

Appendix-3. Equipment Cost

LA UNION PORT DEVELOPMENT PROJECT

4B0208

FC: YEN

Truck 4t with crane 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.	250.00	0	0.33					0	83
	Others	L. S.	1	0	0.00					0	0
	Sub Total									0	83
2	Labor										
	Operator	man. day	1			0	33.00			0	33
	Others	L. S.	1			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Truck 4t with crane	day	1					5520	0	5,520	0
	Sub Total									5,520	0
	Total									5,520	116

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

100ps x 0.2 x 6 x 1.05

4B0208-1

Appendix-3. Equipment Cost  
 LA UNION PORT DEVELOPMENT PROJECT  
 4B0208

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.	235.00	0	0.33					0	78
	Others	L.S.	1	0	0.00					0	0
	Sub Total									0	78
2	Labor										
	Operator	man. day	1			0	33.00			0	33
	Others	L.S.	1			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Truck crane 16t	day	1					9480	0	9,480	0
	Sub Total									9,480	0
	Total									9,480	111

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

100ps x 0.2 x 6 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

4B0210

FC: YEN

Installation of Swing check valve diameter 63mm

LC: US\$

Total estimate for 3 Nos.

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Swing check valve	nos.	3	0	252.75					0	758	
	Truck with crane 8t	day	0.1	0	83					0	8	
	Sub Total									0	767	
2	Labor											
	Foreman	man. day	0.1			0	38.20			0	4	
	Labor	man. day	0.4			0	14.30			0	6	
	Truck 4t with crane	man. day	0.1			0	33			0	3	
	Sub Total									0	13	
3	Equipment											
	Truck 8t with crane	day	0.1					3,360	0	336	0	
	Sub Total									336	0	
Total										336	779	
Unit Price per no.										112.00	259.78	
INDIRECT COST										15%	16.80	38.97
TOTAL										129	298.75	

## Appendix-3. Equipment Cost

## LA UNION PORT DEVELOPMENT PROJECT

4B0210

FC: YEN

LC: US\$

Truck 4t with crane 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.	250.00	0	0.33					0	83
	Others	L.S.	1	0	0.00					0	0
	Sub Total									0	83
2	Labor										
	Operator	man. day	1			0	33.00			0	33
	Others	L.S.	1			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Truck 4t with crane	day	1					3360	0	3,360	0
	Sub Total									3,360	0
	Total									3,360	116

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

100ps x 0.2 x 6 x 1.05

LA UNION PORT DEVELOPMENT PROJECT

4B0301

FC: YEN

PIT AND MANHOLES TYPE 3

LC: US\$

Total estimate for 6 Nos

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
				Amount		Amount	
				FC	LC	FC	LC
4B030101	Excavation & Disposal	Nos.	6	172.50	3.06	1,035	18.33
4B030102	Crushed Stone for Foundation	Nos.	6	110.14	1.91	661	11.46
4B030103	Lean Concrete	Nos.	6	44.16	2.71	265	16.29
4B030104	Reinforcement	Nos.	6	136.85	7.41	821	44.48
4B030105	Corner Angle	Nos.	6	45.75	5.40	274	32.41
4B030106	Concrete Placing	Nos.	6	197.80	148.46	1,187	890.78
4B030107	Backfill Sand & Compaction	Nos.	6	142.34	3.26	854	19.59
	Total					5,097	1,033.34
Unit Price per No.						850	172.22

## LA UNION PORT DEVELOPMENT PROJECT

4B030101

FC: YEN

LC: US\$

Total estimate for 6 Nos

## Excavation &amp; Disposal for Manhole

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	1.62	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	0.05	0	95					0	5	
	Dump truck 10t	day	0.1	0	105					0	5	
	Sub Total									0	10	
2	Labor											
	Foreman	man. day	0.05			0	38.20			0	2	
	Labor	man. day	0.05			0	14.30			0	1	
	Backhoe 0.8m3	man. day	0.05			0	33			0	2	
	Dump truck 10t	man. day	0.05			0	33			0	2	
	Sub Total									0	6	
3	Equipment											
	Backhoe 0.8m3	day	0.05					11,280	0	564	0	
	Dump truck 10t	day	0.05					6,720	0	336	0	
	Sub Total									900	0	
Total										900	16	
Unit Price per No.										150.00	2.66	
INDIRECT COST										15%	22.50	0.40
TOTAL										173	3.06	

LA UNION PORT DEVELOPMENT PROJECT

4B030102

FC: YEN

Crushed stone for Foundation of Manhole

LC: US\$

Total estimate for 6 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	0.13	0	5.16					0	0.67	
	Wasted crushed stone (25%)	m3	0.03	0	5.16					0	0.17	
	Fuel Backhoe 0.8m3	day	0.05	0	95					0	4.77	
	" Tampa 60kg	day	0.1	0	2					0	0.08	
	Sub Total									0	5.69	
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	10	
Unit Price per No.										95.77	1.66	
INDIRECT COST										15%	14.37	0.25
TOTAL										110	1.91	

## LA UNION PORT DEVELOPMENT PROJECT

4B030103

FC: YEN

LC: US\$

Total estimate for 6Nos

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	0.15	0	65.00					0	10	
	Wasted concrete(1.5%)	m3	0.00	0	65.00					0	0	
	Fuel Concrete mixer 0.6m3	day	0.03	0	0					0	0	
	" Generator 45KVA	day	0.03	0	24					0	1	
	Sub Total									0	11	
2	Labor											
	Foreman	man. day	0.03			0	38.20			0	1	
	Labor	man. day	0.03			0	14.30			0	0	
	Concrete mixer 0.6m3	day	0.03			0	33			0	1	
	Generator 45KVA	day	0.03			0	33			0	1	
	Sub Total									0	4	
3	Equipment											
	Concrete mixer 0.6m3	day	0.03					6,480	0	194.4	0	
	Generator 45KVA	day	0.03					1,080	0	32.4	0	
	Vibrator	day	0.03					120	0	3.6	0	
	Sub Total									230	0	
Total										230	14	
Unit Price per No.										38.40	2.36	
INDIRECT COST										15%	5.76	0.35
TOTAL										44	2.71	



LA UNION PORT DEVELOPMENT PROJECT

4B030104

FC: YEN

LC: US\$

Total estimate for 6 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	57.30	0	0.36					0	21	
	Wasted steel bar(1.5%)	kg	0.86	0	0.36					0	0	
	Fuel Truck crane 16t	day	0.05	0	77					0	4	
	Truck 8t	day	0.05	0	80					0	4	
	Generator 45KVA	day	0.05	0	24					0	1	
	Sub Total									0	30	
2	Labor											
	Foreman	man. day	0.05			0	38.20			0	2	
	Labor	man. day	0.05			0	14.30			0	1	
	Welder	man. day	0.05			0	23.09			0	1	
	Truck crane 16t	man. day	0.05			0	33			0	2	
	Truck 8t	man. day	0.05			0	33			0	2	
	Generator 45KVA	man. day	0.05			0	33			0	2	
	Sub Total									0	9	
3	Equipment											
	Truck crane 16t	day	0.05					9,480	0	474	0	
	Truck 8t	day	0.05					3,480	0	174	0	
	Generator 45KVA	day	0.05					1,080	0	54	0	
	Bar cutter	day	0.05					120	0	6	0	
	Bar bender	day	0.05					120	0	6	0	
	Sub Total									714	0	
Total										714	39	
Unit Price per No.										119.00	6.45	
INDIRECT COST										15%	17.85	0.97
TOTAL										137	7.41	

## LA UNION PORT DEVELOPMENT PROJECT

4B030105

FC: YEN

LC: US\$

Total estimate for 6 Nos

Corner Angle for Manhole

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	42.50	0	0.36					0	15	
	Wasted corner angle(2%)	kg	0.85	0	0.36					0	0	
	Miscellaneous	L. S.	1	0	0.31					0	0	
	Fuel Truck 8t	day	0.05	0	80					0	4	
	Generator 45KVA	day	0.05	0	24					0	1	
	Sub Total									0	21	
2	Labor											
	Foreman	man. day	0.05			0	38.20			0	2	
	Labor	man. day	0.05			0	14.30			0	1	
	Welder	man. day	0.05			0	23.09			0	1	
	Truck 8t	man. day	0.05			0	33			0	2	
	Generator 45KVA	man. day	0.05			0	33			0	2	
	Sub Total									0	7	
3	Equipment											
	Truck 8t	day	0.05					3,480	0	174	0	
	Generator 45KVA	day	0.05					1,080	0	54	0	
	Welder 300A	day	0.05					120	0	6	0	
	Other equipment	L. S.	1					5	0	5	0	
	Sub Total									239	0	
Total										239	28	
Unit Price per No.										39.78	4.70	
INDIRECT COST										15%	5.97	0.70
TOTAL										46	5.40	

LA UNION PORT DEVELOPMENT PROJECT

4B030106

FC: YEN

LC: US\$

Total estimate for 6 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	6.00	0	101.33					0	608	
	Ready mixed concrete	m3	1.45	0	70.00					0	102	
	Wasted concrete(5%)	m3	0.07	0	70.00					0	5	
	Formwork	m2	7.60	0	5.50					0	42	
	Fuel Truck crane 16t	day	0.05	0	77					0	4	
	" Concrete mixer 0.6m3	day	0.05	0	0					0	0	
	" Generator 45KVA	day	0.05	0	24					0	1	
	" Truck 8t	day	0.05	0	80					0	4	
	Sub Total									0	765	
2	Labor											
	Foreman	man. day	0.05			0	38.20			0	2	
	Labor	man. day	0.05			0	14.30			0	1	
	Truck crane 16t	man. day	0.05			0	33			0	2	
	Concrete mixer 0.6m3	man. day	0.05			0	33			0	2	
	Generator 45KVA	man. day	0.05			0	33			0	2	
	Truck 8t	man. day	0.05			0	33			0	2	
	Sub Total									0	9	
3	Equipment											
	Truck crane 16t	day	0.05					9,480	0	474	0	
	Concrete mixer 0.6m3	day	0.05					6,480	0	324	0	
	Generator 45KVA	day	0.05					1,080	0	54	0	
	Truck 8t	day	0.05					3,480	0	174	0	
	Vibrator	day	0.05					120	0	6	0	
	Sub Total									1,032	0	
Total										1,032	775	
Unit Price per No.										172.00	129.10	
INDIRECT COST										15%	25.80	19.36
TOTAL										198	148.46	

## LA UNION PORT DEVELOPMENT PROJECT

4B030107

FC: YEN

LC: US\$

Total estimate for 6 Nos

## Backfill sand &amp; 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	0.7	0	4.00					0	3	
	Wasted Backfill sand (25%)	m3	0.175	0	4.00					0	1	
	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	11	
2	Labor											
	Foreman	man. day	0.05			0	38.20			0	2	
	Labor	man. day	0.05			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	6	
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	17	
Unit Price per No.										123.77	2.84	
INDIRECT COST										15%	18.57	0.43
TOTAL										142	3.26	

LA UNION PORT DEVELOPMENT PROJECT

4B030104

FC: YEN

LC: US\$

Total estimate for 6 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	57.30	0	0.36					0	21	
	Wasted steel bar(1.5%)	kg	0.86	0	0.36					0	0	
	Fuel Truck crane 16t	day	0.05	0	77					0	4	
	Truck 8t	day	0.05	0	80					0	4	
	Generator 45KVA	day	0.05	0	24					0	1	
	Sub Total									0	30	
2	Labor											
	Foreman	man. day	0.05			0	38.20			0	2	
	Labor	man. day	0.05			0	14.30			0	1	
	Welder	man. day	0.05			0	23.09			0	1	
	Truck crane 16t	man. day	0.05			0	33			0	2	
	Truck 8t	man. day	0.05			0	33			0	2	
	Generator 45KVA	man. day	0.05			0	33			0	2	
	Sub Total									0	9	
3	Equipment											
	Truck crane 16t	day	0.05					9,480	0	474	0	
	Truck 8t	day	0.05					3,480	0	174	0	
	Generator 45KVA	day	0.05					1,080	0	54	0	
	Bar cutter	day	0.05					120	0	6	0	
	Bar bender	day	0.05					120	0	6	0	
	Sub Total									714	0	
Total										714	39	
Unit Price per No.										119.00	6.45	
INDIRECT COST										15%	17.85	0.97
TOTAL										137	7.41	

## LA UNION PORT DEVELOPMENT PROJECT

4B030105

FC: YEN

LC: US\$

Total estimate for 6 Nos

. Corner Angle for Manhole

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	42.50	0	0.36					0	15	
	Wasted corner angle(2%)	kg	0.85	0	0.36					0	0	
	Miscellaneous	L. S.	1	0	0.31					0	0	
	Fuel Truck 8t	day	0.05	0	80					0	4	
	Generator 45KVA	day	0.05	0	24					0	1	
	Sub Total									0	21	
2	Labor											
	Foreman	man. day	0.05			0	38.20			0	2	
	Labor	man. day	0.05			0	14.30			0	1	
	Welder	man. day	0.05			0	23.09			0	1	
	Truck 8t	man. day	0.05			0	33			0	2	
	Generator 45KVA	man. day	0.05			0	33			0	2	
	Sub Total									0	7	
3	Equipment											
	Truck 8t	day	0.05					3,480	0	174	0	
	Generator 45KVA	day	0.05					1,080	0	54	0	
	Welder 300A	day	0.05					120	0	6	0	
	Other equipment	L. S.	1					5	0	5	0	
	Sub Total									239	0	
Total										239	28	
Unit Price per No.										39.78	4.70	
INDIRECT COST										15%	5.97	0.70
TOTAL										46	5.40	

LA UNION PORT DEVELOPMENT PROJECT

4B030106

FC: YEN

Concrete Placing

LC: US\$

Total estimate for 6 Nos

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	6.00	0	101.33					0	608	
	Ready mixed concrete	m3	1.45	0	70.00					0	102	
	Wasted concrete(5%)	m3	0.07	0	70.00					0	5	
	Formwork	m2	7.60	0	5.50					0	42	
	Fuel Truck crane 16t	day	0.05	0	77					0	4	
	" Concrete mixer 0.6m3	day	0.05	0	0					0	0	
	" Generator 45KVA	day	0.05	0	24					0	1	
	" Truck 8t	day	0.05	0	80					0	4	
	Sub Total									0	765	
2	Labor											
	Foreman	man. day	0.05			0	38.20			0	2	
	Labor	man. day	0.05			0	14.30			0	1	
	Truck crane 16t	man. day	0.05			0	33			0	2	
	Concrete mixer 0.6m3	man. day	0.05			0	33			0	2	
	Generator 45KVA	man. day	0.05			0	33			0	2	
	Truck 8t	man. day	0.05			0	33			0	2	
	Sub Total									0	9	
3	Equipment											
	Truck crane 16t	day	0.05					9,480	0	474	0	
	Concrete mixer 0.6m3	day	0.05					6,480	0	324	0	
	Generator 45KVA	day	0.05					1,080	0	54	0	
	Truck 8t	day	0.05					3,480	0	174	0	
	Vibrator	day	0.05					120	0	6	0	
	Sub Total									1,032	0	
Total										1,032	775	
Unit Price per No.										172.00	129.10	
INDIRECT COST										15%	25.80	19.36
TOTAL										198	148.46	

## LA UNION PORT DEVELOPMENT PROJECT

4B030107

FC: YEN

LC: US\$

Total estimate for 6 Nos

## Backfill sand &amp; 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	0.7	0	4.00					0	3	
	Wasted Backfill sand (25%)	m3	0.175	0	4.00					0	1	
	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	11	
2	Labor											
	Foreman	man. day	0.05			0	38.20			0	2	
	Labor	man. day	0.05			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	6	
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	17	
Unit Price per No.										123.77	2.84	
INDIRECT COST										15%	18.57	0.43
TOTAL										142	3.26	



APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0301

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

2B0301-1

APPENDIX-3. EQUIPMENT COST  
LA UNION PORT DEVELOPMENT PROJECT

4B0301

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 &amp; Lubricant: 253ps x 0.11 x 8 x 1.05

APPENDIX-3. EQUIPMENT COST  
LA UNION PORT DEVELOPMENT PROJECT

4B0301

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

2B0301-3

APPENDIX-3. EQUIPMENT COST  
 LA UNION PORT DEVELOPMENT PROJECT  
 4B0301  
 Generator 45KVA 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.	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

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0301

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

2B0301-5

APPENDIX-3. EQUIPMENT COST  
 LA UNION PORT DEVELOPMENT PROJECT  
 4B0301

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 &amp; Lubricant: 96ps x 0.2 x 8 x 1.05

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0301

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

2B0301-7

## APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0301

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



LA UNION PORT DEVELOPMENT PROJECT

4B0302

FC: YEN

PIT AND MANHOLES TYPE 4

LC: US\$

Total estimate for 5 Nos

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
						Amount	
				FC	LC	FC	LC
4B030201	Excavation & Disposal	Nos.	5	414.00	7.66	2,070	38.31
4B030202	Crushed Stone for Foundation	Nos.	5	264.33	5.33	1,322	26.64
4B030203	Lean Concrete	Nos.	5	88.32	6.23	442	31.13
4B030204	Reinforcement	Nos.	5	328.44	20.98	1,642	104.90
4B030205	Corner Angle	Nos.	5	112.61	13.27	563	66.37
4B030206	Concrete Placing	Nos.	5	477.48	116.66	2,387	583.32
4B030207	Backfill Sand & Compaction	Nos.	5	341.61	10.20	1,708	51.01
	Total					10,134	901.69
				Unit Price per No.		2,027	180.34

## LA UNION PORT DEVELOPMENT PROJECT

4B030201

FC: YEN

LC: US\$

Excavation &amp; Disposal for Manhole

Total estimate for 5 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	6.2	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	0.1	0	95					0	10	
	" Dump truck 10t	day	0.1	0	105					0	10	
	Sub Total									0	20	
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	
	Dump truck 10t	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	
	Dump truck 10t	day	0.1					6,720	0	672	0	
	Sub Total									1,800	0	
Total										1,800	33	
Unit Price per No.										360.00	6.66	
INDIRECT COST										15%	54.00	1.00
TOTAL										414	7.66	

LA UNION PORT DEVELOPMENT PROJECT

4B030202

FC: YEN

LC: US\$

Crushed stone for Foundation of Manhole

Total estimate for 5 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	0.54	0	5.16					0	2.79	
	Wasted crushed stone (25%)	m3	0.14	0	5.16					0	0.70	
	Fuel Backhoe 0.8m3	day	0.1	0	95					0	9.54	
	" Tampa 60kg	day	0.1	0	2					0	0.17	
	Sub Total									0	13.19	
2	Labor											
	Foreman	man. day	0.1			0	38.20			0	3.82	
	Labor	man. day	0.2			0	14.30			0	2.86	
	Backhoe 0.8m3	man. day	0.1			0	33			0	3.30	
	Sub Total									0	9.98	
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	23	
Unit Price per No.										229.85	4.63	
INDIRECT COST										15%	34.48	0.70
TOTAL										264	5.33	

## LA UNION PORT DEVELOPMENT PROJECT

4B030203

FC: YEN

LC: US\$

Total estimate for 5Nos

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	0.27	0	65.00					0	18	
	Wasted concrete(1.5%)	m3	0.00	0	65.00					0	0	
	Fuel Concrete mixer 0.6m3	day	0.05	0	0					0	0	
	Generator 45KVA	day	0.05	0	24					0	1	
	Sub Total									0	19	
2	Labor											
	Foreman	man. day	0.05			0	38.20			0	2	
	Labor	man. day	0.2			0	14.30			0	3	
	Concrete mixer 0.6m3	day	0.05			0	33			0	2	
	Generator 45KVA	day	0.05			0	33			0	2	
	Sub Total									0	8	
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	27	
Unit Price per No.										76.80	5.41	
INDIRECT COST										15%	11.52	0.81
TOTAL										88	6.23	

LA UNION PORT DEVELOPMENT PROJECT

4B030204

FC: YEN

LC: US\$

Total estimate for 5 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	111.00	0	0.36					0	40	
	Wasted steel bar(1.5%)	kg	1.67	0	0.36					0	1	
	Fuel Truck crane 16t	day	0.1	0	77					0	8	
	" Truck 8t	day	0.1	0	80					0	8	
	" Generator 45KVA	day	0	0	24					0	2	
	Sub Total									0	59	
2	Labor											
	Foreman	man. day	0.1			0	38.20			0	4	
	Labor	man. day	1			0	14.30			0	14	
	Welder	man. day	0.2			0	23.09			0	5	
	Truck crane 16t	man. day	0.1			0	33			0	3	
	Truck 8t	man. day	0.1			0	33			0	3	
	Generator 45KVA	man. day	0.1			0	33			0	3	
	Sub Total									0	33	
3	Equipment											
	Truck crane 16t	day	0.1					9,480	0	948	0	
	Truck 8t	day	0.1					3,480	0	348	0	
	Generator 45KVA	day	0.1					1,080	0	108	0	
	Bar cutter	day	0.1					120	0	12	0	
	Bar bender	day	0.1					120	0	12	0	
	Sub Total									1,428	0	
Total										1,428	91	
Unit Price per No.										285.60	18.24	
INDIRECT COST										15%	42.84	2.74
TOTAL										328	20.98	

## LA UNION PORT DEVELOPMENT PROJECT

4B030205

FC: YEN

LC: US\$

Total estimate for 5 Nos

Corner Angle for Manhole

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	71.00	0	0.36					0	26	
	Wasted corner angle(2%)	kg	1.42	0	0.36					0	1	
	Miscellaneous	L. S.	1	0	0.52					0	1	
	Fuel Truck 8t	day	0.1	0	80					0	8	
	" Generator 45KVA	day	0.1	0	24					0	2	
	Sub Total									0	37	
2	Labor											
	Foreman	man. day	0.1			0	38.20			0	4	
	Labor	man. day	0.4			0	14.30			0	6	
	Welder	man. day	0.2			0	23.09			0	5	
	Truck 8t	man. day	0.1			0	33			0	3	
	Generator 45KVA	man. day	0.1			0	33			0	3	
	Sub Total									0	21	
3	Equipment											
	Truck 8t	day	0.1					3,480	0	348	0	
	Generator 45KVA	day	0.1					1,080	0	108	0	
	Welder 300A	day	0.2					120	0	24	0	
	Other equipment	L. S.	1					10	0	10	0	
	Sub Total									490	0	
Total										490	58	
Unit Price per No.										97.92	11.54	
INDIRECT COST										15%	14.69	1.73
TOTAL										113	13.27	

LA UNION PORT DEVELOPMENT PROJECT

4B030206

FC: YEN

LC: US\$

Total estimate for 5 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	5.00	0	45.03					0	225	
	Ready mixed concrete	m3	1.45	0	70.00					0	102	
	Wasted concrete (5%)	m3	0.07	0	70.00					0	5	
	Formwork	m2	24.50	0	5.50					0	135	
	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	0	24					0	2	
	Truck 8t	day	0.1	0	80					0	8	
	Sub Total									0	484	
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	0.2					120	0	24	0	
	Sub Total									2,076	0	
Total										2,076	507	
Unit Price per No.										415.20	101.45	
INDIRECT COST										15%	62.28	15.22
TOTAL										477	116.66	

## LA UNION PORT DEVELOPMENT PROJECT

4B030207

FC: YEN

LC: US\$

Backfill sand &amp; Compaction

Total estimate for 5 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	2.6	0	4.00					0	10	
	Wasted Backfill sand (25%)	m3	0.65	0	4.00					0	3	
	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	28	
2	Labor											
	Foreman	man. day	0.1			0	38.20			0	4	
	Labor	man. day	0.4			0	14.30			0	6	
	Backhoe 0.8m3	man. day	0.1			0	33			0	3	
	Tire roller 8-20t	man. day	0.1			0	33			0	3	
	Sub Total									0	16	
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	44	
Unit Price per No.										297.05	8.87	
INDIRECT COST										15%	44.56	1.33
TOTAL										342	10.20	



APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0302

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

2B0302-1

APPENDIX-3. EQUIPMENT COST  
 LA UNION PORT DEVELOPMENT PROJECT  
 4B0302  
 Truck 8t 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.	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 &amp; Lubricant: 253ps x 0.11 x 8 x 1.05

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0302

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

2B0302-3

## APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0302

FC: YEN

LC: US\$

Generator 45KVA 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.	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 &amp; Lubricant: 57ps x 0.2 x 6 x 1.05

APPENDIX-3. EQUIPMENT COST  
 LA UNION PORT DEVELOPMENT PROJECT  
 4B0302  
 Backhoe 0.8 m3 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.	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

2B0302-5

APPENDIX-3. EQUIPMENT COST  
 LA UNION PORT DEVELOPMENT PROJECT  
 4B0302

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 &amp; Lubricant: 96ps x 0.2 x 8 x 1.05

APPENDIX-3. EQUIPMENT COST  
 LA UNION PORT DEVELOPMENT PROJECT

4B0302

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

2B0302-7

APPENDIX-3. EQUIPMENT COST  
 LA UNION PORT DEVELOPMENT PROJECT  
 4B0302  
 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



LA UNION PORT DEVELOPMENT PROJECT

4B0303

FC: YEN

PIT MANHOLES TYPE 5A

LC: US\$

Total estimate for 19 Nos

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
				Amount		Amount	
				FC	LC	FC	LC
4B030301	Excavation & Disposal	Nos.	19	312.90	5.24	5,945	99.57
4B030302	Crushed Stone for Foundation	Nos.	19	34.78	1.62	661	30.82
4B030303	Lean Concrete	Nos.	19	23.24	5.90	442	112.12
4B030304	Reinforcement	Nos.	19	2,592.95	141.16	49,266	2,682.04
4B030305	Corner Angle	Nos.	19	722.32	48.95	13,724	930.05
4B030306	Concrete Placing	Nos.	19	624.63	329.30	11,868	6,256.64
4B030307	Backfill Sand & Compaction	Nos.	19	89.90	7.90	1,708	150.07
	Total					83,614	10,261.32
Unit Price per No.						4,401	540.07

## LA UNION PORT DEVELOPMENT PROJECT

4B030301

FC: YEN

LC: US\$

Excavation &amp; Disposal for Manhole

Total estimate for 19 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	53	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	0.22	0	95					0	21	
	" Dump truck 10t	day	0.40	0	105					0	42	
	Sub Total									0	63	
2	Labor											
	Foreman	man. day				0	38.20			0	0	
	Labor	man. day	0.22			0	14.30			0	3	
	Backhoe 0.8m3	man. day	0.22			0	33			0	7	
	Dump truck 10t	man. day	0.40			0	33			0	13	
	Sub Total									0	24	
3	Equipment											
	Backhoe 0.8m3	day	0.22					11,280	0	2,482	0	
	Dump truck 10t	day	0.40					6,720	0	2,688	0	
	Sub Total									5,170	0	
Total										5,170	87	
Unit Price per No.										272.08	4.56	
INDIRECT COST										15%	40.81	0.68
TOTAL										313	5.24	

LA UNION PORT DEVELOPMENT PROJECT

4B030302

FC: YEN

Crushed stone for Foundation of Manhole

LC: US\$

Total estimate for 19 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	2.74	0	5.16					0	14.14	
	Wasted crushed stone (25%)	m3	0.69	0	5.16					0	3.53	
	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	22.53	
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	27	
Unit Price per No.										30.24	1.41	
INDIRECT COST										15%	4.54	0.21
TOTAL										35	1.62	

## LA UNION PORT DEVELOPMENT PROJECT

4B030303

FC: YEN

Lean Concrete

LC: US\$

Total estimate for 19Nos

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	1.37	0	65.00					0	89	
	Wasted concrete(1.5%)	m3	0.02	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	92	
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	97	
Unit Price per No.										20.21	5.13	
INDIRECT COST										15%	3.03	0.77
TOTAL										23	5.90	

LA UNION PORT DEVELOPMENT PROJECT

4B030304

FC: YEN

Reinforcement

LC: US\$

Total estimate for 19 Nos

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	2413.00	0	0.36					0	869	
	Wasted steel bar(1.5%)	kg	36.20	0	0.36					0	13	
	Fuel Truck crane 16t	day	3	0	77					0	230	
	" Truck 8t	day	3	0	80					0	240	
	" Generator 45KVA	day	3.00	0	24					0	71	
	Sub Total									0	1,422	
2	Labor											
	Foreman	man. day	3			0	38.20			0	115	
	Labor	man. day	30			0	14.30			0	429	
	Welder	man. day	3			0	23.09			0	69	
	Truck crane 16t	man. day	3			0	33			0	99	
	Truck 8t	man. day	3			0	33			0	99	
	Generator 45KVA	man. day	3			0	33			0	99	
	Sub Total									0	910	
3	Equipment											
	Truck crane 16t	day	3					9,480	0	28440	0	
	Truck 8t	day	3					3,480	0	10,440	0	
	Generator 45KVA	day	3					1,080	0	3,240	0	
	Bar cutter	day	3					120	0	360	0	
	Bar bender	day	3					120	0	360	0	
	Sub Total									42,840	0	
Total										42,840	2,332	
Unit Price per No.										2,254.74	122.75	
INDIRECT COST										15%	338.21	18.41
TOTAL										2,593	141.16	

LA UNION PORT DEVELOPMENT PROJECT

4B030305

FC: YEN

LC: US\$

Total estimate for 19 Nos

Corner Angle for Manhole

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	236.00	0	0.36					0	85	
	Wasted corner angle(2%)	kg	4.72	0	0.36					0	2	
	Miscellaneous	L. S.	1	0	1.73					0	2	
	Fuel Truck 8t	day	2.5	0	80					0	200	
	" Generator 45KVA	day	2.50	0	24					0	59	
	Sub Total									0	348	
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	809	
Unit Price per No.										628.11	42.57	
INDIRECT COST										15%	94.22	6.38
TOTAL										722	48.95	

LA UNION PORT DEVELOPMENT PROJECT

4B030306

FC: YEN

LC: US\$

Concrete Placing

Total estimate for 19 Nos

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	19.00	0	162.40					0	3,086	
	Ready mixed concrete	m3	14.90	0	70.00					0	1,043	
	Wasted concrete(5%)	m3	0.75	0	70.00					0	52	
	Formwork	m2	192.00	0	5.50					0	1,056	
	Fuel Truck crane 16t	day	0.5	0	77					0	38	
	Concrete mixer 0.6m3	day	0.5	0	0					0	0	
	Generator 45KVA	day	0.50	0	24					0	12	
	Truck St	day	0.5	0	80					0	40	
	Sub Total									0	5,327	
2	Labor											
	Foreman	man. day	0.5			0	38.20			0	19	
	Labor	man. day	2			0	14.30			0	29	
	Truck crane 16t	man. day	0.5			0	33			0	17	
	Concrete mixer 0.6m3	man. day	0.5			0	33			0	17	
	Generator 45KVA	man. day	0.5			0	33			0	17	
	Truck St	man. day	0.5			0	33			0	17	
	Sub Total									0	114	
3	Equipment											
	Truck crane 16t	day	0.5					9,480	0	4740	0	
	Concrete mixer 0.6m3	day	0.5					6,480	0	3,240	0	
	Generator 45KVA	day	0.5					1,080	0	540	0	
	Truck St	day	0.5					3,480	0	1,740	0	
	Vibrator	day	0.5					120	0	60	0	
	Sub Total									10,320	0	
Total										10,320	5,441	
Unit Price per No.										543.16	286.35	
INDIRECT COST										15%	81.47	42.95
TOTAL										625	329.30	

## LA UNION PORT DEVELOPMENT PROJECT

4B030307

FC: YEN

LC: US\$

Total estimate for 19 Nos

## Backfill sand &amp; 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	20.4	0	4.00					0	82	
	Wasted Backfill sand (25%)	m3	5.1	0	4.00					0	20	
	Fuel Backhoe 0.8m3	day	0.1	0	95					0	10	
	" Tire roller 8-20t	day	0.10	0	55					0	6	
	" Tampa 60kg	day	0.10	0	2					0	0	
	Sub Total									0	117	
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	130	
Unit Price per No.										78.17	6.87	
INDIRECT COST										15%	11.73	1.03
TOTAL										90	7.90	



APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0303

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

2B0303-1

## APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0303

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 &amp; Lubricant: 253ps x 0.11 x 8 x 1.05

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0303

FC: YEN

LC: US\$

Dump truck 10t 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.	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

2B0303-3

## APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0303

FC: YEN

LC: US\$

Generator 45KVA 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.	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 &amp; Lubricant: 57ps x 0.2 x 6 x 1.05

APPENDIX-3. EQUIPMENT COST  
LA UNION PORT DEVELOPMENT PROJECT

4B0303

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

2B0303-5

## APPENDIX-3. EQUIPMENT COST

## LA UNION PORT DEVELOPMENT PROJECT

4B0303

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 &amp; Lubricant: 96ps x 0.2 x 8 x 1.05

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0303

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

2B0303-7

## APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0303

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

4B0304

PIT AND MANHOLES TYPE 5B

FC: YEN

LC: US\$

Total estimate for 19 Nos

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
				Amount		Amount	
				FC	LC	FC	LC
4B030401	Excavation & Disposal	Nos.	19	312.90	5.24	5,945	99.57
4B030402	Crushed Stone for Foundation	Nos.	19	34.78	1.62	661	30.82
4B030403	Lean Concrete	Nos.	19	23.24	5.90	442	112.12
4B030404	Reinforcement	Nos.	19	2,592.95	141.16	49,266	2,682.04
4B030405	Corner Angle	Nos.	19	722.32	48.95	13,724	930.05
4B030406	Concrete Placing	Nos.	19	624.63	277.78	11,868	5,277.76
4B030407	Backfill Sand & Compaction	Nos.	19	89.90	7.90	1,708	150.07
	Total					83,614	9,282.44
Unit Price per No.						4,401	488.55

## LA UNION PORT DEVELOPMENT PROJECT

4B030401

FC: YEN

Excavation &amp; Disposal for Manhole

LC: US\$

Total estimate for 19 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	53	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	0.22	0	95					0	21	
	Dump truck 10t	day	0.40	0	105					0	42	
	Sub Total									0	63	
2	Labor											
	Foreman	man. day				0	38.20			0	0	
	Labor	man. day	0.22			0	14.30			0	3	
	Backhoe 0.8m3	man. day	0.22			0	33			0	7	
	Dump truck 10t	man. day	0.40			0	33			0	13	
	Sub Total									0	24	
3	Equipment											
	Backhoe 0.8m3	day	0.22					11,280	0	2,482	0	
	Dump truck 10t	day	0.40					6,720	0	2,688	0	
	Sub Total									5,170	0	
Total										5,170	87	
Unit Price per No.										272.08	4.56	
INDIRECT COST										15%	40.81	0.68
TOTAL										313	5.24	

LA UNION PORT DEVELOPMENT PROJECT

4B030402

FC: YEN

Crushed stone for Foundation of Manhole

LC: US\$

Total estimate for 19 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	2.74	0	5.16					0	14.14	
	Wasted crushed stone (25%)	m3	0.69	0	5.16					0	3.53	
	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	22.53	
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	27	
Unit Price per No.										30.24	1.41	
INDIRECT COST										15%	4.54	0.21
TOTAL										35	1.62	

## LA UNION PORT DEVELOPMENT PROJECT

4B030403

FC: YEN

LC: US\$

Total estimate for 19Nos

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	1.37	0	65.00					0	89	
	Wasted concrete (1.5%)	m3	0.02	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	92	
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	97	
Unit Price per No.										20.21	5.13	
INDIRECT COST										15%	3.03	0.77
TOTAL										23	5.90	

LA UNION PORT DEVELOPMENT PROJECT

4B030404

FC: YEN

LC: US\$

Total estimate for 19 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	2413.00	0	0.36					0	869	
	Wasted steel bar(1.5%)	kg	36.20	0	0.36					0	13	
	Fuel Truck crane 16t	day	3	0	77					0	230	
	" Truck 8t	day	3	0	80					0	240	
	" Generator 45KVA	day	3.00	0	24					0	71	
	Sub Total									0	1,422	
2	Labor											
	Foreman	man. day	3			0	38.20			0	115	
	Labor	man. day	30			0	14.30			0	429	
	Welder	man. day	3			0	23.09			0	69	
	Truck crane 16t	man. day	3			0	33			0	99	
	Truck 8t	man. day	3			0	33			0	99	
	Generator 45KVA	man. day	3			0	33			0	99	
	Sub Total									0	910	
3	Equipment											
	Truck crane 16t	day	3					9,480	0	28440	0	
	Truck 8t	day	3					3,480	0	10,440	0	
	Generator 45KVA	day	3					1,080	0	3,240	0	
	Bar cutter	day	3					120	0	360	0	
	Bar bender	day	3					120	0	360	0	
	Sub Total									42,840	0	
Total										42,840	2,332	
Unit Price per No.										2,254.74	122.75	
INDIRECT COST										15%	338.21	18.41
TOTAL										2,593	141.16	

## LA UNION PORT DEVELOPMENT PROJECT

4B030405

FC: YEN

LC: US\$

Corner Angle for Manhole

Total estimate for 19 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	236.00	0	0.36					0	85	
	Wasted corner angle(2%)	kg	4.72	0	0.36					0	2	
	Miscellaneous	L. S.	1	0	1.73					0	2	
	Fuel Truck 8t	day	2.5	0	80					0	200	
	" Generator 45KVA	day	2.50	0	24					0	59	
	Sub Total									0	348	
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	809	
Unit Price per No.										628.11	42.57	
INDIRECT COST										15%	94.22	6.38
TOTAL										722	48.95	

LA UNION PORT DEVELOPMENT PROJECT

4B030406

FC: YEN

Concrete Placing

LC: US\$

Total estimate for 19 Nos

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	19.00	0	117.60					0	2,234	
	Ready mixed concrete	m3	14.90	0	70.00					0	1,043	
	Wasted concrete(5%)	m3	0.75	0	70.00					0	52	
	Formwork	m2	192.00	0	5.50					0	1,056	
	Fuel Truck crane 16t	day	0.5	0	77					0	38	
	Concrete mixer 0.6m3	day	0.5	0	0					0	0	
	Generator 45KVA	day	0.50	0	24					0	12	
	Truck 8t	day	0.5	0	80					0	40	
	Sub Total									0	4,476	
2	Labor											
	Foreman	man. day	0.5			0	38.20			0	19	
	Labor	man. day	2			0	14.30			0	29	
	Truck crane 16t	man. day	0.5			0	33			0	17	
	Concrete mixer 0.6m3	man. day	0.5			0	33			0	17	
	Generator 45KVA	man. day	0.5			0	33			0	17	
	Truck 8t	man. day	0.5			0	33			0	17	
	Sub Total									0	114	
3	Equipment											
	Truck crane 16t	day	0.5					9,480	0	4740	0	
	Concrete mixer 0.6m3	day	0.5					6,480	0	3,240	0	
	Generator 45KVA	day	0.5					1,080	0	540	0	
	Truck 8t	day	0.5					3,480	0	1,740	0	
	Vibrator	day	0.5					120	0	60	0	
	Sub Total									10,320	0	
Total										10,320	4,589	
Unit Price per No.										543.16	241.55	
INDIRECT COST										15%	81.47	36.23
TOTAL										625	277.78	

## LA UNION PORT DEVELOPMENT PROJECT

4B030407

FC: YEN

Backfill sand &amp; Compaction

LC: US\$

Total estimate for 19 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	20.4	0	4.00					0	82	
	Wasted Backfill sand (25%)	m3	5.1	0	4.00					0	20	
	Fuel Backhoe 0.8m3	day	0.1	0	95					0	10	
	" Tire roller 8-20t	day	0.10	0	55					0	6	
	" Tampa 60kg	day	0.10	0	2					0	0	
	Sub Total									0	117	
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	130	
Unit Price per No.										78.17	6.87	
INDIRECT COST										15%	11.73	1.03
TOTAL										90	7.90	



APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0304

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

2B0304-1

## APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0304

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 &amp; Lubricant: 253ps x 0.11 x 8 x 1.05

2B0304-02

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0304

FC: YEN

LC: US\$

Dump truck 10t 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.	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

2B0304-3

APPENDIX-3. EQUIPMENT COST  
 LA UNION PORT DEVELOPMENT PROJECT  
 4B0304

FC: YEN

LC: US\$

• Generator 45KVA 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.	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 &amp; Lubricant: 57ps x 0.2 x 6 x 1.05

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0304

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

2B0304-5

## APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0304

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 &amp; Lubricant: 96ps x 0.2 x 8 x 1.05

APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0304

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

2B0304-7

## APPENDIX-3. EQUIPMENT COST

LA UNION PORT DEVELOPMENT PROJECT

4B0304

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

4C0104

FC: YEN

PVC pipe, diameter 100mm

LC: US\$

Total estimate for 51m

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
						Amount	
				FC	LC	FC	LC
4C010401	Excavation & Disposal	M	51	0.00	1.63	0	83.35
4C010402	Sand	M	51	0.48	1.49	24	76.16
4C010403	Installation PVC Pipe	M	51	7.58	3.27	386	166.69
4C010404	Backfill & Compaction	M	51	0.48	1.06	24	54.15
	Total					435	380.35
Unit Price per m						9	7.46

## LA UNION PORT DEVELOPMENT PROJECT

4C010401

FC: YEN

LC: US\$

Total estimate for 51m

Excavation &amp; Disposal for PVC pipe 100 mm

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	20	0	0.00					0	0	
	Sub Total									0	0	
2	Labor											
	Foreman	man. day	0.4			0	38.20			0	15	
	Labor	man. day	4			0	14.30			0	57	
	Sub Total									0	72	
3	Equipment											
	Sub Total									0	0	
Total										0	72	
Unit Price per m										0.00	1.42	
INDIRECT COST										15%	0.00	0.21
TOTAL										0	1.63	

LA UNION PORT DEVELOPMENT PROJECT

4C010402

FC: YEN

Sand for Foundation of PVC Pipe 100mm

LC: US\$

Total estimate for 51 m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Sand	m3	6.00	0	5.16					0	31	
	Wasted sand (5%)	m3	0.48	0	5.16					0	2	
	" Plate compactor 50kg	day	0.1	0	4					0	0	
	Sub Total									0	34	
2	Labor											
	Foreman	man. day	0.1			0	38.20			0	4	
	Labor	man. day	2			0	14.30			0	29	
	Sub Total									0	32	
3	Equipment											
	Plate compactor 50kg	day	0.1					212.40	0	21.24	0	
	Sub Total									21.24	0	
Total										21.24	66	
Unit Price per m										0.42	1.30	
INDIRECT COST										15%	0.06	0.19
TOTAL										0	1.49	

## LA UNION PORT DEVELOPMENT PROJECT

4C010403

FC: YEN

Installation of PVC Pipe 100mm

LC: US\$

Total estimate for 51m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	PVC Pipe 100mm	m	51	0	2.13					0	109	
	Above others 15%	L.S	5.1	0	2.13					0	11	
	Concrete anchor	m3	0	0	90.00					0	0	
	Fuel Truck 4t with crane	day	0.1	0	69					0	7	
	Sub Total									0	126	
2	Labor											
	Foreman	man. day	0.1			0	38.20			0	4	
	Labor	man. day	0.8			0	14.30			0	11	
	Truck 4t with crane	man. day	0.1			0	33			0	3	
	Sub Total									0	19	
3	Equipment											
	Truck 4t with crane	day	0.1					3,360	0	336	0	
	Sub Total									336	0	
Total										336	145	
Unit Price per m										6.59	2.84	
INDIRECT COST										15%	0.99	0.43
TOTAL										8	3.27	

4 LA UNION PORT DEVELOPMENT PROJECT

4C010404

FC: YEN

Backfill sand & Compaction for PVC pipe 100mm

LC: US\$

Total estimate for 51 m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Backfill material	m3	14	0	0.00					0	0	
	Wasted Backfill sand (25%)	m3	0.7	0	0.00					0	0	
	" Plate compactor	day	0.1	0	4					0	0	
	Sub Total									0	0	
2	Labor											
	Foreman	man. day	0.1			0	38.20			0	4	
	Labor	man. day	3			0	14.30			0	43	
	Sub Total									0	47	
3	Equipment											
	Plate compactor	day	0.1					212.40	0	21	0	
	Sub Total									21	0	
Total										21	47	
Unit Price per m										0.42	0.92	
INDIRECT COST										15%	0.06	0.14
TOTAL										0	1.06	

## Appendix-3. Equipment Cost

## LA UNION PORT DEVELOPMENT PROJECT

4C0104

FC: YEN

LC: US\$

Truck 4t with crane 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.	209.00	0	0.33					0	69
	Others	L.S.	1	0	0.00					0	0
	Sub Total									0	69
2	Labor										
	Operator	man. day	1			0	33.00			0	33
	Others	L.S.	1			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Truck 4t with crane	day	1					3360	0	3,360	0
	Sub Total									3,360	0
	Total									3,360	102

Fuel &amp; Lubricant: 180ps 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

4C0104

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

4C0104-2

## Appendix-3. Equipment Cost

LA UNION PORT DEVELOPMENT PROJECT

4C0104

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 &amp; Lubricant: 169ps x 0.2 x 8 x 1.05



Appendix-3. Equipment Cost

LA UNION PORT DEVELOPMENT PROJECT

4C0104

FC: YEN

Plate Compactor 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	2.00					0	2
	Sub Total									0	4
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										
	Plate Compactor	day	1					212.4	0	212.40	0
	Sub Total									212.40	0
	Total									212	37

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

4C0104-4

## LA UNION PORT DEVELOPMENT PROJECT

4C0105

FC: YEN

PVC pipe, diameter 150mm

LC: US\$

Total estimate for 275m

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
				Amount			
				FC	LC	FC	LC
4C010501	Excavation & Disposal	M	275	75.27	1.37	20,700	378.07
4C010502	Sand	M	275	24.47	2.70	6,730	743.49
4C010503	Installation PVC Pipe	M	275	28.10	11.71	7,728	3,219.87
4C010504	Backfill & Compaction	M	275	25.36	0.48	6,975	132.88
	Total					42,133	4,474.31
				Unit Price per m		153	16.27

LA UNION PORT DEVELOPMENT PROJECT

4C010501

FC: YEN

Excavation & Disposal for PVC pipe 150 mm

LC: US\$

Total estimate for 275m

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	337	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	1.0	0	95					0	95	
	" Dump truck 10t	day	1.0	0	105					0	105	
	Sub Total									0	200	
2	Labor											
	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	
	Dump truck 10t	man. day	1			0	33			0	33	
	Sub Total									0	128	
3	Equipment											
	Backhoe 0.8m3	day	1					11,280	0	11,280	0	
	Dump truck 10t	day	1					6,720	0	6,720	0	
	Sub Total									18,000	0	
Total										18,000	329	
Unit Price per m										65.45	1.20	
INDIRECT COST										15%	9.82	0.18
TOTAL										75	1.37	

## LA UNION PORT DEVELOPMENT PROJECT

4C010502

FC: YEN

LC: US\$

Sand for Foundation of PVC Pipe 150mm

Total estimate for 275 m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Sand	m3	98.00	0	5.16					0	506	
	Wasted sand (5%)	m3	4.90	0	5.16					0	25	
	Fuel Backhoe 0.8m3	day	0.5	0	95					0	48	
	" Plate compactor 50kg	day	1.0	0	4					0	4	
	Sub Total									0	582	
2	Labor											
	Foreman	man. day	0.5			0	38.20			0	19	
	Labor	man. day	2			0	14.30			0	29	
	Backhoe 0.8m3	man. day	0.5			0	33			0	17	
	Sub Total									0	64	
3	Equipment											
	Backhoe 0.8m3	day	0.5					11,280	0	5,640	0	
	Plate compactor 50kg	day	1					212.40	0	212.40	0	
	Sub Total									5,852.40	0	
Total										5,852.40	647	
Unit Price per m										21.28	2.35	
INDIRECT COST										15%	3.19	0.35
TOTAL										24	2.70	

LA UNION PORT DEVELOPMENT PROJECT

4C010503

FC: YEN

Installation of PVC Pipe 150mm

LC: US\$

Total estimate for 275m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	PVC Pipe 150mm	m	275	0	7.56					0	2,079	
	Above others 15%	L.S	41.25	0	7.56					0	312	
	Concrete anchor	m3	0	0	90.00					0	0	
	Fuel Truck 4t with crane	day	2	0	69					0	138	
	Sub Total									0	2,529	
2	Labor											
	Foreman	man. day	2			0	38.20			0	76	
	Labor	man. day	9			0	14.30			0	129	
	Truck 4t with crane	man. day	2			0	33			0	66	
	Sub Total									0	271	
3	Equipment											
	Truck 4t with crane	day	2					3,360	0	6,720	0	
	Sub Total									6,720	0	
Total										6,720	2,800	
Unit Price per m										24.44	10.18	
INDIRECT COST										15%	3.67	1.53
TOTAL										28	11.71	

## 4 LA UNION PORT DEVELOPMENT PROJECT

4C010504

Backfill sand &amp; Compaction for PVC pipe 150mm

FC: YEN

LC: US\$

Total estimate for 275 m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Backfill material	m3	179	0	0.00					0	0	
	Wasted Backfill sand (25%)	m3	44.75	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	0.5	0	95					0	48	
	Plate compactor	day	1.0	0	4					0	4	
	Sub Total									0	51	
2	Labor											
	Foreman	man. day	0.5			0	38.20			0	19	
	Labor	man. day	2			0	14.30			0	29	
	Backhoe 0.8m3	man. day	0.5			0	33			0	17	
	Sub Total									0	64	
3	Equipment											
	Backhoe 0.8m3	day	0.5					11,280	0	5,640	0	
	Plate compactor	day	2					212.40	0	425	0	
	Sub Total									6,065	0	
Total										6,065	116	
Unit Price per m										22.05	0.42	
INDIRECT COST										15%	3.31	0.06
TOTAL										25	0.48	

Appendix-3. Equipment Cost

LA UNION PORT DEVELOPMENT PROJECT

4C0105

FC: YEN

Truck 4t with crane 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.	209.00	0	0.33					0	69
	Others	L. S.	1	0	0.00					0	0
	Sub Total									0	69
2	Labor										
	Operator	man. day	1			0	33.00			0	33
	Others	L. S.	1			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Truck 4t with crane	day	1					3360	0	3,360	0
	Sub Total									3,360	0
	Total									3,360	102

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

100ps x 0.2 x 6 x 1.05

4C0105-1

## Appendix-3. Equipment Cost

LA UNION PORT DEVELOPMENT PROJECT

4C0105

FC: YEN

LC: US\$

Dump truck 10t 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.	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 &amp; Lubricant: 335ps x 0.11 x 8 x 1.05



Appendix-3. Equipment Cost

LA UNION PORT DEVELOPMENT PROJECT

4C0105

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

4C0105-3

Appendix-3. Equipment Cost  
 LA UNION PORT DEVELOPMENT PROJECT  
 4C0105

FC: YEN

LC: US\$

Plate Compactor 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	2.00					0	2
	Sub Total									0	4
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										
	Plate Compactor	day	1					212.4	0	212.40	0
	Sub Total									212.40	0
	Total									212	37

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

LA UNION PORT DEVELOPMENT PROJECT

4C0106

PVC pipe, diameter 200mm

FC: YEN

LC: US\$

Total estimate for 100m

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
						Amount	
				FC	LC	FC	LC
4C010601	Excavation & Disposal	M	100	165.60	2.99	16,560	299.17
4C010602	Sand	M	100	67.30	3.12	6,730	312.32
4C010603	Installation PVC Pipe	M	100	38.64	17.71	3,864	1,771.25
4C010604	Backfill & Compaction	M	100	69.75	1.33	6,975	132.88
	Total					34,129	2,515.62
				Unit Price per m		341	25.16

## LA UNION PORT DEVELOPMENT PROJECT

4C010601

FC: YEN

LC: US\$

Excavation &amp; Disposal for PVC pipe 200 mm

Total estimate for 100m

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	112.5	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	0.8	0	95					0	76	
	" Dump truck 10t	day	0.8	0	105					0	84	
	Sub Total									0	160	
2	Labor											
	Foreman	man. day	0.8			0	38.20			0	31	
	Labor	man. day	3			0	14.30			0	43	
	Backhoe 0.8m3	man. day	0.8			0	33			0	26	
	Dump truck 10t	man. day	0.8			0	33			0	26	
	Sub Total									0	100	
3	Equipment											
	Backhoe 0.8m3	day	0.8					11,280	0	9,024	0	
	Dump truck 10t	day	0.8					6,720	0	5,376	0	
	Sub Total									14,400	0	
Total										14,400	260	
Unit Price per m										144.00	2.60	
INDIRECT COST										15%	21.60	0.39
TOTAL										166	2.99	

LA UNION PORT DEVELOPMENT PROJECT

4C010602

FC: YEN

Sand for Foundation of PVC Pipe 200mm

LC: US\$

Total estimate for 100 m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Sand	m3	28.80	0	5.16					0	149	
	Wasted sand (5%)	m3	1.44	0	5.16					0	7	
	Fuel Backhoe 0.8m3	day	0.5	0	95					0	48	
	" Plate compactor 50kg	day	1.0	0	4					0	4	
	Sub Total									0	207	
2	Labor											
	Foreman	man. day	0.5			0	38.20			0	19	
	Labor	man. day	2			0	14.30			0	29	
	Backhoe 0.8m3	man. day	0.5			0	33			0	17	
	Sub Total									0	64	
3	Equipment											
	Backhoe 0.8m3	day	0.5					11,280	0	5,640	0	
	Plate compactor 50kg	day	1					212.40	0	212.40	0	
	Sub Total									5,852.40	0	
Total										5,852.40	272	
Unit Price per m										58.52	2.72	
INDIRECT COST										15%	8.78	0.41
TOTAL										67	3.12	

## LA UNION PORT DEVELOPMENT PROJECT

4C010603

FC: YEN

Installation of PVC Pipe 200mm

LC: US\$

Total estimate for 100m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	PVC Pipe 200mm	m	100	0	12.05					0	1,205	
	Above others 15%	L. S	15	0	12.05					0	181	
	Concrete anchor	m3	0	0	90.00					0	0	
	Fuel Truck 4t with crane	day	1	0	69					0	69	
	Sub Total									0	1,455	
2	Labor											
	Foreman	man. day	1			0	38.20			0	38	
	Labor	man. day	1			0	14.30			0	14	
	Truck 4t with crane	man. day	1			0	33			0	33	
	Sub Total									0	86	
3	Equipment											
	Truck 4t with crane	day	1					3,360	0	3,360	0	
	Sub Total									3,360	0	
Total										3,360	1,540	
Unit Price per m										33.60	15.40	
INDIRECT COST										15%	5.04	2.31
TOTAL										39	17.71	

4 LA UNION PORT DEVELOPMENT PROJECT

4C010604

FC: YEN

Backfill sand & Compaction for PVC pipe 200mm

LC: US\$

Total estimate for 100 m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost	
				Material		Labor		Equipment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC
1	Material										
	Backfill material	m3	21	0	0.00					0	0
	Wasted Backfill sand (25%)	m3	5.25	0	0.00					0	0
	Fuel Backhoe 0.8m3	day	0.5	0	95					0	48
	" Plate compactor	day	1.0	0	4					0	4
	Sub Total									0	51
2	Labor										
	Foreman	man. day	0.5			0	38.20			0	19
	Labor	man. day	2			0	14.30			0	29
	Backhoe 0.8m3	man. day	0.5			0	33			0	17
	Sub Total									0	64
3	Equipment										
	Backhoe 0.8m3	day	0.5					11,280	0	5,640	0
	Plate compactor	day	2					212.40	0	425	0
	Sub Total									6,065	0
Total										6,065	116
Unit Price per m										60.65	1.16
INDIRECT COST										15%	0.17
TOTAL										70	1.33

## Appendix-3. Equipment Cost

## LA UNION PORT DEVELOPMENT PROJECT

4C0106

FC: YEN

LC: US\$

Truck 4t with crane 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.	209.00	0	0.33					0	69
	Others	L. S.	1	0	0.00					0	0
	Sub Total									0	69
2	Labor										
	Operator	man. day	1			0	33.00			0	33
	Others	L. S.	1			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Truck 4t with crane	day	1					3360	0	3,360	0
	Sub Total									3,360	0
	Total									3,360	102

Fuel &amp; Lubricant: 180ps 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

4C0106

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

4C0106-2

## Appendix-3. Equipment Cost

## LA UNION PORT DEVELOPMENT PROJECT

4C0106

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 &amp; Lubricant: 169ps x 0.2 x 8 x 1.05

Appendix-3. Equipment Cost

LA UNION PORT DEVELOPMENT PROJECT

4C0106

FC: YEN

Plate Compactor 50-100kg 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	2.00					0	2
	Sub Total									0	4
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										
	Plate Compactor	day	1					212.4	0	212.40	0
	Sub Total									212.40	0
	Total									212	37

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

4C0106-4

## LA UNION PORT DEVELOPMENT PROJECT

4C0107

FC: YEN

PVC pipe, diameter 300mm

LC: US\$

Total estimate for 145m

No.	Work Item	Unit	Quantity	Basic Price		Unit Cost	
						Amount	
				FC	LC	FC	LC
4C010701	Excavation & Disposal	M	145	249.35	5.52	36,156	800.40
4C010702	Sand	M	145	92.83	7.94	13,461	1,151.31
4C010703	Installation Ductile Iron Pipe	M	145	131.34	42.92	19,044	6,223.54
4C010704	Backfill & Compaction	M	145	92.83	4.74	13,461	687.92
	Total					82,121	8,863.17
				Unit Price per m		566	61.13

LA UNION PORT DEVELOPMENT PROJECT

4C010701

FC: YEN

Excavation & Disposal for PVC pipe 300 mm

LC: US\$

Total estimate for 145m

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	234	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	1	0	95					0	95	
	" Dump truck 10t	day	3	0	105					0	315	
	Sub Total									0	410	
2	Labor											
	Foreman	man. day	1			0	38.20			0	38	
	Labor	man. day	15			0	14.30			0	215	
	Backhoe 0.8m3	man. day	1			0	33			0	33	
	Dump truck 10t	man. day	3			0	33			0	99	
	Sub Total									0	286	
3	Equipment											
	Backhoe 0.8m3	day	1					11,280	0	11,280	0	
	Dump truck 10t	day	3					6,720	0	20,160	0	
	Sub Total									31,440	0	
Total										31,440	696	
Unit Price per m										216.83	4.80	
INDIRECT COST										15%	32.52	0.72
TOTAL										249	5.52	

## LA UNION PORT DEVELOPMENT PROJECT

4C010702

FC: YEN

LC: US\$

Sand for Foundation of PVC Pipe 300mm

Total estimate for 145 m

No.	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Sand	m3	95.00	0	5.16					0	490	
	Wasted sand (25%)	m3	23.75	0	5.16					0	123	
	Fuel Backhoe 0.8m3	day	1	0	95					0	95	
	" Plate compactor 50kg	day	2.0	0	4					0	7	
	Sub Total									0	715	
2	Labor											
	Foreman	man. day	1			0	38.20			0	38	
	Labor	man. day	15			0	14.30			0	215	
	Backhoe 0.8m3	man. day	1			0	33			0	33	
	Sub Total									0	286	
3	Equipment											
	Backhoe 0.8m3	day	1					11,280	0	11,280	0	
	Plate compactor 50kg	day	2					212.40	0	424.80	0	
	Sub Total									11,704.80	0	
Total										11,704.80	1,001	
Unit Price per m										80.72	6.90	
INDIRECT COST										15%	12.11	1.04
TOTAL										93	7.94	

LA UNION PORT DEVELOPMENT PROJECT

4C010703

FC: YEN

Installation of PVC Pipe 300mm

LC: US\$

Total estimate for 145m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	PVC pipe 300mm	m	145	0	24.10					0	3,495	
	Above others 15%	L.S	21.75	0	24.10					0	524	
	Concrete anchor	m3	4	0	90.00					0	360	
	Fuel Truck 8t with crane	day	3	0	83					0	248	
	Sub Total									0	4,626	
2	Labor											
	Foreman	man. day	3			0	38.20			0	115	
	Labor	man. day	40			0	14.30			0	572	
	Truck 4t with crane	man. day	3			0	33			0	99	
	Sub Total									0	786	
3	Equipment											
	Truck 8t with crane	day	3					5,520	0	16,560	0	
	Sub Total									16,560	0	
Total										16,560	5,412	
Unit Price per m										114.21	37.32	
INDIRECT COST										15%	17.13	5.60
TOTAL										131	42.92	

4 LA UNION PORT DEVELOPMENT PROJECT

4C010704

FC: YEN

Backfill sand & Compaction for PVC pipe 300mm

LC: US\$

Total estimate for 145 m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Backfill material	m3	88	0	0.00					0	0	
	Wasted Backfill sand (25%)	m3	22	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	1	0	95					0	95	
	" Plate compactor	day	2.0	0	4					0	7	
	Sub Total									0	103	
2	Labor											
	Foreman	man. day	2			0	38.20			0	76	
	Labor	man. day	27			0	14.30			0	386	
	Backhoe 0.8m3	man. day	1			0	33			0	33	
	Sub Total									0	496	
3	Equipment											
	Backhoe 0.8m3	day	1					11,280	0	11,280	0	
	Plate compactor	day	2					212.40	0	425	0	
	Sub Total									11,705	0	
Total										11,705	598	
Unit Price per m										80.72	4.13	
INDIRECT COST										15%	12.11	0.62
TOTAL										93	4.74	



Appendix-3. Equipment Cost

LA UNION PORT DEVELOPMENT PROJECT

4C0107

FC: YEN

Truck 4t with crane 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.	250.00	0	0.33					0	83
	Others	L.S.	1	0	0.00					0	0
	Sub Total									0	83
2	Labor										
	Operator	man. day	1			0	33.00			0	33
	Others	L.S.	1			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Truck 4t with crane	day	1					5520	0	5,520	0
	Sub Total									5,520	0
	Total									5,520	116

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

100ps x 0.2 x 6 x 1.05

4C0107-1

## Appendix-3. Equipment Cost

LA UNION PORT DEVELOPMENT PROJECT

4C0107

FC: YEN

LC: US\$

Dump truck 10t 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.	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 &amp; Lubricant: 335ps x 0.11 x 8 x 1.05

Appendix-3. Equipment Cost

LA UNION PORT DEVELOPMENT PROJECT

4C0107

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

4C0107-3

## Appendix-3. Equipment Cost

LA UNION PORT DEVELOPMENT PROJECT

4C0107

FC: YEN

LC: US\$

Plate Compactor 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	2.00					0	2
	Sub Total									0	4
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										
	Plate Compactor	day	1					212.4	0	212.40	0
	Sub Total									212.40	0
	Total									212	37

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

LA UNION PORT DEVELOPMENT PROJECT

4C0108

PVC pipe, diameter 400mm

FC: YEN

LC: US\$

Total estimate for 145m

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
						Amount	
				FC	LC	FC	LC
4C010801	Excavation & Disposal	M	145	392.11	7.79	56,856	1,129.14
4C010802	Sand	M	145	92.83	9.42	13,461	1,366.42
4C010803	Installation Ductile Iron Pipe	M	145	175.12	77.13	25,392	11,184.30
4C010804	Backfill & Compaction	M	145	92.83	4.74	13,461	687.92
	Total					109,169	14,367.77
				Unit Price per m		753	99.09
						US\$	105.36

## LA UNION PORT DEVELOPMENT PROJECT

4C010801

FC: YEN

LC: US\$

Excavation &amp; Disposal for PVC pipe 400 mm

Total estimate for 145m

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	304	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	2	0	95					0	191	
	" Dump truck 10t	day	4	0	105					0	420	
	Sub Total									0	611	
2	Labor											
	Foreman	man. day	2			0	38.20			0	76	
	Labor	man. day	16			0	14.30			0	229	
	Backhoe 0.8m3	man. day	2			0	33			0	66	
	Dump truck 10t	man. day	4			0	33			0	132	
	Sub Total									0	371	
3	Equipment											
	Backhoe 0.8m3	day	2					11,280	0	22,560	0	
	Dump truck 10t	day	4					6,720	0	26,880	0	
	Sub Total									49,440	0	
Total										49,440	982	
Unit Price per m										340.97	6.77	
INDIRECT COST										15%	51.14	1.02
TOTAL										392	7.79	

LA UNION PORT DEVELOPMENT PROJECT

4C010802

Sand for Foundation of PVC Pipe 400mm

FC: YEN

LC: US\$

Total estimate for 145 m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Sand	m3	124.00	0	5.16					0	640	
	Wasted sand (25%)	m3	31.00	0	5.16					0	160	
	Fuel Backhoe 0.8m3	day	1	0	95					0	95	
	" Plate compactor 50kg	day	2.0	0	4					0	7	
	Sub Total									0	902	
2	Labor											
	Foreman	man. day	1			0	38.20			0	38	
	Labor	man. day	15			0	14.30			0	215	
	Backhoe 0.8m3	man. day	1			0	33			0	33	
	Sub Total									0	286	
3	Equipment											
	Backhoe 0.8m3	day	1					11,280	0	11,280	0	
	Plate compactor 50kg	day	2					212.40	0	424.80	0	
	Sub Total									11,704.80	0	
Total										11,704.80	1,188	
Unit Price per m										80.72	8.19	
INDIRECT COST										15%	12.11	1.23
TOTAL										93	9.42	

## LA UNION PORT DEVELOPMENT PROJECT

4C010803

FC: YEN

LC: US\$

Installation of PVC Pipe 400mm

Total estimate for 145m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	PVC pipe 400mm	m	145	0	53.30					0	7,729	
	Above others 15%	L.S	21.75	0	24.10					0	524	
	Concrete anchor	m3	0	0	90.00					0	0	
	Fuel Truck 8t with crane	day	4	0	83					0	330	
	Sub Total									0	8,583	
2	Labor											
	Foreman	man. day	4			0	38.20			0	153	
	Labor	man. day	60			0	14.30			0	858	
	Truck 4t with crane	man. day	4			0	33			0	132	
	Sub Total									0	1,143	
3	Equipment											
	Truck 8t with crane	day	4					5,520	0	22,080	0	
	Sub Total									22,080	0	
Total										22,080	9,725	
Unit Price per m										152.28	67.07	
INDIRECT COST										15%	22.84	10.06
.TOTAL										175	77.13	



4 LA UNION PORT DEVELOPMENT PROJECT

4C010804

Backfill sand & Compaction for PVC pipe 400mm

FC: YEN

LC: US\$

Total estimate for 145 m

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Backfill material	m3	114	0	0.00					0	0	
	Wasted Backfill sand (25%	m3	28.5	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	1	0	95					0	95	
	" Plate compactor	day	2.0	0	4					0	7	
	Sub Total									0	103	
2	Labor											
	Foreman	man. day	2			0	38.20			0	76	
	Labor	man. day	27			0	14.30			0	386	
	Backhoe 0.8m3	man. day	1			0	33			0	33	
	Sub Total									0	496	
3	Equipment											
	Backhoe 0.8m3	day	1					11,280	0	11,280	0	
	Plate compactor	day	2					212.40	0	425	0	
	Sub Total									11,705	0	
Total										11,705	598	
Unit Price per m										80.72	4.13	
INDIRECT COST										15%	12.11	0.62
TOTAL										93	4.74	

Appendix-3. Equipment Cost  
 LA UNION PORT DEVELOPMENT PROJECT  
 4C0108

FC: YEN

LC: US\$

Truck 4t with crane 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.	250.00	0	0.33					0	83
	Others	L. S.	1	0	0.00					0	0
	Sub Total									0	83
2	Labor										
	Operator	man. day	1			0	33.00			0	33
	Others	L. S.	1			0	0.00			0	0
	Sub Total									0	33
3	Equipment										
	Truck 4t with crane	day	1					5520	0	5,520	0
	Sub Total									5,520	0
	Total									5,520	116

Fuel & Lubricant: 269ps x 0.11 x 4 x 1.05  
 100ps x 0.2 x 6 x 1.05

Appendix-3. Equipment Cost  
 LA UNION PORT DEVELOPMENT PROJECT

4C0108

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 .011 x 8 x 1.05

Appendix-3. Equipment Cost  
 LA UNION PORT DEVELOPMENT PROJECT  
 4C0108  
 Backhoe 0.8 m3 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.	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  
 4C0108  
 Plate Compactor 60-100kg 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.	5.00	0	0.33					0	2
	Others	L. S.	1	0	2.00					0	2
	Sub Total									0	4
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										
	Plate Compactor	day	1					212.4	0	212.40	0
	Sub Total									212.40	0
	Total									212	37

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

## LA UNION PORT DEVELOPMENT PROJECT

4C0201

FC: YEN

MANHOLE OF WASTE WATER

LC: US\$

Total estimate for 15 Nos

No	Work Item	Unit	Quantity	Basic Price		Unit Cost	
				Amount		Amount	
				FC	LC	FC	LC
4C020101	Excavation & Disposal	Nos.	15	482.45	8.13	7,237	122.00
4C020102	Crushed Stone for Foundation	Nos.	15	88.11	3.91	1,322	58.60
4C020103	Lean Concrete	Nos.	15	58.88	18.25	883	273.69
4C020104	Reinforcement	Nos.	15	5,474.00	319.58	82,110	4,793.77
4C020105	Corner Angle	Nos.	15	914.94	60.01	13,724	900.18
4C020106	Concrete Placing	Nos.	15	949.44	375.07	14,242	5,626.04
4C020107	Backfill Sand & Compaction	Nos.	15	113.87	10.10	1,708	151.51
	Total					121,225	11,925.79
Unit Price per No.						8,082	795.05

LA UNION PORT DEVELOPMENT PROJECT

4C020101

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	65.82	0	0.00					0	0	
	Fuel Backhoe 0.8m3	day	0.26	0	95					0	25	
	" Dump truck 10t	day	0.50	0	105					0	52	
	Sub Total									0	77	
2	Labor											
	Foreman	man. day				0	38.20			0	0	
	Labor	man. day	0.26			0	14.30			0	4	
	Backhoe 0.8m3	man. day	0.26			0	33			0	9	
	Dump truck 10t	man. day	0.50			0	33			0	17	
	Sub Total									0	29	
3	Equipment											
	Backhoe 0.8m3	day	0.26					11,280	0	2,933	0	
	Dump truck 10t	day	0.50					6,720	0	3,360	0	
	Sub Total									6,293	0	
Total										6,293	106	
Unit Price per No.										419.52	7.07	
INDIRECT COST										15%	62.93	1.06
TOTAL										482	8.13	

## LA UNION PORT DEVELOPMENT PROJECT

4C020102

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	5.07	0	5.16					0	26.16	
	Wasted crushed stone (25%)	m3	1.27	0	5.16					0	6.54	
	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	42.41	
2	Labor											
	Foreman	man. day	0.1			0	38.20			0	3.32	
	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	51	
Unit Price per No.										76.62	3.40	
INDIRECT COST										15%	11.49	0.51
TOTAL										88	3.91	



LA UNION PORT DEVELOPMENT PROJECT

4C020103

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	3.37	0	65.00					0	219	
	Wasted concrete(1.5%)	m3	0.05	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	225	
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	238	
Unit Price per No.										51.20	15.87	
INDIRECT COST										15%	7.68	2.38
TOTAL										59	18.25	

## LA UNION PORT DEVELOPMENT PROJECT

4C020104

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	4792.00	0	0.36					0	1,725	
	Wasted steel bar(1.5%)	kg	71.88	0	0.36					0	26	
	Fuel Truck crane 16t	day	5	0	77					0	383	
	" Truck 8t	day	5	0	80					0	399	
	" Generator 45KVA	day	5	0	24					0	119	
	Sub Total									0	2,652	
2	Labor											
	Foreman	man. day	5			0	38.20			0	191	
	Labor	man. day	50			0	14.30			0	715	
	Welder	man. day	5			0	23.09			0	115	
	Truck crane 16t	man. day	5			0	33			0	165	
	Truck 8t	man. day	5			0	33			0	165	
	Generator 45KVA	man. day	5			0	33			0	165	
	Sub Total									0	1,516	
3	Equipment											
	Truck crane 16t	day	5					9,480	0	47,400	0	
	Truck 8t	day	5					3,480	0	17,400	0	
	Generator 45KVA	day	5					1,080	0	5,400	0	
	Bar cutter	day	5					120	0	600	0	
	Bar bender	day	5					120	0	600	0	
	Sub Total									71,400	0	
Total										71,400	4,168	
Unit Price per No.										4,760.00	277.90	
INDIRECT COST										15%	714.00	41.68
TOTAL										5,474	319.58	

LA UNION PORT DEVELOPMENT PROJECT

4C020105

FC: YEN

Corner Angle 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											
	Coner angle	kg	166.65	0	0.36					0	60	
	Wasted corner angle (2%)	kg	3.33	0	0.36					0	1	
	Miscellaneous	L. S.	1	0	1.22					0	1	
	Fuel Truck 8t	day	2.5	0	80					0	200	
	" Generator 45KVA	day	2.50	0	24					0	59	
	Sub Total									0	322	
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	783	
Unit Price per No.										795.60	52.18	
INDIRECT COST										15%	119.34	7.83
TOTAL										915	60.01	

## LA UNION PORT DEVELOPMENT PROJECT

4C020106

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	142.86					0	2,143	
	Ready mixed concrete	m3	17.84	0	70.00					0	1,249	
	Wasted concrete (5%)	m3	0.89	0	70.00					0	62	
	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	4,756	
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	4,892	
Unit Price per No.										825.60	326.15	
INDIRECT COST										15%	123.84	48.92
TOTAL										949	375.07	

LA UNION PORT DEVELOPMENT PROJECT

4C020107

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	20.65	0	4.00					0	83	
	Wasted Backfill sand (25%)	m3	5.16	0	4.00					0	21	
	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	118	
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	132	
Unit Price per No.										99.02	8.78	
INDIRECT COST										15%	14.85	1.32
TOTAL										114	10.10	

APPENDIX-3. EQUIPMENT COST  
 LA UNION PORT DEVELOPMENT PROJECT  
 4C0201  
 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

4C0201

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

4C0201-2

APPENDIX-3. EQUIPMENT COST  
 LA UNION PORT DEVELOPMENT PROJECT  
 4C0201

FC: YEN

LC: US\$

Dump truck 10t 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.	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 &amp; Lubricant: 335ps x 0.11 x 8 x 1.05