	1944	0	
	Generator 45KVA	day	0.3					1,080	0	324	0	
	Vibrator	day	0.3					120	0	36	0	
	Sub Total									2,304	0	
Total										2,304	603	
Unit Price per No.										230.40	60.31	
INDIRECT COST										15%	34.56	9.05
TOTAL										265	69.36	

LA UNION PORT DEVELOPMENT PROJECT

4C04104

FC: YEN

Reinforcement

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Steel bar	ton	11.20	0	360.00					0	4,032	
	Wasted steel bar(1.5%)	ton	0.17	0	360.00					0	60	
	Fuel Truck crane 16t	day	6	0	77					0	459	
	" Truck. 8t	day	6	0	80					0	479	
	" Generator 45KVA	day	8	0	24					0	190	
	Sub Total									0	5,221	
2	Labor											
	Foreman	man. day	8			0	38.20			0	306	
	Labor	man. day	80			0	14.30			0	1,144	
	Welder	man. day	16			0	23.09			0	369	
	Truck crane 16t	man. day	6			0	33			0	198	
	Truck 8t	man. day	6			0	33			0	198	
	Generator 45KVA	man. day	8			0	33			0	264	
	Sub Total									0	2,479	
3	Equipment											
	Truck crane 16t	day	6					9,480	0	56880	0	
	Truck 8t	day	6					3,480	0	20,880	0	
	Generator 45KVA	day	8					1,080	0	8,640	0	
	Bar cutter	day	6					120	0	720	0	
	Bar bender	day	6					120	0	720	0	
	Sub Total									87,840	0	
Total										87,840	7,700	
Unit Price per No.										87,840.00	7,700.30	
INDIRECT COST										15%	13,176.00	1,155.05
TOTAL										101,016	8,855.35	

LA UNION PORT DEVELOPMENT PROJECT

4C04105

FC: YEN

Cover, corner angle and others for Manhole

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Non return valve and other	Nos	1	1,296,000	0					1296000	0	
	Cast iron cover	Nos	3	0	117.6					0	353	
	Non corrosive metal mesh	Nos	1	0	11					0	11	
	Steps	kg	35	0	0.54					0	19	
	Ventilation pipe Dia.100x2	Nos	2	0	80					0	160	
	Coner angle	kg	310	0	0.36					0	112	
	Wasted corner angle(2%)	kg	6.2	0	0.36					0	2	
	Miscellaneous	L. S.	1	0	2.28					0	2	
	Fuel Truck 8t	day	1.2	0	80					0	96	
	Generator 45KVA	day	2.3	0	24					0	55	
	Sub Total									1296000	809	
2	Labour											
	Foreman	man. day	2.3			0	38.20			0	88	
	Labor	man. day	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			0	33			0	76	
	Sub Total									0	605	
3	Equipment											
	Truck 8t	day	1.2					3,480	0	4,176	0	
	Generator 45KVA	day	2.3					1,080	0	2,484	0	
	Welder 300A	day	2.3					120	0	276	0	
	Other equipment	L. S.	1					139	0	139	0	
	Sub Total									7,075	0	
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
TOTAL										1,498,536	1,626.25	

LA UNION PORT DEVELOPMENT PROJECT

4C04106

FC: YEN

LC: US\$

Total estimate for 1 No.

Concrete Placing

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Ready mixed concrete	m3	186.00	0	70.00					0	13,020	
	Wasted concrete(5%)	m3	4.68	0	70.00					0	328	
	Formwork	m2	724	0	5.50					0	3,982	
	Fuel Truck crane 16t	day	4	0	77					0	306	
	" Concrete mixer 0.6m3	day	4	0	0					0	0	
	" Generator 45KVA	day	4.0	0	24					0	95	
	Sub Total									0	17,731	
2	Labour											
	Foreman	man. day	4			0	38.20			0	153	
	Labor	man. day	60.0			0	14.30			0	858	
	Truck crane 16t	man. day	4			0	33			0	132	
	Concrete mixer 0.6m3	man. day	4			0	33			0	132	
	Generator 45KVA	man. day	4			0	33			0	132	
	Sub Total									0	1,407	
3	Equipment											
	Truck crane 16t	day	4					9,480	0	37,920	0	
	Concrete mixer 0.6m3	day	4					6,480	0	25,920	0	
	Generator 45KVA	day	4					1,080	0	4,320	0	
	Vibrator	day	8					120	0	960	0	
	Sub Total									69,120	0	
Total										69,120	19,138	
Unit Price per No.										69,120.00	19,137.68	
INDIRECT COST										15%	10,368.00	2,870.65
TOTAL										79,488	22,008.33	

LA UNION PORT DEVELOPMENT PROJECT

4C04107

Backfill sand & Compaction

FC: YEN

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Backfill sand	m3	1700	0	0.00					0	0	
	Wasted Backfill sand (25%)	m3	0	0	0.00					0	0	
	Fuel Backhoe 1.5m3	day	3	0	170					0	510	
	" Tire roller 8-20t	day	3.0	0	55					0	165	
	" Tampa 60kg	day	3.0	0	2					0	5	
	Sub Total									0	680	
2	Labour											
	Foreman	man. day	3			0	38.20			0	115	
	Labor	man. day	12			0	14.30			0	172	
	Backhoe 1.5m3	man. day	4			0	33			0	132	
	Tire roller 8-20t	man. day	4			0	33			0	132	
	Sub Total									0	550	
3	Equipment											
	Backhoe 1.5m3	day	4					19,440	0	77,760	0	
	Tire roller 8-20t	day	4					3,360	0	13,440	0	
	Tampa 60kg	day	4					212	0	850	0	
	Sub Total									92,050	0	
Total										92,050	1,230	
Unit Price per No.										92,049.60	1,230.45	
INDIRECT COST										15%	13,807.44	184.57
TOTAL										105,857	1,415.02	

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C041
 Truck crane 16t per day

FC: YEN

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	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					0	0
	Sub Total									0	77
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 with crane 8t	day	1					9480	0	9,480	0
	Sub Total									9,480	0
	Total									9,480	110

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

100ps x 0.2 x 6 x 1.05

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C041

FC: YEN

Truck 8t per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	233.00	0	0.33					0	77
	Others	L.S.	1	0	3.00					0	3
	Sub Total									0	80
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 8t	day	1					3480	0	3,480	0
	Sub Total									3,480	0
	Total									3,480	113

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

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C041
 Dump truck 10t /day

FC: YEN

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				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
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										
	Dump truck 10t	day	1					6720	0	6,720	0
	Sub Total									6,720	0
	Total									6,720	138

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

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C041

FC: YEN

Generator 45KVA per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				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									0	24
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										
	Generator 45KVA	day	1					1080	0	1,080	0
	Sub Total									1,080	0
	Total									1,080	57

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

4C041-4

APPENDIX-3. EQUIPMENT COST
LA UNION PORT DEVELOPMENT PROJECT

4C041

FC: YEN

Backhoe 1.5 m3 per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	509.00	0	0.33					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
	Sub Total									0	33
3	Equipment										
	Backhoe 1.5m3	day	1					19440	0	19,440	0
	Sub Total									19,440	0
	Total									19,440	203

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

APPENDIX-3. EQUIPMENT COST
LA UNION PORT DEVELOPMENT PROJECT

4C041

FC: YEN

Tire roller 8-20t per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	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	1			0	33.00			0	33
	Others	L.S.	1			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Tire roller 8-20t	day	1					3360	0	3,360	0
	Sub Total									3,360	0
	Total									3,360	88

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

4C041-6

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C041

FC: YEN

LC: US\$

Tampa 60-100kg per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				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	0.00					0	0
	Sub Total									0	2
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										
	Tampa	day	1					212.4	0	212.40	0
	Sub Total									212.40	0
	Total									212.40	35

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

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C041

FC: YEN

Concrete Mixer 0.6m3 per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	0	0	0.33					0	0
	Others	L.S.	1	0	0.00					0	0
	Sub Total									0	0
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										
	Concrete Mixer 0.6m3	day	1					6480	0	6,480.00	0
	Sub Total									6,480.00	0
	Total									6,480.00	33

4C041-8

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C041

FC: YEN

LC: US\$

Generator 100KVA per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		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									0	52
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										
	Generator 100KVA	day	1					1800	0	1,800	0
	Sub Total									1,800	0
	Total									1,800	85

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

PORT REACTIVATION PROJECT IN LA UNION PROVINCE

4C042

FC: YEN

OIL SEPARATOR(Route B)

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
						Amount	
				FC	LC	FC	LC
4C04201	Excavation & Disposal	Nos.	1	474,322.56	10,306.56	474,323	10,306.56
4C04202	Crushed Stone for Foundation	Nos.	1	6,780.08	263.72	6,780	263.72
4C04203	Lean Concrete	Nos.	1	264.96	83.02	265	83.02
4C04204	Reinforcement & Flap Valve	Nos.	1	101,016.00	9,666.35	101,016	9,666.35
4C04205	Corner Angle	Nos.	1	1,498,535.93	1,626.25	1,498,536	1,626.25
4C04206	Concrete Placing	Nos.	1	88,803.00	25,654.02	88,803	25,654.02
4C04207	Backfill Sand & Compaction	Nos.	1	105,857.04	1,785.49	105,857	1,785.49
	Total					2,275,580	49,385.42
Unit Price per No.						2,275,580	49,385.42

LA UNION PORT DEVELOPMENT PROJECT

4C04201

FC: YEN

LC: US\$

Excavation & Disposal for Oil Separator

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Excavation & Disposal	m3	2923	0	0.00					0	0	
	Steel sheet pile(5%)	ton	58	0	35.00					0	2,030	
	Other materials	ton	5.8	0	35.00					0	203	
	Fuel Backhoe 1.5m3	day	7	0	170					0	1,190	
	Dump truck 10t	day	28	0	105					0	2,939	
	Truck crane 16t	day	4	0	77					0	306	
	Generator 100KVA	day	4	0	52					0	207	
	Sub Total									0	6,875	
2	Labor											
	Foreman	man.day	7			0	38.20			0	267	
	Labor	man.day	28			0	14.30			0	400	
	Backhoe 1.5m3	man.day	7			0	33			0	231	
	Dump truck 10t	man.day	28			0	33			0	924	
	Truck crane 16	man.day	4			0	33			0	132	
	Generator 100KVA	man.day	4			0	33			0	132	
	Sub Total									0	2,087	
3	Equipment											
	Backhoe 1.5m3	day	7					19,440	0	136,080	0	
	Dump truck 10t	day	28					6,720	0	188,160	0	
	Truck crane 16	day	4					9,480	0	37,920	0	
	Generator 100KVA	day	4					1,800	0	7,200	0	
	Vibrohammer 60kw	day	4					10,560	0	42,240	0	
	Submersible pump 80mm	day	4					213.60	0	854	0	
	Sub Total									412,454	0	
Total										412,454	8,962	
Unit Price per No.										412,454.40	8,962.23	
INDIRECT COST										15%	61,868.16	1,344.33
TOTAL										474,323	10,306.56	

LA UNION PORT DEVELOPMENT PROJECT

4C04202

FC: YEN

Crushed stone for Foundation of Oil Separator

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Crushed stone	m3	21.60	0	5.16					0	111.46	
	Wasted crushed stone (25%)	m3	5.40	0	5.16					0	27.86	
	Fuel Backhoe 1.5m3	day	0.3	0	170					0	50.99	
	Tampa 60kg	day	0.3	0	2					0	0.50	
	Sub Total									0	190.81	
2	Labor											
	Foreman	man. day	0.3			0	38.20			0	11.46	
	Labor	man. day	1.2			0	14.30			0	17.16	
	Backhoe 1.5m3	man. day	0.3			0	33			0	9.90	
	Sub Total									0	38.52	
3	Equipment											
	Backhoe 1.5m3	day	0.3					19,440	0	5,832.00	0	
	Tampa 60kg	day	0.3					212.40	0	63.72	0	
	Sub Total									5,896	0	
Total										5,896	229	
Unit Price per No.										5,895.72	229.33	
INDIRECT COST										15%	884.36	34.40
TOTAL										6,780	263.72	

PORT REACTIVATION PROJECT IN LA UNION PROVINCE

4C04203

FC: YEN

LC: US\$

Total estimate for 1 No.

Lean Concrete

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Ready mixed concrete	m3	10.10	0	65.00					0	657	
	Wasted concrete(1.5%)	m3	0.15	0	65.00					0	10	
	Fuel Concrete mixer 0.6m3	day	0.3	0	0					0	0	
	Generator 45KVA	day	0.3	0	24					0	7	
	Sub Total									0	673	
2	Labor											
	Foreman	man. day	0.3			0	38.20			0	11	
	Labor	man. day	1.2			0	14.30			0	17	
	Concrete mixer 0.6m3	day	0.3			0	33			0	10	
	Generator 45KVA	day	0.3			0	33			0	10	
	Sub Total									0	48	
3	Equipment											
	Concrete mixer 0.6m3	day	0.3					6,480	0	1944	0	
	Generator 45KVA	day	0.3					1,080	0	324	0	
	Vibrator	day	0.3					120	0	36	0	
	Sub Total									2,304	0	
Total										2,304	722	
Unit Price per No.										230.40	72.19	
INDIRECT COST										15%	34.56	10.83
TOTAL										265	83.02	

LA UNION PORT DEVELOPMENT PROJECT

4C04204

FC: YEN

Reinforcement

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Steel bar	ton	13.13	0	360.00					0	4,727	
	Wasted steel bar(1.5%)	ton	0.20	0	360.00					0	71	
	Fuel Truck crane 16t	day	6	0	77					0	459	
	" Truck 8t	day	6	0	80					0	479	
	" Generator 45KVA	day	8	0	24					0	190	
	Sub Total									0	5,926	
2	Labor											
	Foreman	man. day	8			0	38.20			0	306	
	Labor	man. day	80			0	14.30			0	1,144	
	Welder	man. day	16			0	23.09			0	369	
	Truck crane 16t	man. day	6			0	33			0	198	
	Truck 8t	man. day	6			0	33			0	198	
	Generator 45KVA	man. day	8			0	33			0	264	
	Sub Total									0	2,479	
3	Equipment											
	Truck crane 16t	day	6					9,480	0	56880	0	
	Truck 8t	day	6					3,480	0	20,880	0	
	Generator 45KVA	day	8					1,080	0	8,640	0	
	Bar cutter	day	6					120	0	720	0	
	Bar bender	day	6					120	0	720	0	
	Sub Total									87,840	0	
Total										87,840	8,406	
Unit Price per No.										87,840.00	8,405.52	
INDIRECT COST										15%	13,176.00	1,260.83
TOTAL										101,016	9,666.35	

LA UNION PORT DEVELOPMENT PROJECT

4C04205

FC: YEN

LC: US\$

Cover, corner angle and others for Manhole

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Non return valve and other	Nos	1	1,296,000	0					1296000	0	
	Cast iron cover	Nos	3	0	117.6					0	353	
	Non corrosive metal mesh	Nos	1	0	11					0	11	
	Steps	kg	35	0	0.54					0	19	
	Ventilation pipe Dia. 100x2	Nos	2	0	80					0	160	
	Coner angle	kg	310	0	0.36					0	112	
	Wasted corner angle(2%)	kg	6.2	0	0.36					0	2	
	Miscellaneous	L. S.	1	0	2.28					0	2	
	Fuel Truck 8t	day	1.2	0	80					0	96	
	Generator 45KVA	day	2.3	0	24					0	55	
	Sub Total									1296000	809	
2	Labour											
	Foreman	man. day	2.3			0	38.20			0	88	
	Labor	man. day	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			0	33			0	76	
	Sub Total									0	605	
3	Equipment											
	Truck 8t	day	1.2					3,480	0	4,176	0	
	Generator 45KVA	day	2.3					1,080	0	2,484	0	
	Welder 300A	day	2.3					120	0	276	0	
	Other equipment	L. S.	1					139	0	139	0	
	Sub Total									7,075	0	
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
TOTAL										1,498,536	1,626.25	

LA UNION PORT DEVELOPMENT PROJECT

4C04206

FC: YEN

Concrete Placing

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Ready mixed concrete	m3	219.00	0	70.00					0	15,330	
	Wasted concrete (5%)	m3	4.68	0	70.00					0	328	
	Formwork	m2	838	0	5.50					0	4,609	
	Fuel Truck crane 16t	day	4.5	0	77					0	345	
	Concrete mixer 0.6m3	day	4.5	0	0					0	0	
	Generator 45KVA	day	4.5	0	24					0	107	
	Sub Total									0	20,718	
2	Labour											
	Foreman	man. day	4.5			0	38.20			0	172	
	Labor	man. day	68.0			0	14.30			0	972	
	Truck crane 16t	man. day	4.5			0	33			0	149	
	Concrete mixer 0.6m3	man. day	4.5			0	33			0	149	
	Generator 45KVA	man. day	4.5			0	33			0	149	
	Sub Total									0	1,590	
3	Equipment											
	Truck crane 16t	day	4.5					9,480	0	42,660	0	
	Concrete mixer 0.6m3	day	4.5					6,480	0	29,160	0	
	Generator 45KVA	day	4.5					1,080	0	4,860	0	
	Vibrator	day	4.5					120	0	540	0	
	Sub Total									77,220	0	
Total										77,220	22,308	
Unit Price per No.										77,220.00	22,307.84	
INDIRECT COST										15%	11,583.00	3,346.18
TOTAL										88,803	25,654.02	

LA UNION PORT DEVELOPMENT PROJECT

4C04207

FC: YEN

LC: US\$

Backfill sand & Compaction

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Backfill sand	m3	2305	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									0	907	
2	Labour											
	Foreman	man. day	4			0	38.20			0	153	
	Labor	man. day	16			0	14.30			0	229	
	Backhoe 1.5m3	man. day	4			0	33			0	132	
	Tire roller 8-20t	man. day	4			0	33			0	132	
	Sub Total									0	646	
3	Equipment											
	Backhoe 1.5m3	day	4					19,440	0	77,760	0	
	Tire roller 8-20t	day	4					3,360	0	13,440	0	
	Tampa 60kg	day	4					212	0	850	0	
	Sub Total									92,050	0	
Total										92,050	1,553	
Unit Price per No.										92,049.60	1,552.60	
INDIRECT COST										15%	13,807.44	232.89
TOTAL										105,857	1,785.49	

APPENDIX-3. EQUIPMENT COST
LA UNION PORT DEVELOPMENT PROJECT

4C042

FC: YEN

Truck crane 16t per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	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					0	0
	Sub Total									0	77
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 with crane 8t	day	1					9480	0	9,480	0
	Sub Total									9,480	0
	Total									9,480	110

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

100ps x 0.2 x 6 x 1.05

4C042-1

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C042

FC: YEN

LC: US\$

Truck 8t per day

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	233.00	0	0.33					0	77
	Others	L. S.	1	0	3.00					0	3
	Sub Total									0	80
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 8t	day	1					3480	0	3,480	0
	Sub Total									3,480	0
	Total									3,480	113

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

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C042

FC: YEN

Dump truck 10t /day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				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
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										
	Dump truck 10t	day	1					6720	0	6,720	0
	Sub Total									6,720	0
	Total									6,720	138

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

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C042
 Generator 45KVA per day

FC: YEN
 LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				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									0	24
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										
	Generator 45KVA	day	1					1080	0	1,080	0
	Sub Total									1,080	0
	Total									1,080	57

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

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C042

FC: YEN

Backhoe 1.5 m3 per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	509.00	0	0.33					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
	Sub Total									0	33
3	Equipment										
	Backhoe 1.5m3	day	1					19440	0	19,440	0
	Sub Total									19,440	0
	Total									19,440	203

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

APPENDIX-3. EQUIPMENT COST
LA UNION PORT DEVELOPMENT PROJECT

4C042

FC: YEN

Tire roller 8-20t per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	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	1			0	33.00			0	33
	Others	L.S.	1			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Tire roller 8-20t	day	1					3360	0	3,360	0
	Sub Total									3,360	0
	Total									3,360	88

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

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT

4C042

FC: YEN

Tampa 60-100kg per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				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	0.00					0	0
	Sub Total									0	2
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										
	Tampa	day	1					212.4	0	212.40	0
	Sub Total									212.40	0
	Total									212.40	35

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

4C042-7

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C042
 Concrete Mixer 0.6m3 per day

FC: YEN

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	0	0	0.33					0	0
	Others	L.S.	1	0	0.00					0	0
	Sub Total									0	0
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										
	Concrete Mixer 0.6m3	day	1					6480	0	6,480.00	0
	Sub Total									6,480.00	0
	Total									6,480.00	33

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C042

FC: YEN

Generator 100KVA per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		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									0	52
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										
	Generator 100KVA	day	1					1800	0	1,800	0
	Sub Total									1,800	0
	Total									1,800	85

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

PORT REACTIVATION PROJECT IN LA UNION PROVINCE

4C043

FC: YEN

OIL SEPARATOR(Route C)

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
						Amount	
				FC	LC	FC	LC
4C04301	Excavation & Disposal	Nos.	1	474,322.56	10,306.56	474,323	10,306.56
4C04302	Crushed Stone for Foundation	Nos.	1	6,780.08	276.71	6,780	276.71
4C04303	Lean Concrete	Nos.	1	264.96	89.85	265	89.85
4C04304	Reinforcement & Flap Valve	Nos.	1	101,016.00	9,994.11	101,016	9,994.11
4C04305	Corner Angle	Nos.	1	1,498,535.93	1,626.25	1,498,536	1,626.25
4C04306	Concrete Placing	Nos.	1	88,803.00	27,016.77	88,803	27,016.77
4C04307	Backfill Sand & Compaction	Nos.	1	105,857.04	1,785.49	105,857	1,785.49
	Total					2,275,580	51,095.74
Unit Price per No.						2,275,580	51,095.74

LA UNION PORT DEVELOPMENT PROJECT

4C04301

FC: YEN

Excavation & Disposal for Oil Separator

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Excavation & Disposal	m3	3056	0	0.00					0	0	
	Steel sheet pile(5%)	ton	58	0	35.00					0	2,030	
	Other materials	ton	5.8	0	35.00					0	203	
	Fuel Backhoe 1.5m3	day	7	0	170					0	1,190	
	" Dump truck 10t	day	28	0	105					0	2,939	
	" Truck crane 16t	day	4	0	77					0	306	
	" Generator 100KVA	day	4	0	52					0	207	
	Sub Total									0	6,875	
2	Labor											
	Foreman	man. day	7			0	38.20			0	267	
	Labor	man. day	28			0	14.30			0	400	
	Backhoe 1.5m3	man. day	7			0	33			0	231	
	Dump truck 10t	man. day	28			0	33			0	924	
	Truck crane 16	man. day	4			0	33			0	132	
	Generator 100KVA	man. day	4			0	33			0	132	
	Sub Total									0	2,087	
3	Equipment											
	Backhoe 1.5m3	day	7					19,440	0	136,080	0	
	Dump truck 10t	day	28					6,720	0	188,160	0	
	Truck crane 16	day	4					9,480	0	37,920	0	
	Generator 100KVA	day	4					1,800	0	7,200	0	
	Vibrohammer 60kw	day	4					10,560	0	42,240	0	
	Submersible pump 80mm	day	4					213.60	0	854	0	
	Sub Total									412,454	0	
Total										412,454	8,962	
Unit Price per No.										412,454.40	8,962.23	
INDIRECT COST										15%	61,868.16	1,344.33
TOTAL										474,323	10,306.56	

LA UNION PORT DEVELOPMENT PROJECT

4C04302

FC: YEN

LC: US\$

Crushed stone for Foundation of Oil Separator

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Crushed stone	m3	23.35	0	5.16					0	120.49	
	Wasted crushed stone (25%)	m3	5.84	0	5.16					0	30.12	
	Fuel Backhoe 1.5m3	day	0.3	0	170					0	50.99	
	" Tampa 60kg	day	0.3	0	2					0	0.50	
	Sub Total									0	202.09	
2	Labor											
	Foreman	man. day	0.3			0	38.20			0	11.46	
	Labor	man. day	1.2			0	14.30			0	17.16	
	Backhoe 1.5m3	man. day	0.3			0	33			0	9.90	
	Sub Total									0	38.52	
3	Equipment											
	Backhoe 1.5m3	day	0.3					19,440	0	5,832.00	0	
	Tampa 60kg	day	0.3					212.40	0	63.72	0	
	Sub Total									5,896	0	
Total										5,896	241	
Unit Price per No.										5,895.72	240.61	
INDIRECT COST										15%	884.36	36.09
TOTAL										6,780	276.71	

PORT REACTIVATION PROJECT IN LA UNION PROVINCE

4C04303

FC: YEN

LC: US\$

Total estimate for 1 No.

Lean Concrete

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Ready mixed concrete	m3	11.00	0	65.00					0	715	
	Wasted concrete(1.5%)	m3	0.17	0	65.00					0	11	
	Fuel Concrete mixer 0.6m3	day	0.3	0	0					0	0	
	" Generator 45KVA	day	0.3	0	24					0	7	
	Sub Total									0	733	
2	Labor											
	Foreman	man. day	0.3			0	38.20			0	11	
	Labor	man. day	1.2			0	14.30			0	17	
	Concrete mixer 0.6m3	day	0.3			0	33			0	10	
	Generator 45KVA	day	0.3			0	33			0	10	
	Sub Total									0	48	
3	Equipment											
	Concrete mixer 0.6m3	day	0.3					6,480	0	1944	0	
	Generator 45KVA	day	0.3					1,080	0	324	0	
	Vibrator	day	0.3					120	0	36	0	
	Sub Total									2,304	0	
Total										2,304	781	
Unit Price per No.										230.40	78.13	
INDIRECT COST										15%	34.56	11.72
TOTAL										265	89.85	

LA UNION PORT DEVELOPMENT PROJECT

4C04304

FC: YEN

LC: US\$

Total estimate for 1 No.

Reinforcement

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Steel bar	ton	13.91	0	360.00					0	5,008	
	Wasted steel bar (1.5%)	ton	0.21	0	360.00					0	75	
	Fuel Truck crane 16t	day	6	0	77					0	459	
	Truck 8t	day	6	0	80					0	479	
	Generator 45KVA	day	8	0	24					0	190	
	Sub Total									0	6,211	
2	Labor											
	Foreman	man. day	8			0	38.20			0	306	
	Labor	man. day	80			0	14.30			0	1,144	
	Welder	man. day	16			0	23.09			0	369	
	Truck crane 16t	man. day	6			0	33			0	198	
	Truck 8t	man. day	6			0	33			0	198	
	Generator 45KVA	man. day	8			0	33			0	264	
	Sub Total									0	2,479	
3	Equipment											
	Truck crane 16t	day	6				9,480	0	56880	0	0	
	Truck 8t	day	6				3,480	0	20,880	0	0	
	Generator 45KVA	day	8				1,080	0	8,640	0	0	
	Bar cutter	day	6				120	0	720	0	0	
	Bar bender	day	6				120	0	720	0	0	
	Sub Total								87,840	0	0	
Total										87,840	8,691	
Unit Price per No.										87,840.00	8,690.53	
INDIRECT COST										15%	13,176.00	1,303.58
TOTAL										101,016	9,994.11	

LA UNION PORT DEVELOPMENT PROJECT

4C04305

FC: YEN

Cover, corner angle and others for Manhole

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Non return valve and other	Nos	1	1,296,000	0					1296000	0	
	Cast iron cover	Nos	3	0	117.6					0	353	
	Non corrosive metal mesh	Nos	1	0	11					0	11	
	Steps	kg	35	0	0.54					0	19	
	Ventilation pipe Dia. 100x2	Nos	2	0	80					0	160	
	Coner angle	kg	310	0	0.36					0	112	
	Wasted corner angle(2%)	kg	6.2	0	0.36					0	2	
	Miscellaneous	L. S.	1	0	2.28					0	2	
	Fuel Truck 8t	day	1.2	0	80					0	96	
	Generator 45KVA	day	2.3	0	24					0	55	
	Sub Total									1296000	809	
2	Labour											
	Foreman	man.day	2.3			0	38.20			0	88	
	Labor	man.day	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			0	33			0	76	
	Sub Total									0	605	
3	Equipment											
	Truck 8t	day	1.2					3,480	0	4,176	0	
	Generator 45KVA	day	2.3					1,080	0	2,434	0	
	Welder 300A	day	2.3					120	0	276	0	
	Other equipment	L. S.	1					139	0	139	0	
	Sub Total									7,075	0	
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
TOTAL										1,498,536	1,626.25	

LA UNION PORT DEVELOPMENT PROJECT

4C04306

FC: YEN

LC: US\$

Total estimate for 1 No.

Concrete Placing

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Ready mixed concrete	m3	232.00	0	70.00					0	16,240	
	Wasted concrete(5%)	m3	4.68	0	70.00					0	328	
	Formwork	m2	888	0	5.50					0	4,884	
	Fuel Truck crane 16t	day	4.5	0	77					0	345	
	Concrete mixer 0.6m3	day	4.5	0	0					0	0	
	Generator 45KVA	day	4.5	0	24					0	107	
	Sub Total									0	21,903	
2	Labour											
	Foreman	man. day	4.5			0	38.20			0	172	
	Labor	man. day	68.0			0	14.30			0	972	
	Truck crane 16t	man. day	4.5			0	33			0	149	
	Concrete mixer 0.6m3	man. day	4.5			0	33			0	149	
	Generator 45KVA	man. day	4.5			0	33			0	149	
	Sub Total									0	1,590	
3	Equipment											
	Truck crane 16t	day	4.5					9,480	0	42,660	0	
	Concrete mixer 0.6m3	day	4.5					6,480	0	29,160	0	
	Generator 45KVA	day	4.5					1,080	0	4,860	0	
	Vibrator	day	4.5					120	0	540	0	
	Sub Total									77,220	0	
Total										77,220	23,493	
Unit Price per No.										77,220.00	23,492.84	
INDIRECT COST										15%	11,583.00	3,523.93
TOTAL										88,803	27,016.77	

LA UNION PORT DEVELOPMENT PROJECT

4C04307

FC: YEN

Backfill sand & Compaction

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Backfill sand	m3	2387	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									0	907	
2	Labour											
	Foreman	man. day	4			0	38.20			0	153	
	Labor	man. day	16			0	14.30			0	229	
	Backhoe 1.5m3	man. day	4			0	33			0	132	
	Tire roller 8-20t	man. day	4			0	33			0	132	
	Sub Total									0	646	
3	Equipment											
	Backhoe 1.5m3	day	4					19,440	0	77,760	0	
	Tire roller 8-20t	day	4					3,360	0	13,440	0	
	Tampa 60kg	day	4					212	0	850	0	
	Sub Total									92,050	0	
Total										92,050	1,553	
Unit Price per No.										92,049.60	1,552.60	
INDIRECT COST										15%	13,807.44	232.89
TOTAL										105,857	1,785.49	

APPENDIX-3. EQUIPMENT COST
LA UNION PORT DEVELOPMENT PROJECT

4C043

FC: YEN

Truck crane 16t per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	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					0	0
	Sub Total									0	77
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 with crane 8t	day	1					9480	0	9,480	0
	Sub Total									9,480	0
	Total									9,480	110

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

100ps x 0.2 x 6 x 1.05

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT

4C043

FC: YEN

Truck 8t per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	233.00	0	0.33					0	77
	Others	L.S.	1	0	3.00					0	3
	Sub Total									0	80
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 8t	day	1					3480	0	3,480	0
	Sub Total									3,480	0
	Total									3,480	113

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

4C043-2

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C043
 Dump truck 10t /day

FC: YEN
 LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				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
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										
	Dump truck 10t	day	1					6720	0	6,720	0
	Sub Total									6,720	0
	Total									6,720	138

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

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C043

FC: YEN

Generator 45KVA per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				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									0	24
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										
	Generator 45KVA	day	1					1080	0	1,080	0
	Sub Total									1,080	0
	Total									1,080	57

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

4C043-4

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C043
 Backhoe 1.5 m3 per day

FC: YEN
 LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	509.00	0	0.33					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
	Sub Total									0	33
3	Equipment										
	Backhoe 1.5m3	day	1					19440	0	19,440	0
	Sub Total									19,440	0
	Total									19,440	203

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

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT

4C043

FC: YEN

Tire roller 8-20t per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	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	1			0	33.00			0	33
	Others	L. S.	1			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Tire roller 8-20t	day	1					3360	0	3,360	0
	Sub Total									3,360	0
	Total									3,360	88

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

4C043-6

APPENDIX-3. EQUIPMENT COST
 LA UNION PORT DEVELOPMENT PROJECT
 4C043
 Tampa 60-100kg per day

FC: YEN
 LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				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	0.00					0	0
	Sub Total									0	2
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										
	Tampa	day	1					212.4	0	212.40	0
	Sub Total									212.40	0
	Total									212.40	35

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

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4C043

FC: YEN

Concrete Mixer 0.6m3 per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labour		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Fuel & Lubricant	lr.	0	0	0.33					0	0
	Others	L.S.	1	0	0.00					0	0
	Sub Total									0	0
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										
	Concrete Mixer 0.6m3	day	1					6480	0	6,480.00	0
	Sub Total									6,480.00	0
	Total									6,480.00	33

APPENDIX-3. EQUIPMENT COST
LA UNION PORT DEVELOPMENT PROJECT

4C043

FC: YEN

Generator 100KVA per day

LC: US\$

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		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									0	52
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										
	Generator 100KVA	day	1					1800	0	1,800	0
	Sub Total									1,800	0
	Total									1,800	85

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

PORT REACTIVATION PROJECT IN LA UNION PROVINCE

4C044

FC: YEN

OIL SEPARATOR(Route D)

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
				Amount		Amount	
				FC	LC	FC	LC
4C04401	Excavation & Disposal	Nos.	1	367,786.56	8,350.99	367,787	8,350.99
4C04402	Crushed Stone for Foundation	Nos.	1	6,780.08	263.72	6,780	263.72
4C04403	Lean Concrete	Nos.	1	264.96	83.02	265	83.02
4C04404	Reinforcement & Flap Valve	Nos.	1	101,016.00	9,552.89	101,016	9,552.89
4C04405	Corner Angle	Nos.	1	1,498,535.93	1,626.25	1,498,536	1,626.25
4C04406	Concrete Placing	Nos.	1	79,488.00	24,945.43	79,488	24,945.43
4C04407	Backfill Sand & Compaction	Nos.	1	105,857.04	1,785.49	105,857	1,785.49
	Total					2,159,729	46,607.80
Unit Price per No.						2,159,729	46,607.80

LA UNION PORT DEVELOPMENT PROJECT

4C04401

FC: YEN

LC: US\$

Total estimate for 1 No.

Excavation & Disposal for Oil Separator

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Excavation & Disposal	m3	2569	0	0.00					0	0	
	Steel sheet pile(5%)	ton	58	0	35.00					0	2,030	
	Other materials	ton	5.8	0	35.00					0	203	
	Fuel Backhoe 1.5m3	day	5	0	170					0	850	
	" Dump truck 10t	day	20	0	105					0	2,099	
	" Truck crane 16t	day	4	0	77					0	306	
	" Generator 100KVA	day	4	0	52					0	207	
	Sub Total									0	5,696	
2	Labor											
	Foreman	man. day	5			0	38.20			0	191	
	Labor	man. day	20			0	14.30			0	286	
	Backhoe 1.5m3	man. day	5			0	33			0	165	
	Dump truck 10t	man. day	20			0	33			0	660	
	Truck crane 16	man. day	4			0	33			0	132	
	Generator 100KVA	man. day	4			0	33			0	132	
	Sub Total									0	1,566	
3	Equipment											
	Backhoe 1.5m3	day	5					19,440	0	97,200	0	
	Dump truck 10t	day	20					6,720	0	134,400	0	
	Truck crane 16	day	4					9,480	0	37,920	0	
	Generator 100KVA	day	4					1,800	0	7,200	0	
	Vibrohammer 60kw	day	4					10,560	0	42,240	0	
	Submersible pump 80mm	day	4					213.60	0	854	0	
	Sub Total									319,814	0	
Total										319,814	7,262	
Unit Price per No.										319,814.40	7,261.73	
INDIRECT COST										15%	47,972.16	1,089.26
TOTAL										367,787	8,350.99	

LA UNION PORT DEVELOPMENT PROJECT

4C04402

FC: YEN

Crushed stone for Foundation of Oil Separator

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Crushed stone	m3	21.60	0	5.16					0	111.46	
	Wasted crushed stone (25%)	m3	5.40	0	5.16					0	27.86	
	Fuel Backhoe 1.5m3	day	0.3	0	170					0	50.99	
	" Tampa 60kg	day	0.3	0	2					0	0.50	
	Sub Total									0	190.81	
2	Labor											
	Foreman	man. day	0.3			0	38.20			0	11.46	
	Labor	man. day	1.2			0	14.30			0	17.16	
	Backhoe 1.5m3	man. day	0.3			0	33			0	9.90	
	Sub Total									0	38.52	
3	Equipment											
	Backhoe 1.5m3	day	0.3					19,440	0	5,832.00	0	
	Tampa 60kg	day	0.3					212.40	0	63.72	0	
	Sub Total									5,896	0	
Total										5,896	229	
Unit Price per No.										5,895.72	229.33	
INDIRECT COST										15%	884.36	34.40
TOTAL										6,780	263.72	

PORT REACTIVATION PROJECT IN LA UNION PROVINCE

4C04403

FC: YEN

Lean Concrete

LC: US\$

Total estimate for 1 No.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Ready mixed concrete	m3	10.10	0	65.00					0	657	
	Wasted concrete(1.5%)	m3	0.15	0	65.00					0	10	
	Fuel Concrete mixer 0.6m3	day	0.3	0	0					0	0	
	Generator 45KVA	day	0.3	0	24					0	7	
	Sub Total									0	673	
2	Labor											
	Foreman	man. day	0.3			0	38.20			0	11	
	Labor	man. day	1.2			0	14.30			0	17	
	Concrete mixer 0.6m3	day	0.3			0	33			0	10	
	Generator 45KVA	day	0.3			0	33			0	10	
	Sub Total									0	48	
3	Equipment											
	Concrete mixer 0.6m3	day	0.3					6,480	0	1944	0	
	Generator 45KVA	day	0.3					1,080	0	324	0	
	Vibrator	day	0.3					120	0	36	0	
	Sub Total									2,304	0	
Total										2,304	722	
Unit Price per No.										230.40	72.19	
INDIRECT COST										15%	34.56	10.83
TOTAL										265	83.02	

LA UNION PORT DEVELOPMENT PROJECT

4C04404

FC: YEN

LC: US\$

Total estimate for 1 No.

Reinforcement

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Steel bar	ton	12.86	0	360.00					0	4,630	
	Wasted steel bar(1.5%)	ton	0.19	0	360.00					0	69	
	Fuel Truck crane 16t	day	6	0	77					0	459	
	" Truck 8t	day	6	0	80					0	479	
	" Generator 45KVA	day	8	0	24					0	190	
	Sub Total									0	5,828	
2	Labor											
	Foreman	man. day	8			0	38.20			0	306	
	Labor	man. day	80			0	14.30			0	1,144	
	Welder	man. day	16			0	23.09			0	369	
	Truck crane 16t	man. day	6			0	33			0	198	
	Truck 8t	man. day	6			0	33			0	198	
	Generator 45KVA	man. day	8			0	33			0	264	
	Sub Total									0	2,479	
3	Equipment											
	Truck crane 16t	day	6					9,480	0	56880	0	
	Truck 8t	day	6					3,480	0	20,880	0	
	Generator 45KVA	day	8					1,080	0	8,640	0	
	Bar cutter	day	6					120	0	720	0	
	Bar bender	day	6					120	0	720	0	
	Sub Total									87,840	0	
Total										87,840	8,307	
Unit Price per No.										87,840.00	8,306.86	
INDIRECT COST										15%	13,176.00	1,246.03
TOTAL										101,016	9,552.89	