

LA UNION PORT DEVELOPMENT PROJECT
2H060302

FC: YEN

LC: US\$

Total estimate for 1 LS

US\$=¥120

Placing of stone

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Stone	m3	19	0	5.16					0	96	11,517	
	Clay	m3	9	0	5.16					0	46	5,573	
	Wasted stone (25%)	m3	0.47	0	5.16					0	2	288	
	Masonry cement	m3	74.4	0	65.00					0	4,836	580,320	
	Wasted concrete(1.5%)	m3	1.12	0	65.00					0	73	8,705	
	Fuel Concrete mixer 0.6m3	day	1	0	0					0	0	0	
	" Generator 45KVA	day	1	0	24					0	24	2,851	
	" Truck 8t	day	1	0	80					0	80	9,587	
	" Compactor	day	1	0	4					0	4	438	
	Sub Total									0	5,161	619,279	
2	Labor												
	Foreman	man.day	1			0	38.20			0	38	4,584	
	Labor	man.day	20			0	14.30			0	286	34,320	
	Concrete mixer 0.6m3	man.day	1			0	33			0	33	3,960	
	Generator 45KVA	man.day	1			0	33			0	33	3,960	
	Truck 8t	man.day	1			0	33			0	33	3,960	
	Compactor	man.day	1			0	33			0	33	3,960	
	Sub Total									0	456	54,744	
3	Equipment												
	Concrete mixer 0.6m3	day	1					6,480	0	6,480	0	6,480	
	Generator 45KVA	day	1					1,080	0	1,080	0	1,080	
	Truck 8t	day	1					3,480	0	3,480	0	3,480	
	Compactor	day	1					212	0	212	0	212	
	Sub Total									7,560	0	7,560	
Total										7,560	5,617	681,583	
Unit Price per m										7,560.00	5,616.86	681,582.65	
INDIRECT COST										15%	1,134.00	842.53	102,237.40
TOTAL										8,694	6,459.38	783,820	

LA UNION PORT DEVELOPMENT PROJECT

2H0604

CANAL BRANCH

FC: YEN

LC: US\$

Total estimate for 210 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
						Amount		
				FC	LC	FC	LC	
2H060401	Excavation & Disposal	M	210	541	9.50	113,712	1,995.16	353,131
2H060402	Placing of stone	M	210	373	118.33	78,246	24,849.60	3,060,199
	Total					191,958	26,844.76	3,413,330
Unit Price per m						1,600	223.71	28,444

LA UNION PORT DEVELOPMENT PROJECT

2H060401

Excavation & Disposal

FC: YEN

LC: US\$

Total estimate for 210m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Excavation & Disposal	m3	1300	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	4	0	95					0	382	45,787	
	" Dump truck 10t	day	8	0	105					0	840	100,771	
	Sub Total									0	1,221	146,558	
2	Labor												
	Foreman	man.day	4			0	38.20			0	153	18,336	
	Labor	man.day	16			0	14.30			0	229	27,456	
	Backhoe 0.8m3	man.day	4			0	33			0	132	15,840	
	Dump truck 10t	man.day	8			0	33			0	264	31,680	
	Sub Total									0	514	61,632	
3	Equipment												
	Backhoe 0.8m3	day	4					11,280	0	45,120	0	45,120	
	Dump truck 10t	day	8					6,720	0	53,760	0	53,760	
	Sub Total									98,880	0	98,880	
Total										98,880	1,735	307,070	
Unit Price per m										470.86	8.26	1,462.24	
INDIRECT COST										15%	70.63	1.24	219.34
TOTAL										541	9.50	1,682	

LA UNION PORT DEVELOPMENT PROJECT

2H060402

Placing of stone

FC: YEN

LC: US\$

Total estimate for 210m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Stone	m3	168.0	0	5.16					0	867	104,026
	Clay	m3	60	0	5.16					0	310	37,152
	Wasted stone (25%)	m3	4.20	0	5.16					0	22	2,601
	Masonry cement	m3	252.0	0	65.00					0	16,380	1,965,600
	Wasted concrete(1.5%)	m3	3.78	0	65.00					0	246	29,484
	Fuel Concrete mixer 0.6m3	day	9	0	0					0	0	0
	" Generator 45KVA	day	9	0	24					0	214	25,661
	" Truck 8t	day	9	0	80					0	719	86,281
	" Compactor	day	9	0	4					0	33	3,942
	Sub Total									0	18,790	2,254,746
2	Labor											
	Foreman	man.day	9			0	38.20			0	344	41,256
	Labor	man.day	90			0	14.30			0	1,287	154,440
	Concrete mixer 0.6m3	man.day	9			0	33			0	297	35,640
	Generator 45KVA	man.day	9			0	33			0	297	35,640
	Truck 8t	man.day	9			0	33			0	297	35,640
	Compactor	man.day	9			0	33			0	297	35,640
	Sub Total									0	2,819	338,256
3	Equipment											
	Concrete mixer 0.6m3	day	9					6,480	0	58,320	0	58,320
	Generator 45KVA	day	9					1,080	0	9,720	0	9,720
	Truck 8t	day	9					3,480	0	31,320	0	31,320
	Compactor	day	9					212	0	1,912	0	1,912
	Sub Total									68,040	0	68,040
Total										68,040	21,608	2,661,042
Unit Price per m										324.00	102.90	12,671.63
INDIRECT COST										48.60	15.43	1,900.74
TOTAL										373	118.33	14,572

LA UNION PORT DEVELOPMENT PROJECT
 2H0605
 CANAL BRANCH type A-2

FC: YEN

LC: US\$

Total estimate for 270 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2H060501	Excavation & Disposal	M	270	421.16	8.51	113,712	2,298.76	389,563
2H060502	Crushed Stone for Foundation	M	270	48.95	2.96	13,216	799.99	109,215
2H060503	Lean Concrete	M	270	49.07	14.84	13,248	4,006.74	494,057
2H060504	Reinforcement	M	270	425.76	34.01	114,954	9,183.38	1,216,959
2H060505	Concrete Placing	M	270	730.89	234.70	197,340	63,369.49	7,801,678
2H060506	Backfill Sand & Compaction	M	270	189.78	20.38	51,241	5,503.57	711,669
	Total					503,711	85,161.92	10,723,142
				Unit Price per No.		1.866	315.41	39,715

LA UNION PORT DEVELOPMENT PROJECT

2H060501

Excavation & Disposal for Canal branch

FC: YEN

LC: US\$

Total estimate for 270m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Excavation sand	m3	1649	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	4	0	95					0	382	45,787	
	" Dump truck 10t	day	8	0	105					0	840	100,771	
	Sub Total									0	1,221	146,558	
2	Labor												
	Foreman	man.day	4			0	38.20			0	153	18,336	
	Labor	man.day	16			0	14.30			0	229	27,456	
	Backhoe 0.8m3	man.day	4			0	33			0	132	15,840	
	Dump truck 10t	man.day	8			0	33			0	264	31,680	
	Sub Total									0	778	93,312	
3	Equipment												
	Backhoe 0.8m3	day	4					11,280	0	45,120	0	45,120	
	Dump truck 10t	day	8					6,720	0	53,760	0	53,760	
	Sub Total									98,880	0	98,880	
Total										98,880	1,999	338,750	
Unit Price per No.										366.22	7.40	1,254.63	
INDIRECT COST										15%	54.93	1.11	188.19
TOTAL										421	8.51	1,443	

LA UNION PORT DEVELOPMENT PROJECT
2H060502

FC: YEN

LC: US\$

Total estimate for 270m

US\$=¥120

Crushed stone for Foundation of Manhole

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN
				Material		Labor		Equipment		Amount		
				FC	LG	FC	LC	FC	LC	FC	LC	
1	Material											
	Crushed stone	m3	72.90	0	5.16					0	376.16	45,140
	Wasted crushed stone (25%)	m3	18.23	0	5.16					0	94.04	11,285
	Fuel Backhoe 0.8m3	day	1	0	95					0	95.39	11,447
	" Tampa 60kg	day	1.0	0	2					0	1.65	198
	Sub Total									0	567.25	68,069
2	Labor											
	Foreman	man.day	1			0	38.20			0	38.20	4,584
	Labor	man.day	4			0	14.30			0	57.20	6,864
	Backhoe 0.8m3	man.day	1			0	33			0	33.00	3,960
	Sub Total									0	128.40	15,408
3	Equipment											
	Backhoe 0.8m3	day	1					11,280	0	11,280.00	0	11,280
	Tampa 60kg	day	1					212.40	0	212.40	0	212
	Sub Total									11,492	0	11,492
Total										11,492	696	94,970
Unit Price per m										42.56	2.58	351.74
INDIRECT COST										6.38	0.39	52.76
TOTAL										49	2.96	405

LA UNION PORT DEVELOPMENT PROJECT

2H060503

Lean Concrete

FC: YEN

LC: US\$

Total estimate for 270m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Ready mixed concrete	m3	48.60	0	65.00					0	3,159	379,080	
	Wasted concrete(1.5%)	m3	0.73	0	65.00					0	47	5,686	
	Fuel Concrete mixer 0.6m3	day	1.50	0	0					0	0	0	
	" Generator 45KVA	day	1.5	0	24					0	36	4,277	
	Sub Total									0	3,242	389,043	
2	Labor												
	Foreman	man.day	1.5			0	38.20			0	57	6,876	
	Labor	man.day	6			0	14.30			0	86	10,296	
	Concrete mixer 0.6m3	day	1.50			0	33			0	50	5,940	
	Generator 45KVA	day	1.5			0	33			0	50	5,940	
	Sub Total									0	242	29,052	
3	Equipment												
	Concrete mixer 0.6m3	day	1.50					6,480	0	9,720	0	9,720	
	Generator 45KVA	day	1.5					1,080	0	1,620	0	1,620	
	Vibrator	day	1.5					120	0	180	0	180	
	Sub Total									11,520	0	11,520	
Total										11,520	3,484	429,615	
Unit Price per m										42.67	12.90	1,591.17	
INDIRECT COST										15%	6.40	1.94	238.68
TOTAL										49	14.84	1,830	

LA UNION PORT DEVELOPMENT PROJECT
2H060504
Reinforcement

FC: YEN
LC: US\$

Total estimate for 270 m US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Reinforcement bar	ton	9.41	0	360.00					0	3,388	406,512	
	Wasted steel bar(1.5%)	ton	0.14	0	360.00					0	51	6,098	
	Fuel Truck crane 16t	day	7	0	77					0	536	64,310	
	" Truck 8t	day	7	0	80					0	559	67,108	
	" Generator 45KVA	day	7	0	24					0	166	19,958	
	Sub Total									0	4,700	563,988	
2	Labor												
	Foreman	man.day	7			0	38.20			0	267	32,088	
	Labor	man.day	140			0	14.30			0	2,002	240,240	
	Welder	man.day	14			0	23.09			0	323	38,791	
	Truck crane 16t	man.day	7			0	33			0	231	27,720	
	Truck 8t	man.day	7			0	33			0	231	27,720	
	Generator 45KVA	man.day	7			0	33			0	231	27,720	
	Sub Total									0	3,288	394,279	
3	Equipment												
	Truck crane 16t	day	7					9,480	0	66,360	0	66,360	
	Truck 8t	day	7					3,480	0	24,360	0	24,360	
	Generator 45KVA	day	7					1,080	0	7,560	0	7,560	
	Bar cutter	day	7					120	0	840	0	840	
	Bar bender	day	7					120	0	840	0	840	
	Sub Total									99,960	0	99,960	
Total										99,960	7,988	1,058,225	
Unit Price per m										370.22	29.58	3,919.35	
INDIRECT COST										15%	55.53	4.44	587.90
TOTAL										426	34.01	4,507	

LA UNION PORT DEVELOPMENT PROJECT

ZH060505

Concrete Placing

FC: YEN

LC: US\$

Total estimate for 270 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Ready mixed concrete	m3	516	0	70.00					0	36,120	4,334,400	
	Wasted concrete(5%)	m3	25.80	0	70.00					0	1,806	216,720	
	Formwork	m2	2,562	0	5.50					0	14,091	1,690,920	
	Elas tigh board	m2	25	0	5.50					0	140	16,764	
	Fuel Truck crane 16t	day	10	0	77					0	766	91,872	
	" Concrete mixer 0.6m3	day	10	0	0					0	0	0	
	" Generator 45KVA	day	10	0	24					0	238	28,512	
	Sub Total									0	53,160	6,379,188	
2	Labor												
	Foreman	man.day	10			0	38.20			0	382	45,840	
	Labor	man.day	40			0	14.30			0	572	68,640	
	Truck crane 16t	man.day	10			0	33			0	330	39,600	
	Concrete mixer 0.6m3	man.day	10			0	33			0	330	39,600	
	Generator 45KVA	man.day	10			0	33			0	330	39,600	
	Sub Total									0	1,944	233,280	
3	Equipment												
	Truck crane 16t	day	10					9,480	0	94,800	0	94,800	
	Concrete mixer 0.6m3	day	10					6,480	0	64,800	0	64,800	
	Generator 45KVA	day	10					1,080	0	10,800	0	10,800	
	Vibrator	day	10					120	0	1,200	0	1,200	
	Sub Total									171,600	0	171,600	
Total										171,600	55,104	6,784,068	
Unit Price per m										635.56	204.09	25,126.18	
INDIRECT COST										15%	95.33	30.61	3,768.93
TOTAL										731	234.70	28,895	

LA UNION PORT DEVELOPMENT PROJECT
2H060506

FC: YEN

LC: US\$

Total estimate for 270 m

US\$=¥120

Backfill sand & Compaction

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Backfill sand	m3	769	0	4.00					0	3,076	369,120	
	Wasted Backfill sand (25%)	m3	192.25	0	4.00					0	769	92,280	
	Fuel Backhoe 0.8m3	day	3	0	95					0	286	34,340	
	" Tire roller 8-20t	day	3	0	55					0	165	19,847	
	" Tampa 60kg	day	3	0	2					0	5	594	
	Sub Total									0	4,302	516,181	
2	Labor												
	Foreman	man.day	3			0	38.20			0	115	13,752	
	Labor	man.day	12			0	14.30			0	172	20,592	
	Backhoe 0.8m3	man.day	3			0	33			0	99	11,880	
	Tire roller 8-20t	man.day	3			0	33			0	99	11,880	
	Sub Total									0	484	58,104	
3	Equipment												
	Backhoe 0.8m3	day	3					11,280	0	33,840	0	33,840	
	Tire roller 8-20t	day	3					3,360	0	10,080	0	10,080	
	Tampa 60kg	day	3					212	0	637	0	637	
	Sub Total									44,557	0	44,557	
Total										44,557	4,786	618,842	
Unit Price per No.										165.03	17.72	2,292.01	
INDIRECT COST										15%	24.75	2.66	343.80
TOTAL										190	20.38	2,636	

LA UNION PORT DEVELOPMENT PROJECT

2H0606

CATCH BASIN

FC: YEN

LC: US\$

Total estimate for 1 LS

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2H060601	Excavation & Disposal	LS	1	56,856	997.58	56,856	997.58	176,565
2H060602	Placing of stone	LS	1	26,082	11,026.14	26,082	11,026.14	1,349,219
	Total					82,938	12,023.72	1,525,784
				Unit Price per LS		82,938	12,023.72	1,525,784

LA UNION PORT DEVELOPMENT PROJECT

2H060601

Excavation & Disposal

FC: YEN

LC: US\$

Total estimate for 1 LS

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Excavation & Disposal	m3	615	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	2	0	95					0	191	22,894	
	" Dump truck 10t	day	4.0	0	105					0	420	50,386	
	Sub Total									0	611	73,279	
2	Labor												
	Foreman	man.day	2			0	38.20			0	76	9,168	
	Labor	man.day	8			0	14.30			0	114	13,728	
	Backhoe 0.8m3	man.day	2			0	33			0	66	7,920	
	Dump truck 10t	man.day	4			0	33			0	132	15,840	
	Sub Total									0	257	30,816	
3	Equipment												
	Backhoe 0.8m3	day	2					11,280	0	22,560	0	22,560	
	Dump truck 10t	day	4					6,720	0	26,880	0	26,880	
	Sub Total									49,440	0	49,440	
Total										49,440	867	153,535	
Unit Price per LS										49,440.00	867.46	153,535.20	
INDIRECT COST													
										15%	7,416.00	130.12	23,030.28
TOTAL										56,856	997.58	176,565	

LA UNION PORT DEVELOPMENT PROJECT

2H060602

Placing of stone

FC: YEN

LC: US\$

Total estimate for 1 LS

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Stone	m3	58.0	0	5.16					0	299	35,914	
	Clay	m3	20	0	5.16					0	103	12,322	
	Wasted stone (25%)	m3	1.45	0	5.16					0	7	898	
	Ready mixed concrete	m3	120.0	0	65.00					0	7,800	936,000	
	Wasted concrete(1.5%)	m3	1.80	0	65.00					0	117	14,040	
	Fuel Concrete mixer 0.6m3	day	3	0	0					0	0	0	
	" Generator 45KVA	day	3	0	24					0	71	8,554	
	" Truck 8t	day	3	0	80					0	240	28,760	
	" Compactor	day	3	0	4					0	11	1,314	
	Sub Total									0	8,648	1,037,802	
2	Labor												
	Foreman	man.day	3			0	38.20			0	115	13,752	
	Labor	man.day	30			0	14.30			0	429	51,480	
	Concrete mixer 0.6m3	man.day	3			0	33			0	99	11,880	
	Generator 45KVA	man.day	3			0	33			0	99	11,880	
	Truck 8t	man.day	3			0	33			0	99	11,880	
	Compactor	man.day	3			0	33			0	99	11,880	
	Sub Total									0	940	112,752	
3	Equipment												
	Concrete mixer 0.6m3	day	3					6,480	0	19,440	0	19,440	
	Generator 45KVA	day	3					1,080	0	3,240	0	3,240	
	Truck 8t	day	3					3,480	0	10,440	0	10,440	
	Compactor	day	3					212	0	637	0	637	
	Sub Total									22,680	0	22,680	
Total										22,680	9,588	1,173,234	
Unit Price per LS										22,680.00	9,587.95	1,173,233.52	
INDIRECT COST										15%	3,402.00	1,438.19	175,985.03
TOTAL										26,082	11,026.14	1,349,219	

LA UNION PORT DEVELOPMENT PROJECT
 2H07
 DIVERSION CANAL TYPE B

FC: YEN

LC: US\$

Total estimate for 775m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2H0701	Excavation & Disposal	M	775	734	12.87	568,560	9,975.79	1,765,655
2H0702	Placing of stone	M	775	67	113.12	52,164	87,668.97	10,572,440
	Total					620,724	97,644.76	12,338,095
				Unit Price per m		801	125.99	15,920

LA UNION PORT DEVELOPMENT PROJECT

2H0701

Excavation & Disposal

FC: YEN

LC: US\$

Total estimate for 775m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Excavation & Disposal	m3	4791	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	20	0	95					0	1,908	228,936	
	" Dump truck 10t	day	40	0	105					0	4,199	503,856	
	Sub Total									0	6,107	732,792	
2	Labor												
	Foreman	man.day	20			0	38.20			0	764	91,680	
	Labor	man.day	80			0	14.30			0	1,144	137,280	
	Backhoe 0.8m3	man.day	20			0	33			0	660	79,200	
	Dump truck 10t	man.day	40			0	33			0	1,320	158,400	
	Sub Total									0	2,568	308,160	
3	Equipment												
	Backhoe 0.8m3	day	20					11,280	0	225,600	0	225,600	
	Dump truck 10t	day	40					6,720	0	268,800	0	268,800	
	Sub Total									494,400	0	494,400	
Total										494,400	8,675	1,535,352	
Unit Price per m										637.94	11.19	1,981.10	
INDIRECT COST													
										15%	95.69	1.68	297.16
TOTAL										734	12.87	2,278	

LA UNION PORT DEVELOPMENT PROJECT

2H0702

FC: YEN

LC: US\$

Total estimate 775 m

US\$=¥120

Placing of stone

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Stone	m3	616	0	5.16					0	3,179	381,427	
	Clay	m3	211	0	5.16					0	1,089	130,651	
	Wasted armor stone (25%)	m3	15.40	0	5.16					0	79	9,536	
	Sodding	m2	7000.00	0	0.80					0	5,600	672,000	
	Ready mixed concrete	m3	924.00	0	65.00					0	60,060	7,207,200	
	Wasted concrete(1.5%)	m3	13.86	0	65.00					0	901	108,108	
	Fuel Concrete mixer 0.6m3	day	6	0	0					0	0	0	
	" Generator 45KVA	day	6	0	24					0	143	17,107	
	" Truck 8t	day	6	0	80					0	479	57,521	
	" Truck 8t	day	6	0	4					0	22	2,628	
	Sub Total									0	71,551	8,586,178	
2	Labor												
	Foreman	man.day	12			0	38.20			0	458	55,008	
	Labor	man.day	240			0	14.30			0	3,432	411,840	
	Concrete mixer 0.6m3	man.day	6			0	33			0	198	23,760	
	Generator 45KVA	man.day	6			0	33			0	198	23,760	
	Truck 8t	man.day	6			0	33			0	198	23,760	
	Truck 8t	man.day	6			0	33			0	198	23,760	
	Sub Total									0	4,682	561,888	
3	Equipment												
	Concrete mixer 0.6m3	day	6					6,480	0	38,880	0	38,880	
	Generator 45KVA	day	6					1,080	0	6,480	0	6,480	
	Truck 8t	day	6					3,480	0	20,880	0	20,880	
	Concrete mixer 0.6m3	day	6					212	0	1,274	0	1,274	
	Sub Total									45,360	0	45,360	
Total										45,360	76,234	9,193,426	
Unit Price per m										58.53	98.37	11,862.49	
INDIRECT COST													
										15%	8.78	14.75	1,779.37
TOTAL										67	113.12	13,642	

LA UNION PORT DEVELOPMENT PROJECT

2H0703

OUTLET

FC: YEN

LC: US\$

Total estimate for 1 LS

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2H070301	Excavation & Disposal	LS	1	19,900	349.15	19,900	349.15	61,798
2H070302	Placing of stone	LS	1	5,216	3,417.40	5,216	3,417.40	415,304
	Total					25,116	3,766.55	477,102
Unit Price per LS						25,116	3,766.55	477,102

LA UNION PORT DEVELOPMENT PROJECT

2H070301

FC: YEN

LC: US\$

Total estimate for 1 LS

US\$=¥120

Excavation & Disposal

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Excavation & Disposal	m3	105	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	0.7	0	95					0	67	8,013	
	" Dump truck 10t	day	1.4	0	105					0	147	17,635	
	Sub Total									0	214	25,648	
2	Labor												
	Foreman	man.day	0.7			0	38.20			0	27	3,209	
	Labor	man.day	2.8			0	14.30			0	40	4,805	
	Backhoe 0.8m3	man.day	0.7			0	33			0	23	2,772	
	Dump truck 10t	man.day	1.4			0	33			0	46	5,544	
	Sub Total									0	90	10,786	
3	Equipment												
	Backhoe 0.8m3	day	0.7					11,280	0	7,896	0	7,896	
	Dump truck 10t	day	1.4					6,720	0	9,408	0	9,408	
	Sub Total									17,304	0	17,304	
Total										17,304	304	53,737	
Unit Price per m										17,304.00	303.61	53,737.32	
INDIRECT COST										15%	2,595.60	45.54	8,060.60
TOTAL										19,900	349.15	61,798	

LA UNION PORT DEVELOPMENT PROJECT

2H070302

Placing of stone

FC: YEN

LC: US\$

Total estimate for 1 LS

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Rubble Stone	m3	11.2	0	5.16					0	58	6,935		
	Clay	m3	6	0	5.16					0	31	3,715		
	Wasted stone (25%)	m3	0.28	0	5.16					0	1	173		
	Masonry cement	m3	37.9	0	65.00					0	2,464	295,620		
	Wasted concrete(1.5%)	m3	0.57	0	65.00					0	37	4,434		
	Fuel Concrete mixer 0.6m3	day	0.6	0	0					0	0	0		
	" Generator 45KVA	day	1	0	24					0	14	1,711		
	" Truck 8t	day	1	0	80					0	48	5,752		
	" Compactor	day	1	0	4					0	2	263		
	Sub Total									0	2,655	318,604		
2	Labor													
	Foreman	man.day	0.6			0	38.20			0	23	2,750		
	Labor	man.day	15			0	14.30			0	215	25,740		
	Concrete mixer 0.6m3	man.day	0.6			0	33			0	20	2,376		
	Generator 45KVA	man.day	0.6			0	33			0	20	2,376		
	Truck 8t	man.day	0.6			0	33			0	20	2,376		
	Compactor	man.day	0.6			0	33			0	20	2,376		
	Sub Total									0	317	37,994		
3	Equipment													
	Concrete mixer 0.6m3	day	0.6					6,480	0	3,888	0	3,888		
	Generator 45KVA	day	0.6					1,080	0	648	0	648		
	Truck 8t	day	0.6					3,480	0	2,088	0	2,088		
	Compactor	day	0.6					212	0	127	0	127		
	Sub Total									4,536	0	4,536		
Total										4,536	2,972	361,134		
Unit Price per m										4,536.00	2,971.65	361,133.92		
INDIRECT COST											15%	680.40	445.75	54,170.09
TOTAL										5,216	3,417.40	415,304		

LA UNION PORT DEVELOPMENT PROJECT

2H0704

CANAL BRANCH type B

FC: YEN

LC: US\$

Total estimate for 365 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2H070401	Excavation & Disposal	M	365	421.16	8.51	153,722	3,107.58	526,631
2H070402	Crushed Stone for Foundation	M	365	48.95	2.96	17,866	1,081.47	147,643
2H070403	Lean Concrete	M	365	49.07	14.84	17,909	5,416.52	667,892
2H070404	Reinforcement	M	365	425.76	34.01	155,401	12,414.56	1,645,148
2H070405	Concrete Placing	M	365	730.89	234.70	266,774	85,666.16	10,546,713
2H070406	Backfill Sand & Compaction	M	365	189.78	20.38	69,270	7,440.01	962,071
	Total					680,943	115,126.30	14,496,099
				Unit Price per No.		2,522	426.39	53,689

LA UNION PORT DEVELOPMENT PROJECT

2H070401

Excavation & Disposal for Canal branch

FC: YEN

LC: US\$

Total estimate for 270m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Excavation sand	m3	1649	0	0.00					0	0	0		
	Fuel Backhoe 0.8m3	day	4	0	95					0	382	45,787		
	" Dump truck 10t	day	8	0	105					0	840	100,771		
	Sub Total									0	1,221	146,558		
2	Labor													
	Foreman	man.day	4			0	38.20			0	153	18,336		
	Labor	man.day	16			0	14.30			0	229	27,456		
	Backhoe 0.8m3	man.day	4			0	33			0	132	15,840		
	Dump truck 10t	man.day	8			0	33			0	264	31,680		
	Sub Total									0	778	93,312		
3	Equipment													
	Backhoe 0.8m3	day	4					11,280	0	45,120	0	45,120		
	Dump truck 10t	day	8					6,720	0	53,760	0	53,760		
	Sub Total									98,880	0	98,880		
Total										98,880	1,999	338,750		
Unit Price per No.										366.22	7.40	1,254.63		
INDIRECT COST											15%	54.93	1.11	188.19
TOTAL										421	8.51	1,443		

LA UNION PORT DEVELOPMENT PROJECT
2H070402

FC: YEN
LC: US\$

Crushed stone for Foundation of Manhole

Total estimate for 270m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Crushed stone	m3	72.90	0	5.16					0	376.16	45,140	
	Wasted crushed stone (25%)	m3	18.23	0	5.16					0	94.04	11,285	
	Fuel Backhoe 0.8m3	day	1	0	95					0	95.39	11,447	
	" Tampa 60kg	day	1.0	0	2					0	1.65	198	
	Sub Total									0	567.25	68,069	
2	Labor												
	Foreman	man.day	1			0	38.20			0	38.20	4,584	
	Labor	man.day	4			0	14.30			0	57.20	6,864	
	Backhoe 0.8m3	man.day	1			0	33			0	33.00	3,960	
	Sub Total									0	128.40	15,408	
3	Equipment												
	Backhoe 0.8m3	day	1					11,280	0	11,280.00	0	11,280	
	Tampa 60kg	day	1					212.40	0	212.40	0	212	
	Sub Total									11,492	0	11,492	
Total										11,492	696	94,970	
Unit Price per m										42.56	2.58	351.74	
INDIRECT COST										15%	6.38	0.39	52.76
TOTAL										49	2.96	405	

LA UNION PORT DEVELOPMENT PROJECT

2H070403

Lean Concrete

FC: YEN

LC: US\$

Total estimate for 270m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Ready mixed concrete	m3	48.60	0	65.00					0	3,159	379,080	
	Wasted concrete(1.5%)	m3	0.73	0	65.00					0	47	5,686	
	Fuel Concrete mixer 0.6m3	day	1.50	0	0					0	0	0	
	" Generator 45KVA	day	1.5	0	24					0	36	4,277	
	Sub Total									0	3,242	389,043	
2	Labor												
	Foreman	man.day	1.5			0	38.20			0	57	6,876	
	Labor	man.day	6			0	14.30			0	86	10,296	
	Concrete mixer 0.6m3	day	1.50			0	33			0	50	5,940	
	Generator 45KVA	day	1.5			0	33			0	50	5,940	
	Sub Total									0	242	29,052	
3	Equipment												
	Concrete mixer 0.6m3	day	1.50					6,480	0	9,720	0	9,720	
	Generator 45KVA	day	1.5					1,080	0	1,620	0	1,620	
	Vibrator	day	1.5					120	0	180	0	180	
	Sub Total									11,520	0	11,520	
Total										11,520	3,484	429,615	
Unit Price per m										42.67	12.90	1,591.17	
INDIRECT COST										15%	6.40	1.94	238.68
TOTAL										49	14.84	1,830	

LA UNION PORT DEVELOPMENT PROJECT
2H070404

FC: YEN
LC: US\$

Total estimate for 270 m US\$=¥120

Reinforcement

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Reinforcement bar	ton	9.41	0	360.00					0	3,388	406,512	
	Wasted steel bar(1.5%)	ton	0.14	0	360.00					0	51	6,098	
	Fuel Truck crane 16t	day	7	0	77					0	536	64,310	
	" Truck 8t	day	7	0	80					0	559	67,108	
	" Generator 45KVA	day	7	0	24					0	166	19,958	
	Sub Total									0	4,700	563,986	
2	Labor												
	Foreman	man.day	7			0	38.20			0	267	32,088	
	Labor	man.day	140			0	14.30			0	2,002	240,240	
	Welder	man.day	14			0	23.09			0	323	38,791	
	Truck crane 16t	man.day	7			0	33			0	231	27,720	
	Truck 8t	man.day	7			0	33			0	231	27,720	
	Generator 45KVA	man.day	7			0	33			0	231	27,720	
	Sub Total									0	3,286	394,279	
3	Equipment												
	Truck crane 16t	day	7					9,480	0	66,360	0	66,360	
	Truck 8t	day	7					3,480	0	24,360	0	24,360	
	Generator 45KVA	day	7					1,080	0	7,560	0	7,560	
	Bar cutter	day	7					120	0	840	0	840	
	Bar bender	day	7					120	0	840	0	840	
	Sub Total									99,960	0	99,960	
Total										99,960	7,986	1,058,225	
Unit Price per m										370.22	29.58	3,919.35	
INDIRECT COST										15%	55.53	4.44	587.90
TOTAL										426	34.01	4,507	

LA UNION PORT DEVELOPMENT PROJECT

2H070405

Concrete Placing

FC: YEN

LC: US\$

Total estimate for 270 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Ready mixed concrete	m3	516	0	70.00					0	36,120	4,334,400	
	Wasted concrete(5%)	m3	25.80	0	70.00					0	1,806	216,720	
	Formwork	m2	2,562	0	5.50					0	14,091	1,690,920	
	Elasti board	m2	25	0	5.50					0	140	16,764	
	Fuel Truck crane 16t	day	10	0	77					0	766	91,872	
	" Concrete mixer 0.6m3	day	10	0	0					0	0	0	
	" Generator 45KVA	day	10	0	24					0	238	28,512	
	Sub Total									0	53,160	6,379,188	
2	Labor												
	Foreman	man.day	10			0	38.20			0	382	45,840	
	Labor	man.day	40			0	14.30			0	572	68,640	
	Truck crane 16t	man.day	10			0	33			0	330	39,600	
	Concrete mixer 0.6m3	man.day	10			0	33			0	330	39,600	
	Generator 45KVA	man.day	10			0	33			0	330	39,600	
	Sub Total									0	1,944	233,280	
3	Equipment												
	Truck crane 16t	day	10					9,480	0	94,800	0	94,800	
	Concrete mixer 0.6m3	day	10					6,480	0	64,800	0	64,800	
	Generator 45KVA	day	10					1,080	0	10,800	0	10,800	
	Vibrator	day	10					120	0	1,200	0	1,200	
	Sub Total									171,600	0	171,600	
Total										171,600	55,104	6,784,068	
Unit Price per m										635.56	204.09	25,126.18	
INDIRECT COST										15%	95.33	30.61	3,768.93
TOTAL										731	234.70	28,895	

LA UNION PORT DEVELOPMENT PROJECT
2H070406
Backfill sand & Compaction

FC: YEN
LC: US\$

Total estimate for 270 m US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Backfill sand	m3	769	0	4.00					0	3,076	369,120	
	Wasted Backfill sand (25%)	m3	192.25	0	4.00					0	769	92,280	
	Fuel Backhoe 0.8m3	day	3	0	95					0	286	34,340	
	" Tire roller 8-20t	day	3	0	55					0	165	19,847	
	" Tampa 60kg	day	3	0	2					0	5	594	
	Sub Total									0	4,302	516,181	
2	Labor												
	Foreman	man.day	3			0	38.20			0	115	13,752	
	Labor	man.day	12			0	14.30			0	172	20,592	
	Backhoe 0.8m3	man.day	3			0	33			0	99	11,880	
	Tire roller 8-20t	man.day	3			0	33			0	99	11,880	
	Sub Total									0	484	58,104	
3	Equipment												
	Backhoe 0.8m3	day	3					11,280	0	33,840	0	33,840	
	Tire roller 8-20t	day	3					3,360	0	10,080	0	10,080	
	Tampa 60kg	day	3					212	0	637	0	637	
	Sub Total									44,557	0	44,557	
Total										44,557	4,786	618,842	
Unit Price per No.										165.03	17.72	2,292.01	
INDIRECT COST										15%	24.75	2.66	343.80
TOTAL										190	20.38	2,636	

LA UNION PORT DEVELOPMENT PROJECT

2H08

MANHOLE TYPE 1

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		FC	LC	
				FC	LC			
2H0801	Excavation & Disposal	Nos.	10	2,843	57.47	28,428	574.69	97,391
2H0802	Crushed Stone for Foundation	Nos.	10	396	11.86	3,965	118.57	18,194
2H0803	Lean Concrete	Nos.	10	115	30.84	1,148	308.41	38,157
2H0804	Reinforcement	Nos.	10	6,569	529.93	65,688	5,299.27	701,600
2H0805	Corner Angle	Nos.	10	563	57.12	5,630	571.16	74,169
2H0806	Concrete Placing	Nos.	10	4,375	554.92	43,746	5,549.24	709,655
2H0807	Backfill Sand & Compaction	Nos.	10	3,416	221.62	34,161	2,216.21	300,106
Total						182,766	14,637.55	1,939,272
				Unit Price per No.		18,277	1,463.75	193,927

LA UNION PORT DEVELOPMENT PROJECT
2H0801
Excavation & Disposal for Manhole

FC: YEN
LC: US\$

Total estimate for 10 Nos US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Excavation sand	m3	321	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	1	0	95					0	95	11,447	
	" Dump truck 10t	day	2.0	0	105					0	210	25,193	
	Sub Total									0	305	36,640	
2	Labor												
	Foreman	man.day	1			0	38.20			0	38	4,584	
	Labor	man.day	4			0	14.30			0	57	6,864	
	Backhoe 0.8m3	man.day	1			0	33			0	33	3,960	
	Dump truck 10t	man.day	2			0	33			0	66	7,920	
	Sub Total									0	194	23,328	
3	Equipment												
	Backhoe 0.8m3	day	1					11,280	0	11,280	0	11,280	
	Dump truck 10t	day	2					6,720	0	13,440	0	13,440	
	Sub Total									24,720	0	24,720	
Total										24,720	500	84,688	
Unit Price per No.										2,472.00	49.97	8,468.76	
INDIRECT COST										15%	370.80	7.50	1,270.31
TOTAL										2,843	57.47	9,739	

LA UNION PORT DEVELOPMENT PROJECT

2H0802

FC: YEN

LC: US\$

Crushed stone for Foundation of Manhole

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Crushed stone	m3	5.50	0	5.16					0	28.38	3,406	
	Wasted crushed stone (25%)	m3	1.38	0	5.16					0	7.10	851	
	Fuel Backhoe 0.8m3	day	0.3	0	95					0	28.62	3,434	
	" Tampa 60kg	day	0.3	0	2					0	0.50	59	
	Sub Total									0	64.59	7,750	
2	Labor												
	Foreman	man.day	0.3			0	38.20			0	11.46	1,375	
	Labor	man.day	1.2			0	14.30			0	17.16	2,059	
	Backhoe 0.8m3	man.day	0.3			0	33			0	9.90	1,188	
	Sub Total									0	38.52	4,622	
3	Equipment												
	Backhoe 0.8m3	day	0.3					11,280	0	3,384.00	0	3,384	
	Tampa 60kg	day	0.3					212.40	0	63.72	0	64	
	Sub Total									3,448	0	3,448	
Total										3,448	103	15,821	
Unit Price per No.										344.77	10.31	1,582.06	
INDIRECT COST										15%	51.72	1.55	237.31
TOTAL										396	11.86	1,819	

LA UNION PORT DEVELOPMENT PROJECT

2H0803

FC: YEN

LC: US\$

Lean Concrete

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Ready mixed concrete	m3	3.70	0	65.00					0	241	28,860	
	Wasted concrete(1.5%)	m3	0.06	0	65.00					0	4	433	
	Fuel Concrete mixer 0.6m3	day	0.13	0	0					0	0	0	
	" Generator 45KVA	day	0.13	0	24					0	3	371	
	Sub Total									0	247	29,664	
2	Labor												
	Foreman	man.day	0.13			0	38.20			0	5	596	
	Labor	man.day	0.52			0	14.30			0	7	892	
	Concrete mixer 0.6m3	day	0.13			0	33			0	4	515	
	Generator 45KVA	day	0.13			0	33			0	4	515	
	Sub Total									0	21	2,518	
3	Equipment												
	Concrete mixer 0.6m3	day	0.13					6,480	0	842.4	0	842	
	Generator 45KVA	day	0.13					1,080	0	140.4	0	140	
	Vibrator	day	0.13					120	0	15.6	0	16	
	Sub Total									998	0	998	
Total										998	268	33,180	
Unit Price per No.										99.84	26.82	3,317.98	
INDIRECT COST										15%	14.98	4.02	497.70
TOTAL										115	30.84	3,816	

LA UNION PORT DEVELOPMENT PROJECT

2H0804

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

Reinforcement

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Reinforcement bar	ton	5.50	0	360.00					0	1,980	237,600	
	Wasted steel bar(1.5%)	ton	0.08	0	360.00					0	30	3,564	
	Fuel Truck crane 16t	day	4	0	77					0	306	36,749	
	" Truck 8t	day	4	0	80					0	320	38,347	
	" Generator 45KVA	day	4	0	24					0	95	11,405	
	Sub Total									0	2,731	327,665	
2	Labor												
	Foreman	man.day	4			0	38.20			0	153	18,336	
	Labor	man.day	80			0	14.30			0	1,144	137,280	
	Welder	man.day	8			0	23.09			0	195	22,166	
	Truck crane 16t	man.day	4			0	33			0	132	15,840	
	Truck 8t	man.day	4			0	33			0	132	15,840	
	Generator 45KVA	man.day	4			0	33			0	132	15,840	
	Sub Total									0	1,878	225,302	
3	Equipment												
	Truck crane 16t	day	4					9,480	0	37,920	0	37,920	
	Truck 8t	day	4					3,480	0	13,920	0	13,920	
	Generator 45KVA	day	4					1,080	0	4,320	0	4,320	
	Bar cutter	day	4					120	0	480	0	480	
	Bar bender	day	4					120	0	480	0	480	
	Sub Total									57,120	0	57,120	
Total										57,120	4,608	610,087	
Unit Price per No.										5,712.00	460.81	61,008.72	
INDIRECT COST										15%	856.80	69.12	9,151.31
TOTAL										6,569	529.93	70,160	

LA UNION PORT DEVELOPMENT PROJECT
2H0805
Corner Angle for Manhole

FC: YEN
LC: US\$

Total estimate for 10 Nos US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Coner angle	kg	266.00	0	0.36					0	96	11,491	
	Wasted corner angle(2%)	kg	5.32	0	0.36					0	2	230	
	Miscellaneous	L.S.	1	0	1.95					0	2	234	
	Fuel Truck 8t	day	1	0	80					0	80	9,587	
	" Generator 45KVA	day	1.0	0	24					0	24	2,851	
	Sub Total									0	203	24,393	
2	Labor												
	Foreman	man.day	1			0	38.20			0	38	4,584	
	Labor	man.day	10			0	14.30			0	143	17,160	
	Welder	man.day	2			0	23.09			0	46	5,542	
	Truck 8t	man.day	1			0	33			0	33	3,960	
	Generator 45KVA	man.day	1			0	33			0	33	3,960	
	Sub Total									0	293	35,206	
3	Equipment												
	Truck 8t	day	1					3,480	0	3,480	0	3,480	
	Generator 45KVA	day	1					1,080	0	1,080	0	1,080	
	Welder 300A	day	2					120	0	240	0	240	
	Other equipment	L.S.	1					96	0	96	0	96	
	Sub Total									4,896	0	4,896	
Total										4,896	497	64,495	
Unit Price per No.										489.60	49.67	6,449.50	
INDIRECT COST										15%	73.44	7.45	967.43
TOTAL										563	57.12	7,417	

LA UNION PORT DEVELOPMENT PROJECT

2H0806

Concrete Placing

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Cover for manhole	Nos	10.00	705	50.68					0	507	60,816	
	Ready mixed concrete	m3	25.60	0	70.00					0	1,792	215,040	
	Wasted concrete(5%)	m3	1.28	0	70.00					0	90	10,752	
	Formwork	m2	305.00	0	5.50					0	1,678	201,300	
	Fuel Truck crane 16t	day	2	0	77					0	153	18,374	
	" Concrete mixer 0.6m3	day	2	0	0					0	0	0	
	" Generator 45KVA	day	2	0	24					0	48	5,702	
	" Truck 8t	day	1	0	80					0	80	9,587	
	Sub Total									0	4,346	521,572	
2	Labor												
	Foreman	man.day	2			0	38.20			0	76	9,168	
	Labor	man.day	12			0	14.30			0	172	20,592	
	Truck crane 16t	man.day	2			0	33			0	66	7,920	
	Concrete mixer 0.6m3	man.day	2			0	33			0	66	7,920	
	Generator 45KVA	man.day	2			0	33			0	66	7,920	
	Truck 8t	man.day	1			0	33			0	33	3,960	
	Sub Total									0	479	57,480	
3	Equipment												
	Truck crane 16t	day	2					9,480	0	18,960	0	18,960	
	Concrete mixer 0.6m3	day	2					6,480	0	12,960	0	12,960	
	Generator 45KVA	day	2					1,080	0	2,160	0	2,160	
	Truck 8t	day	1					3,480	0	3,480	0	3,480	
	Vibrator	day	4					120	0	480	0	480	
	Sub Total									38,040	0	38,040	
Total										38,040	4,825	617,092	
Unit Price per No.										3,804.00	482.54	61,709.16	
INDIRECT COST										15%	570.60	72.38	9,256.37
TOTAL										4,375	554.92	70,966	

LA UNION PORT DEVELOPMENT PROJECT

2H0807

Backfill sand & Compaction

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Backfill sand	m3	260	0	4.00					0	1,040	124,800	
	Wasted Backfill sand (25%)	m3	65	0	4.00					0	260	31,200	
	Fuel Backhoe 0.8m3	day	2	0	95					0	191	22,894	
	" Tire roller 8-20t	day	2.0	0	55					0	110	13,231	
	" Tampa 60kg	day	2.0	0	2					0	3	396	
	Sub Total									0	1,604	192,521	
2	Labor												
	Foreman	man.day	2			0	38.20			0	76	9,168	
	Labor	man.day	8			0	14.30			0	114	13,728	
	Backhoe 0.8m3	man.day	2			0	33			0	66	7,920	
	Tire roller 8-20t	man.day	2			0	33			0	66	7,920	
	Sub Total									0	323	38,736	
3	Equipment												
	Backhoe 0.8m3	day	2					11,280	0	22,560	0	22,560	
	Tire roller 8-20t	day	2					3,360	0	6,720	0	6,720	
	Tampa 60kg	day	2					212	0	425	0	425	
	Sub Total									29,705	0	29,705	
Total										29,705	1,927	260,962	
Unit Price per No.										2,970.48	192.71	26,096.16	
INDIRECT COST										15%	445.57	28.91	3,914.42
TOTAL										3,416	221.62	30,011	

LA UNION PORT DEVELOPMENT PROJECT

2H09

MANHOLE TYPE 2

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
						Amount		
				FC	LC	FC	LC	
2H0901	Excavation & Disposal	Nos.	10	5,686	114.94	56,856	1,149.38	194,781
2H0902	Crushed Stone for Foundation	Nos.	10	529	15.79	5,287	157.85	24,229
2H0903	Lean Concrete	Nos.	10	159	41.01	1,590	410.10	50,801
2H0904	Reinforcement	Nos.	10	8,704	753.10	87,037	7,531.04	990,761
2H0905	Corner Angle	Nos.	10	676	68.57	6,756	685.73	89,045
2H0906	Concrete Placing	Nos.	10	4,775	772.14	47,748	7,721.35	974,310
2H0907	Backfill Sand & Compaction	Nos.	10	3,416	310.17	34,161	3,101.71	406,366
	Total					239,434	20,757.16	2,730,293
				Unit Price per No.		23,943	2,075.72	273,029

LA UNION PORT DEVELOPMENT PROJECT
2H0901

Excavation & Disposal for Manhole

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Excavation sand	m3	511	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	2	0	95					0	191	22,894	
	" Dump truck 10t	day	4.0	0	105					0	420	50,386	
	Sub Total									0	611	73,279	
2	Labor												
	Foreman	man.day	2			0	38.20			0	76	9,168	
	Labor	man.day	8			0	14.30			0	114	13,728	
	Backhoe 0.8m3	man.day	2			0	33			0	66	7,920	
	Dump truck 10t	man.day	4			0	33			0	132	15,840	
	Sub Total									0	389	46,656	
3	Equipment												
	Backhoe 0.8m3	day	2					11,280	0	22,560	0	22,560	
	Dump truck 10t	day	4					6,720	0	26,880	0	26,880	
	Sub Total									49,440	0	49,440	
Total										49,440	999	169,375	
Unit Price per No.										4,944.00	99.95	16,937.52	
INDIRECT COST										15%	741.60	14.99	2,540.63
TOTAL										5,686	114.94	19,478	

LA UNION PORT DEVELOPMENT PROJECT

2H0902

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

Crushed stone for Foundation of Manhole

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Crushed stone	m3	7.30	0	5.16					0	37.67	4,520	
	Wasted crushed stone (25%)	m3	1.83	0	5.16					0	9.42	1,130	
	Fuel Backhoe 0.8m3	day	0.4	0	95					0	38.16	4,579	
	" Tampa 60kg	day	0.4	0	2					0	0.66	79	
	Sub Total									0	85.90	10,308	
2	Labor												
	Foreman	man.day	0.4			0	38.20			0	15.28	1,834	
	Labor	man.day	1.6			0	14.30			0	22.88	2,746	
	Backhoe 0.8m3	man.day	0.4			0	33			0	13.20	1,584	
	Sub Total									0	51.36	6,163	
3	Equipment												
	Backhoe 0.8m3	day	0.4					11,280	0	4,512.00	0	4,512	
	Tampa 60kg	day	0.4					212.40	0	84.96	0	85	
	Sub Total									4,597	0	4,597	
Total										4,597	137	21,068	
Unit Price per No.										459.70	13.73	2,106.83	
INDIRECT COST													
										15%	68.95	2.06	316.02
TOTAL											529	15.79	2,423

LA UNION PORT DEVELOPMENT PROJECT

ZH0903

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

Lean Concrete

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Ready mixed concrete	m3	4.90	0	65.00					0	319	38,220	
	Wasted concrete(1.5%)	m3	0.07	0	65.00					0	5	573	
	Fuel Concrete mixer 0.6m3	day	0.18	0	0					0	0	0	
	Generator 45KVA	day	0.18	0	24					0	4	513	
	Sub Total									0	328	39,307	
2	Labor												
	Foreman	man.day	0.18			0	38.20			0	7	825	
	Labor	man.day	0.72			0	14.30			0	10	1,236	
	Concrete mixer 0.6m3	day	0.18			0	33			0	6	713	
	Generator 45KVA	day	0.18			0	33			0	6	713	
	Sub Total									0	29	3,486	
3	Equipment												
	Concrete mixer 0.6m3	day	0.18					6,480	0	1,166.4	0	1,166	
	Generator 45KVA	day	0.18					1,080	0	194.4	0	194	
	Vibrator	day	0.18					120	0	21.6	0	22	
	Sub Total									1,382	0	1,382	
Total										1,382	357	44,175	
Unit Price per No.										138.24	35.66	4,417.52	
INDIRECT COST										15%	20.74	5.35	662.63
TOTAL										159	41.01	5,080	

LA UNION PORT DEVELOPMENT PROJECT

2H0904

Reinforcement

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Reinforcement bar	ton	8.50	0	360.00					0	3,060	367,200	
	Wasted steel bar(1.5%)	ton	0.13	0	360.00					0	46	5,508	
	Fuel Truck crane 16t	day	5.3	0	77					0	406	48,692	
	" Truck 8t	day	5.3	0	80					0	423	50,810	
	" Generator 45KVA	day	5	0	24					0	126	15,111	
	Sub Total									0	4,061	487,322	
2	Labor												
	Foreman	man.day	5.3			0	38.20			0	202	24,295	
	Labor	man.day	106			0	14.30			0	1,516	181,896	
	Welder	man.day	10.6			0	23.09			0	245	29,370	
	Truck crane 16t	man.day	5.3			0	33			0	175	20,988	
	Truck 8t	man.day	5.3			0	33			0	175	20,988	
	Generator 45KVA	man.day	5.3			0	33			0	175	20,988	
	Sub Total									0	2,488	298,526	
3	Equipment												
	Truck crane 16t	day	5.3					9,480	0	50,244	0	50,244	
	Truck 8t	day	5.3					3,480	0	18,444	0	18,444	
	Generator 45KVA	day	5.3					1,080	0	5,724	0	5,724	
	Bar cutter	day	5.3					120	0	636	0	636	
	Bar bender	day	5.3					120	0	636	0	636	
	Sub Total									75,684	0	75,684	
Total										75,684	6,549	861,531	
Unit Price per No.										7,568.40	654.87	86,153.12	
INDIRECT COST										15%	1,135.26	98.23	12,922.97
TOTAL										8,704	753.10	99,076	

LA UNION PORT DEVELOPMENT PROJECT

2H0905

FC: YEN

LC: US\$

Corner Angle for Manhole

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Coner angle	kg	320.00	0	0.36					0	115	13,824	
	Wasted corner angle(2%)	kg	6.40	0	0.36					0	2	276	
	Miscellaneous	L.S.	1	0	2.35					0	2	282	
	Fuel Truck 8t	day	1.2	0	80					0	96	11,504	
	" Generator 45KVA	day	1.2	0	24					0	29	3,421	
	Sub Total									0	244	29,308	
2	Labor												
	Foreman	man.day	1.2			0	38.20			0	46	5,501	
	Labor	man.day	12			0	14.30			0	172	20,592	
	Welder	man.day	2.4			0	23.09			0	55	6,650	
	Truck 8t	man.day	1.2			0	33			0	40	4,752	
	Generator 45KVA	man.day	1.2			0	33			0	40	4,752	
	Sub Total									0	352	42,247	
3	Equipment												
	Truck 8t	day	1.2					3,480	0	4,176	0	4,176	
	Generator 45KVA	day	1.2					1,080	0	1,296	0	1,296	
	Welder 300A	day	2.4					120	0	288	0	288	
	Other equipment	L.S.	1					115	0	115	0	115	
	Sub Total									5,875	0	5,875	
Total										5,875	596	77,430	
Unit Price per No.										587.52	59.63	7,743.00	
INDIRECT COST										15%	88.13	8.94	1,161.45
TOTAL										676	68.57	8,904	

LA UNION PORT DEVELOPMENT PROJECT

2H0906

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

Concrete Placing

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Cover for manhole	Nos	10.00	745	57.93					0	579	69,516	
	Ready mixed concrete	m3	38.00	0	70.00					0	2,660	319,200	
	Wasted concrete(5%)	m3	1.90	0	70.00					0	133	15,960	
	Formwork	m2	449.00	0	5.50					0	2,470	296,340	
	Fuel Truck crane 16t	day	2	0	77					0	153	18,374	
	" Concrete mixer 0.6m3	day	2	0	0					0	0	0	
	" Generator 45KVA	day	2	0	24					0	48	5,702	
	" Truck 8t	day	2	0	80					0	160	19,174	
	Sub Total									0	6,202	744,266	
2	Labor												
	Foreman	man.day	2			0	38.20			0	76	9,168	
	Labor	man.day	12			0	14.30			0	172	20,592	
	Truck crane 16t	man.day	2			0	33			0	66	7,920	
	Concrete mixer 0.6m3	man.day	2			0	33			0	66	7,920	
	Generator 45KVA	man.day	2			0	33			0	66	7,920	
	Truck 8t	man.day	2			0	33			0	66	7,920	
	Sub Total									0	512	61,440	
3	Equipment												
	Truck crane 16t	day	2					9,480	0	18,960	0	18,960	
	Concrete mixer 0.6m3	day	2					6,480	0	12,960	0	12,960	
	Generator 45KVA	day	2					1,080	0	2,160	0	2,160	
	Truck 8t	day	2					3,480	0	6,960	0	6,960	
	Vibrator	day	4					120	0	480	0	480	
	Sub Total									41,520	0	41,520	
Total										41,520	6,714	847,226	
Unit Price per No.										4,152.00	671.42	84,722.64	
INDIRECT COST													
										15%	622.80	100.71	12,708.40
TOTAL										4,775	772.14	97,431	

LA UNION PORT DEVELOPMENT PROJECT
2H0907

FC: YEN
LC: US\$

Total estimate for 10 Nos US\$=¥120

Backfill sand & Compaction

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Backfill sand	m3	414	0	4.00					0	1,656	198,720	
	Wasted Backfill sand (25%)	m3	103.5	0	4.00					0	414	49,680	
	Fuel Backhoe 0.8m3	day	2	0	95					0	191	22,894	
	" Tire roller 8-20t	day	2.0	0	55					0	110	13,231	
	" Tampa 60kg	day	2.0	0	2					0	3	396	
	Sub Total									0	2,374	284,921	
2	Labor												
	Foreman	man.day	2			0	38.20			0	76	9,168	
	Labor	man.day	8			0	14.30			0	114	13,728	
	Backhoe 0.8m3	man.day	2			0	33			0	66	7,920	
	Tire roller 8-20t	man.day	2			0	33			0	66	7,920	
	Sub Total									0	323	38,736	
3	Equipment												
	Backhoe 0.8m3	day	2					11,280	0	22,560	0	22,560	
	Tire roller 8-20t	day	2					3,360	0	6,720	0	6,720	
	Tampa 60kg	day	2					212	0	425	0	425	
	Sub Total									29,705	0	29,705	
Total										29,705	2,697	353,362	
Unit Price per No.										2,970.48	269.71	35,336.16	
INDIRECT COST										15%	445.57	40.46	5,300.42
TOTAL										3,416	310.17	40,637	

LA UNION PORT DEVELOPMENT PROJECT

2H10

MANHOLE TYPE 2-2

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		FC	LC	
				FC	LC			
2H1001	Excavation & Disposal	Nos.	10	5,686	114.94	56,856	1,149.38	194,781
2H1002	Crushed Stone for Foundation	Nos.	10	529	15.79	5,287	157.85	24,229
2H1003	Lean Concrete	Nos.	10	159	41.01	1,590	410.10	50,801
2H1004	Reinforcement	Nos.	10	8,704	790.92	87,037	7,909.23	1,036,144
2H1005	Corner Angle	Nos.	10	676	68.57	6,756	685.73	89,045
2H1006	Concrete Placing	Nos.	10	4,775	1,204.01	47,748	12,040.06	1,492,556
2H1007	Backfill Sand & Compaction	Nos.	10	3,416	359.62	34,161	3,596.21	465,706
	Total					239,434	25,948.56	3,353,261
				Unit Price per No.		23,943	2,594.86	335,326

LA UNION PORT DEVELOPMENT PROJECT
2H1001

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

Excavation & Disposal for Manhole

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Excavation sand	m3	608	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	2	0	95					0	191	22,894	
	" Dump truck 10t	day	4.0	0	105					0	420	50,386	
	Sub Total									0	611	73,279	
2	Labor												
	Foreman	man.day	2			0	38.20			0	76	9,168	
	Labor	man.day	8			0	14.30			0	114	13,728	
	Backhoe 0.8m3	man.day	2			0	33			0	66	7,920	
	Dump truck 10t	man.day	4			0	33			0	132	15,840	
	Sub Total									0	389	46,656	
3	Equipment												
	Backhoe 0.8m3	day	2					11,280	0	22,560	0	22,560	
	Dump truck 10t	day	4					6,720	0	26,880	0	26,880	
	Sub Total									49,440	0	49,440	
Total										49,440	999	169,375	
Unit Price per No.										4,944.00	99.95	16,937.52	
INDIRECT COST										15%	741.60	14.99	2,540.63
TOTAL										5,686	114.94	19,478	

LA UNION PORT DEVELOPMENT PROJECT
2H1002

FC: YEN
LC: US\$

Crushed stone for Foundation of Manhole

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Crushed stone	m3	7.30	0	5.16					0	37.67	4,520
	Wasted crushed stone (25%)	m3	1.83	0	5.16					0	9.42	1,130
	Fuel Backhoe 0.8m3	day	0.4	0	95					0	38.16	4,579
	" Tampa 60kg	day	0.4	0	2					0	0.66	79
	Sub Total									0	85.90	10,308
2	Labor											
	Foreman	man.day	0.4			0	38.20			0	15.28	1,834
	Labor	man.day	1.6			0	14.30			0	22.88	2,746
	Backhoe 0.8m3	man.day	0.4			0	33			0	13.20	1,584
	Sub Total									0	51.36	6,163
3	Equipment											
	Backhoe 0.8m3	day	0.4					11,280	0	4,512.00	0	4,512
	Tampa 60kg	day	0.4					212.40	0	84.96	0	85
	Sub Total									4,597	0	4,597
Total										4,597	137	21,068
Unit Price per No.										459.70	13.73	2,106.83
INDIRECT COST											15%	
										68.95	2.06	316.02
TOTAL										529	15.79	2,423

LA UNION PORT DEVELOPMENT PROJECT
2H1003

Lean Concrete

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Ready mixed concrete	m3	4.90	0	65.00					0	319	38,220	
	Wasted concrete(1.5%)	m3	0.07	0	65.00					0	5	573	
	Fuel Concrete mixer 0.6m3	day	0.18	0	0					0	0	0	
	" Generator 45KVA	day	0.18	0	24					0	4	513	
	Sub Total									0	328	39,307	
2	Labor												
	Foreman	man.day	0.18			0	38.20			0	7	825	
	Labor	man.day	0.72			0	14.30			0	10	1,236	
	Concrete mixer 0.6m3	day	0.18			0	33			0	6	713	
	Generator 45KVA	day	0.18			0	33			0	6	713	
	Sub Total									0	29	3,486	
3	Equipment												
	Concrete mixer 0.6m3	day	0.18					6,480	0	1,166.4	0	1,166	
	Generator 45KVA	day	0.18					1,080	0	194.4	0	194	
	Vibrator	day	0.18					120	0	21.6	0	22	
	Sub Total									1,382	0	1,382	
Total										1,382	357	44,175	
Unit Price per No.										138.24	35.66	4,417.52	
INDIRECT COST										15%	20.74	5.35	662.63
TOTAL										159	41.01	5,080	

LA UNION PORT DEVELOPMENT PROJECT

2H1004

Reinforcement

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Reinforcement bar	ton	9.40	0	360.00					0	3,384	406,080	
	Wasted steel bar(1.5%)	ton	0.14	0	360.00					0	51	6,091	
	Fuel Truck crane 16t	day	5.3	0	77					0	406	48,692	
	" Truck 8t	day	5.3	0	80					0	423	50,810	
	" Generator 45KVA	day	5	0	24					0	126	15,111	
	Sub Total									0	4,390	526,785	
2	Labor												
	Foreman	man.day	5.3			0	38.20			0	202	24,295	
	Labor	man.day	106			0	14.30			0	1,516	181,896	
	Welder	man.day	10.6			0	23.09			0	245	29,370	
	Truck crane 16t	man.day	5.3			0	33			0	175	20,988	
	Truck 8t	man.day	5.3			0	33			0	175	20,988	
	Generator 45KVA	man.day	5.3			0	33			0	175	20,988	
	Sub Total									0	2,488	298,526	
3	Equipment												
	Truck crane 16t	day	5.3					9,480	0	50,244	0	50,244	
	Truck 8t	day	5.3					3,480	0	18,444	0	18,444	
	Generator 45KVA	day	5.3					1,080	0	5,724	0	5,724	
	Bar cutter	day	5.3					120	0	636	0	636	
	Bar bender	day	5.3					120	0	636	0	636	
	Sub Total									75,684	0	75,684	
Total										75,684	6,878	900,994	
Unit Price per No.										7,568.40	687.76	90,099.44	
INDIRECT COST										15%	1,135.26	103.16	13,514.92
TOTAL										8,704	790.92	103,614	

LA UNION PORT DEVELOPMENT PROJECT
2H1005

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

Corner Angle for Manhole

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Coner angle	kg	320.00	0	0.36					0	115	13,824	
	Wasted corner angle(2%)	kg	6.40	0	0.36					0	2	276	
	Miscellaneous	L.S.	1	0	2.35					0	2	282	
	Fuel Truck 8t	day	1.2	0	80					0	96	11,504	
	" Generator 45KVA	day	1.2	0	24					0	29	3,421	
	Sub Total									0	244	29,308	
2	Labor												
	Foreman	man.day	1.2			0	38.20			0	46	5,501	
	Labor	man.day	12			0	14.30			0	172	20,592	
	Welder	man.day	2.4			0	23.09			0	55	6,650	
	Truck 8t	man.day	1.2			0	33			0	40	4,752	
	Generator 45KVA	man.day	1.2			0	33			0	40	4,752	
	Sub Total									0	352	42,247	
3	Equipment												
	Truck 8t	day	1.2					3,480	0	4,176	0	4,176	
	Generator 45KVA	day	1.2					1,080	0	1,296	0	1,296	
	Welder 300A	day	2.4					120	0	288	0	288	
	Other equipment	L.S.	1					115	0	115	0	115	
	Sub Total									5,875	0	5,875	
Total										5,875	596	77,430	
Unit Price per No.										587.52	59.63	7,743.00	
INDIRECT COST										15%	88.13	8.94	1,161.45
TOTAL										676	68.57	8,904	

LA UNION PORT DEVELOPMENT PROJECT

2H1006

Concrete Placing

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Cover for manhole	Nos	10.00	0	411.42					0	4,114	493,704		
	Ready mixed concrete	m3	41.00	0	70.00					0	2,870	344,400		
	Wasted concrete(5%)	m3	2.05	0	70.00					0	144	17,220		
	Formwork	m2	449.00	0	5.50					0	2,470	296,340		
	Fuel Truck crane 16t	day	2	0	77					0	153	18,374		
	" Concrete mixer 0.6m3	day	2	0	0					0	0	0		
	" Generator 45KVA	day	2	0	24					0	48	5,702		
	" Truck 8t	day	2	0	80					0	160	19,174		
	Sub Total									0	9,958	1,194,914		
2	Labor													
	Foreman	man.day	2			0	38.20			0	76	9,168		
	Labor	man.day	12			0	14.30			0	172	20,592		
	Truck crane 16t	man.day	2			0	33			0	66	7,920		
	Concrete mixer 0.6m3	man.day	2			0	33			0	66	7,920		
	Generator 45KVA	man.day	2			0	33			0	66	7,920		
	Truck 8t	man.day	2			0	33			0	66	7,920		
	Sub Total									0	512	61,440		
3	Equipment													
	Truck crane 16t	day	2					9,480	0	18,960	0	18,960		
	Concrete mixer 0.6m3	day	2					6,480	0	12,960	0	12,960		
	Generator 45KVA	day	2					1,080	0	2,160	0	2,160		
	Truck 8t	day	2					3,480	0	6,960	0	6,960		
	Vibrator	day	4					120	0	480	0	480		
	Sub Total									41,520	0	41,520		
Total										41,520	10,470	1,297,874		
Unit Price per No.										4,152.00	1,046.96	129,787.44		
INDIRECT COST											15%	622.80	157.04	19,468.12
TOTAL										4,775	1,204.01	149,256		

LA UNION PORT DEVELOPMENT PROJECT
2H1007
Backfill sand & Compaction

FC: YEN
LC: US\$

Total estimate for 10 Nos US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Backfill sand	m3	500	0	4.00					0	2,000	240,000	
	Wasted Backfill sand (25%)	m3	125	0	4.00					0	500	60,000	
	Fuel Backhoe 0.8m3	day	2	0	95					0	191	22,894	
	" Tire roller 8-20t	day	2.0	0	55					0	110	13,231	
	" Tampa 60kg	day	2.0	0	2					0	3	396	
	Sub Total									0	2,804	336,521	
2	Labor												
	Foreman	man.day	2			0	38.20			0	76	9,168	
	Labor	man.day	8			0	14.30			0	114	13,728	
	Backhoe 0.8m3	man.day	2			0	33			0	66	7,920	
	Tire roller 8-20t	man.day	2			0	33			0	66	7,920	
	Sub Total									0	323	38,736	
3	Equipment												
	Backhoe 0.8m3	day	2					11,280	0	22,560	0	22,560	
	Tire roller 8-20t	day	2					3,360	0	6,720	0	6,720	
	Tampa 60kg	day	2					212	0	425	0	425	
	Sub Total									29,705	0	29,705	
Total										29,705	3,127	404,962	
Unit Price per No.										2,970.48	312.71	40,496.16	
INDIRECT COST										15%	445.57	46.91	6,074.42
TOTAL										3,416	359.62	46,571	

LA UNION PORT DEVELOPMENT PROJECT

2H11

MANHOLE TYPE 2-C

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount				
				FC	LC	FC	LC	
2H1101	Excavation & Disposal	Nos.	10	8,528	172.41	85,284	1,724.07	292,172
2H1102	Crushed Stone for Foundation	Nos.	10	529	18.53	5,287	185.29	27,522
2H1103	Lean Concrete	Nos.	10	177	60.40	1,766	604.03	74,250
2H1104	Reinforcement	Nos.	10	11,495	1,115.42	114,954	11,154.16	1,453,453
2H1105	Corner Angle	Nos.	10	676	75.46	6,756	754.65	97,314
2H1106	Concrete Placing	Nos.	10	7,162	2,037.33	71,622	20,373.26	2,516,413
2H1107	Backfill Sand & Compaction	Nos.	10	5,124	539.43	51,241	5,394.32	698,559
	Total					336,910	40,189.79	5,159,685
				Unit Price per No.		33,691	4,018.98	515,968

LA UNION PORT DEVELOPMENT PROJECT
2H1101
Excavation & Disposal for Manhole

FC: YEN
LC: US\$

Total estimate for 10 Nos US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Excavation sand	m3	912	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	3	0	95					0	286	34,340	
	" Dump truck 10t	day	6.0	0	105					0	630	75,578	
	Sub Total									0	916	109,919	
2	Labor												
	Foreman	man.day	3			0	38.20			0	115	13,752	
	Labor	man.day	12			0	14.30			0	172	20,592	
	Backhoe 0.8m3	man.day	3			0	33			0	99	11,880	
	Dump truck 10t	man.day	6			0	33			0	198	23,760	
	Sub Total									0	583	69,984	
3	Equipment												
	Backhoe 0.8m3	day	3					11,280	0	33,840	0	33,840	
	Dump truck 10t	day	6					6,720	0	40,320	0	40,320	
	Sub Total									74,160	0	74,160	
Total										74,160	1,499	254,063	
Unit Price per No.										7,416.00	149.92	25,406.28	
INDIRECT COST										15%	1,112.40	22.49	3,810.94
TOTAL										8,528	172.41	29,217	

LA UNION PORT DEVELOPMENT PROJECT
2H1102

FC: YEN
LC: US\$

Total estimate for 10 Nos US\$=¥120

Crushed stone for Foundation of Manhole

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Crushed stone	m3	11.00	0	5.16					0	56.76	6,811	
	Wasted crushed stone (25%)	m3	2.75	0	5.16					0	14.19	1,703	
	Fuel Backhoe 0.8m3	day	0.4	0	95					0	38.16	4,579	
	" Tampa 60kg	day	0.4	0	2					0	0.66	79	
	Sub Total									0	109.77	13,172	
2	Labor												
	Foreman	man.day	0.4			0	38.20			0	15.28	1,834	
	Labor	man.day	1.6			0	14.30			0	22.88	2,746	
	Backhoe 0.8m3	man.day	0.4			0	33			0	13.20	1,584	
	Sub Total									0	51.36	6,163	
3	Equipment												
	Backhoe 0.8m3	day	0.4					11,280	0	4,512.00	0	4,512	
	Tampa 60kg	day	0.4					212.40	0	84.96	0	85	
	Sub Total									4,597	0	4,597	
Total										4,597	161	23,932	
Unit Price per No.										459.70	16.11	2,393.21	
INDIRECT COST										15%	68.95	2.42	358.98
TOTAL											529	18.53	2,752

LA UNION PORT DEVELOPMENT PROJECT

2H1103

Lean Concrete

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Ready mixed concrete	m3	7.40	0	65.00					0	481	57,720	
	Wasted concrete(1.5%)	m3	0.11	0	65.00					0	7	866	
	Fuel Concrete mixer 0.6m3	day	0.20	0	0					0	0	0	
	" Generator 45KVA	day	0.2	0	24					0	5	570	
	Sub Total									0	493	59,156	
2	Labor												
	Foreman	man.day	0.2			0	38.20			0	8	917	
	Labor	man.day	0.8			0	14.30			0	11	1,373	
	Concrete mixer 0.6m3	day	0.20			0	33			0	7	792	
	Generator 45KVA	day	0.2			0	33			0	7	792	
	Sub Total									0	32	3,874	
3	Equipment												
	Concrete mixer 0.6m3	day	0.20					6,480	0	1,296	0	1,296	
	Generator 45KVA	day	0.2					1,080	0	216	0	216	
	Vibrator	day	0.2					120	0	24	0	24	
	Sub Total									1,536	0	1,536	
Total										1,536	525	64,566	
Unit Price per No.										153.60	52.52	6,456.56	
INDIRECT COST										15%	23.04	7.88	968.48
TOTAL										177	60.40	7,425	

LA UNION PORT DEVELOPMENT PROJECT

2H1104

Reinforcement

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Reinforcement bar	ton	14.10	0	360.00					0	5,076	609,120	
	Wasted steel bar(1.5%)	ton	0.21	0	360.00					0	76	9,137	
	Fuel Truck crane 16t	day	7	0	77					0	536	64,310	
	" Truck 8t	day	7	0	80					0	559	67,108	
	" Generator 45KVA	day	7	0	24					0	166	19,958	
	Sub Total									0	6,414	769,633	
2	Labor												
	Foreman	man.day	7			0	38.20			0	267	32,088	
	Labor	man.day	140			0	14.30			0	2,002	240,240	
	Welder	man.day	14			0	23.09			0	323	38,791	
	Truck crane 16t	man.day	7			0	33			0	231	27,720	
	Truck 8t	man.day	7			0	33			0	231	27,720	
	Generator 45KVA	man.day	7			0	33			0	231	27,720	
	Sub Total									0	3,286	394,279	
3	Equipment												
	Truck crane 16t	day	7					9,480	0	66,360	0	66,360	
	Truck 8t	day	7					3,480	0	24,360	0	24,360	
	Generator 45KVA	day	7					1,080	0	7,560	0	7,560	
	Bar cutter	day	7					120	0	840	0	840	
	Bar bender	day	7					120	0	840	0	840	
	Sub Total									99,960	0	99,960	
Total										99,960	9,699	1,263,872	
Unit Price per No.										9,996.00	969.93	126,387.24	
INDIRECT COST										15%	1,499.40	145.49	18,958.09
TOTAL										11,495	1,115.42	145,345	

LA UNION PORT DEVELOPMENT PROJECT

2H1105

Corner Angle for Manhole

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Coner angle	kg	480.00	0	0.36					0	173	20,736		
	Wasted corner angle(2%)	kg	9.60	0	0.36					0	3	415		
	Miscellaneous	L.S.	1	0	3.53					0	4	423		
	Fuel Truck 8t	day	1.2	0	80					0	96	11,504		
	" Generator 45KVA	day	1.2	0	24					0	29	3,421		
	Sub Total									0	304	36,499		
2	Labor													
	Foreman	man.day	1.2			0	38.20			0	46	5,501		
	Labor	man.day	12			0	14.30			0	172	20,592		
	Welder	man.day	2.4			0	23.09			0	55	6,650		
	Truck 8t	man.day	1.2			0	33			0	40	4,752		
	Generator 45KVA	man.day	1.2			0	33			0	40	4,752		
	Sub Total									0	352	42,247		
3	Equipment													
	Truck 8t	day	1.2					3,480	0	4,176	0	4,176		
	Generator 45KVA	day	1.2					1,080	0	1,296	0	1,296		
	Welder 300A	day	2.4					120	0	288	0	288		
	Other equipment	L.S.	1					115	0	115	0	115		
	Sub Total									5,875	0	5,875		
Total										5,875	656	84,621		
Unit Price per No.										587.52	65.62	8,462.13		
INDIRECT COST											15%	88.13	9.84	1,269.32
TOTAL										676	75.46	9,731		

LA UNION PORT DEVELOPMENT PROJECT

2H1106

Concrete Placing

FC: YEN

LC: US\$

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Cover for manhole	Nos	20.00	0	411.42					0	8,228	987,408		
	Ready mixed concrete	m3	61.50	0	70.00					0	4,305	516,600		
	Wasted concrete(5%)	m3	3.08	0	70.00					0	215	25,830		
	Formwork	m2	673.00	0	5.50					0	3,702	444,180		
	Fuel Truck crane 16t	day	3	0	77					0	230	27,562		
	" Concrete mixer 0.6m3	day	3	0	0					0	0	0		
	" Generator 45KVA	day	3	0	24					0	71	8,554		
	" Truck 8t	day	3	0	80					0	240	28,760		
	Sub Total									0	16,991	2,038,894		
2	Labor													
	Foreman	man.day	3			0	38.20			0	115	13,752		
	Labor	man.day	15			0	14.30			0	215	25,740		
	Truck crane 16t	man.day	3			0	33			0	99	11,880		
	Concrete mixer 0.6m3	man.day	3			0	33			0	99	11,880		
	Generator 45KVA	man.day	3			0	33			0	99	11,880		
	Truck 8t	man.day	3			0	33			0	99	11,880		
	Sub Total									0	725	87,012		
3	Equipment													
	Truck crane 16t	day	3					9,480	0	28,440	0	28,440		
	Concrete mixer 0.6m3	day	3					6,480	0	19,440	0	19,440		
	Generator 45KVA	day	3					1,080	0	3,240	0	3,240		
	Truck 8t	day	3					3,480	0	10,440	0	10,440		
	Vibrator	day	6					120	0	720	0	720		
	Sub Total									62,280	0	62,280		
Total										62,280	17,716	2,188,186		
Unit Price per No.										6,228.00	1,771.59	218,818.56		
INDIRECT COST											15%	934.20	265.74	32,822.78
TOTAL										7,162	2,037.33	251,641		

LA UNION PORT DEVELOPMENT PROJECT
2H1107

FC: YEN
LC: US\$

Backfill sand & Compaction

Total estimate for 10 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Backfill sand	m3	.750	0	4.00					0	3,000	360,000	
	Wasted Backfill sand (25%)	m3	187.5	0	4.00					0	750	90,000	
	Fuel Backhoe 0.8m3	day	3	0	95					0	286	34,340	
	" Tire roller 8-20t	day	3.0	0	55					0	165	19,847	
	" Tampa 60kg	day	3.0	0	2					0	5	594	
	Sub Total									0	4,207	504,781	
2	Labor												
	Foreman	man.day	3			0	38.20			0	115	13,752	
	Labor	man.day	12			0	14.30			0	172	20,592	
	Backhoe 0.8m3	man.day	3			0	33			0	99	11,880	
	Tire roller 8-20t	man.day	3			0	33			0	99	11,880	
	Sub Total									0	484	58,104	
3	Equipment												
	Backhoe 0.8m3	day	3					11,280	0	33,840	0	33,840	
	Tire roller 8-20t	day	3					3,360	0	10,080	0	10,080	
	Tampa 60kg	day	3					212	0	637	0	637	
	Sub Total									44,557	0	44,557	
Total										44,557	4,691	607,442	
Unit Price per No.										4,455.72	469.07	60,744.24	
INDIRECT COST										15%	668.36	70.36	9,111.64
TOTAL										5,124	539.43	69,856	

LA UNION PORT DEVELOPMENT PROJECT

2H12

Trench Type 1 without cover

FC: YEN

LC: US\$

Total estimate for 100m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2H1201	Excavation & Disposal	M	100	62	1.25	6,210	124.81	21,187
2H1202	Crushed Stone for Foundation	M	100	33	1.09	3,304	109.32	16,422
2H1203	Reinforcement	M	100	113	12.40	11,281	1,239.61	160,033
2H1204	Concrete Placing	M	100	197	38.72	19,734	3,872.50	484,434
2H1205	Backfill Sand & Compaction	M	100	52	2.46	5,173	245.50	34,633
	Total					45,702	5,591.73	716,710
				Unit Price per m		457	55.92	7,167

LA UNION PORT DEVELOPMENT PROJECT
2H1201

FC: YEN
LC: US\$

Excavation & Disposal for U-shaped Trench

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Excavation sand	m3	65	0	0.00					0	0	0		
	Fuel Backhoe 0.8m3	day	0.3	0	95					0	29	3,434		
	" Dump truck 10t	day	0.3	0	105					0	31	3,779		
	Sub Total									0	60	7,213		
2	Labor													
	Foreman	man.day	0.3			0	38.20			0	11	1,375		
	Labor	man.day	1.2			0	14.30			0	17	2,059		
	Backhoe 0.8m3	man.day	0.3			0	33			0	10	1,188		
	Dump truck 10t	man.day	0.3			0	33			0	10	1,188		
	Sub Total									0	48	5,810		
3	Equipment													
	Backhoe 0.8m3	day	0.3					11,280	0	3,384	0	3,384		
	Dump truck 10t	day	0.3					6,720	0	2,016	0	2,016		
	Sub Total									5,400	0	5,400		
Total										5,400	109	18,423		
Unit Price per m										54.00	1.09	184.23		
INDIRECT COST														
											15%	8.10	0.16	27.64
TOTAL										62	1.25	212		

LA UNION PORT DEVELOPMENT PROJECT
2H1202

FC: YEN
LC: US\$

Crushed stone for Foundation of U-shaped trench

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Crushed stone	m3	6.00	0	5.16					0	31	3,715	
	Wasted crushed stone (25%)	m3	1.50	0	5.16					0	8	929	
	Fuel Backhoe 0.8m3	day	0.25	0	95					0	24	2,862	
	" Tampa 60-100kg	day	0.3	0	2					0	0	50	
	Sub Total									0	63	7,555	
2	Labor												
	Foreman	man.day	0.25			0	38.20			0	10	1,146	
	Labor	man.day	1			0	14.30			0	14	1,716	
	Backhoe 0.8m3	man.day	0.25			0	33			0	8	990	
	Sub Total									0	32	3,852	
3	Equipment												
	Backhoe 0.8m3	day	0.25					11,280	0	2,820	0	2,820	
	Tampa	day	0.25					212.40	0	53	0	53	
	Sub Total									2,873	0	2,873	
Total										2,873	95	14,280	
Unit Price per m										28.73	0.95	142.80	
INDIRECT COST										15%	4.31	0.14	21.42
TOTAL										33	1.09	164	

LA UNION PORT DEVELOPMENT PROJECT
2H1203

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

Reinforcement

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Reinforcement bar	ton	1.90	0	360.00					0	684	82,080	
	Wasted re- bar(1.5%)	ton	0.03	0	360.00					0	10	1,231	
	Miscellaneous	L.S.	1.00	0	5.50					0	6	660	
	Fuel Truck crane 16t	day	0.64	0	77					0	49	5,880	
	" Truck 8t	day	0.64	0	80					0	51	6,136	
	" Generator 45KVA	day	1.4	0	24					0	33	3,992	
	Sub Total									0	833	99,978	
2	Labor												
	Foreman	man.day	1			0	38.20			0	38	4,584	
	Labor	man.day	6			0	14.30			0	86	10,296	
	Welder	man.day	1.4			0	23.09			0	32	3,879	
	Truck crane 16t	man.day	0.64			0	33			0	21	2,534	
	Truck 8t	man.day	0.64			0	33			0	21	2,534	
	Generator 45KVA	man.day	1.4			0	33			0	46	5,544	
	Sub Total									0	245	29,372	
3	Equipment												
	Truck crane 16t	day	0.64					9,480	0	6,067.2	0	6,067	
	Truck 8t	day	0.64					3,480	0	2,227	0	2,227	
	Generator 45KVA	day	1.4					1,080	0	1,512	0	1,512	
	Bar cutter	day	1.4					1	0	1	0	1	
	Bar bender	day	1.4					1	0	1	0	1	
	Sub Total									9,809	0	9,809	
Total										9,809	1,078	139,159	
Unit Price per m										98.09	10.78	1,391.59	
INDIRECT COST													
										15%	14.71	1.62	208.74
TOTAL										113	12.40	1,600	

LA UNION PORT DEVELOPMENT PROJECT

2H1204

Concrete Placing

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Ready mixed concrete	m3	19.00	0	67.00					0	1,273	152,760		
	Wasted concrete(5%)	m3	0.95	0	67.00					0	64	7,638		
	Formwork	m2	311.00	0	5.50					0	1,711	205,260		
	Elastigh board	m2	1.60	0	5.50					0	9	1,056		
	Fuel Truck crane 16t	day	1	0	77					0	77	9,187		
	" Concrete mixer 0.6m3	day	1	0	0					0	0	0		
	" Generator 45KVA	day	1	0	24					0	24	2,851		
	Sub Total									0	3,156	378,752		
2	Labor													
	Foreman	man.day	1			0	38.20			0	38	4,584		
	Labor	man.day	6			0	14.30			0	86	10,296		
	Truck crane 16t	man.day	1			0	33			0	33	3,960		
	Generator 45KVA	man.day	1			0	33			0	33	3,960		
	Truck 8t	man.day	0.64			0	33			0	21	2,534		
	Sub Total									0	211	25,334		
3	Equipment													
	Truck crane 16t	day	1					9,480	0	9,480	0	9,480		
	Concrete mixer 0.6m3	day	1					6,480	0	6,480	0	6,480		
	Generator 45KVA	day	1					1,080	0	1,080	0	1,080		
	Vibrator	day	1					120	0	120	0	120		
	Sub Total									17,160	0	17,160		
Total										17,160	3,367	421,247		
Unit Price per m										171.60	33.67	4,212.47		
INDIRECT COST											15%	25.74	5.05	631.87
TOTAL										197	38.72	4,844		

LA UNION PORT DEVELOPMENT PROJECT

2H1205

Backfill sand & Compaction

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Backfill sand	m3	20	0	4.00					0	80	9,600	
	Wasted Backfill sand (25%)	m3	5	0	4.00					0	20	2,400	
	Fuel Backhoe 0.8m3	day	0.3	0	95					0	29	3,434	
	" Tire roller 8-20t	day	0.3	0	55					0	17	1,985	
	" Tampa	day	0.5	0	2					0	1	99	
	Sub Total									0	146	17,518	
2	Labor												
	Foreman	man.day	0.5			0	38.20			0	19	2,292	
	Labor	man.day	2			0	14.30			0	29	3,432	
	Backhoe 0.8m3	man.day	0.3			0	33			0	10	1,188	
	Tire roller 8-20t	man.day	0.3			0	33			0	10	1,188	
	Sub Total									0	68	8,100	
3	Equipment												
	Backhoe 0.8m3	day	0.3					11,280	0	3,384	0	3,384	
	Tire roller 8-20t	day	0.3					3,360	0	1,008	0	1,008	
	Tampa	day	0.5					212.40	0	106	0	106	
	Sub Total									4,498	0	4,498	
Total										4,498	213	30,116	
Unit Price per m										44.98	2.13	301.16	
INDIRECT COST										15%	6.75	0.32	45.17
TOTAL										52	2.46	346	

LA UNION PORT DEVELOPMENT PROJECT

2H13

Trench Type 1 with concrete cover

FC: YEN

LC: US\$

Total estimate for 100m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
						Amount		
				FC	LC	FC	LC	
2H1301	Excavation & Disposal	M	100	62	1.25	6,210	124.81	21,187
2H1302	Crushed Stone for Foundation	M	100	33	1.09	3,304	109.32	16,422
2H1303	Reinforcement	M	100	113	15.76	11,261	1,575.77	200,373
2H1304	Concrete Placing	M	100	223	59.93	22,295	5,992.50	741,395
2H1305	Backfill Sand & Compaction	M	100	52	2.69	5,221	268.50	37,442
	Total					48,311	8,070.90	1,016,820
				Unit Price per m		483	80.71	10,168

LA UNION PORT DEVELOPMENT PROJECT
2H1301

Excavation & Disposal for U-shaped Trench

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Excavation sand	m3	72	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	0.3	0	95					0	29	3,434	
	" Dump truck 10t	day	0.3	0	105					0	31	3,779	
	Sub Total									0	60	7,213	
2	Labor												
	Foreman	man.day	0.3			0	38.20			0	11	1,375	
	Labor	man.day	1.2			0	14.30			0	17	2,059	
	Backhoe 0.8m3	man.day	0.3			0	33			0	10	1,188	
	Dump truck 10t	man.day	0.3			0	33			0	10	1,188	
	Sub Total									0	48	5,810	
3	Equipment												
	Backhoe 0.8m3	day	0.3					11,280	0	3,384	0	3,384	
	Dump truck 10t	day	0.3					6,720	0	2,016	0	2,016	
	Sub Total									5,400	0	5,400	
Total										5,400	109	18,423	
Unit Price per m										54.00	1.09	184.23	
INDIRECT COST													
										15%	8.10	0.16	27.64
TOTAL										62	1.25	212	

LA UNION PORT DEVELOPMENT PROJECT
2H1302

FC: YEN

LC: US\$

Crushed stone for Foundation of U-shaped trench

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Crushed stone	m3	6.00	0	5.16					0	31	3,715	
	Wasted crushed stone (25%)	m3	1.50	0	5.16					0	8	929	
	Fuel Backhoe 0.8m3	day	0.25	0	95					0	24	2,862	
	" Tampa 60-100kg	day	0.3	0	2					0	0	50	
	Sub Total									0	63	7,555	
2	Labor												
	Foreman	man.day	0.25			0	38.20			0	10	1,146	
	Labor	man.day	1			0	14.30			0	14	1,716	
	Backhoe 0.8m3	man.day	0.25			0	33			0	8	990	
	Sub Total									0	32	3,852	
3	Equipment												
	Backhoe 0.8m3	day	0.25					11,280	0	2,820	0	2,820	
	Tampa	day	0.25					212.40	0	53	0	53	
	Sub Total									2,873	0	2,873	
Total										2,873	95	14,280	
Unit Price per m										28.73	0.95	142.80	
INDIRECT COST										15%	4.31	0.14	21.42
TOTAL										33.04	1.09	164.22	

LA UNION PORT DEVELOPMENT PROJECT
2H1303
Reinforcement

FC: YEN
LC: US\$

Total estimate for 100 m US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Reinforcement bar	ton	2.70	0	360.00					0	972	116,640		
	Wasted re- bar(1.5%)	ton	0.04	0	360.00					0	15	1,750		
	Miscellaneous	L.S.	1.00	0	5.50					0	6	660		
	Fuel Truck crane 16t	day	0.64	0	77					0	49	5,880		
	" Truck 8t	day	0.64	0	80					0	51	6,136		
	" Generator 45KVA	day	1.4	0	24					0	33	3,992		
	Sub Total									0	1,125	135,057		
2	Labor													
	Foreman	man.day	1			0	38.20			0	38	4,584		
	Labor	man.day	6			0	14.30			0	86	10,296		
	Welder	man.day	1.4			0	23.09			0	32	3,879		
	Truck crane 16t	man.day	0.64			0	33			0	21	2,534		
	Truck 8t	man.day	0.64			0	33			0	21	2,534		
	Generator 45KVA	man.day	1.4			0	33			0	46	5,544		
	Sub Total									0	245	29,372		
3	Equipment													
	Truck crane 16t	day	0.64					9,480	0	6067.2	0	6,067		
	Truck 8t	day	0.64					3,480	0	2,227	0	2,227		
	Generator 45KVA	day	1.4					1,080	0	1,512	0	1,512		
	Bar cutter	day	1.4					1	0	1	0	1		
	Bar bender	day	1.4					1	0	1	0	1		
	Sub Total									9,809	0	9,809		
Total										9,809	1,370	174,238		
Unit Price per m										98.09	13.70	1,742.38		
INDIRECT COST											15%	14.71	2.08	261.36
TOTAL										112.81	15.76	2,003.73		

LA UNION PORT DEVELOPMENT PROJECT

2H1304

Concrete Placing

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Concrete cover	Nos	200.00	44.16	8.61					0	1,722	206,640	
	Ready mixed concrete	m3	20.00	0	67.00					0	1,340	160,800	
	Wasted concrete(5%)	m3	1.00	0	67.00					0	67	8,040	
	Formwork	m2	311.00	0	5.50					0	1,711	205,260	
	Elas tigh board	m2	1.60	0	5.50					0	9	1,056	
	Fuel Truck crane 16t	day	1	0	77					0	77	9,187	
	" Concrete mixer 0.6m3	day	1	0	0					0	0	0	
	" Generator 45KVA	day	1	0	24					0	24	2,851	
	" Truck 8t	day	0.64	0	80					0	51	6,136	
	Sub Total									0	5,000	599,970	
2	Labor												
	Foreman	man.day	1			0	38.20			0	38	4,584	
	Labor	man.day	6			0	14.30			0	86	10,296	
	Truck crane 16t	man.day	1			0	33			0	33	3,960	
	Generator 45KVA	man.day	1			0	33			0	33	3,960	
	Truck 8t	man.day	0.64			0	33			0	21	2,534	
	Sub Total									0	211	25,334	
3	Equipment												
	Truck crane 16t	day	1					9,480	0	9,480	0	9,480	
	Concrete mixer 0.6m3	day	1					6,480	0	6,480	0	6,480	
	Generator 45KVA	day	1					1,080	0	1,080	0	1,080	
	Truck 8t	day	0.64					3,480	0	2,227	0	2,227	
	Vibrator	day	1					120	0	120	0	120	
	Sub Total									19,387	0	19,387	
Total										19,387	5,211	644,692	
Unit Price per m										193.87	52.11	6,446.92	
INDIRECT COST										15%	29.08	7.82	967.04
TOTAL										222.95	59.93	7,413.95	

LA UNION PORT DEVELOPMENT PROJECT
2H1305

FC: YEN

LC: US\$

Backfill sand & Compaction

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Backfill sand	m3	24	0	4.00					0	96	11,520		
	Wasted Backfill sand (25%)	m3	6	0	4.00					0	24	2,880		
	Fuel Backhoe 0.8m3	day	0.3	0	95					0	29	3,434		
	" Tire roller 8-20t	day	0.3	0	55					0	17	1,985		
	" Tampa	day	0.5	0	2					0	1	99		
	Sub Total									0	166	19,918		
2	Labor													
	Foreman	man.day	0.5			0	38.20			0	19	2,292		
	Labor	man.day	2			0	14.30			0	29	3,432		
	Backhoe 0.8m3	man.day	0.3			0	33			0	10	1,188		
	Tire roller 8-20t	man.day	0.3			0	33			0	10	1,188		
	Sub Total									0	68	8,100		
3	Equipment													
	Backhoe 0.8m3	day	0.3					11,280	0	3,384	0	3,384		
	Tire roller 8-20t	day	0.3					3,500	0	1,050	0	1,050		
	Tampa	day	0.5					212.40	0	106	0	106		
	Sub Total									4,540	0	4,540		
Total										4,540	233	32,558		
Unit Price per m										45.40	2.33	325.58		
INDIRECT COST											15%	6.81	0.35	48.84
TOTAL										52.21	2.69	374.42		

LA UNION PORT DEVELOPMENT PROJECT

2H13

Cover for trench type 1

UNIT

FC: YEN

LC: US\$

Total estimate for 5904Nos.

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2H1301	Fabrication reinforcement bar	Nos	5,904	33.51	2.83	197,823.00	16,691.81	2,200,841
2H1302	Production of trench cover	Nos	5,904	11.00	5.79	64,915.20	34,167.90	4,165,064
Total						262,738.20	50,859.72	6,365,904.29
Unit Price per No.						45	8.61	1,078

LA UNION PORT DEVELOPMENT PROJECT
2H1301

UNIT
FC: YEN
LC: US\$

Fabrication of Reinforcement bar

Total estimate for 28 Nos

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Reinforcement bar D10-D13	ton	17.20	0	406.80					0	6,997	839,635	
	Wasted " (2%)	ton	0.34	0	406.8					0	140	16,793	
	Small size steel	kg	215	0	0.407					0	87	10,495	
	Welding rod	kg	65.0	0	2.1					0	137	16,380	
	Fuel Truck crane 16t	day	9.0	0	82					0	734	88,085	
	" Generator 45KVA	day	17.0	0	37					0	624	74,827	
	" Truck 8t	day	17.0	0	43					0	736	88,291	
	Sub Total									0	9,454	1,134,507	
2	Labor												
	Foreman	manday	17.0			0	38.2			0	649	77,928	
	Labor	manday	170.0			0	14.3			0	2,431	291,720	
	Welder	manday	17.0			0	33			0	561	67,320	
	Truck crane 16t	day	9.0			0	33			0	297	35,640	
	Generator 45KVA	day	17.0			0	33			0	561	67,320	
	Truck 8t	day	17.0			0	33			0	561	67,320	
	Sub Total									0	5,060	607,248	
3	Equipment												
	Truck crane 16t	dayunit	9.0					9,480	0	85,320	0	85,320	
	Generator 45KVA	dayunit	17.0					1,080	0	18,360	0	18,360	
	Truck 8t	dayunit	17.0					3,480	0	59,160	0	59,160	
	Bar Cutter	day.unit	17.0					270.00	0	4,590	0	4,590	
	Bar Bender	day.unit	17.0					270.00	0	4,590	0	4,590	
	Sub Total									172,020	0	172,020	
Total										172,020	14,515	1,913,775	
Unit Price per No.										29.14	2.46	324.15	
INDIRECT COST										15%	4.37	0.37	48.62
TOTAL										34	2.83	373	

LA UNION PORT DEVELOPMENT PROJECT
2H1302
Production of cover of manhole

UNIT
FC: YEN
LC: US\$

Total estimate for 5904 Nos US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Ready mixed concrete	m3	113	0	67.00					0	7,571	908,520	
	Wasted " (1.5%)	m3	1.7	0	67.0					0	151	18,170	
	Metal form bottom	m2	1,130	0	2.0					0	2,260	271,200	
	Metal form side	m2	1,090	0	5.2					0	5,668	680,160	
	Fuel Truck 8t	day	10.0	0	43					0	433	51,936	
	" Generator 45KVA	day	10.0	0	37					0	367	44,016	
	Sub Total									0	16,083	1,974,002	
2	Labor												
	Foreman	manday	40.0			0	38.2			0	1,528	183,360	
	Labor	manday	800			0	14.3			0	11,440	1,372,800	
	Truck 8t	day	10.0			0	33			0	330	39,600	
	Generator 45KVA	day	10.0			0	33			0	330	39,600	
	Sub Total									0	13,628	1,635,360	
3	Equipment												
	Truck crane 8t	dayunit	10.0					3,480	0	34,800	0	34,800	
	Generator 45KVA	dayunit	10.0					1,080	0	10,800	0	10,800	
	Vibrator	day.unit	80.0					135.60	0	10,848	0	10,848	
	Sub Total									56,448	0	56,448	
Total										56,448	29,711	3,665,810	
Unit Price per No.										9.56	5.03	620.90	
INDIRECT COST										15%	1.43	0.75	93.14
TOTAL										11	5.79	714	

LA UNION PORT DEVELOPMENT PROJECT

2H14

Trench Type 1 with grating cover

FC: YEN

LC: US\$

Total estimate for 100m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount				
				FC	LC	FC	LC	
2H1401	Excavation & Disposal	M	100	62	1.25	6,210	124.81	21,187
2H1402	Crushed Stone for Foundation	M	100	33	1.09	3,304	109.32	16,422
2H1403	Reinforcement	M	100	113	12.40	11,281	1,239.61	160,033
2H1404	Concrete Placing	M	100	223	183.64	22,295	18,364.20	2,225,999
2H1405	Backfill Sand & Compaction	M	100	52	2.28	5,173	228.25	32,563
	Total					48,263	20,066.19	2,456,205
				Unit Price per m		483	200.66	24,562

LA UNION PORT DEVELOPMENT PROJECT

2H1401

Excavation & Disposal for U-shaped Trench

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Excavation sand	m3	59	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	0.3	0	95					0	29	3,434	
	" Dump truck 10t	day	0.3	0	105					0	31	3,779	
	Sub Total									0	60	7,213	
2	Labor												
	Foreman	man.day	0.3			0	38.20			0	11	1,375	
	Labor	man.day	1.2			0	14.30			0	17	2,059	
	Backhoe 0.8m3	man.day	0.3			0	33			0	10	1,188	
	Dump truck 10t	man.day	0.3			0	33			0	10	1,188	
	Sub Total									0	48	5,810	
3	Equipment												
	Backhoe 0.8m3	day	0.3					11,280	0	3,384	0	3,384	
	Dump truck 10t	day	0.3					6,720	0	2,016	0	2,016	
	Sub Total									5,400	0	5,400	
Total										5,400	109	18,423	
Unit Price per m										54.00	1.09	184.23	
INDIRECT COST										15%	8.10	0.16	27.64
TOTAL										62	1.25	212	

LA UNION PORT DEVELOPMENT PROJECT
2H1402

FC: YEN
LC: US\$

Crushed stone for Foundation of U-shaped trench

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Crushed stone	m3	6.00	0	5.16					0	31	3,715	
	Wasted crushed stone (25%)	m3	1.50	0	5.16					0	8	929	
	Fuel Backhoe 0.8m3	day	0.25	0	95					0	24	2,862	
	" Tampa 60-100kg	day	0.3	0	2					0	0	50	
	Sub Total									0	63	7,555	
2	Labor												
	Foreman	man.day	0.25			0	38.20			0	10	1,146	
	Labor	man.day	1			0	14.30			0	14	1,716	
	Backhoe 0.8m3	man.day	0.25			0	33			0	8	990	
	Sub Total									0	32	3,852	
3	Equipment												
	Backhoe 0.8m3	day	0.25					11,280	0	2,820	0	2,820	
	Tampa	day	0.25					212.40	0	53	0	53	
	Sub Total									2,873	0	2,873	
Total										2,873	95	14,280	
Unit Price per m										28.73	0.95	142.80	
INDIRECT COST										15%	4.31	0.14	21.42
TOTAL										33.04	1.09	164.22	

LA UNION PORT DEVELOPMENT PROJECT

2H1403

Reinforcement

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Reinforcement bar	ton	1.90	0	360.00					0	684	82,080		
	Wasted re- bar(1.5%)	ton	0.03	0	360.00					0	10	1,231		
	Miscellaneous	L.S.	1.00	0	5.50					0	6	660		
	Fuel Truck crane 16t	day	0.64	0	77					0	49	5,880		
	" Truck 8t	day	0.64	0	80					0	51	6,136		
	" Generator 45KVA	day	1.4	0	24					0	33	3,992		
	Sub Total									0	833	99,978		
2	Labor													
	Foreman	man.day	1			0	38.20			0	38	4,584		
	Labor	man.day	6			0	14.30			0	86	10,296		
	Welder	man.day	1.4			0	23.09			0	32	3,879		
	Truck crane 16t	man.day	0.64			0	33			0	21	2,534		
	Truck 8t	man.day	0.64			0	33			0	21	2,534		
	Generator 45KVA	man.day	1.4			0	33			0	46	5,544		
	Sub Total									0	245	29,372		
3	Equipment													
	Truck crane 16t	day	0.64					9,480	0	6067.2	0	6,067		
	Truck 8t	day	0.64					3,480	0	2,227	0	2,227		
	Generator 45KVA	day	1.4					1,080	0	1,512	0	1,512		
	Bar cutter	day	1.4					1	0	1	0	1		
	Bar bender	day	1.4					1	0	1	0	1		
	Sub Total									9,809	0	9,809		
Total										9,809	1,078	139,159		
Unit Price per m										98.09	10.78	1,391.59		
INDIRECT COST											15%	14.71	1.62	208.74
TOTAL										112.81	12.40	1,600.33		

LA UNION PORT DEVELOPMENT PROJECT
2H1404

FC: YEN
LC: US\$

Total estimate for 100 m US\$=¥120

Concrete Placing

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Grating cover	Nos	100.00	0	124.80					0	12,480	1,497,600		
	Ready mixed concrete	m3	20.00	0	67.00					0	1,340	160,800		
	Wasted concrete(5%)	m3	1.00	0	67.00					0	67	8,040		
	Formwork	m2	311.00	0	5.50					0	1,711	205,260		
	Elastigh board	m2	1.60	0	5.50					0	9	1,056		
	Fuel Truck crane 16t	day	1	0	77					0	77	9,187		
	" Concrete mixer 0.6m3	day	1	0	0					0	0	0		
	" Generator 45KVA	day	1	0	24					0	24	2,851		
	" Truck 8t	day	0.64	0	80					0	51	6,136		
	Sub Total									0	15,758	1,890,930		
2	Labor													
	Foreman	man.day	1			0	38.20			0	38	4,584		
	Labor	man.day	6			0	14.30			0	86	10,296		
	Truck crane 16t	man.day	1			0	33			0	33	3,960		
	Generator 45KVA	man.day	1			0	33			0	33	3,960		
	Truck 8t	man.day	0.64			0	33			0	21	2,534		
	Sub Total									0	211	25,334		
3	Equipment													
	Truck crane 16t	day	1					9,480	0	9,480	0	9,480		
	Concrete mixer 0.6m3	day	1					6,480	0	6,480	0	6,480		
	Generator 45KVA	day	1					1,080	0	1,080	0	1,080		
	Truck 8t	day	0.64					3,480	0	2,227	0	2,227		
	Vibrator	day	1					120	0	120	0	120		
	Sub Total									19,387	0	19,387		
Total										19,387	15,969	1,935,652		
Unit Price per m										193.87	159.69	19,356.52		
INDIRECT COST											15%	29.08	23.95	2,903.48
TOTAL										222.95	183.64	22,259.99		

LA UNION PORT DEVELOPMENT PROJECT
2H1405

FC: YEN
LC: US\$

Total estimate for 100 m US\$=¥120

Backfill sand & Compaction

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Backfill sand	m3	17	0	4.00					0	68	8,160
	Wasted Backfill sand (25%)	m3	4.25	0	4.00					0	17	2,040
	Fuel Backhoe 0.8m3	day	0.3	0	95					0	29	3,434
	" Tire roller 8-20t	day	0.3	0	55					0	17	1,985
	" Tampa	day	0.5	0	2					0	1	99
	Sub Total									0	131	15,718
2	Labor											
	Foreman	man.day	0.5			0	38.20			0	19	2,292
	Labor	man.day	2			0	14.30			0	29	3,432
	Backhoe 0.8m3	man.day	0.3			0	33			0	10	1,188
	Tire roller 8-20t	man.day	0.3			0	33			0	10	1,188
	Sub Total									0	68	8,100
3	Equipment											
	Backhoe 0.8m3	day	0.3					11,280	0	3,384	0	3,384
	Tire roller 8-20t	day	0.3					3,360	0	1,008	0	1,008
	Tampa	day	0.5					212.40	0	106	0	106
	Sub Total									4,498	0	4,498
Total										4,498	198	28,316
Unit Price per m										44.98	1.98	283.16
INDIRECT COST											15%	
TOTAL										51.73	2.28	325.63

LA UNION PORT DEVELOPMENT PROJECT

2H15

Trench Type 2 without cover

FC: YEN

LC: US\$

Total estimate for 100m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2H1501	Excavation & Disposal	M	100	199	4.02	19,900	402.28	68,174
2H1502	Crushed Stone for Foundation	M	100	40	1.33	3,965	133.41	19,974
2H1503	Reinforcement	M	100	142	16.22	14,212	1,621.79	208,827
2H1504	Concrete Placing	M	100	197	52.84	19,734	5,284.16	653,833
2H1505	Backfill Sand & Compaction	M	100	102	4.92	10,248	492.36	69,332
	Total					68,059	7,934.00	1,020,139
				Unit Price per m		681	79.34	10,201

LA UNION PORT DEVELOPMENT PROJECT

2H1501

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

Excavation & Disposal for U-shaped Trench

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN
				Material		Labor		Equipment		Amount		
				FC	LC	FC	LC	FC	LC	FC	LC	
1	Material											
	Excavation sand	m3	128	0	0.00					0	0	0
	Fuel Backhoe 0.8m3	day	0.7	0	95					0	67	8,013
	" Dump truck 10t	day	1.4	0	105					0	147	17,635
	Sub Total									0	214	25,648
2	Labor											
	Foreman	man.day	0.7			0	38.20			0	27	3,209
	Labor	man.day	2.8			0	14.30			0	40	4,805
	Backhoe 0.8m3	man.day	0.7			0	33			0	23	2,772
	Dump truck 10t	man.day	1.4			0	33			0	46	5,544
	Sub Total									0	136	16,330
3	Equipment											
	Backhoe 0.8m3	day	0.7					11,280	0	7,896	0	7,896
	Dump truck 10t	day	1.4					6,720	0	9,408	0	9,408
	Sub Total									17,304	0	17,304
Total										17,304	350	59,281
Unit Price per m										173.04	3.50	592.81
INDIRECT COST												
									15%	25.96	0.52	88.92
TOTAL										199	4.02	682

LA UNION PORT DEVELOPMENT PROJECT
2H1502

FC: YEN
LC: US\$

Crushed stone for Foundation of U-shaped trench

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Crushed stone	m3	7.50	0	5.16					0	39	4,644	
	Wasted crushed stone (25%)	m3	1.88	0	5.16					0	10	1,161	
	Fuel Backhoe 0.8m3	day	0.3	0	95					0	29	3,434	
	" Tampa 60-100kg	day	0.3	0	2					0	0	59	
	Sub Total									0	77	9,298	
2	Labor												
	Foreman	man.day	0.3			0	38.20			0	11	1,375	
	Labor	man.day	1.2			0	14.30			0	17	2,059	
	Backhoe 0.8m3	man.day	0.3			0	33			0	10	1,188	
	Sub Total									0	39	4,622	
3	Equipment												
	Backhoe 0.8m3	day	0.3					11,280	0	3,384	0	3,384	
	Tampa	day	0.3					212.40	0	64	0	64	
	Sub Total									3,448	0	3,448	
Total										3,448	116	17,369	
Unit Price per m										34.48	1.16	173.69	
INDIRECT COST													
										15%	5.17	0.17	26.05
TOTAL										39.65	1.33	199.74	

LA UNION PORT DEVELOPMENT PROJECT

2H1503

Reinforcement

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Reinforcement bar	ton	2.45	0	360.00					0	882	105,840	
	Wasted re- bar(1.5%)	ton	0.04	0	360.00					0	13	1,588	
	Miscellaneous	L.S.	1.00	0	5.50					0	6	660	
	Fuel Truck crane 16t	day	0.82	0	77					0	63	7,534	
	" Truck 8t	day	0.82	0	80					0	66	7,861	
	" Generator 45KVA	day	1.6	0	24					0	39	4,676	
	Sub Total									0	1,068	128,158	
2	Labor												
	Foreman	man.day	1.6			0	38.20			0	61	7,334	
	Labor	man.day	9.6			0	14.30			0	137	16,474	
	Welder	man.day	1.6			0	23.09			0	37	4,433	
	Truck crane 16t	man.day	0.82			0	33			0	27	3,247	
	Truck 8t	man.day	0.82			0	33			0	27	3,247	
	Generator 45KVA	man.day	1.6			0	33			0	53	6,336	
	Sub Total									0	342	41,072	
3	Equipment												
	Truck crane 16t	day	0.82					9,480	0	7,773.6	0	7,774	
	Truck 8t	day	0.82					3,480	0	2,854	0	2,854	
	Generator 45KVA	day	1.6					1,080	0	1,728	0	1,728	
	Bar cutter	day	1.6					1	0	2	0	2	
	Bar bender	day	1.6					1	0	2	0	2	
	Sub Total									12,358	0	12,358	
Total										12,358	1,410	181,588	
Unit Price per m										123.58	14.10	1,815.88	
INDIRECT COST										15%	18.54	2.12	272.38
TOTAL										142.12	16.22	2,088.27	

LA UNION PORT DEVELOPMENT PROJECT
2H1504

FC: YEN
LC: US\$

Total estimate for 100 m US\$=¥120

Concrete Placing

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Ready mixed concrete	m3	27.00	0	67.00					0	1,809	217,080		
	Wasted concrete(5%)	m3	1.35	0	67.00					0	90	10,854		
	Formwork	m2	435.00	0	5.50					0	2,393	287,100		
	Elasti board	m2	2.30	0	5.50					0	13	1,518		
	Fuel Truck crane 16t	day	1	0	77					0	77	9,187		
	" Concrete mixer 0.6m3	day	1	0	0					0	0	0		
	" Generator 45KVA	day	1	0	24					0	24	2,851		
	Sub Total									0	4,405	528,590		
2	Labor													
	Foreman	man.day	1			0	38.20			0	38	4,584		
	Labor	man.day	6			0	14.30			0	86	10,296		
	Truck crane 16t	man.day	1			0	33			0	33	3,960		
	Generator 45KVA	man.day	1			0	33			0	33	3,960		
	Sub Total									0	190	22,800		
3	Equipment													
	Truck crane 16t	day	1					9,480	0	9,480	0	9,480		
	Concrete mixer 0.6m3	day	1					6,480	0	6,480	0	6,480		
	Generator 45KVA	day	1					1,080	0	1,080	0	1,080		
	Vibrator	day	1					120	0	120	0	120		
	Sub Total									17,160	0	17,160		
Total										17,160	4,595	568,550		
Unit Price per m										171.60	45.95	5,685.50		
INDIRECT COST											15%	25.74	6.89	852.83
TOTAL										197.34	52.84	6,538.33		

LA UNION PORT DEVELOPMENT PROJECT

2H1505

Backfill sand & Compaction

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Backfill sand	m3	48	0	4.00					0	192	23,040		
	Wasted Backfill sand (25%)	m3	12	0	4.00					0	48	5,760		
	Fuel Backhoe 0.8m3	day	0.6	0	95					0	57	6,868		
	" Tire roller 8-20t	day	0.6	0	55					0	33	3,969		
	" Tampa	day	0.6	0	2					0	1	119		
	Sub Total									0	331	39,756		
2	Labor													
	Foreman	man.day	0.6			0	38.20			0	23	2,750		
	Labor	man.day	2.4			0	14.30			0	34	4,118		
	Backhoe 0.8m3	man.day	0.6			0	33			0	20	2,376		
	Tire roller 8-20t	man.day	0.6			0	33			0	20	2,376		
	Sub Total									0	97	11,621		
3	Equipment													
	Backhoe 0.8m3	day	0.6					11,280	0	6,768	0	6,768		
	Tire roller 8-20t	day	0.6					3,360	0	2,016	0	2,016		
	Tampa	day	0.6					212.40	0	127	0	127		
	Sub Total									8,911	0	8,911		
Total										8,911	428	60,288		
Unit Price per m										89.11	4.28	602.88		
INDIRECT COST											15%	13.37	0.64	90.43
TOTAL										102.48	4.92	693.32		

LA UNION PORT DEVELOPMENT PROJECT
 2H16
 Trench Type 2 with concrete cover

FC: YEN
 LC: US\$

Total estimate for 100m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2H1601	Excavation & Disposal	M	100	199	4.02	19,900	402.28	68,174
2H1602	Crushed Stone for Foundation	M	100	40	1.33	3,965	133.41	19,974
2H1603	Reinforcement	M	100	142	16.22	14,212	1,621.79	208,827
2H1604	Concrete Placing	M	100	237	78.76	23,736	7,876.25	968,886
2H1605	Backfill Sand & Compaction	M	100	102	3.72	10,248	371.61	54,842
	Total					72,061	10,405.34	1,320,701
				Unit Price per m		721	104.05	13,207

LA UNION PORT DEVELOPMENT PROJECT
2H1601

FC: YEN
LC: US\$

Excavation & Disposal for U-shaped Trench

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Excavation sand	m3	93	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	0.7	0	95					0	67	8,013	
	" Dump truck 10t	day	1.4	0	105					0	147	17,635	
	Sub Total									0	214	25,648	
2	Labor												
	Foreman	man.day	0.7			0	38.20			0	27	3,209	
	Labor	man.day	2.8			0	14.30			0	40	4,805	
	Backhoe 0.8m3	man.day	0.7			0	33			0	23	2,772	
	Dump truck 10t	man.day	1.4			0	33			0	46	5,544	
	Sub Total									0	136	16,330	
3	Equipment												
	Backhoe 0.8m3	day	0.7					11,280	0	7,896	0	7,896	
	Dump truck 10t	day	1.4					6,720	0	9,408	0	9,408	
	Sub Total									17,304	0	17,304	
Total										17,304	350	59,281	
Unit Price per m										173.04	3.50	592.81	
INDIRECT COST													
										15%	25.96	0.52	88.92
TOTAL											199	4.02	682

LA UNION PORT DEVELOPMENT PROJECT

2H1602

FC: YEN

LC: US\$

Crushed stone for Foundation of U-shaped trench

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Crushed stone	m3	7.50	0	5.16					0	39	4,644	
	Wasted crushed stone (25%)	m3	1.88	0	5.16					0	10	1,161	
	Fuel Backhoe 0.8m3	day	0.3	0	95					0	29	3,434	
	" Tampa 60-100kg	day	0.3	0	2					0	0	59	
	Sub Total									0	77	9,298	
2	Labor												
	Foreman	man.day	0.3			0	38.20			0	11	1,375	
	Labor	man.day	1.2			0	14.30			0	17	2,059	
	Backhoe 0.8m3	man.day	0.3			0	33			0	10	1,188	
	Sub Total									0	39	4,622	
3	Equipment												
	Backhoe 0.8m3	day	0.3					11,280	0	3,384	0	3,384	
	Tampa	day	0.3					212.40	0	64	0	64	
	Sub Total									3,448	0	3,448	
Total										3,448	116	17,369	
Unit Price per m										34.48	1.16	173.69	
INDIRECT COST										15%	5.17	0.17	26.05
TOTAL										39.65	1.33	199.74	

LA UNION PORT DEVELOPMENT PROJECT

2H1603

Reinforcement

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Reinforcement bar	ton	2.45	0	360.00					0	882	105,840	
	Wasted re- bar(1.5%)	ton	0.04	0	360.00					0	13	1,588	
	Miscellaneous	L.S.	1.00	0	5.50					0	6	660	
	Fuel Truck crane 16t	day	0.82	0	77					0	63	7,534	
	" Truck 8t	day	0.82	0	80					0	66	7,861	
	" Generator 45KVA	day	1.6	0	24					0	39	4,676	
	Sub Total									0	1,068	128,158	
2	Labor												
	Foreman	man.day	1.6			0	38.20			0	61	7,334	
	Labor	man.day	9.6			0	14.30			0	137	16,474	
	Welder	man.day	1.6			0	23.09			0	37	4,433	
	Truck crane 16t	man.day	0.82			0	33			0	27	3,247	
	Truck 8t	man.day	0.82			0	33			0	27	3,247	
	Generator 45KVA	man.day	1.6			0	33			0	53	6,336	
	Sub Total									0	342	41,072	
3	Equipment												
	Truck crane 16t	day	0.82					9,480	0	7773.6	0	7,774	
	Truck 8t	day	0.82					3,480	0	2,854	0	2,854	
	Generator 45KVA	day	1.6					1,080	0	1,728	0	1,728	
	Bar cutter	day	1.6					1	0	2	0	2	
	Bar bender	day	1.6					1	0	2	0	2	
	Sub Total									12,358	0	12,358	
Total										12,358	1,410	181,588	
Unit Price per m										123.58	14.10	1,815.88	
INDIRECT COST										15%	18.54	2.12	272.38
TOTAL										142.12	16.22	2,088.27	

LA UNION PORT DEVELOPMENT PROJECT

2H1604

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

Concrete Placing

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Concrete cover	Nos	250.00	53.76	9.69					0	2,423	290,700		
	Ready mixed concrete	m3	23.00	0	67.00					0	1,541	184,920		
	Wasted concrete(5%)	m3	1.15	0	67.00					0	77	9,246		
	Formwork	m2	435.00	0	5.50					0	2,393	287,100		
	Elastigh board	m2	2.30	0	5.50					0	13	1,518		
	Fuel Truck crane 16t	day	1	0	77					0	77	9,187		
	" Concrete mixer 0.6m3	day	1	0	0					0	0	0		
	" Generator 45KVA	day	1	0	24					0	24	2,851		
	" Truck 8t	day	1	0	80					0	80	9,587		
	Sub Total									0	6,626	795,109		
2	Labor													
	Foreman	man.day	1			0	38.20			0	38	4,584		
	Labor	man.day	6			0	14.30			0	86	10,296		
	Truck crane 16t	man.day	1			0	33			0	33	3,960		
	Generator 45KVA	man.day	1			0	33			0	33	3,960		
	Truck 8t	man.day	1			0	33			0	33	3,960		
	Sub Total									0	223	26,760		
3	Equipment													
	Truck crane 16t	day	1					9,480	0	9,480	0	9,480		
	Concrete mixer 0.6m3	day	1					6,480	0	6,480	0	6,480		
	Generator 45KVA	day	1					1,080	0	1,080	0	1,080		
	Truck 8t	day	1					3,480	0	3,480	0	3,480		
	Vibrator	day	1					120	0	120	0	120		
	Sub Total									20,640	0	20,640		
Total										20,640	6,849	842,509		
Unit Price per m										206.40	68.49	8,425.09		
INDIRECT COST											15%	30.96	10.27	1,263.76
TOTAL										237.36	78.76	9,688.86		

LA UNION PORT DEVELOPMENT PROJECT

2H1605

Backfill sand & Compaction

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Backfill sand	m3	27	0	4.00					0	108	12,960		
	Wasted Backfill sand (25%)	m3	6.75	0	4.00					0	27	3,240		
	Fuel Backhoe 0.8m3	day	0.6	0	95					0	57	6,868		
	" Tire roller 8-20t	day	0.6	0	55					0	33	3,969		
	" Tampa	day	0.6	0	2					0	1	119		
	Sub Total									0	226	27,156		
2	Labor													
	Foreman	man.day	0.6			0	38.20			0	23	2,750		
	Labor	man.day	2.4			0	14.30			0	34	4,118		
	Backhoe 0.8m3	man.day	0.6			0	33			0	20	2,376		
	Tire roller 8-20t	man.day	0.6			0	33			0	20	2,376		
	Sub Total									0	97	11,621		
3	Equipment													
	Backhoe 0.8m3	day	0.6					11,280	0	6,768	0	6,768		
	Tire roller 8-20t	day	0.6					3,360	0	2,016	0	2,016		
	Tampa	day	0.6					212.40	0	127	0	127		
	Sub Total									8,911	0	8,911		
Total										8,911	323	47,688		
Unit Price per m										89.11	3.23	476.88		
INDIRECT COST											15%	13.37	0.48	71.53
TOTAL										102.48	3.72	548.42		

LA UNION PORT DEVELOPMENT PROJECT
 2H16
 Cover for trench type 2

UNIT
 FC: YEN
 LC: US\$

Total estimate for 1613Nos.

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2H1601	Fabrication reinforcement bar	Nos	1,613	42.09	3.62	67,896.00	5,834.03	767,979
2H1602	Production of trench cover	Nos	1,613	12.07	6.07	19,474.56	9,791.79	1,194,489
	Total					87,370.56	15,625.82	1,962,468.47
				Unit Price per No.		54	9.69	1,217

LA UNION PORT DEVELOPMENT PROJECT
2H1601

UNIT
FC: YEN
LC: US\$

Total estimate for 1613 Nos

US\$=¥120

Fabrication of Reinforcement bar

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Reinforcement bar D10-D13	ton	6.00	0	406.80					0	2,441	292896	
	Wasted " (2%)	ton	0.12	0	406.8					0	49	5,858	
	Small size steel	kg	75	0	0.407					0	31	3661	
	Welding rod	kg	23.0	0	2.1					0	48	5,796	
	Fuel Truck crane 16t	day	3.0	0	82					0	245	29,362	
	" Generator 45KVA	day	6.0	0	37					0	220	26,410	
	" Truck 8t	day	6.0	0	43					0	260	31,162	
	Sub Total									0	3,293	395,144	
2	Labor												
	Foreman	manday	6.0			0	38.2			0	229	27,504	
	Labor	manday	60.0			0	14.3			0	858	102,960	
	Welder	manday	6.0			0	33			0	198	23,760	
	Truck crane 16t	day	3.0			0	33			0	99	11,880	
	Generator 45KVA	day	6.0			0	33			0	198	23,760	
	Truck 8t	day	6.0			0	33			0	198	23,760	
	Sub Total									0	1,780	213,624	
3	Equipment												
	Truck crane 16t	dayunit	3.0					9,480	0	28,440	0	28,440	
	Generator 45KVA	dayunit	6.0					1,080	0	6,480	0	6,480	
	Truck 8t	dayunit	6.0					3,480	0	20,880	0	20,880	
	Bar Cutter	day.unit	6.0					270.00	0	1,620	0	1,620	
	Bar Bender	day.unit	6.0					270.00	0	1,620	0	1,620	
	Sub Total									59,040	0	59,040	
Total										59,040	5,073	667,808	
Unit Price per No.										36.60	3.15	414.02	
INDIRECT COST										15%	5.49	0.47	62.10
TOTAL										42	3.62	476	

LA UNION PORT DEVELOPMENT PROJECT
2H1602
Production of cover of manhole

UNIT
FC: YEN
LC: US\$

Total estimate for 1613 Nos US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Ready mixed concrete	m3	34	0	67.00					0	2,278	273,360	
	Wasted " (1.5%)	m3	0.5	0	67.0					0	46	5,467	
	Metal form bottom	m2	339	0	2.0					0	678	81,360	
	Metal form side	m2	249	0	5.2					0	1,295	155,376	
	Fuel Truck 8t	day	3.0	0	43					0	130	15,581	
	" Generator 45KVA	day	3.0	0	37					0	110	13,205	
	Sub Total									0	4,426	544,349	
2	Labor												
	Foreman	manday	12.0			0	38.2			0	458	55,008	
	Labor	manday	240			0	14.3			0	3,432	411,840	
	Truck 8t	day	3.0			0	33			0	99	11,880	
	Generator 45KVA	day	3.0			0	33			0	99	11,880	
	Sub Total									0	4,088	490,608	
3	Equipment												
	Truck crane 8t	dayunit	3.0					3,480	0	10,440	0	10,440	
	Generator 45KVA	dayunit	3.0					1,080	0	3,240	0	3,240	
	Vibrator	day.unit	24.0					135.60	0	3,254	0	3,254	
	Sub Total									16,934	0	16,934	
Total										16,934	8,515	1,051,891	
Unit Price per No.										10.50	5.28	652.13	
INDIRECT COST										15%	1.57	0.79	97.82
TOTAL										12	6.07	750	

LA UNION PORT DEVELOPMENT PROJECT

2H17

Trench Type 2 with grating cover

FC: YEN

LC: US\$

Total estimate for 100m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2H1701	Excavation & Disposal	M	100	199	4.02	19,900	402.28	68,174
2H1702	Crushed Stone for Foundation	M	100	40	1.33	3,965	133.41	19,974
2H1703	Reinforcement	M	100	142	16.22	14,212	1,621.79	208,827
2H1704	Concrete Placing	M	100	237	257.34	23,736	25,733.74	3,111,785
2H1705	Backfill Sand & Compaction	M	100	102	3.77	10,248	377.36	55,532
	Total					72,061	28,268.58	3,464,290
				Unit Price per m		721	282.69	34,643

LA UNION PORT DEVELOPMENT PROJECT
2H1701

FC: YEN
LC: US\$

Excavation & Disposal for U-shaped Trench

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Excavation sand	m3	87	0	0.00					0	0	0		
	Fuel Backhoe 0.8m3	day	0.7	0	95					0	67	8,013		
	" Dump truck 10t	day	1.4	0	105					0	147	17,635		
	Sub Total									0	214	25,648		
2	Labor													
	Foreman	man.day	0.7			0	38.20			0	27	3,209		
	Labor	man.day	2.8			0	14.30			0	40	4,805		
	Backhoe 0.8m3	man.day	0.7			0	33			0	23	2,772		
	Dump truck 10t	man.day	1.4			0	33			0	46	5,544		
	Sub Total									0	136	16,330		
3	Equipment													
	Backhoe 0.8m3	day	0.7					11,280	0	7,896	0	7,896		
	Dump truck 10t	day	1.4					6,720	0	9,408	0	9,408		
	Sub Total									17,304	0	17,304		
Total										17,304	350	59,281		
Unit Price per m										173.04	3.50	592.81		
INDIRECT COST											15%	25.96	0.52	88.92
TOTAL										199	4.02	682		

LA UNION PORT DEVELOPMENT PROJECT

2H1702

Crushed stone for Foundation of U-shaped trench

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Crushed stone	m3	7.50	0	5.16					0	39	4,644		
	Wasted crushed stone (25%)	m3	1.88	0	5.16					0	10	1,161		
	Fuel Backhoe 0.8m3	day	0.3	0	95					0	29	3,434		
	" Tampa 60-100kg	day	0.3	0	2					0	0	59		
	Sub Total									0	77	9,298		
2	Labor													
	Foreman	man.day	0.3			0	38.20			0	11	1,375		
	Labor	man.day	1.2			0	14.30			0	17	2,059		
	Backhoe 0.8m3	man.day	0.3			0	33			0	10	1,188		
	Sub Total									0	39	4,622		
3	Equipment													
	Backhoe 0.8m3	day	0.3					11,280	0	3,384	0	3,384		
	Tampa	day	0.3					212.40	0	64	0	64		
	Sub Total									3,448	0	3,448		
Total										3,448	116	17,369		
Unit Price per m										34.48	1.16	173.69		
INDIRECT COST											15%	5.17	0.17	26.05
TOTAL										39.65	1.33	199.74		

LA UNION PORT DEVELOPMENT PROJECT
2H1703

FC: YEN
LC: US\$

Total estimate for 100 m US\$=¥120

Reinforcement

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Reinforcement bar	ton	2.45	0	360.00					0	882	105,840	
	Wasted re- bar(1.5%)	ton	0.04	0	360.00					0	13	1,588	
	Miscellaneous	L.S.	1.00	0	5.50					0	6	660	
	Fuel Truck crane 16t	day	0.82	0	77					0	63	7,534	
	" Truck 8t	day	0.82	0	80					0	66	7,861	
	" Generator 45KVA	day	1.6	0	24					0	39	4,676	
	Sub Total									0	1,068	128,158	
2	Labor												
	Foreman	man.day	1.6			0	38.20			0	61	7,334	
	Labor	man.day	9.6			0	14.30			0	137	16,474	
	Welder	man.day	1.6			0	23.09			0	37	4,433	
	Truck crane 16t	man.day	0.82			0	33			0	27	3,247	
	Truck 8t	man.day	0.82			0	33			0	27	3,247	
	Generator 45KVA	man.day	1.6			0	33			0	53	6,336	
	Sub Total									0	342	41,072	
3	Equipment												
	Truck crane 16t	day	0.82					9,480	0	7,773.6	0	7,774	
	Truck 8t	day	0.82					3,480	0	2,854	0	2,854	
	Generator 45KVA	day	1.6					1,080	0	1,728	0	1,728	
	Bar cutter	day	1.6					1	0	2	0	2	
	Bar bender	day	1.6					1	0	2	0	2	
	Sub Total									12,358	0	12,358	
Total										12,358	1,410	181,588	
Unit Price per m										123.58	14.10	1,815.88	
INDIRECT COST										15%	18.54	2.12	272.38
TOTAL										142.12	16.22	2,088.27	

LA UNION PORT DEVELOPMENT PROJECT

2H1704

Concrete Placing

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Grating cover	Nos	250.00	0	72.00					0	18,000	2,160,000	
	Ready mixed concrete	m3	22.30	0	67.00					0	1,494	179,292	
	Wasted concrete(5%)	m3	1.12	0	67.00					0	75	8,965	
	Formwork	m2	435.00	0	5.50					0	2,393	287,100	
	Elas tigh board	m2	2.30	0	5.50					0	13	1,518	
	Fuel Truck crane 16t	day	1	0	77					0	77	9,187	
	" Concrete mixer 0.6m3	day	1	0	0					0	0	0	
	" Generator 45KVA	day	1	0	24					0	24	2,851	
	" Truck 8t	day	1	0	80					0	80	9,587	
	Sub Total									0	22,154	2,658,500	
2	Labor												
	Foreman	man.day	1			0	38.20			0	38	4,584	
	Labor	man.day	6			0	14.30			0	86	10,296	
	Truck crane 16t	man.day	1			0	33			0	33	3,960	
	Generator 45KVA	man.day	1			0	33			0	33	3,960	
	Truck 8t	man.day	1			0	33			0	33	3,960	
	Sub Total									0	223	26,760	
3	Equipment												
	Truck crane 16t	day	1					9,480	0	9,480	0	9,480	
	Concrete mixer 0.6m3	day	1					6,480	0	6,480	0	6,480	
	Generator 45KVA	day	1					1,080	0	1,080	0	1,080	
	Truck 8t	day	1					3,480	0	3,480	0	3,480	
	Vibrator	day	1					120	0	120	0	120	
	Sub Total							20,640	0	20,640	0	20,640	
Total										20,640	22,377	2,705,900	
Unit Price per m										206.40	223.77	27,059.00	
INDIRECT COST										15%	30.96	33.57	4,058.85
TOTAL										237.36	257.34	31,117.85	

LA UNION PORT DEVELOPMENT PROJECT
2H1705

FC: YEN

LC: US\$

Total estimate for 100 m

US\$=¥120

Backfill sand & Compaction

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN		
				Material		Labor		Equipment		Amount				
				FC	LC	FC	LC	FC	LC	FC	LC			
1	Material													
	Backfill sand	m3	28	0	4.00					0	112	13,440		
	Wasted Backfill sand (25%)	m3	7	0	4.00					0	28	3,360		
	Fuel Backhoe 0.8m3	day	0.6	0	95					0	57	6,868		
	" Tire roller 8-20t	day	0.6	0	55					0	33	3,969		
	" Tampa	day	0.6	0	2					0	1	119		
	Sub Total									0	231	27,756		
2	Labor													
	Foreman	man.day	0.6			0	38.20			0	23	2,750		
	Labor	man.day	2.4			0	14.30			0	34	4,118		
	Backhoe 0.8m3	man.day	0.6			0	33			0	20	2,376		
	Tire roller 8-20t	man.day	0.6			0	33			0	20	2,376		
	Sub Total									0	97	11,621		
3	Equipment													
	Backhoe 0.8m3	day	0.6					11,280	0	6,768	0	6,768		
	Tire roller 8-20t	day	0.6					3,360	0	2,016	0	2,016		
	Tampa	day	0.6					212.40	0	127	0	127		
	Sub Total									8,911	0	8,911		
Total										8,911	328	48,288		
Unit Price per m										89.11	3.28	482.88		
INDIRECT COST											15%	13.37	0.49	72.43
TOTAL										102.48	3.77	555.32		

LA UNION PORT DEVELOPMENT PROJECT

2J

Security Fence

FC: YEN

LC: US\$

Total estimate for 1302 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2J01	Production of post	M	1302	24	9.87	30,912.00	12,855.52	1,573,573.98
2J02	Placing of fence	M	1302	20	29.15	26,369.04	37,959.11	4,581,462.00
	Total					57,281.04	50,814.62	6,155,035.98
Unit Price per m						44	39.03	4,727

LA UNION PORT DEVELOPMENT PROJECT
2J01

FC: YEN

LC: US\$

Total estimate for 1302 m

US\$=¥120

Production of post

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Ready mixed concrete	m3	61.00	0	70.00					0	4,270	512,400	
	Wasted concrete(1.5%)	m3	0.92	0	70.00					0	64	7,686	
	Formwork	m2	591	0	1.10					0	650	78,012	
	Reinforcement bar	ton	3.87	0	360					0	1,393	167,184	
	Post	Nos	434	0	8					0	3,472	416,640	
	Fuel Truck with crane 8t	day	4	0	61					0	246	29,462	
	" Generator 45KVA	day	4	0	24					0	95	11,405	
	Sub Total									0	10,190	1,222,789	
2	Labor												
	Foreman	man.day	4			0	38.20			0	153	18,336	
	Labor	man.day	40			0	14.30			0	572	68,640	
	Truck with crane 8t	man.day	4			0	33			0	132	15,840	
	Generator 45KVA	man.day	4			0	33			0	132	15,840	
	Sub Total									0	989	118,656	
3	Equipment												
	Truck with crane 8t	day	4					5,520	0	22,080	0	22,080	
	Generator 45KVA	day	4					1,080	0	4,320	0	4,320	
	Vibrator	day	4					120	0	480	0	480	
	Bar bendder	day	2					120	0	240	0	240	
	Bar cutter	day	2					120	0	240	0	240	
	Sub Total									26,880	0	26,880	
Total										26,880	11,179	1,368,325	
Unit Price per m										20.65	8.59	1,050.94	
INDIRECT COST										15%	3.10	1.29	157.64
TOTAL										24	9.87	1,209	

LA UNION PORT DEVELOPMENT PROJECT

2J02

Placing of fence

FC: YEN

LC: US\$

Total estimate for 1302 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in YEN	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Excavation	m3	184	82.8	1.58					15235.2	291	15,235	
	Backfill	m3	134	84	7.38					11256	989	11,256	
	Net,steel wire and gate	m	1302	0	24.5					0	31,899	3,827,880	
	Fuel Truck with crane 8t	day	4	0	61					0	246	29,462	
	" Tampa	day	4	0	2					0	7	792	
	Sub Total									0	32,151	3,858,134	
2	Labor												
	Foreman	man.day	4			0	38.20			0	153	18,336	
	Labor	man.day	40			0	14.30			0	572	68,640	
	Truck with crane 8t	man.day	4			0	33			0	132	15,840	
	Tampa	man.day	4			0	14			0	57	6,864	
	Sub Total									0	857	109,680	
3	Equipment												
	Truck with crane 8t	day	4					5,520	0	22,080	0	22,080	
	Tampa	day	4					212	0	850	0	850	
	Sub Total									22,930	0	22,930	
Total										22,930	33,008	3,990,744	
Unit Price per m										17.61	25.35	3,065.09	
INDIRECT COST										15%	2.64	3.80	459.76
TOTAL										20	29.15	3,525	