

LA UNION PORT DEVELOPMENT PROJECT  
2G0102

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2

US\$=¥120

Subbase course

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												
	Crusher run	m3	750	0	8.40					0	6,300	756000	
	Wasted " (10%)	m3	75	0	8.40					0	630	75,600	
	Fuel Steel roller 10-12t	day	5	0	40					0	201	24174	
	" Tire roller 10t	day	5	0	40					0	200	23,958	
	" Bulldozer 21t	day	5	0	120					0	599	71,904	
	" Vibration roller 10t	day	2	0	55					0	110	13,147	
	" Motor grader 2.8m	day	2	0	55					0	110	13,152	
	Sub Total									0	8,149	977,935	
2	Labor												
	Foreman	manday	5			0	38.2			0	191	22,920	
	Labor	manday	20			0	14.3			0	286	34,320	
	Steel roller 10-12t	day	5			0	33			0	165	19,800	
	Tire roller 10t	day	5			0	33			0	165	19,800	
	Bulldozer 21t	day	5			0	33			0	165	19,800	
	Vibration roller 10t	day	2			0	33			0	66	7,920	
	Motor grader 2.8m	day	2			0	33			0	66	7,920	
	Sub Total									0	1,104	132,480	
3	Equipment												
	Steel roller 10-12t	dayunit	5					3,120	0	15,600	0	15,600	
	Tire roller 10t	day,unit	5					3,360	0	16,800	0	16,800	
	Bulldozer 21t	dayunit	5					12,360	0	61,800	0	61,800	
	Vibration roller 10t	dayunit	2					6,360	0	12,720	0	12,720	
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7,440	
	Sub Total									114,360	0	114,360	
<b>Total</b>										114,360	9,253	1,224,775	
<b>Unit Price per m2</b>										22.87	1.85	244.96	
<b>INDIRECT COST</b>										15%	3.43	0.28	36.74
<b>TOTAL</b>										26	2.13	282	

LA UNION PORT DEVELOPMENT PROJECT

2G0103

Base course

UNIT

FC: YEN

LC: US\$

Total estimate for 5000 m2

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													
	Cement Treatment Macadam	m3	750	62.4	21.88					0	16,410	196,920		
	Wasted " (10%)	m3	75	62.4	21.88					0	1,641	196,920		
	Fuel Steel roller 10-12t	day	3	0	40					0	121	14,504		
	" Tire roller 10t	day	3	0	40					0	120	14,375		
	" Bulldozer 21t	day	3	0	120					0	360	43,142		
	" Vibration roller 10t	day	2	0	55					0	110	13,147		
	" Motor grader 2.8m	day	2	0	55					0	110	13,152		
	Sub Total									0	18,870	2,264,441		
2	Labor													
	Foreman	manday	3			0	38.2			0	115	13,752		
	Labor	manday	12			0	14.3			0	172	20,592		
	Steel roller 10-12t	day	3			0	33			0	99	11,880		
	Tire roller 10t	day	3			0	33			0	99	11,880		
	Bulldozer 21t	day	3			0	33			0	99	11,880		
	Vibration roller 10t	day	2			0	33			0	66	7,920		
	Motor grader 2.8m	day	2			0	33			0	66	7,920		
	Sub Total									0	715	85,824		
3	Equipment													
	Steel roller 10-12t	dayunit	3					3,120	0	9,360	0	9,360		
	Tire roller 10t	dayunit	3					3,360	0	10,080	0	10,080		
	Bulldozer 21t	dayunit	3					12,360	0	37,080	0	37,080		
	Vibration roller 10t	dayunit	2					6,360	0	12,720	0	12,720		
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7,440		
	Sub Total									76,680	0	76,680		
<b>Total</b>										76,680	19,586	2,426,945		
<b>Unit Price per m2</b>										15.34	3.92	485.39		
<b>INDIRECT COST</b>											15%	2.30	0.59	72.81
<b>TOTAL</b>										18	4.50	558		

LA UNION PORT DEVELOPMENT PROJECT  
2G0104  
Prime coating

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2 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												
	Tar for Prime Coat	ton	5.1	0	250					0	1,275	153000	
	Miscellaneous	L.S.	1	0	64					0	64	7,650	
	Fuel Distributor	day	3	0	60					0	181	21758	
	" Asphalt Sprayer	day	3	0	7					0	20	2,394	
	Sub Total									0	1,540	184,802	
2	Labor												
	Foreman	manday	3			0	38.2			0	115	13,752	
	Labor	manday	12			0	14.3			0	172	20,592	
	Distributor	day	3			0	33			0	99	11,880	
	Asphalt Sprayer	day	3			0	33			0	99	11,880	
	Sub Total									0	484	58,104	
3	Equipment												
	Distributor	dayunit	3					3,240	0	9,720	0	9,720	
	Asphalt Sprayer	day.unit	3					120	0	360	0	360	
	Miscellaneous(2%)	L.S.	1					202	0	202	0	202	
	Sub Total									10,080	0	10,282	
Total										10,080	2,024	253,188	
Unit Price per m2										2.02	0.40	50.64	
INDIRECT COST										15%	0.30	0.06	7.60
TOTAL										2	0.47	58	

LA UNION PORT DEVELOPMENT PROJECT  
2G0105  
Concrete slab

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2  
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	m3	1,750	0	70.00					0	122,500	14700000	
	Wasted " (10%)	m3	175	0	70.00					0	12,250	1470000	
	Elasti board and filter	m2	240	0	8.33					0	1,999	239,904	
	Reinforcement and joint bar	ton	43.0	0	430.00					0	18,490	2218800	
	Wasted " (10%)	ton	4.3	0	430.00					0	1,849	221880	
	Fuel Concrete Spreader	day	5	0	28					0	139	16650	
	" Concrete Finisher	day	5	0	17					0	86	10,314	
	" Concrete Planer	day	5	0	17					0	84	10,116	
	" Concrete Cutter	day	1	0	4					0	4	518	
	" Water Tank Lorry	day	2	0	4					0	9	1,037	
	Sub Total									0	157,397	18,889,219	
2	Labor												
	Foreman	manday	10			0	38.2			0	382	45,840	
	Labor	manday	40			0	14.3			0	572	68,640	
	Concrete Spreader	day	5			0	33			0	165	19,800	
	Concrete Finisher	day	5			0	33			0	165	19,800	
	Concrete Planer	day	5			0	33			0	165	19,800	
	Concrete Cutter	day	1			0	14.30			0	14	1,716	
	Water Tank Lorry	day	2			0	22.06			0	44	5,294	
	Sub Total									0	1,449	180,890	
3	Equipment												
	Concrete Spreader	dayunit	5					10,560	0	52,800	0	52,800	
	Concrete Finisher	dayunit	5					9,000	0	45,000	0	45,000	
	Concrete Planer	dayunit	5					12,960	0	64,800	0	64,800	
	Concrete Cutter	dayunit	1					12,960	0	12,960	0	12,960	
	Water Tank Lorry	dayunit	2					2,760	0	5,520	0	5,520	
	Sub Total									162,600	0	181,080	
<b>Total</b>										162,600	158,846	19,251,190	
<b>Unit Price per m2</b>										32.52	31.77	3850.24	
<b>INDIRECT COST</b>										15%	4.88	4.77	577.54
<b>TOTAL</b>										37	36.53	4,428	

LA UNION PORT DEVELOPMENT PROJECT  
2G02  
Concrete pavemen type 2

## UNIT

FC: YEN

LC: US\$

Total estimate for 5000 m2

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2G0201	Subgrade preparation	m2	5,000	24.84	1.27	124,200	6,366	888,124
2G0202	Subbase course	m2	5,000	26.30	2.13	131,514	10,641	1,408,491
2G0203	Base course	m2	5,000	17.64	4.50	88,182	22,523	2,790,987
2G0204	Prim coating	m2	5,000	2.32	0.47	11,592	2,328	290,934
2G0205	Concrete slab	m2	5,000	32.16	32.00	160,811	160,009	19,361,902
	Total					516,299	201,868	24,740,439
				Unit Price per m2		103	40.37	4,948

LA UNION PORT DEVELOPMENT PROJECT  
2G0201

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2 US\$=¥120

Subgrade preparation

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												
	Mechanical stabilized course	m3	500	0	6.00					0	3,000	360,000	
	Wasted " (10%)	m3	50	0	6.00					0	300	36,000	
	Fuel Steel roller 10-12t	day	5	0	40					0	201	24,174	
	" Tire roller 10t	day	5	0	40					0	200	23,958	
	" Bulldozer 21t	day	5	0	120					0	599	71,904	
	" Vibration roller 10t	day	1	0	55					0	55	6,574	
	" Motor grader 2.8m	day	2	0	55					0	110	13,152	
	Sub Total									0	4,465	535,762	
2	Labor												
	Foreman	manday	5			0	38.2			0	191	22,920	
	Labor	manday	20			0	14.3			0	286	34,320	
	Steel roller 10-12t	day	5			0	33			0	165	19,800	
	Tire roller 10t	day	5			0	33			0	165	19,800	
	Bulldozer 21t	day	5			0	33			0	165	19,800	
	Vibration roller 10t	day	1			0	33			0	33	3,960	
	Motor grader 2.8m	day	2			0	33			0	66	7,920	
	Sub Total									0	1,071	128,520	
3	Equipment												
	Steel roller 10-12t	dayunit	5					3,120	0	15,600	0	15,600	
	Tire roller 10t	day.unit	5					3,360	0	16,800	0	16,800	
	Bulldozer 21t	dayunit	5					12,360	0	61,800	0	61,800	
	Vibration roller 10t	dayunit	1					6,360	0	6,360	0	6,360	
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7,440	
	Sub Total									108,000	0	108,000	
<b>Total</b>										108,000	5,536	772,282	
<b>Unit Price per m2</b>										21.60	1.11	154.46	
<b>INDIRECT COST</b>										15%	3.24	0.17	23.17
<b>TOTAL</b>										25	1.27	178	

LA UNION PORT DEVELOPMENT PROJECT  
2G0202

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2 US\$=¥120

Subbase course

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													
	Crusher run	m3	750	0	8.40					0	6,300	756000		
	Wasted " (10%)	m3	75	0	8.40					0	630	75,600		
	Fuel Steel roller 10-12t	day	5	0	40					0	201	24174		
	" Tire roller 10t	day	5	0	40					0	200	23,958		
	" Bulldozer 21t	day	5	0	120					0	599	71,904		
	" Vibration roller 10t	day	2	0	55					0	110	13,147		
	" Motor grader 2.8m	day	2	0	55					0	110	13,152		
	Sub Total									0	8,149	977,935		
2	Labor													
	Foreman	manday	5			0	38.2			0	191	22,920		
	Labor	manday	20			0	14.3			0	286	34,320		
	Steel roller 10-12t	day	5			0	33			0	165	19,800		
	Tire roller 10t	day	5			0	33			0	165	19,800		
	Bulldozer 21t	day	5			0	33			0	165	19,800		
	Vibration roller 10t	day	2			0	33			0	66	7,920		
	Motor grader 2.8m	day	2			0	33			0	66	7,920		
	Sub Total									0	1,104	132,480		
3	Equipment													
	Steel roller 10-12t	dayunit	5					3,120	0	15,600	0	15,600		
	Tire roller 10t	dayunit	5					3,360	0	16,800	0	16,800		
	Bulldozer 21t	dayunit	5					12,360	0	61,800	0	61,800		
	Vibration roller 10t	dayunit	2					6,360	0	12,720	0	12,720		
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7,440		
	Sub Total									114,360	0	114,360		
Total										114,360	9,253	1,224,775		
Unit Price per m2										22.87	1.85	244.96		
INDIRECT COST											15%	3.43	0.28	36.74
TOTAL										26	2.13	282		

LA UNION PORT DEVELOPMENT PROJECT

2G0203

Base course

UNIT

FC: YEN

LC: US\$

Total estimate for 5000 m2

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												
	Cement Treatment Macadam	m3	750	62.4	21.88					0	16,410	196,920	
	Wasted " (10%)	m3	75	62.4	21.88					0	1,641	196,920	
	Fuel Steel roller 10-12t	day	3	0	40					0	121	14,504	
	" Tire roller 10t	day	3	0	40					0	120	14,375	
	" Bulldozer 21t	day	3	0	120					0	360	43,142	
	" Vibration roller 10t	day	2	0	55					0	110	13,147	
	" Motor grader 2.8m	day	2	0	55					0	110	13,152	
	Sub Total									0	18,870	2,264,441	
2	Labor												
	Foreman	manday	3			0	38.2			0	115	13,752	
	Labor	manday	12			0	14.3			0	172	20,592	
	Steel roller 10-12t	day	3			0	33			0	99	11,880	
	Tire roller 10t	day	3			0	33			0	99	11,880	
	Bulldozer 21t	day	3			0	33			0	99	11,880	
	Vibration roller 10t	day	2			0	33			0	66	7,920	
	Motor grader 2.8m	day	2			0	33			0	66	7,920	
	Sub Total									0	715	85,824	
3	Equipment												
	Steel roller 10-12t	dayunit	3					3,120	0	9,360	0	9,360	
	Tire roller 10t	dayunit	3					3,360	0	10,080	0	10,080	
	Bulldozer 21t	dayunit	3					12,360	0	37,080	0	37,080	
	Vibration roller 10t	dayunit	2					6,360	0	12,720	0	12,720	
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7,440	
	Sub Total									76,680	0	76,680	
<b>Total</b>										76,680	19,586	2,426,945	
<b>Unit Price per m2</b>										15.34	3.92	485.39	
<b>INDIRECT COST</b>										15%	2.30	0.59	72.81
<b>TOTAL</b>										18	4.50	558	



LA UNION PORT DEVELOPMENT PROJECT  
2G0204  
Prime coating

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2 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												
	Tar for Prime Coat	ton	5.1	0	250					0	1,275	153,000	
	Miscellaneous	L.S.	1	0	64					0	64	7,650	
	Fuel Distributor	day	3	0	60					0	181	21,758	
	" Asphalt Sprayer	day	3	0	7					0	20	2,394	
	Sub Total									0	1,540	184,802	
2	Labor												
	Foreman	manday	3			0	38.2			0	115	13,752	
	Labor	manday	12			0	14.3			0	172	20,592	
	Distributor	day	3			0	33			0	99	11,880	
	Asphalt Sprayer	day	3			0	33			0	99	11,880	
	Sub Total									0	484	58,104	
3	Equipment												
	Distributor	dayunit	3					3,240	0	9,720	0	9,720	
	Asphalt Sprayer	day.unit	3					120	0	360	0	360	
	Miscellaneous(2%)	L.S.	1					202	0	202	0	202	
	Sub Total									10,080	0	10,282	
Total										10,080	2,024	253,188	
Unit Price per m2										2.02	0.40	50.64	
INDIRECT COST										15%	0.30	0.06	7.60
TOTAL										2	0.47	58	

LA UNION PORT DEVELOPMENT PROJECT  
2G0205  
Concrete slab

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2 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	m3	1,500	0	70.00					0	105,000	12600000	
	Wasted " (10%)	m3	150	0	70.00					0	10,500	1260000	
	Elastigh board and filter	m2	210	0	8.33					0	1,749	209,916	
	Reinforcement and joint bar	ton	43.0	0	430.00					0	18,490	2218800	
	Wasted " (10%)	ton	4.3	0	430.00					0	1,849	221880	
	Fuel Concrete Spreader	day	4.3	0	28					0	119	14319	
	" Concrete Finisher	day	4.3	0	17					0	74	8,870	
	" Concrete Planer	day	4.3	0	17					0	72	8,700	
	" Concrete Cutter	day	1.0	0	4					0	4	518	
	" Water Tank Lorry	day	2.0	0	4					0	9	1,037	
	Sub Total									0	137,854	16,544,040	
2	Labor												
	Foreman	manday	9.0			0	38.2			0	344	41,256	
	Labor	manday	36.0			0	14.3			0	515	61,776	
	Concrete Spreader	day	4.3			0	33			0	142	17,028	
	Concrete Finisher	day	4.3			0	33			0	142	17,028	
	Concrete Planer	day	4.3			0	33			0	142	17,028	
	Concrete Cutter	day	1.0			0	14.30			0	14	1,716	
	Water Tank Lorry	day	2.0			0	22.06			0	44	5,294	
	Sub Total									0	1,284	161,126	
3	Equipment												
	Concrete Spreader	dayunit	4.3					10,560	0	45,408	0	45,408	
	Concrete Finisher	dayunit	4.3					9,000	0	38,700	0	38,700	
	Concrete Planer	dayunit	4.3					12,960	0	55,728	0	55,728	
	Concrete Cutter	dayunit	1.0					12,960	0	12,960	0	12,960	
	Water Tank Lorry	dayunit	2.0					2,760	0	5,520	0	5,520	
	Sub Total									139,836	0	158,316	
Total										139,836	139,138	16,863,482	
Unit Price per m2										27.97	27.83	3372.70	
INDIRECT COST										15%	4.20	4.17	505.90
TOTAL										32	32.00	3,879	

LA UNION PORT DEVELOPMENT PROJECT  
2G03  
Asphalt Concrete Pavement Type 3

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000m2

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
						Amount		
				FC	LC	FC	LC	
2G0301	Subgrade preparation	sq.m	5,000	24.84	1.27	124,200	6,366	888,124
2G0302	Subbase course	sq.m	5,000	40.16	4.01	200,790	20,073	2,609,530
2G0303	Base course	sq.m	5,000	17.64	3.12	88,182	15,604	1,960,641
2G0304	Prim coating	sq.m	5,000	2.36	0.47	11,824	2,328	291,166
2G0305	Binder course	sq.m	5,000	43.04	2.76	215,225	13,776	1,868,396
2G0306	Tack coating	sq.m	5,000	1.58	0.26	7,883	1,292	162,957
2G0307	Surface course	sq.m	5,000	43.04	3.02	215,225	15,113	2,028,779
	Total					863,328	74,552	9,809,593
				Unit Price per m2		173	14.91	1,962

LA UNION PORT DEVELOPMENT PROJECT

2G0301

Subgrade preparation

UNIT

FC: YEN

LC: US\$

Total estimate for 5000 m2

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												
	Mechanical stabilized course	m3	500	0	6.00					0	3,000	360,000	
	Wasted " (10%)	m3	50	0	6.00					0	300	36,000	
	Fuel Steel roller 10-12t	day	5	0	40					0	201	24,174	
	" Tire roller 10t	day	5	0	40					0	200	23,958	
	" Bulldozer 21t	day	5	0	120					0	599	71,904	
	" Vibration roller 10t	day	1	0	55					0	55	6,574	
	" Motor grader 2.8m	day	2	0	55					0	110	13,152	
	Sub Total									0	4,465	535,762	
2	Labor												
	Foreman	manday	5			0	38.2			0	191	22,920	
	Labor	manday	20			0	14.3			0	286	34,320	
	Steel roller 10-12t	day	5			0	33			0	165	19,800	
	Tire roller 10t	day	5			0	33			0	165	19,800	
	Bulldozer 21t	day	5			0	33			0	165	19,800	
	Vibration roller 10t	day	1			0	33			0	33	3,960	
	Motor grader 2.8m	day	2			0	33			0	66	7,920	
	Sub Total									0	1,071	128,520	
3	Equipment												
	Steel roller 10-12t	dayunit	5					3,120	0	15,600	0	15,600	
	Tire roller 10t	day.unit	5					3,360	0	16,800	0	16,800	
	Bulldozer 21t	dayunit	5					12,360	0	61,800	0	61,800	
	Vibration roller 10t	dayunit	1					6,360	0	6,360	0	6,360	
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7,440	
	Sub Total									108,000	0	108,000	
<b>Total</b>										108,000	5,536	772,282	
<b>Unit Price per m2</b>										21.60	1.11	154.46	
<b>INDIRECT COST</b>										15%	3.24	0.17	23.17
<b>TOTAL</b>										24.84	1.27	177.62	

LA UNION PORT DEVELOPMENT PROJECT  
2G0302

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2 US\$=¥120

Subbase course

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												
	Crusher run	m3	1,500	0	8.40					0	12,600	151,200	
	Wasted " (10%)	m3	150	0	8.40					0	1,260	15,120	
	Fuel Steel roller 10-12t	day	8	0	40					0	322	38,678	
	" Tire roller 10t	day	8	0	40					0	319	38,333	
	" Bulldozer 21t	day	8	0	120					0	959	115,046	
	" Vibration roller 10t	day	2	0	55					0	110	13,147	
	" Motor grader 2.8m	day	3	0	55					0	164	19,728	
	Sub Total									0	15,734	1,888,133	
2	Labor												
	Foreman	manday	8			0	38.2			0	306	36,672	
	Labor	manday	32			0	14.3			0	458	54,912	
	Steel roller 10-12t	day	8			0	33			0	264	31,680	
	Tire roller 10t	day	8			0	33			0	264	31,680	
	Bulldozer 21t	day	8			0	33			0	264	31,680	
	Vibration roller 10t	day	2			0	33			0	66	7,920	
	Motor grader 2.8m	day	3			0	33			0	99	11,880	
	Sub Total									0	1,720	206,424	
3	Equipment												
	Steel roller 10-12t	dayunit	8					3,120	0	24,960	0	24,960	
	Tire roller 10t	dayunit	8					3,360	0	26,880	0	26,880	
	Bulldozer 21t	dayunit	8					12,360	0	98,880	0	98,880	
	Vibration roller 10t	dayunit	2					6,360	0	12,720	0	12,720	
	Motor grader 2.8m	dayunit	3					3,720	0	11,160	0	11,160	
	Sub Total									174,600	0	174,600	
Total										174,600	17,455	2,269,157	
Unit Price per m2										34.92	3.49	453.83	
INDIRECT COST										15%	5.24	0.52	68.07
TOTAL										40.16	4.01	521.91	

LA UNION PORT DEVELOPMENT PROJECT

2G0303

Base course

UNIT

FC: YEN

LC: US\$

Total estimate for 5000 m2

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												
	Cement Treatment Macadam	m3	500	62.4	21.88					0	10,940	1312800	
	Wasted " (10%)	m3	50	62.4	21.88					0	1,094	131280	
	Fuel Steel roller 10-12t	day	3	0	40					0	121	14504	
	" Tire roller 10t	day	3	0	40					0	120	14375	
	" Bulldozer 21t	day	3	0	120					0	360	43142	
	" Vibration roller 10t	day	2	0	55					0	110	13147	
	" Motor grader 2.8m	day	2	0	55					0	110	13152	
	Sub Total									0	12,853	1,542,401	
2	Labor												
	Foreman	manday	3			0	38.2			0	115	13,752	
	Labor	manday	12			0	14.3			0	172	20,592	
	Steel roller 10-12t	day	3			0	33			0	99	11,880	
	Tire roller 10t	day	3			0	33			0	99	11,880	
	Bulldozer 21t	day	3			0	33			0	99	11,880	
	Vibration roller 10t	day	2			0	33			0	66	7,920	
	Motor grader 2.8m	day	2			0	33			0	66	7,920	
	Sub Total									0	715	85,824	
3	Equipment												
	Steel roller 10-12t	dayunit	3					3,120	0	9,360	0	9,360	
	Tire roller 10t	dayunit	3					3,360	0	10,080	0	10,080	
	Bulldozer 21t	dayunit	3					12,360	0	37,080	0	37,080	
	Vibration roller 10t	dayunit	2					6,360	0	12,720	0	12,720	
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7,440	
	Sub Total									76,680	0	76,680	
<b>Total</b>										76,680	13,569	1,704,905	
<b>Unit Price per m2</b>										15.34	2.71	340.98	
<b>INDIRECT COST</b>										15%	2.30	0.41	51.15
<b>TOTAL</b>										17.64	3.12	392.13	

LA UNION PORT DEVELOPMENT PROJECT  
20304  
Prime coating

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2 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												
	Tar for Prime Coat	ton	5.1	0	250					0	1,275	153000	
	Miscellaneous	L.S.	1	0	64					0	64	7650	
	Fuel Distributor	day	3	0	60					0	181	21758	
	" Asphalt Sprayer	day	3	0	7					0	20	2394	
	Sub Total									0	1,540	184,802	
2	Labor												
	Foreman	manday	3			0	38.2			0	115	13,752	
	Labour	manday	12			0	14.3			0	172	20,592	
	Distributor	day	3			0	33			0	99	11,880	
	Asphalt Sprayer	day	3			0	33			0	99	11,880	
	Sub Total									0	484	58,104	
3	Equipment												
	Distributor	dayunit	3					3,240	0	9,720	0	9,720	
	Asphalt Sprayer	day.unit	3					120	0	360	0	360	
	Miscellaneous(2%)	L.S.	1					202	0	202	0	202	
	Sub Total									10,282	0	10,282	
Total										10,282	2,024	253,188	
Unit Price per m2										2.06	0.40	50.64	
<b>INDIRECT COST</b>										15%	0.31	0.06	7.60
<b>TOTAL</b>										2.36	0.47	58.23	

LA UNION PORT DEVELOPMENT PROJECT

2G0305

Binder course

UNIT

FC: YEN

LC: US\$

Total estimate for 5000 m2

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												
	Asphalt mixture binder course	ton	298.0	0	25.00					0	7,450	894000	
	Miscellaneous(2%)	L.S.	1	0	149					0	149	17880	
	Fuel Steel roller 10-12t	day	10	0	40					0	403	48348	
	" Tire roller 10t	day	10	0	40					0	399	47916	
	" Asphalt Finisher	day	10	0	25					0	255	30552	
	" Dump truck 10t	day	10	0	105					0	1,050	125964	
	Sub Total									0	9,706	1,164,660	
2	Labor												
	Foreman	manday	10			0	38.2			0	382	45,840	
	Labour	manday	40			0	14.3			0	572	68,640	
	Steel roller 10-12t	day	10			0	33			0	330	39,600	
	Tire roller 10t	day	10			0	33			0	330	39,600	
	Asphalt Finisher	day	10			0	33			0	330	39,600	
	Dump truck 10t	day	10			0	33			0	330	39,600	
	Sub Total									0	2,274	272,880	
3	Equipment												
	Steel roller 10-12t	dayunit	10					3,120	0	31,200	0	31,200	
	Tire roller 10t	dayunit	10					3,360	0	33,600	0	33,600	
	Asphalt Finisher 3.0m	day.unit	10					5,280	0	52,800	0	52,800	
	Miscellaneous(2%)	L.S.	1					2,352	0	2,352	0	2,352	
	Dump truck 10t	day.unit	10					6,720	0	67,200	0	67,200	
	Sub Total									187,152	0	187,152	
<b>Total</b>										187,152	11,980	1,624,692	
<b>Unit Price per m2</b>										37.43	2.40	324.94	
<b>INDIRECT COST</b>										15%	5.61	0.36	48.74
<b>TOTAL</b>										43.04	2.76	373.68	



LA UNION PORT DEVELOPMENT PROJECT  
2G0306  
Tack coating

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2 US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in US\$	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Tar for Prime Coat	ton	2.54	0	250.00					0	635	76200	
	Miscellaneous(5%)	L.S.	1	0	32					0	32	3810	
	Fuel Distributor	day	2	0	60					0	121	14506	
	" Asphalt Sprayer	day	2	0	7					0	13	1596	
	Sub Total									0	801	96,112	
2	Labor												
	Foreman	manday	2			0	38.2			0	76	9,168	
	Labour	manday	8			0	14.3			0	114	13,728	
	Distributor	day	2			0	33			0	66	7,920	
	Asphalt Sprayer	day	2			0	33			0	66	7,920	
	Sub Total									0	323	38,736	
3	Equipment												
	Distributor	dayunit	2					3,240	0	6,480	0	6,480	
	Asphalt Sprayer	day.unit	2					120	0	240	0	240	
	Miscellaneous(2%)	L.S.	1					134	0	134	0	134	
	Sub Total									6,854	0	6,854	
Total										6,854	1,124	141,702	
Unit Price per m2										1.37	0.22	28.34	
<b>INDIRECT COST</b>										15%	0.21	0.03	4.25
<b>TOTAL</b>										1.58	0.26	32.59	

LA UNION PORT DEVELOPMENT PROJECT  
2G0307

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m<sup>2</sup> US\$=¥120

SURFACE COURSE

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												
	Asphalt mixture binder course	ton	298.0	0	28.00					0	8,344	1001280	
	Miscellaneous(5%)	L.S.	1	0	417					0	417	50064	
	Fuel Steel roller 10-12t	day	10	0	40					0	403	48348	
	" Tire roller 10t	day	10	0	40					0	399	47916	
	" Asphalt Finisher	day	10	0	25					0	255	30552	
	" Dump truck	day	10	0	105					0	1,050	125964	
	Sub Total									0	10,868	1,304,124	
2	Labor												
	Foreman	manday	10			0	38.2			0	382	45,840	
	Labour	manday	40			0	14.3			0	572	68,640	
	Steel roller 10-12t	day	10			0	33			0	330	39,600	
	Tire roller 10t	day	10			0	33			0	330	39,600	
	Asphalt Finisher	day	10			0	33			0	330	39,600	
	Dump truck 10t	day	10			0	33			0	330	39,600	
	Sub Total									0	2,274	272,880	
3	Equipment												
	Steel roller 10-12t	dayunit	10					3,120	0	31,200	0	31,200	
	Tire roller 10t	dayunit	10					3,360	0	33,600	0	33,600	
	Asphalt Finisher	day.unit	10					5,280	0	52,800	0	52,800	
	Miscellaneous(2%)	L.S.	1					2,352	0	2,352	0	2,352	
	Dump truck 10t	day.unit	10					6,720	0	67,200	0	67,200	
	Sub Total									187,152	0	187,152	
<b>Total</b>										<b>187,152</b>	<b>13,142</b>	<b>1,764,156</b>	
<b>Unit Price per m<sup>2</sup></b>										<b>37.43</b>	<b>2.63</b>	<b>352.83</b>	
<b>INDIRECT COST</b>										15%	5.61	0.39	52.92
<b>TOTAL</b>										<b>43.04</b>	<b>3.02</b>	<b>405.76</b>	

LA UNION PORT DEVELOPMENT PROJECT  
2G04  
MACADAM PAVEMENT TYPE 4

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2G0401	Subgrade preparation	sq.m	5,000	24.84	1.27	124,200	6,366	888,124
2G0402	Subbase course	sq.m	5,000	40.16	4.55	200,790	22,729	2,928,310
2G0403	Base course	sq.m	5,000	24.29	7.40	121,440	37,018	4,563,602
2G0404	Prim coating	sq.m	5,000	2.32	0.47	11,592	2,328	290,934
	Total					458,022	68,441	8,670,971
				Unit Price per m2		92	13.69	1,734

LA UNION PORT DEVELOPMENT PROJECT  
2G0401

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2 US\$=¥120

Subgrade preparation

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												
	Mechanical stabilized course	cu.m	500	0	6.00					0	3,000	360,000	
	Wasted " (10%)	cu.m	50	0	6.00					0	300	36,000	
	Fuel Steel roller 10-12t	day	5	0	40					0	201	24,174	
	" Tire roller 10t	day	5	0	40					0	200	23,958	
	" Bulldozer 21t	day	5	0	120					0	599	71,904	
	" Vibration roller 10t	day	1	0	55					0	55	6,574	
	" Motor grader 2.8m	day	2	0	55					0	110	13,152	
	Sub Total									0	4,465	535,762	
2	Labor												
	Foreman	manday	5			0	38.2			0	191	22,920	
	Labour	manday	20			0	14.3			0	286	34,320	
	Steel roller 10-12t	day	5			0	33			0	165	19,800	
	Tire roller 10t	day	5			0	33			0	165	19,800	
	Bulldozer 21t	day	5			0	33			0	165	19,800	
	Vibration roller 10t	day	1			0	33			0	33	3,960	
	Motor grader 2.8m	day	2			0	33			0	66	7,920	
	Sub Total									0	1,071	128,520	
3	Equipment												
	Steel roller 10-12t	dayunit	5					3,120	0	15,600	0	15,600	
	Tire roller 10t	dayunit	5					3,360	0	16,800	0	16,800	
	Bulldozer 21t	dayunit	5					12,360	0	61,800	0	61,800	
	Vibration roller 10t	dayunit	1					6,360	0	6,360	0	6,360	
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7,440	
	Sub Total									108,000	0	108,000	
<b>Total</b>										<b>108,000</b>	<b>5,536</b>	<b>772,282</b>	
<b>Unit Price per m2</b>										<b>21.60</b>	<b>1.11</b>	<b>154.46</b>	
<b>INDIRECT COST</b>										15%	3.24	0.17	23.17
<b>TOTAL</b>										<b>24.84</b>	<b>1.27</b>	<b>177.62</b>	

LA UNION PORT DEVELOPMENT PROJECT  
2G0402  
Subbase course

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2 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												
	Crusher run	cu.m	1,750	0	8.40					0	14,700	176,400	
	Wasted " (10%)	cu.m	175	0	8.40					0	1,470	176,400	
	Fuel Steel roller 10-12t	day	8	0	40					0	322	38,678	
	" Tire roller 10t	day	8	0	40					0	319	38,333	
	" Bulldozer 21t	day	8	0	120					0	959	115,046	
	" Vibration roller 10t	day	2	0	55					0	110	13,147	
	" Motor grader 2.8m	day	3	0	55					0	164	19,728	
	Sub Total									0	18,044	2,165,333	
2	Labor												
	Foreman	manday	8			0	38.2			0	306	36,672	
	Labour	manday	32			0	14.3			0	458	54,912	
	Steel roller 10-12t	day	8			0	33			0	264	31,680	
	Tire roller 10t	day	8			0	33			0	264	31,680	
	Bulldozer 21t	day	8			0	33			0	264	31,680	
	Vibration roller 10t	day	2			0	33			0	66	7,920	
	Motor grader 2.8m	day	3			0	33			0	99	11,880	
	Sub Total									0	1,720	206,424	
3	Equipment												
	Steel roller 10-12t	dayunit	8					3,120	0	24,960	0	24,960	
	Tire roller 10t	day.unit	8					3,360	0	26,880	0	26,880	
	Bulldozer 21t	dayunit	8					12,360	0	98,880	0	98,880	
	Vibration roller 10t	dayunit	2					6,360	0	12,720	0	12,720	
	Motor grader 2.8m	dayunit	3					3,720	0	11,160	0	11,160	
	Sub Total									174,600	0	174,600	
Total										174,600	19,765	2,546,357	
Unit Price per m2										34.92	3.95	509.27	
INDIRECT COST										15%	5.24	0.59	76.39
TOTAL										40.16	4.55	585.66	

LA UNION PORT DEVELOPMENT PROJECT

2G0403

Base course

UNIT

FC: YEN

LC: US\$

Total estimate for 5000 m2

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												
	Cement Treatment Macadam	cu.m	1,250	62.4	21.88					0	27,350	3282000	
	Wasted " (10%)	cu.m	125	62.4	21.88					0	2,735	328,200	
	Fuel Steel roller 10-12t	day	4	0	40					0	161	19339	
	" Tire roller 10t	day	4	0	40					0	160	19,166	
	" Bulldozer 21t	day	4	0	120					0	479	57,523	
	" Vibration roller 10t	day	3	0	55					0	164	19,721	
	" Motor grader 2.8m	day	3	0	55					0	164	19,728	
	Sub Total									0	31,214	3,745,678	
2	Labor												
	Foreman	manday	4			0	38.2			0	153	18,336	
	Labour	manday	16			0	14.3			0	229	27,456	
	Steel roller 10-12t	day	4			0	33			0	132	15,840	
	Tire roller 10t	day	4			0	33			0	132	15,840	
	Bulldozer 21t	day	4			0	33			0	132	15,840	
	Vibration roller 10t	day	3			0	33			0	99	11,880	
	Motor grader 2.8m	day	3			0	33			0	99	11,880	
	Sub Total									0	976	117,072	
3	Equipment												
	Steel roller 10-12t	dayunit	4					3,120	0	12,480	0	12,480	
	Tire roller 10t	day.unit	4					3,360	0	13,440	0	13,440	
	Bulldozer 21t	dayunit	4					12,360	0	49,440	0	49,440	
	Vibration roller 10t	dayunit	3					6,360	0	19,080	0	19,080	
	Motor grader 2.8m	dayunit	3					3,720	0	11,160	0	11,160	
	Sub Total									105,600	0	105,600	
<b>Total</b>										105,600	32,190	3,968,350	
<b>Unit Price per m2</b>										21.12	6.44	793.67	
<b>INDIRECT COST</b>										15%	3.17	0.97	119.05
<b>TOTAL</b>										24.29	7.40	912.72	

LA UNION PORT DEVELOPMENT PROJECT  
2G0404  
PRIME COAT

UNIT  
FC: YEN  
LC: US\$

Total estimate per 5000 m2

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													
	Tar for Prime Coat	ton	5.1	0	250					0	1,275	153,000		
	Miscellaneous	L.S.	1	0	64					0	64	7,650		
	Fuel Distributor	day	3	0	60					0	181	21,758		
	" Asphalt Sprayer	day	3	0	7					0	20	2,394		
	Sub Total									0	1,540	184,802		
2	Labor													
	Foreman	manday	3			0	38.2			0	115	13,752		
	Labour	manday	12			0	14.3			0	172	20,592		
	Distributor	day	3			0	33			0	99	11,880		
	Asphalt Sprayer	day	3			0	33			0	99	11,880		
	Sub Total									0	484	58,104		
3	Equipment													
	Distributor	dayunit	3					3,240	0	9,720	0	9,720		
	Asphalt Sprayer	day.unit	3					120	0	360	0	360		
	Miscellaneous(2%)	L.S.	1					202	0	202	0	202		
	Sub Total									10,080	0	10,282		
Total										10,080	2,024	253,188		
Unit Price per m2										2.02	0.40	50.64		
INDIRECT COST											15%	0.30	0.06	7.60
TOTAL										2.32	0.47	58.23		

PORT REACTIVATION PROJECT IN LAUNION PROVINCE  
 2G05  
 MACADAM PAVEMENT TYPE 5

UNIT  
 FC: YEN  
 LC: US\$

Total estimate for 5000 m2

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2G0501	Subgrade preparation	sq.m	5,000	24.84	1.27	124,200	6,366	888,124
2G0502	Subbase course	sq.m	5,000	40.16	3.48	200,790	17,416	2,290,750
2G0503	Base course	sq.m	5,000	24.29	6.02	121,440	30,098	3,733,256
2G0504	Prim coating	sq.m	5,000	2.32	0.47	11,592	2,328	290,934
	Total					458,022	56,209	7,203,065
				Unit Price per m2		92	11.24	1,441



LA UNION PORT DEVELOPMENT PROJECT  
2G0501

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2

US\$=¥120

Subgrade preparation

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												
	Mechanical stabilized course	cu.m	500	0	6.00					0	3,000	360,000	
	Wasted " (10%)	cu.m	50	0	6.00					0	300	36,000	
	Fuel Steel roller 10-12t	day	5	0	40					0	201	24,174	
	" Tire roller 10t	day	5	0	40					0	200	23,958	
	" Bulldozer 21t	day	5	0	120					0	599	71,904	
	" Vibration roller 10t	day	1	0	55					0	55	6,574	
	" Motor grader 2.8m	day	2	0	55					0	110	13,152	
	Sub Total									0	4,465	535,762	
2	Labor												
	Foreman	manday	5			0	38.2			0	191	22,920	
	Labour	manday	20			0	14.3			0	286	34,320	
	Steel roller 10-12t	day	5			0	33			0	165	19,800	
	Tire roller 10t	day	5			0	33			0	165	19,800	
	Bulldozer 21t	day	5			0	33			0	165	19,800	
	Vibration roller 10t	day	1			0	33			0	33	3,960	
	Motor grader 2.8m	day	2			0	33			0	66	7,920	
	Sub Total									0	1,071	128,520	
3	Equipment												
	Steel roller 10-12t	dayunit	5					3,120	0	15,600	0	15,600	
	Tire roller 10t	day.unit	5					3,360	0	16,800	0	16,800	
	Bulldozer 21t	dayunit	5					12,360	0	61,800	0	61,800	
	Vibration roller 10t	dayunit	1					6,360	0	6,360	0	6,360	
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7,440	
	Sub Total									108,000	0	108,000	
<b>Total</b>										108,000	5,536	772,282	
<b>Unit Price per m2</b>										21.60	1.11	154.46	
<b>INDIRECT COST</b>										15%	3.24	0.17	23.17
<b>TOTAL</b>										25	1.27	178	

LA UNION PORT DEVELOPMENT PROJECT

2G0502

Subbase course

UNIT

FC: YEN

LC: US\$

Total estimate for 5000 m2

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											
	Crusher run	cu.m	1,250	0	8.40					0	10,500	1260000
	Wasted " (10%)	cu.m	125	0	8.40					0	1,050	126,000
	Fuel Steel roller 10-12t	day	8	0	40					0	322	38678
	" Tire roller 10t	day	8	0	40					0	319	38,333
	" Bulldozer 21t	day	8	0	120					0	959	115,046
	" Vibration roller 10t	day	2	0	55					0	110	13,147
	" Motor grader 2.8m	day	3	0	55					0	164	19,728
	Sub Total									0	13,424	1,610,933
2	Labor											
	Foreman	manday	8			0	38.2			0	306	36,672
	Labour	manday	32			0	14.3			0	458	54,912
	Steel roller 10-12t	day	8			0	33			0	264	31,680
	Tire roller 10t	day	8			0	33			0	264	31,680
	Bulldozer 21t	day	8			0	33			0	264	31,680
	Vibration roller 10t	day	2			0	33			0	66	7,920
	Motor grader 2.8m	day	3			0	33			0	99	11,880
	Sub Total									0	1,720	206,424
3	Equipment											
	Steel roller 10-12t	dayunit	8				3,120	0	24,960	0	24,960	24,960
	Tire roller 10t	day.unit	8				3,360	0	26,880	0	26,880	26,880
	Bulldozer 21t	dayunit	8				12,360	0	98,880	0	98,880	98,880
	Vibration roller 10t	dayunit	2				6,360	0	12,720	0	12,720	12,720
	Motor grader 2.8m	dayunit	3				3,720	0	11,160	0	11,160	11,160
	Sub Total								174,600	0	174,600	174,600
<b>Total</b>									174,600	15,145	1,991,957	
<b>Unit Price per m2</b>									34.92	3.03	398.39	
<b>INDIRECT COST</b>									15%	5.24	0.45	59.76
<b>TOTAL</b>									40	3.48	458	

LA UNION PORT DEVELOPMENT PROJECT  
2G0503

UNIT  
FC: YEN  
LC: US\$

Base course

Total estimate for 5000 m2

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												
	Cement Treatment Macadam	cu.m	1,000	62.4	21.88					0	21,880	2625600	
	Wasted " (10%)	cu.m	100	62.4	21.88					0	2,188	262,560	
	Fuel Steel roller 10-12t	day	4	0	40					0	161	19339	
	" Tire roller 10t	day	4	0	40					0	160	19,166	
	" Bulldozer 21t	day	4	0	120					0	479	57,523	
	" Vibration roller 10t	day	3	0	55					0	164	19,721	
	" Motor grader 2.8m	day	3	0	55					0	164	19,728	
	Sub Total									0	25,197	3,023,638	
2	Labor												
	Foreman	manday	4			0	38.2			0	153	18,336	
	Labour	manday	16			0	14.3			0	229	27,456	
	Steel roller 10-12t	day	4			0	33			0	132	15,840	
	Tire roller 10t	day	4			0	33			0	132	15,840	
	Bulldozer 21t	day	4			0	33			0	132	15,840	
	Vibration roller 10t	day	3			0	33			0	99	11,880	
	Motor grader 2.8m	day	3			0	33			0	99	11,880	
	Sub Total									0	976	117,072	
3	Equipment												
	Steel roller 10-12t	dayunit	4					3,120	0	12,480	0	12,480	
	Tire roller 10t	day.unit	4					3,360	0	13,440	0	13,440	
	Bulldozer 21t	dayunit	4					12,360	0	49,440	0	49,440	
	Vibration roller 10t	dayunit	3					6,360	0	19,080	0	19,080	
	Motor grader 2.8m	dayunit	3					3,720	0	11,160	0	11,160	
	Sub Total									105,600	0	105,600	
Total										105,600	26,173	3,246,310	
Unit Price per m2										21.12	5.23	649.26	
INDIRECT COST										15%	3.17	0.79	97.39
TOTAL										24	6.02	747	

LA UNION PORT DEVELOPMENT PROJECT  
2G0504  
Prime coating

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2 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												
	Tar for Prime Coat	ton	5.1	0	250					0	1,275	153000	
	Miscellaneous	L.S.	1	0	64					0	64	7,650	
	Fuel Distributor	day	3	0	60					0	181	21758	
	" Asphalt Sprayer	day	3	0	7					0	20	2,394	
	Sub Total									0	1,540	184,802	
2	Labor												
	Foreman	manday	3			0	38.2			0	115	13,752	
	Labour	manday	12			0	14.3			0	172	20,592	
	Distributor	day	3			0	33			0	99	11,880	
	Asphalt Sprayer	day	3			0	33			0	99	11,880	
	Sub Total									0	484	58,104	
3	Equipment												
	Distributor	dayunit	3					3,240	0	9,720	0	9,720	
	Asphalt Sprayer	day,unit	3					120	0	360	0	360	
	Miscellaneous(2%)	L.S.	1					202	0	202	0	202	
	Sub Total									10,080	0	10,282	
<b>Total</b>										10,080	2,024	253,188	
<b>Unit Price per m2</b>										2.02	0.40	50.64	
<b>INDIRECT COST</b>										15%	0.30	0.06	7.60
<b>TOTAL</b>										2	0.47	58	

LA UNION PORT DEVELOPMENT PROJECT  
2G06

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5,000 m2

US\$=¥120

Interlocking concrete block pavement type 6 for sidewalk

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2G0601	Subgrade preparation	sq.m	5,000	24.84	1.27	124,200	6,366.03	888,124
2G0602	Base course	sq.m	5,000	10.98	2.60	54,924	13,000.18	1,614,945
2G0603	Sand layer	sq.m	5,000	1.28	0.21	6,417	1,040.52	131,279
2G0604	ICB Pavement	sq.m	5,000	30.95	6.52	154,774	32,587.67	4,065,294
	Total					340,315	52,994.39	6,689,642
				Unit Price per m2		68	10.60	1,340

LA UNION PORT DEVELOPMENT PROJECT  
2G0601  
Subgrade preparation

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2

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												
	Mechanical stabilized course	m3	500	0	6.00					0	3,000	360000	
	Wasted " (10%)	m3	50	0	6.00					0	300	36000	
	Fuel Steel roller 10-12t	day	5	0	40					0	201	24174	
	" Tire roller 10t	day	5	0	40					0	200	23958	
	" Bulldozer 21t	day	5	0	120					0	599	71904	
	" Vibration roller 10t	day	1	0	55					0	55	6574	
	" Motor grader 2.8m	day	2	0	55					0	110	13152	
	Sub Total									0	4,465	535,762	
2	Labor												
	Foreman	manday	5			0	38.2			0	191	22920	
	Labor	manday	20			0	14.3			0	286	34320	
	Steel roller 10-12t	day	5			0	33			0	165	19800	
	Tire roller 10t	day	5			0	33			0	165	19800	
	Bulldozer 21t	day	5			0	33			0	165	19800	
	Vibration roller 10t	day	1			0	33			0	33	3960	
	Motor grader 2.8m	day	2			0	33			0	66	7920	
	Sub Total									0	1,071	128,520	
3	Equipment												
	Steel roller 10-12t	dayunit	5					3,120	0	15,600	0	15600	
	Tire roller 10t	dayunit	5					3,360	0	16,800	0	16800	
	Bulldozer 21t	dayunit	5					12,360	0	61,800	0	61800	
	Vibration roller 10t	dayunit	1					6,360	0	6,360	0	6360	
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7440	
	Sub Total									108,000	0	108,000	
<b>Total</b>										108,000	5,536	772,282	
<b>Unit Price per m2</b>										21.60	1.11	154.46	
<b>INDIRECT COST</b>										15%	3.24	0.17	23.17
<b>TOTAL</b>										25	1.27	178	

## LA UNION PORT DEVELOPMENT PROJECT

2G0602

Base course

UNIT

FC: YEN

LC: US\$

Total estimate for 5000 m2

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													
	Cement Treatment Macadam	m3	500	0	18.80					0	9,400	1128000		
	Wasted " (10%)	m3	50	0	18.80					0	940	112800		
	Fuel Steel roller 10-12t	day	2	0	40					0	81	9670		
	" Tire roller 10t	day	2	0	40					0	80	9583		
	" Bulldozer 21t	day	2	0	120					0	240	28762		
	" Vibration roller 10t	day	1	0	55					0	55	6574		
	" Motor grader 2.8m	day	1	0	55					0	55	6576		
	Sub Total									0	10,850	1,301,964		
2	Labor													
	Foreman	manday	2			0	38.2			0	76	9168		
	Labour	manday	8			0	14.3			0	114	13728		
	Steel roller 10-12t	day	2			0	33			0	66	7920		
	Tire roller 10t	day	2			0	33			0	66	7920		
	Bulldozer 21t	day	2			0	33			0	66	7920		
	Vibration roller 10t	day	1			0	33			0	33	3960		
	Motor grader 2.8m	day	1			0	33			0	33	3960		
	Sub Total									0	455	54,576		
3	Equipment													
	Steel roller 10-12t	dayunit	2					3,120	0	6,240	0	6240		
	Tire roller 10t	day.unit	2					3,360	0	6,720	0	6720		
	Bulldozer 21t	dayunit	2					12,360	0	24,720	0	24720		
	Vibration roller 10t	dayunit	1					6,360	0	6,360	0	6360		
	Motor grader 2.8m	dayunit	1					3,720	0	3,720	0	3720		
	Sub Total									47,760	0	47,760		
Total										47,760	11,305	1,404,300		
Unit Price per m2										9.55	2.26	280.86		
INDIRECT COST											15%	1.43	0.34	42.13
TOTAL										11	2.60	323		

LA UNION PORT DEVELOPMENT PROJECT

2G0603

Sand layer

UNIT

FC: YEN

LC: US\$

Total estimate for 5000 m2

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												
	Sand	m3	100	0	6.0					0	600	72000	
	Wasted sand(10%)	m3	10	0	6.0					0	30	3600	
	Fuel Motor Grader 2.8m	day	1.5	0	55					0	82	9864	
	Sub Total									0	712	85,464	
2	Labor												
	Foreman	manday	1.5			0	38.2			0	57	6876	
	Labour	manday	6			0	14.3			0	86	10296	
	Motor Grader 2.8m	day	1.5			0	33			0	50	5940	
	Sub Total									0	193	23,112	
3	Equipment												
	Motor Grader 2.8m	dayunit	1.5					3,720	0	5,580	0	5,580	
	Sub Total									5,580	0	5,580	
<b>Total</b>										5,580	905	114,156	
<b>Unit Price per m2</b>										1.12	0.18	22.83	
<b>INDIRECT COST</b>										15%	0.17	0.03	3.42
<b>TOTAL</b>										1	0.21	1	



LA UNION PORT DEVELOPMENT PROJECT  
2G0604  
ICB Pavement

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2 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												
	ICB	sq.m	5,000	0	4.70					0	23,500	2820000	
	Miscellaneous(2%)	L.S.	1	0	470					0	470	56400	
	Fuel Forklift 1.5t	day	15	0	14.85					0	223	26730	
	" Tampa 60-100kg	day	15	0	1.65					0	25	2970	
	" Bulldozer 15t	day	15	0	80.24					0	1,204	144432	
	" Vibration roller 10t	day	15	0	54.78					0	822	98604	
	" Truck 4t	day	15	0	33.38					0	501	60084	
	Sub Total									0	25,421	3,050,532	
2	Labor												
	Foreman	manday	15			0	38.2			0	573	68760	
	Labor	manday	60			0	14.3			0	858	102960	
	Forklift 1.5t	day	15			0	33			0	495	59400	
	Tampa	day	15			0	33			0	495	59400	
	Bulldozer 15t	day	15			0	33			0	495	59400	
	Vibration roller 10t	day	15			0	33			0	495	59400	
	Truck 4t	day	15			0	33			0	495	59400	
	Sub Total									0	2,916	349,920	
3	Equipment												
	Forklift 1.5t	dayunit	15					1,320	0	19,800	0	19800	
	Tampa	dayunit	15					212.40	0	3,186	0	3186	
	Bulldozer 15t	day.unit	15					7,440	0	111,600	0	111600	
	Vibration roller 10t	day.unit	15					6,360	0	95,400	0	95400	
	Truck 4t	day.unit	15					2,160	0	32,400	0	32400	
	Sub Total									134,586	0	134,586	
Total										134,586	28,337	3,535,038	
Unit Price per m2										26.92	5.67	707.01	
INDIRECT COST										15%	4.04	0.85	106.05
TOTAL										31	6.52	813	

LA UNION PORT DEVELOPMENT PROJECT

2G0701

Gravel pavement

UNIT

FC: YEN

LC: US\$

Total estimate for 5000 m2

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
						Amount		
				FC	LC	FC	LC	
2G070101	Subgrade preparation	m2	23,914	24.84	1.27	594,024	30,447.46	4,247,719
2G070102	Gravel pavement	m2	23,914	26.30	3.72	629,005	89,012.59	11,310,516
	Total					1,223,029	119,460.05	15,558,235
				Unit Price per m2		51	5.00	651

LA UNION PORT DEVELOPMENT PROJECT  
2G070101

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2

US\$=¥120

Subgrade preparation

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												
	Mechanical stabilized course	m3	500	0	6.00					0	3,000	360,000	
	Wasted " (10%)	m3	50	0	6.00					0	300	36,000	
	Fuel Steel roller 10-12t	day	5	0	40					0	201	24,174	
	" Tire roller 10t	day	5	0	40					0	200	23,958	
	" Bulldozer 21t	day	5	0	120					0	599	71,904	
	" Vibration roller 10t	day	1	0	55					0	55	6,574	
	" Motor grader 2.8m	day	2	0	55					0	110	13,152	
	Sub Total									0	4,465	535,762	
2	Labor												
	Foreman	manday	5			0	38.2			0	191	22,920	
	Labour	manday	20			0	14.3			0	286	34,320	
	Steel roller 10-12t	day	5			0	33			0	165	19,800	
	Tire roller 10t	day	5			0	33			0	165	19,800	
	Bulldozer 21t	day	5			0	33			0	165	19,800	
	Vibration roller 10t	day	1			0	33			0	33	3,960	
	Motor grader 2.8m	day	2			0	33			0	66	7,920	
	Sub Total									0	1,071	128,520	
3	Equipment												
	Steel roller 10-12t	dayunit	5					3,120	0	15,600	0	15,600	
	Tire roller 10t	dayunit	5					3,360	0	16,800	0	16,800	
	Bulldozer 21t	dayunit	5					12,360	0	61,800	0	61,800	
	Vibration roller 10t	dayunit	1					6,360	0	6,360	0	6,360	
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7,440	
	Sub Total									108,000	0	108,000	
Total										108,000	5,536	772,282	
Unit Price per m2										21.60	1.11	154.46	
INDIRECT COST										15%	3.24	0.17	23.17
TOTAL										25	1.27	178	

LA UNION PORT DEVELOPMENT PROJECT  
2G070102

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2 US\$=¥120

Gravel pavement

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	cu.m	1,500	0	8.40					0	12,600	151,200	
	Wasted " (10%)	cu.m	150	0	8.40					0	1,260	15,120	
	Fuel Steel roller 10-12t	day	5	0	40					0	201	2,414	
	" Tire roller 10t	day	5	0	40					0	200	23,958	
	" Bulldozer 21t	day	5	0	120					0	599	71,904	
	" Vibration roller 10t	day	2	0	55					0	110	13,147	
	" Motor grader 2.8m	day	2	0	55					0	110	13,152	
	Sub Total									0	15,079	1,809,535	
2	Labor												
	Foreman	manday	5			0	38.2			0	191	22,920	
	Labour	manday	20			0	14.3			0	286	34,320	
	Steel roller 10-12t	day	5			0	33			0	165	19,800	
	Tire roller 10t	day	5			0	33			0	165	19,800	
	Bulldozer 21t	day	5			0	33			0	165	19,800	
	Vibration roller 10t	day	2			0	33			0	66	7,920	
	Motor grader 2.8m	day	2			0	33			0	66	7,920	
	Sub Total									0	1,104	132,480	
3	Equipment												
	Steel roller 10-12t	dayunit	5					3,120	0	15,600	0	15,600	
	Tire roller 10t	dayunit	5					3,360	0	16,800	0	16,800	
	Bulldozer 21t	dayunit	5					12,360	0	61,800	0	61,800	
	Vibration roller 10t	dayunit	2					6,360	0	12,720	0	12,720	
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7,440	
	Sub Total									114,360	0	114,360	
<b>Total</b>										114,360	16,182	2,056,375	
<b>Unit Price per m2</b>										22.87	3.24	411.28	
<b>INDIRECT COST</b>										15%	3.43	0.49	61.69
<b>TOTAL</b>										26	3.72	473	

## LA UNION PORT DEVELOPMENT PROJECT

2G0702

Foundation for concrete stacking plate

## UNIT

FC: YEN

LC: US\$

Total estimate for 5000 m2

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2G070201	Subgrade preparation	sq.m	5,000	24.84	2.03	124,200.00	10,161.03	1,343,524
2G070202	Base course	sq.m	5,000	57.24	4.94	286,212.00	24,722.79	3,252,947
2G070203	Lean Concrete	sq.m	5,000	3.73	4.04	18,650.70	20,208.63	2,443,687
	Total					429,062.70	55,092.46	7,040,158
				Unit price per m2		86	11.02	1,408

LA UNION PORT DEVELOPMENT PROJECT

2G070201

Subgrade preparation

UNIT

FC: YEN

LC: US\$

Total estimate for 5000 m2

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													
	Mechanical stabilized course	m3	1,000	0	6.00					0	6,000	720000		
	Wasted " (10%)	m3	100	0	6.00					0	600	72000		
	Fuel Steel roller 10-12t	day	5	0	40					0	201	24174		
	" Tire roller 10t	day	5	0	40					0	200	23958		
	" Bulldozer 21t	day	5	0	120					0	599	71904		
	" Vibration roller 10t	day	1	0	55					0	55	6574		
	" Motor grader 2.8m	day	2	0	55					0	110	13152		
	Sub Total									0	7,765	931,762		
2	Labor													
	Foreman	manday	5			0	38.2			0	191	22920		
	Labor	manday	20			0	14.3			0	286	34320		
	Steel roller 10-12t	day	5			0	33			0	165	19800		
	Tire roller 10t	day	5			0	33			0	165	19800		
	Bulldozer 21t	day	5			0	33			0	165	19800		
	Vibration roller 10t	day	1			0	33			0	33	3960		
	Motor grader 2.8m	day	2			0	33			0	66	7920		
	Sub Total									0	1,071	128,520		
3	Equipment													
	Steel roller 10-12t	dayunit	5					3,120	0	15,600	0	15600		
	Tire roller 10t	dayunit	5					3,360	0	16,800	0	16800		
	Bulldozer 21t	dayunit	5					12,360	0	61,800	0	61800		
	Vibration roller 10t	dayunit	1					6,360	0	6,360	0	6360		
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7440		
	Sub Total									108,000	0	108,000		
<b>Total</b>										<b>108,000</b>	<b>8,836</b>	<b>1,168,282</b>		
<b>Unit Price per m2</b>										<b>21.60</b>	<b>1.77</b>	<b>233.66</b>		
<b>INDIRECT COST</b>											15%	3.24	0.27	35.05
<b>TOTAL</b>										<b>24.84</b>	<b>2.03</b>	<b>268.70</b>		

LA UNION PORT DEVELOPMENT PROJECT  
2G070202  
Base course

UNIT  
FC: YEN  
LC: US\$

Total estimate for 5000 m2 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												
	Crusher run	m3	2,500	0	6.00					0	15,000	1800000	
	Wasted " (10%)	m3	250	0	6.00					0	1,500	180000	
	Fuel Steel roller 10-12t	day	10	0	40					0	403	48348	
	" Tire roller 10t	day	10	0	40					0	399	47916	
	" Bulldozer 21t	day	10	0	120					0	1,198	143808	
	" Vibration roller 10t	day	6	0	55					0	329	39442	
	" Motor grader 2.8m	day	6	0	55					0	329	39456	
	Sub Total									0	19,158	2,298,970	
2	Labor												
	Foreman	manday	10			0	38.2			0	382	45840	
	Labor	manday	40			0	14.3			0	572	68640	
	Steel roller 10-12t	day	10			0	33			0	330	39600	
	Tire roller 10t	day	10			0	33			0	330	39600	
	Bulldozer 21t	day	10			0	33			0	330	39600	
	Vibration roller 10t	day	6			0	33			0	198	23760	
	Motor grader 2.8m	day	6			0	33			0	198	23760	
	Sub Total									0	2,340	280,800	
3	Equipment												
	Steel roller 10-12t	dayunit	10					3,120	0	31,200	0	31200	
	Tire roller 10t	day.unit	10					3,360	0	33,600	0	33600	
	Bulldozer 21t	dayunit	10					12,360	0	123,600	0	123600	
	Vibration roller 10t	dayunit	6					6,360	0	38,160	0	38160	
	Motor grader 2.8m	dayunit	6					3,720	0	22,320	0	22320	
	Sub Total									248,880	0	248,880	
Total										248,880	21,498	2,828,650	
Unit Price per m2										49.78	4.30	565.73	
INDIRECT COST										15%	7.47	0.64	84.86
TOTAL										57.24	4.94	650.59	

LA UNION PORT DEVELOPMENT PROJECT

2G070203

Lean concrete

UNIT

FC: US\$

LC: US\$

Total estimate for 5000 m2

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price						Unit Cost		Total in US\$	
				Material		Labor		Equipment		Amount			
				FC	LC	FC	LC	FC	LC	FC	LC		
1	Material												
	Ready mixed concrete CG12	cu.m	250	0	65.00					0	16,250	1950000	
	Wasted " (1.5%)	cu.m	4	0	65.00					0	260	31200	
	Miscellaneous(2%)	L.S.	1	0	40					0	330	39624	
	Fuel Mixer truck	day	2.5	0	71					0	178	21399	
	" Generator 45KVA	day	2.5	0	32					0	79	9504	
	Sub Total									0	17,098	2,051,727	
2	Labor												
	Foreman	manday	2.5			0	38.2			0	96	11460	
	Labor	manday	15			0	14.3			0	215	25740	
	Mixer truck	day	2.5			0	33			0	83	9900	
	Generator 45KVA	day	2.5			0	33			0	83	9900	
	Sub Total									0	475	57,000	
3	Equipment												
	Mixer truck 4.5m3	dayunit	2.5					5,280	0	13,200	0	13200	
	Generator 45KVA	day.unit	2.5					1,080	0	2,700	0	2700	
	Vibrator	dayunit	2.5					127	0	318	0	318	
	Sub Total									16,218	0	16,218	
<b>Total</b>										16,218	17,573	2,124,945	
<b>Unit Price per m2</b>										3.24	3.51	424.99	
<b>INDIRECT COST</b>										15%	0.49	0.53	63.75
<b>TOTAL</b>										3.73	4.04	488.74	



LA UNION PORT DEVELOPMENT PROJECT  
 2G0703  
 Concrete stacking plate type-A

UNIT  
 FC: YEN  
 LC: US\$

Total estimate for 1070 Nos.

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2G070301	Fabrication Steel Bar	Nos	1,070	256.07	37.22	273,999.00	39,829.65	5,053,556
2G070302	Production of Stacking Plate	Nos	1,070	634.44	64.36	678,845.46	68,860.48	8,942,103
2G070303	Placing of Stacking Plate	Nos	1070	745.20	14.80	797,364.00	15,836.14	2,697,701
	Total					1,750,208.46	124,526.27	16,693,360.99
				Unit Price per No.		1,636	116.38	15,601

LA UNION PORT DEVELOPMENT PROJECT

2G070301

Fabrication of Steel bar

UNIT

FC: YEN

LC: US\$

Total estimate for 1070 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												
	Steel bar D10-D13	ton	62	0	406.80					0	25,222	3026592	
	Wasted " (2%)	ton	1.2	0	406.8					0	504	60,532	
	Small size steel	kg	915	0	0.407					0	372	44667	
	Welding rod	kg	275	0	2.1					0	578	69,300	
	Fuel Truck crane 16t	day	22.0	0	82					0	1,794	215,318	
	" Generator 45KVA	day	22.0	0	37					0	807	96,835	
	Sub Total									0	28,470	3,513,244	
2	Labor												
	Foreman	manday	22.0			0	38.2			0	840	100,848	
	Labor	manday	220.0			0	14.3			0	3,146	377,520	
	Welder	manday	22.0			0	33			0	726	87,120	
	Truck crane 16t	day	22.0			0	33			0	726	87,120	
	Generator 45KVA	day	22.0			0	33			0	726	87,120	
	Sub Total									0	6,164	739,728	
3	Equipment												
	Truck crane 16t	dayunit	22.0					9,480	0	208,560	0	208,560	
	Generator 45KVA	dayunit	22.0					1,080	0	23,760	0	23,760	
	Bar Cutter	day.unit	22.0					270.00	0	5,940	0	5,940	
	Bar Bender	day.unit	22.0					270.00	0	5,940	0	5,940	
	Sub Total									238,260	0	244,200	
<b>Total</b>										238,260	34,634	4,497,172	
<b>Unit Price per No.</b>										222.67	32.37	4202.96	
<b>INDIRECT COST</b>										15%	33.40	4.86	630.44
<b>TOTAL</b>										256	37.22	4,833	

LA UNION PORT DEVELOPMENT PROJECT  
2G070302  
Production of Stacking Plate

UNIT  
FC: YEN  
LC: US\$

Total estimate for 1070 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	430	0	75.00					0	32,250	3870000	
	Wasted " (1.5%)	m3	6.5	0	75.0					0	645	77,400	
	Metal form bottom	m2	2,140	0	2.0					0	4,280	513600	
	Metal form side	m2	1,284	0	5.2					0	6,677	801,216	
	Fuel Truck crane 16t	day	54.5	0	82					0	4,445	533,402	
	" Generator 45KVA	day	54.5	0	37					0	1,999	239,887	
	Sub Total									0	50,296	6,035,506	
2	Labor												
	Foreman	manday	54.5			0	38.2			0	2,082	249,828	
	Labor	manday	273.0			0	14.3			0	3,904	468,468	
	Truck crane 16t	day	54.5			0	33			0	1,799	215,820	
	Generator 45KVA	day	54.5			0	33			0	1,799	215,820	
	Sub Total									0	9,583	1,149,936	
3	Equipment												
	Truck crane 16t	dayunit	54.5					9,480	0	516,660	0	516,660	
	Generator 45KVA	dayunit	54.5					1,080	0	58,860	0	58,860	
	Vibrator	day.unit	109.0					135.60	0	14,780	0	14,780	
	Sub Total									590,300	0	590,300	
Total										590,300	59,879	7,775,742	
Unit Price per No.										551.68	55.96	7267.05	
INDIRECT COST										15%	82.75	8.39	1090.06
TOTAL										634	64.36	8,357	

LA UNION PORT DEVELOPMENT PROJECT  
2G070303

UNIT  
FC: YEN  
LC: US\$

Placing of Stacking Plate

Total estimate for 1070 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												
	Fuel Truck crane 16t	day	53.5	0	82					0	4,363	523,615	
	" Truck 8t	day	53.5	0	43					0	2,315	277,858	
	Sub Total									0	4,363	801,473	
2	Labor												
	Foreman	manday	53.5			0	38.2			0	2,044	245,244	
	Labor	manday	268.0			0	14.3			0	3,832	459,888	
	Truck crane 16t	day	53.5			0	33			0	1,766	211,860	
	Truck 8t	day	53.5			0	33			0	1,766	211,860	
	Sub Total									0	9,407	1,128,852	
3	Equipment												
	Truck crane 16t	dayunit	53.5					9,480	0	507,180	0	507,180	
	Truck 8t	dayunit	53.5					3,480	0	186,180	0	186,180	
	Sub Total									693,360	0	693,360	
<b>Total</b>										693,360	13,771	2,623,685	
<b>Unit Price per No.</b>										648.00	12.87	2452.04	
<b>INDIRECT COST</b>													
										15%	97.20	1.93	367.81
<b>TOTAL</b>										745	14.80	2,820	

## LA UNION PORT DEVELOPMENT PROJECT

2G0704

Concrete stacking plate type-B

## UNIT

FC: YEN

LC: US\$

Total estimate for 420 Nos.

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2G070401	Fabrication Steel Bar	Nos	420	148.27	21.45	62,272.50	9,007.16	1,143,132
2G070402	Production of Stacking Plate	Nos	420	355.88	36.84	149,470.56	15,471.66	2,006,070
2G070403	Placing of Stacking Plate	Nos	420	709.71	18.00	298,080.00	7,561.48	1,205,458
	Total					509,823.06	32,040.30	4,354,659.22
				Unit Price per No.		1,214	76.29	10,368

LA UNION PORT DEVELOPMENT PROJECT  
2G070401

UNIT  
FC: YEN  
LC: US\$

Total estimate for 420 Nos US\$=¥120

Fabrication of Steel 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												
	Steel bar D10-D13	ton	14	0	406.80					0	5,695	683424	
	Wasted " (2%)	ton	0.3	0	406.8					0	114	13,668	
	Small size steel	kg	207	0	0.407					0	84	10105	
	Welding rod	kg	62	0	2.1					0	130	15,624	
	Fuel Truck crane 16t	day	5.0	0	82					0	408	48,936	
	" Generator 45KVA	day	5.0	0	37					0	183	22,008	
	Sub Total									0	6,431	793,765	
2	Labor												
	Foreman	manday	5.0			0	38.2			0	191	22,920	
	Labor	manday	50.0			0	14.3			0	715	85,800	
	Welder	manday	5.0			0	33			0	165	19,800	
	Truck crane 16t	day	5.0			0	33			0	165	19,800	
	Generator 45KVA	day	5.0			0	33			0	165	19,800	
	Sub Total									0	1,401	168,120	
3	Equipment												
	Truck crane 16t	dayunit	5.0					9,480	0	47,400	0	47,400	
	Generator 45KVA	dayunit	5.0					1,080	0	5,400	0	5,400	
	Bar Cutter	day.unit	5.0					270.00	0	1,350	0	1,350	
	Bar Bender	day.unit	5.0					270.00	0	1,350	0	1,350	
	Sub Total									54,150	0	55,500	
<b>Total</b>										54,150	7,832	1,017,385	
<b>Unit Price per No.</b>										128.93	18.65	2422.35	
<b>INDIRECT COST</b>										15%	19.34	2.80	363.35
<b>TOTAL</b>										148	21.45	2,786	

LA UNION PORT DEVELOPMENT PROJECT  
2G070402

UNIT  
FC: YEN  
LC: US\$

Total estimate for 420 Nos US\$=¥120

Production of Stacking Plate

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	93	0	75.00					0	6,975	837,000	
	Wasted " (1.5%)	m3	1.4	0	75.0					0	140	16,740	
	Metal form bottom	m2	508	0	2.0					0	1,016	121,920	
	Metal form side	m2	430	0	5.2					0	2,236	268,320	
	Fuel Truck crane 16t	day	12.0	0	82					0	979	117,446	
	" Generator 45KVA	day	12.0	0	37					0	440	52,819	
	Sub Total									0	11,345	1,414,246	
2	Labor												
	Foreman	manday	12.0			0	38.2			0	458	55,008	
	Labor	manday	60.0			0	14.3			0	858	102,960	
	Truck crane 16t	day	12.0			0	33			0	396	47,520	
	Generator 45KVA	day	12.0			0	33			0	396	47,520	
	Sub Total									0	2,108	253,008	
3	Equipment												
	Truck crane 16t	dayunit	12.0					9,480	0	113,760	0	113,760	
	Generator 45KVA	dayunit	12.0					1,080	0	12,960	0	12,960	
	Vibrator	day.unit	24.0					135.60	0	3,254	0	3,254	
	Sub Total									129,974	0	129,974	
Total										129,974	13,454	1,797,228	
Unit Price per No.										309.46	32.03	4,279.11	
INDIRECT COST										15%	46.42	4.80	641.87
TOTAL										356	36.84	4,921	

LA UNION PORT DEVELOPMENT PROJECT  
 2G070403  
 Placing of Stacking Plate

UNIT  
 FC: YEN  
 LC: US\$

Total estimate for 420 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												
	Fuel Truck crane 16t	day	20.0	0	82					0	1,631	195,744	
	" Truck 8t	day	20.0	0	43					0	866	103,872	
	Sub Total									0	1,631	299,616	
2	Labor												
	Foreman	manday	20.0			0	38.2			0	764	91,680	
	Labor	manday	200.0			0	14.3			0	2,860	343,200	
	Truck crane 16t	day	20.0			0	33			0	660	79,200	
	Truck 8t	day	20.0			0	33			0	660	79,200	
	Sub Total									0	4,944	593,280	
3	Equipment												
	Truck crane 16t	dayunit	20.0					9,480	0	189,600	0	189,600	
	Truck 8t	dayunit	20.0					3,480	0	69,600	0	69,600	
	Sub Total									259,200	0	259,200	
<b>Total</b>										259,200	6,575	1,152,096	
<b>Unit Price per No.</b>										617.14	15.66	2743.09	
<b>INDIRECT COST</b>										15%	92.57	2.35	411.46
<b>TOTAL</b>										710	18.00	3,155	



## LA UNION PORT DEVELOPMENT PROJECT

2G0705

Concrete stacking plate type-C

## UNIT

FC: YEN

LC: US\$

Total estimate for 40 Nos.

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2G070501	Fabrication Steel Bar	Nos	40	467.04	33.75	18,681.75	1,349.93	180,673
2G070502	Production of Stacking Plate	Nos	40	467.10	50.37	18,683.82	2,014.73	260,452
2G070503	Placing of Stacking Plate	Nos	40	596.16	15.12	23,846.40	604.92	96,437
	Total					61,211.97	3,969.58	537,561.36
				Unit Price per No.		1,530	99.24	13,439

LA UNION PORT DEVELOPMENT PROJECT  
2G070501

UNIT  
FC: YEN  
LC: US\$

Total estimate for 40 Nos US\$=¥120

Fabrication of Steel 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												
	Steel bar D10-D13	ton	1.7	0	406.80					0	692	82987	
	Wasted " (2%)	ton	0.03	0	406.8					0	14	1,660	
	Small size steel	kg	25	0	0.407					0	10	1220	
	Welding rod	kg	7.5	0	2.1					0	16	1,890	
	Fuel Truck crane 16t	day	1.5	0	82					0	122	14,681	
	" Generator 45KVA	day	1.5	0	37					0	55	6,602	
	Sub Total									0	854	109,041	
2	Labor												
	Foreman	manday	1.5			0	38.2			0	57	6,876	
	Labor	manday	8.0			0	14.3			0	114	13,728	
	Welder	manday	1.5			0	33			0	50	5,940	
	Truck crane 16t	day	1.5			0	33			0	50	5,940	
	Generator 45KVA	day	1.5			0	33			0	50	5,940	
	Sub Total									0	320	38,424	
3	Equipment												
	Truck crane 16t	dayunit	1.5					9,480	0	14,220	0	14,220	
	Generator 45KVA	dayunit	1.5					1,080	0	1,620	0	1,620	
	Bar Cutter	day.unit	1.5					270.00	0	405	0	405	
	Bar Bender	day.unit	1.5					270.00	0	405	0	405	
	Sub Total									16,245	0	16,650	
<b>Total</b>										16,245	1,174	164,115	
<b>Unit Price per No.</b>										406.13	29.35	4102.86	
<b>INDIRECT COST</b>										15%	60.92	4.40	615.43
<b>TOTAL</b>										467	33.75	4,718	

LA UNION PORT DEVELOPMENT PROJECT  
2G070502  
Production of Stacking Plate

UNIT  
FC: YEN  
LC: US\$

Total estimate for 40 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	12	0	75.00					0	900	108000	
	Wasted " (1.5%)	m3	0.2	0	75.0					0	18	2,160	
	Metal form bottom	m2	56	0	2.0					0	112	13440	
	Metal form side	m2	44	0	5.2					0	229	27,456	
	Fuel Truck crane 16t	day	1.5	0	82					0	122	14,681	
	" Generator 45KVA	day	1.5	0	37					0	55	6,602	
	Sub Total									0	1,381	172,339	
2	Labor												
	Foreman	manday	1.5			0	38.2			0	57	6,876	
	Labor	manday	15.0			0	14.3			0	215	25,740	
	Truck crane, 16t	day	1.5			0	33			0	50	5,940	
	Generator 45KVA	day	1.5			0	33			0	50	5,940	
	Sub Total									0	371	44,496	
3	Equipment												
	Truck crane 16t	dayunit	1.5					9,480	0	14,220	0	14,220	
	Generator 45KVA	dayunit	1.5					1,080	0	1,620	0	1,620	
	Vibrator	day.unit	3.0					135.60	0	407	0	407	
	Sub Total									16,247	0	16,247	
Total										16,247	1,752	233,082	
Unit Price per No.										406.17	43.80	5827.05	
INDIRECT COST										15%	60.93	6.57	874.06
TOTAL										467	50.37	6,701	

LA UNION PORT DEVELOPMENT PROJECT

2G070503

Placing of Stacking Plate

UNIT

FC: YEN

LC: US\$

Total estimate for 40 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												
	Fuel Truck crane 16t	day	1.6	0	82					0	130	15,660	
	" Truck 8t	day	1.6	0	43					0	69	8,310	
	Sub Total									0	130	23,969	
2	Labor												
	Foreman	manday	1.6			0	38.2			0	61	7,334	
	Labor	manday	16.0			0	14.3			0	229	27,456	
	Truck crane 16t	day	1.6			0	33			0	53	6,336	
	Truck 8t	day	1.6			0	33			0	53	6,336	
	Sub Total									0	396	47,462	
3	Equipment												
	Truck crane 16t	dayunit	1.6					9,480	0	15,168	0	15,168	
	Truck 8t	dayunit	1.6					3,480	0	5,568	0	5,568	
	Sub Total									20,736	0	20,736	
<b>Total</b>										20,736	526	92,168	
<b>Unit Price per No.</b>										518.40	13.15	2304.19	
<b>INDIRECT COST</b>										15%	77.76	1.97	345.63
<b>TOTAL</b>										596	15.12	2,650	

## LA UNION PORT DEVELOPMENT PROJECT

2G0706

Concrete stacking plate type-D

## UNIT

FC: YEN

LC: US\$

Total estimate for 28 Nos.

US\$=¥125

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
						Amount		
				FC	LC	FC	LC	
2G070601	Fabrication Steel Bar	Nos	28	463.34	25.52	12,973.44	714.58	102,296
2G070602	Production of Stacking Plate	Nos	28	463.39	39.57	12,974.88	1,107.86	151,458
2G070603	Placing of Stacking Plate	Nos	28	554.46	13.50	15,525.00	378.07	62,784
	Total					41,473.31	2,200.52	316,538.29
				Unit Price per No.		1,481	78.59	11,305

LA UNION PORT DEVELOPMENT PROJECT  
2G070601  
Fabrication of Steel bar

UNIT  
FC: YEN  
LC: US\$

Total estimate for 28 Nos US\$=¥125

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												
	Steel bar D10-D13	ton	0.8	0	406.80					0	313	39155	
	Wasted " (2%)	ton	0.02	0	406.8					0	6	783	
	Small size steel	kg	11	0	0.407					0	4	559	
	Welding rod	kg	3.4	0	2.1					0	7	893	
	Fuel Truck crane 16t	day	1	0	82					0	82	10,195	
	" Generator 45KVA	day	1	0	37					0	37	4,585	
	Sub Total									0	413	56,169	
2	Labor												
	Foreman	manday	1			0	38.2			0	38	4,775	
	Labor	manday	5			0	14.3			0	72	8,938	
	Welder	manday	1			0	33			0	33	4,125	
	Truck crane 16t	day	1			0	33			0	33	4,125	
	Generator 45KVA	day	1			0	33			0	33	4,125	
	Sub Total									0	209	26,088	
3	Equipment												
	Truck crane 16t	dayunit	1					9,875	0	9,875	0	9,875	
	Generator 45KVA	dayunit	1					1,125	0	1,125	0	1,125	
	Bar Cutter	day.unit	1					281.25	0	281	0	281	
	Bar Bender	day.unit	1					281.25	0	281	0	281	
	Sub Total									11,281	0	11,563	
Total										11,281	621	93,819	
Unit Price per No.										402.90	22.19	3350.69	
<b>INDIRECT COST</b>										15%	60.44	3.33	502.60
<b>TOTAL</b>										<b>463</b>	<b>25.52</b>	<b>3,853</b>	

LA UNION PORT DEVELOPMENT PROJECT  
2G070602  
Production of Stacking Plate

UNIT  
FC: YEN  
LC: US\$

Total estimate for 28 Nos

US\$=¥125

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	6	0	75.00					0	450	56250	
	Wasted " (1.5%)	m3	0.1	0	75.0					0	9	1,125	
	Metal form bottom	m2	28	0	2.0					0	56	7000	
	Metal form side	m2	23	0	5.2					0	120	14,950	
	Fuel Truck crane 16t	day	1.0	0	82					0	82	10,195	
	" Generator 45KVA	day	1.0	0	37					0	37	4,585	
	Sub Total									0	716	94,105	
2	Labor												
	Foreman	manday	1			0	38.2			0	38	4,775	
	Labor	manday	10			0	14.3			0	143	17,875	
	Truck crane 16t	day	1			0	33			0	33	4,125	
	Generator 45KVA	day	1			0	33			0	33	4,125	
	Sub Total									0	247	30,900	
3	Equipment												
	Truck crane 16t	dayunit	1					9,875	0	9,875	0	9,875	
	Generator 45KVA	dayunit	1					1,125	0	1,125	0	1,125	
	Vibrator	day.unit	2					141.25	0	283	0	283	
	Sub Total									11,283	0	11,283	
<b>Total</b>										11,283	963	136,288	
<b>Unit Price per No.</b>										402.95	34.41	4867.41	
<b>INDIRECT COST</b>										15%	60.44	5.16	730.11
<b>TOTAL</b>										463	39.57	5,598	

LA UNION PORT DEVELOPMENT PROJECT  
 2G070603  
 Placing of Stacking Plate

UNIT  
 FC: YEN  
 LC: US\$

Total estimate for 28 Nos US\$=¥125

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												
	Fuel Truck crane 16t	day	1	0	82					0	82	10,195	
	" Truck 8t	day	1	0	43					0	43	5,410	
	Sub Total									0	82	15,605	
2	Labor												
	Foreman	manday	1			0	38.2			0	38	4,775	
	Labor	manday	10			0	14.3			0	143	17,875	
	Truck crane 16t	day	1			0	33			0	33	4,125	
	Truck 8t	day	1			0	33			0	33	4,125	
	Sub Total									0	247	30,900	
3	Equipment												
	Truck crane 16t	dayunit	1					9,875	0	9,875	0	9,875	
	Truck 8t	dayunit	1					3,625	0	3,625	0	3,625	
	Sub Total									13,500	0	13,500	
<b>Total</b>										13,500	329	60,005	
<b>Unit Price per No.</b>										482.14	11.74	2143.04	
<b>INDIRECT COST</b>										15%	72.32	1.76	321.46
<b>TOTAL</b>										554	13.50	2,464	



LA UNION PORT DEVELOPMENT PROJECT  
 2G0707  
 Concrete stacking plate type-E

UNIT  
 FC: YEN  
 LC: US\$

Total estimate for 56 Nos.

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2G070701	Fabrication Steel Bar	Nos	56	333.60	18.81	18,681.75	1,053.13	145,058
2G070702	Production of Stacking Plate	Nos	56	333.64	28.46	18,683.82	1,593.83	209,944
2G070703	Placing of Stacking Plate	Nos	56	399.21	10.13	22,356.00	567.11	90,409
	Total					59,721.57	3,214.08	445,410.65
				Unit Price per No.		1,066	57.39	7,954

LA UNION PORT DEVELOPMENT PROJECT  
2G070701

UNIT  
FC: YEN  
LC: US\$

Total estimate for 56 Nos US\$=¥120

Fabrication of Steel 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												
	Steel bar D10-D13	ton	1.1	0	406.80					0	447	53698	
	Wasted " (2%)	ton	0.02	0	406.8					0	9	1,074	
	Small size steel	kg	16	0	0.407					0	7	781	
	Welding rod	kg	4.9	0	2.1					0	10	1,235	
	Fuel Truck crane 16t	day	1.5	0	82					0	122	14,681	
	" Generator 45KVA	day	1.5	0	37					0	55	6,602	
	Sub Total									0	596	78,071	
2	Labor												
	Foreman	manday	1.5			0	38.2			0	57	6,876	
	Labor	manday	8.0			0	14.3			0	114	13,728	
	Welder	manday	1.5			0	33			0	50	5,940	
	Truck crane 16t	day	1.5			0	33			0	50	5,940	
	Generator 45KVA	day	1.5			0	33			0	50	5,940	
	Sub Total									0	320	38,424	
3	Equipment												
	Truck crane 16t	dayunit	1.5					9,480	0	14,220	0	14,220	
	Generator 45KVA	dayunit	1.5					1,080	0	1,620	0	1,620	
	Bar Cutter	day.unit	1.5					270.00	0	405	0	405	
	Bar Bender	day.unit	1.5					270.00	0	405	0	405	
	Sub Total									16,245	0	16,650	
<b>Total</b>										16,245	916	133,145	
<b>Unit Price per No.</b>										290.09	16.35	2377.58	
<b>INDIRECT COST</b>										15%	43.51	2.45	356.64
<b>TOTAL</b>										334	18.81	2,734	

LA UNION PORT DEVELOPMENT PROJECT  
2G070702  
Production of Stacking Plate

UNIT  
FC: YEN  
LC: US\$

Total estimate for 56 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	8	0	75.00					0	600	72000	
	Wasted " (1.5%)	m3	0.1	0	75.0					0	12	1,440	
	Metal form bottom	m2	39	0	2.0					0	78	9360	
	Metal form side	m2	39	0	5.2					0	203	24,336	
	Fuel Truck crane 16t	day	1.5	0	82					0	122	14,681	
	" Generator 45KVA	day	1.5	0	37					0	55	6,602	
	Sub Total									0	1,015	128,419	
2	Labor												
	Foreman	manday	1.5			0	38.2			0	57	6,876	
	Labor	manday	15			0	14.3			0	215	25,740	
	Truck crane 16t	day	1.5			0	33			0	50	5,940	
	Generator 45KVA	day	1.5			0	33			0	50	5,940	
	Sub Total									0	371	44,496	
3	Equipment												
	Truck crane 16t	dayunit	1.5					9,480	0	14,220	0	14,220	
	Generator 45KVA	dayunit	1.5					1,080	0	1,620	0	1,620	
	Vibrator	day.unit	3.0					135.60	0	407	0	407	
	Sub Total									16,247	0	16,247	
Total										16,247	1,386	189,162	
Unit Price per No.										290.12	24.75	3377.89	
<b>INDIRECT COST</b>										15%	43.52	3.71	506.68
<b>TOTAL</b>										<b>334</b>	<b>28.46</b>	<b>3,885</b>	

LA UNION PORT DEVELOPMENT PROJECT

2G070703

Placing of Stacking Plate

UNIT

FC: YEN

LC: US\$

Total estimate for 56 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												
	Fuel Truck crane 16t	day	1.5	0	82					0	122	14,681	
	" Truck 8t	day	1.5	0	43					0	65	7,790	
	Sub Total									0	122	22,471	
2	Labor												
	Foreman	manday	1.5			0	38.2			0	57	6,876	
	Labor	manday	15			0	14.3			0	215	25,740	
	Truck crane 16t	day	1.5			0	33			0	50	5,940	
	Truck 8t	day	1.5			0	33			0	50	5,940	
	Sub Total									0	371	44,496	
3	Equipment												
	Truck crane 16t	dayunit	1.5					9,480	0	14,220	0	14,220	
	Truck 8t	dayunit	1.5					3,480	0	5,220	0	5,220	
	Sub Total									19,440	0	19,440	
<b>Total</b>										19,440	493	86,407	
<b>Unit Price per No.</b>										347.14	8.81	1542.99	
<b>INDIRECT COST</b>										15%	52.07	1.32	231.45
<b>TOTAL</b>										399	10.13	1,774	

## LA UNION PORT DEVELOPMENT PROJECT

2G09

FC: YEN

Curb type 1

LC: US\$

Total estimate for 3700 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		FC	LC	
				FC	LC			
2G0901	Production of curb	M	3700	25.06	6.88	92,736	25,448.41	3,146,546
2G0902	Placing of Curb	M	3700	26.73	2.43	98,884	8,994.67	1,178,244
	Total					191,620	34,443.08	4,324,790
				Unit Price per m		52	9.31	1,169

LA UNION PORT DEVELOPMENT PROJECT

2G0901

Production of Curb

FC: YEN

LC: US\$

Total estimate for 3700 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	209.50	0	70.00					0	14,665	1,759,800	
	Wasted concrete(1.5%)	m3	3.14	0	70.00					0	220	26,397	
	Formwork	sq.m	2960	0	1.10					0	3,256	390,720	
	Fuel Truck with crane 8t	day	12	0	61					0	737	88,387	
	" Generator 45KVA	day	12	0	24					0	285	34,214	
	Sub Total									0	19,163	2,299,519	
2	Labor												
	Foreman	man.day	12			0	38.20			0	458	55,008	
	Labor	man.day	120			0	14.30			0	1,716	205,920	
	Truck with crane 8t	man.day	12			0	33			0	396	47,520	
	Generator 45KVA	man.day	12			0	33			0	396	47,520	
	Sub Total									0	2,966	355,968	
3	Equipment												
	Truck with crane 8t	day	12					5,520	0	66,240	0	66,240	
	Generator 45KVA	day	12					1,080	0	12,960	0	12,960	
	Vibrator	day	12					120	0	1,440	0	1,440	
	Sub Total									80,640	0	80,640	
<b>Total</b>										80,640	22,129	2,736,127	
<b>Unit Price per m</b>										21.79	5.98	739.49	
<b>INDIRECT COST</b>										15%	3.27	0.90	110.92
<b>TOTAL</b>										25	6.88	850	

LA UNION PORT DEVELOPMENT PROJECT  
2G0902

FC: YEN

LC: US\$

Total estimate for 3700 m

US\$=¥120

## Placing of curb

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													
	Mortar	m3	12.6	0	75.00					0	945	113,400		
	Fuel Truck with crane 8t	day	15	0	61					0	921	110,484		
	" Tampa	day	15	0	2					0	25	2,970		
	Sub Total									0	1,890	226,854		
2	Labor													
	Foreman	man.day	30			0	38.20			0	1,146	137,520		
	Labor	man.day	300			0	14.30			0	4,290	514,800		
	Truck with crane 8t	man.day	15			0	33			0	495	59,400		
	Tampa	man.day	15			0	14			0	215	25,740		
	Sub Total									0	5,931	737,460		
3	Equipment													
	Truck with crane 8t	day	15					5,520	0	82,800	0	82,800		
	Tampa	day	15					212	0	3,186	0	3,186		
	Sub Total									85,986	0	85,986		
<b>Total</b>										85,986	7,821	1,050,300		
<b>Unit Price per m</b>										23.24	2.11	283.86		
<b>INDIRECT COST</b>											15%	3.49	0.32	42.58
<b>TOTAL</b>										27	2.43	326		

LA UNION PORT DEVELOPMENT PROJECT

2G10

Curb type 2

FC: YEN

LC: US\$

Total estimate for 2000 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2G1001	Production of curb	M	2000	23.18	6.30	46,368.00	12,596.57	1,557,956.52
2G1002	Placing of Curb	M	2000	32.96	3.71	65,922.60	7,428.20	957,306.00
	Total					112,290.60	20,024.77	2,515,262.52
Unit Price per m						56	10.01	1,258



LA UNION PORT DEVELOPMENT PROJECT  
2G1001

FC: YEN

LC: US\$

Total estimate for 2000 m

US\$=¥120

## Production of Curb

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	110.00	0	70.00					0	7,700	924,000	
	Wasted concrete(1.5%)	m3	1.65	0	70.00					0	116	13,860	
	Formwork	sq.m	1040	0	1.10					0	1,144	137,280	
	Fuel Truck with crane 8t	day	6	0	61					0	368	44,194	
	Generator 45KVA	day	6	0	24					0	143	17,107	
	Sub Total									0	9,470	1,136,441	
2	Labor												
	Foreman	man.day	6			0	38.20			0	229	27,504	
	Labor	man.day	60			0	14.30			0	858	102,960	
	Truck with crane 8t	man.day	6			0	33			0	198	23,760	
	Generator 45KVA	man.day	6			0	33			0	198	23,760	
	Sub Total									0	1,483	177,984	
3	Equipment												
	Truck with crane 8t	day	6					5,520	0	33,120	0	33,120	
	Generator 45KVA	day	6					1,080	0	6,480	0	6,480	
	Vibrator	day	6					120	0	720	0	720	
	Sub Total									40,320	0	40,320	
Total										40,320	10,954	1,354,745	
Unit Price per m										20.16	5.48	677.37	
INDIRECT COST										15%	3.02	0.82	101.61
TOTAL										23	6.30	779	

LA UNION PORT DEVELOPMENT PROJECT

2G1002

Placing of curb

FC: YEN

LC: US\$

Total estimate for 2000 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	300	82.8	1.58					24840	474	24,840		
	Backfill	m3	165	84	7.38					13860	1,218	13,860		
	Mortar	m3	25	0	75					0	1,875	225,000		
	Fuel Truck with crane 8t	day	10	0	61					0	614	73,656		
	" Tampa	day	10	0	2					0	17	1,980		
	Sub Total									0	2,505	300,636		
2	Labor													
	Foreman	man.day	20			0	38.20			0	764	91,680		
	Labor	man.day	200			0	14.30			0	2,860	343,200		
	Truck with crane 8t	man.day	10			0	33			0	330	39,600		
	Tampa	man.day	10			0	14			0	143	17,160		
	Sub Total									0	3,954	491,640		
3	Equipment													
	Truck with crane 8t	day	10					5,520	0	55,200	0	55,200		
	Tampa	day	10					212	0	2,124	0	2,124		
	Sub Total									57,324	0	57,324		
<b>Total</b>										<b>57,324</b>	<b>6,459</b>	<b>849,600</b>		
<b>Unit Price per m</b>										<b>28.66</b>	<b>3.23</b>	<b>424.80</b>		
<b>INDIRECT COST</b>											15%	4.30	0.48	63.72
<b>TOTAL</b>										<b>33</b>	<b>3.71</b>	<b>489</b>		

LA UNION PORT DEVELOPMENT PROJECT  
 2G11  
 Curb type 3

FC: YEN  
 LC: US\$

Total estimate for 1100 m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		FC	LC	
				FC	LC			
2G1101	Production of curb	M	1100	42.15	9.70	46,368.00	10,673.71	1,327,212.93
2G1102	Placing of Curb	M	1100	35.96	3.97	39,553.56	4,370.67	564,033.60
	Total					85,921.56	15,044.37	1,891,246.53
				Unit Price per m		78	13.68	1,719

LA UNION PORT DEVELOPMENT PROJECT

2G1101

Production of Curb

FC: YEN

LC: US\$

Total estimate for 1100 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	86.90	0	70.00					0	6,083	729,960	
	Wasted concrete(1.5%)	m3	1.30	0	70.00					0	91	10,949	
	Formwork	sq.m	1012	0	1.10					0	1,113	133,584	
	Fuel Truck with crane 8t	day	6	0	61					0	368	44,194	
	" Generator 45KVA	day	6	0	24					0	143	17,107	
	Sub Total									0	7,798	935,794	
2	Labor												
	Foreman	man.day	6			0	38.20			0	229	27,504	
	Labor	man.day	60			0	14.30			0	858	102,960	
	Truck with crane 8t	man.day	6			0	33			0	198	23,760	
	Generator 45KVA	man.day	6			0	33			0	198	23,760	
	Sub Total									0	1,483	177,984	
3	Equipment												
	Truck with crane 8t	day	6					5,520	0	33,120	0	33,120	
	Generator 45KVA	day	6					1,080	0	6,480	0	6,480	
	Vibrator	day	6					120	0	720	0	720	
	Sub Total									40,320	0	40,320	
<b>Total</b>										40,320	9,281	1,154,098	
<b>Unit Price per m</b>										36.65	8.44	1,049.18	
<b>INDIRECT COST</b>										15%	5.50	1.27	157.38
<b>TOTAL</b>										42	9.70	1,207	

LA UNION PORT DEVELOPMENT PROJECT  
2G1102

FC: YEN  
LC: US\$

Total estimate for 1100 m

US\$=¥120

Placing of curb

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	165	82.8	1.58					13662	261	13,662	
	Backfill	m3	90	84	7.38					7560	664	7,560	
	Mortar	m3	14	0	75					0	1,050	126,000	
	Fuel Truck with crane 8t	day	6	0	61					0	368	44,194	
	" Tampa	day	6	0	2					0	10	1,188	
	Sub Total									0	1,428	171,382	
2	Labor												
	Foreman	man.day	12			0	38.20			0	458	55,008	
	Labor	man.day	120			0	14.30			0	1,716	205,920	
	Truck with crane 8t	man.day	6			0	33			0	198	23,760	
	Tampa	man.day	6			0	14			0	86	10,296	
	Sub Total									0	2,372	294,984	
3	Equipment												
	Truck with crane 8t	day	6					5,520	0	33,120	0	33,120	
	Tampa	day	6					212	0	1,274	0	1,274	
	Sub Total									34,394	0	34,394	
<b>Total</b>										34,394	3,801	500,760	
<b>Unit Price per m</b>										31.27	3.46	455.24	
<b>INDIRECT COST</b>										15%	4.69	0.52	68.29
<b>TOTAL</b>										36	3.97	524	

LA UNION PORT DEVELOPMENT PROJECT

2G12

Traffic Marking

FC: YEN

LC: US\$

Total estimate for 150 m2

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												
	Paint JIS K 5665B	kg	591.00	0	1.46					0	863	103,543	
	Glass beads	kg	25.00	0	1.77					0	44	5,310	
	Primer	kg	30	0	5.50					0	165	19,800	
	Propane gass	kg	40	0	0.80					0	32	3,840	
	Line marker	day	1.0	0	9					0	9	1,048	
	Truck 4t	day	1.0	0	14					0	14	1,703	
	Sub Total									0	1,113	135,244	
2	Labor												
	Foreman	man.day	1			0	38.20			0	38	4,584	
	Labor	man.day	6.0			0	14.30			0	86	10,296	
	Truck 4t	man.day	1			0	33			0	33	3,960	
	Line marker	man.day	1			0	33			0	33	3,960	
	Sub Total									0	157	22,800	
3	Equipment												
	Truck 4t	day	1					2,160	0	2,160	0	2,160	
	Line marker	day	1					489.60	0	490	0	490	
	Sub Total									2,650	0	2,650	
<b>Total</b>										2,650	1,270	160,694	
<b>Unit Price per m2</b>										17.66	8.47	1,071.29	
<b>INDIRECT COST</b>										15%	2.65	1.27	160.69
<b>TOTAL</b>										20	9.74	1,232	

LA UNION PORT DEVELOPMENT PROJECT  
2G13  
Traffic Sign Board

UNIT  
FC: YEN  
LC: US\$

Total estimate for LS

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2G1201	Guide post	Nos	12	0	33.00	0	396.00	47,520
2G1202	Sign post	M	300	0	13.00	0	3,900.00	468,000
2G1203	Road sign	M2	50	0	230.00	0	11,500.00	1,380,000
	Total					0	15,796.00	1,895,520
Unit Price per LS						0	15,796.00	1,895,520

LA UNION PORT DEVELOPMENT PROJECT

2H01

FC: YEN

LC: US\$

Total estimate for 100m

US\$=¥120

Drainage concrete pipe 457mm

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount				
				FC	LC	FC	LC	
2H0101	Excavation & Disposal	M	100	426.42	7.48	42,642	748.18	132,424
2H0102	Crushed Stone for Foundation	M	100	39.65	1.56	3,965	155.61	22,638
2H0103	Lean Concrete	M	100	52.99	7.65	5,299	765.07	97,108
2H0104	Installation Drainage Pipe	M	100	268.27	33.17	26,827	3,316.68	424,829
2H0105	Backfill Sand & Compaction	M	100	204.96	25.35	20,496	2,534.70	324,660
	Total					99,230	7,520.24	1,001,658
Unit Price per m						992	75.20	10,017



LA UNION PORT DEVELOPMENT PROJECT  
2H0101

FC: YEN  
LC: US\$

Excavation & Disposal for Drainage pipe 457 mm

Total estimate for 100m

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	416	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	1.5	0	95					0	143	17,170	
	" Dump truck 10t	day	3.0	0	105					0	315	37,789	
	Sub Total									0	458	54,959	
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	
	Backhoe 0.8m3	man.day	1.5			0	33			0	50	5,940	
	Dump truck 10t	man.day	3			0	33			0	99	11,880	
	Sub Total									0	193	23,112	
3	Equipment												
	Backhoe 0.8m3	day	1.5					11,280	0	16,920	0	16,920	
	Dump truck 10t	day	3					6,720	0	20,160	0	20,160	
	Sub Total									37,080	0	37,080	
<b>Total</b>										37,080	651	115,151	
<b>Unit Price per m</b>										370.80	6.51	1,151.51	
<b>INDIRECT COST</b>										15%	55.62	0.98	172.73
<b>TOTAL</b>										426	7.48	1,324	

LA UNION PORT DEVELOPMENT PROJECT

2H0102

Crushed stone for Foundation of Drainage Pipe 610mm

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	10.40	0	5.16					0	54	6,440	
	Wasted crushed stone (25%)	m3	2.60	0	5.16					0	13	1,610	
	Fuel Backhoe 0.8m3	day	0.3	0	95					0	29	3,434	
	" Plate compactor 50kg	day	0.3	0	4					0	1	131	
	Sub Total									0	97	11,615	
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	
	Plate compactor 50kg	day	0.3					212.40	0	63.72	0	64	
	Sub Total									3,447.72	0	3,448	
<b>Total</b>										3,447.72	135	19,685	
<b>Unit Price per m</b>										34.48	1.35	196.85	
<b>INDIRECT COST</b>										15%	5.17	0.20	29.53
<b>TOTAL</b>										40	1.56	226	

LA UNION PORT DEVELOPMENT PROJECT  
2H0103

FC: YEN  
LC: US\$

Lean Concreat for Drainage pipe 610mm

Total estimate 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	8.70	0	65.00					0	566	67,860
	Wasted concrete(1.5%)	m3	0.13	0	65.00					0	8	1,018
	Fuel Concrete mixer 0.6m3	day	0.6	0	0					0	0	0
	" Generator 45KVA	day	0.6	0	24					0	14	1,711
	Sub Total									0	588	70,589
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
	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
	Sub Total									0	77	9,245
3	Equipment											
	Concrete mixer 0.6m3	day	0.6					6,480.00	0	3,888	0	3,888
	Generator 45KVA	day	0.6					1,080	0	648	0	648
	Vibrator	day	0.6					120	0	72	0	72
	Sub Total									4,608	0	4,608
<b>Total</b>										<b>4,608</b>	<b>665</b>	<b>84,441</b>
<b>Unit Price per m</b>										<b>46.08</b>	<b>6.65</b>	<b>844.41</b>
<b>INDIRECT COST</b>										<b>6.91</b>	<b>1.00</b>	<b>126.66</b>
<b>TOTAL</b>										<b>53</b>	<b>7.65</b>	<b>971</b>

LA UNION PORT DEVELOPMENT PROJECT

2H0104

Installation of Drainage Pipe 457mm

FC: YEN

LC: US\$

Total estimate for 100m

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												
	Drainage Pipe 457mm x 63mm	m	100	0	23.17					0	2,317	278,040	
	Fuel Truck crane 16t	day	1.8	0	77					0	138	16,537	
	" Truck 8t	day	2	0	80					0	144	17,256	
	Sub Total									0	2,599	311,833	
2	Labor												
	Foreman	man.day	1.8			0	38.20			0	69	8,251	
	Labor	man.day	11			0	14.30			0	157	18,876	
	Truck crane 16t	man.day	1.8			0	33			0	59	7,128	
	Truck 8t	man.day	1.8			0	33			0	59	7,128	
	Sub Total									0	285	34,255	
3	Equipment												
	Truck crane 16t	day	1.8					9,480	0	17,064	0	17,064	
	Truck 8t	day	1.8					3,480	0	6,264	0	6,264	
	Sub Total									23,328	0	23,328	
Total										23,328	2,884	369,416	
Unit Price per m										233.28	28.84	3,694.16	
<b>INDIRECT COST</b>													
										15%	34.99	4.33	554.12
<b>TOTAL</b>										268	33.17	4,248	

## 4 LA UNION PORT DEVELOPMENT PROJECT

2H0105

Backfill sand &amp; Compaction for Drainage pipe 457mm

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	373	0	4.00					0	1,492	179,040	
	Wasted Backfill sand (25%)	m3	93.25	0	4.00					0	373	44,760	
	Fuel Backhoe 0.8m3	day	1.2	0	95					0	114	13,736	
	" Tire roller 8-20t	day	1.2	0	55					0	66	7,939	
	" Plate compactor	day	1.2	0	4					0	4	526	
	Sub Total									0	2,050	246,000	
2	Labor												
	Foreman	man.day	1.2			0	38.20			0	46	5,501	
	Labor	man.day	4.8			0	14.30			0	69	8,237	
	Backhoe 0.8m3	man.day	1.2			0	33			0	40	4,752	
	Tire roller 8-20t	man.day	1.2			0	33			0	40	4,752	
	Sub Total									0	154	18,490	
3	Equipment												
	Backhoe 0.8m3	day	1.2					11,280	0	13,536	0	13,536	
	Tire roller 8-20t	day	1.2					3,360	0	4,032	0	4,032	
	Plate compactor	day	1.2					212.40	0	255	0	255	
	Sub Total									17,823	0	17,823	
Total										17,823	2,204	282,313	
Unit Price per m										178.23	22.04	2,823.13	
INDIRECT COST										15%	26.73	3.31	423.47
TOTAL										205	25.35	3,247	

LA UNION PORT DEVELOPMENT PROJECT

2H02

Drainage concrete pipe 610mm

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	
2H0201	Excavation & Disposal	M	100	568.56	9.98	56,856	997.58	176,565
2H0202	Crushed Stone for Foundation	M	100	46.26	1.92	4,626	192.42	27,716
2H0203	Lean Concrete	M	100	88.32	13.13	8,832	1,313.05	166,398
2H0204	Installation Drainage Pipe	M	100	268.27	40.29	26,827	4,028.53	510,251
2H0205	Backfill Sand & Compaction	M	100	341.61	40.65	34,161	4,065.41	522,010
	Total					131,301	10,597.00	1,402,941
Unit Price per m						1,313	105.97	14,029

## LA UNION PORT DEVELOPMENT PROJECT

2H0201

Excavation &amp; Disposal for Drainage pipe 610 mm

FC: YEN

LC: US\$

Total estimate for 100m

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	665	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	
<b>Total</b>										49,440	867	153,535	
<b>Unit Price per m</b>										494.40	8.67	1,535.35	
<b>INDIRECT COST</b>													
										15%	74.16	1.30	230.30
<b>TOTAL</b>										569	9.98	1,766	

LA UNION PORT DEVELOPMENT PROJECT

2H0202

Crushed stone for Foundation of Drainage Pipe 610mm

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	13.60	0	5.16					0	70	8,421	
	Wasted crushed stone (25%)	m3	3.40	0	5.16					0	18	2,105	
	Fuel Backhoe 0.8m3	day	0.35	0	95					0	33	4,006	
	" Plate compactor 50kg	day	0.35	0	4					0	1	153	
	Sub Total									0	122	14,686	
2	Labor												
	Foreman	man.day	0.35			0	38.20			0	13	1,604	
	Labor	man.day	1.4			0	14.30			0	20	2,402	
	Backhoe 0.8m3	man.day	0.35			0	33			0	12	1,386	
	Sub Total									0	45	5,393	
3	Equipment												
	Backhoe 0.8m3	day	0.35					11,280	0	3,948	0	3,948	
	Plate compactor 50kg	day	0.35					212.40	0	74.34	0	74	
	Sub Total									4,022.34	0	4,022	
<b>Total</b>										<b>4,022.34</b>	<b>167</b>	<b>24,101</b>	
<b>Unit Price per m</b>										<b>40.22</b>	<b>1.67</b>	<b>241.01</b>	
<b>INDIRECT COST</b>													
										15%	6.03	0.25	36.15
<b>TOTAL</b>										<b>46</b>	<b>1.92</b>	<b>277</b>	



## LA UNION PORT DEVELOPMENT PROJECT

2H0203

FC: YEN

LC: US\$

Total estimate 100 m

US\$=¥120

Lean Concreat for Drainage pipe 610mm

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	15.00	0	65.00					0	975	117,000	
	Wasted concrete(1.5%)	m3	0.23	0	65.00					0	15	1,755	
	Fuel Concrete mixer 0.6m3	day	1	0	0					0	0	0	
	" Generator 45KVA	day	1.0	0	24					0	24	2,851	
	Sub Total									0	1,013	121,606	
2	Labor												
	Foreman	man.day	1			0	38.20			0	38	4,584	
	Labor	man.day	4			0	14.30			0	57	6,864	
	Concrete mixer 0.6m3	man.day	1			0	33			0	33	3,960	
	Generator 45KVA	man.day	1			0	33			0	33	3,960	
	Sub Total									0	128	15,408	
3	Equipment												
	Concrete mixer 0.6m3	day	1					6,480.00	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									7,680	0	7,680	
Total										7,680	1,142	144,694	
Unit Price per m										76.80	11.42	1,446.94	
INDIRECT COST										15%	11.52	1.71	217.04
TOTAL										88	13.13	1,664	

LA UNION PORT DEVELOPMENT PROJECT

2H0204

Installation of Drainage Pipe 610mm

FC: YEN

LC: US\$

Total lm: 100

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												
	Drainage Pipe 610mm x 76mm	m	100	0	29.36					0	2,936	352,320	
	Fuel Truck crane 16t	day	1.8	0	77					0	138	16,537	
	" Truck 8t	day	2	0	80					0	144	17,256	
	Sub Total									0	3,218	386,113	
2	Labor												
	Foreman	man.day	1.8			0	38.20			0	69	8,251	
	Labor	man.day	11			0	14.30			0	157	18,876	
	Truck crane 16t	man.day	1.8			0	33			0	59	7,128	
	Truck 8t	man.day	1.8			0	33			0	59	7,128	
	Sub Total									0	285	34,255	
3	Equipment												
	Truck crane 16t	day	1.8					9,480	0	17,064	0	17,064	
	Truck 8t	day	1.8					3,480	0	6,264	0	6,264	
	Sub Total									23,328	0	23,328	
<b>Total</b>										23,328	3,503	443,696	
<b>Unit Price per m</b>										233.28	35.03	4,436.96	
<b>INDIRECT COST</b>										15%	34.99	5.25	665.54
<b>TOTAL</b>										268	40.29	5,103	

## 4 LA UNION PORT DEVELOPMENT PROJECT

2H0205

FC: YEN

LC: US\$

Backfill sand &amp; Compaction for Drainage pipe 610mm

Total estimate per 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	594	0	4.00					0	2,376	285,120	
	Wasted Backfill sand (25%)	m3	148.5	0	4.00					0	594	71,280	
	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	
	" Plate compactor	day	2.0	0	4					0	7	876	
	Sub Total									0	3,278	393,401	
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	257	30,816	
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	
	Plate compactor	day	2					212.40	0	425	0	425	
	Sub Total									29,705	0	29,705	
Total										29,705	3,535	453,922	
Unit Price per m										297.05	35.35	4,539.22	
INDIRECT COST										15%	44.56	5.30	680.88
TOTAL										342	40.65	5,220	

LA UNION PORT DEVELOPMENT PROJECT

2H03

Drainage concrete pipe 762mm

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	
2H0301	Excavation & Disposal	M	100	852.84	14.96	85,284	1,496.37	264,848
2H0302	Crushed Stone for Foundation	M	100	46.26	2.18	4,626	217.64	30,743
2H0303	Lean Concrete	M	100	88.32	18.82	8,832	1,882.09	234,682
2H0304	Installation Drainage Pipe	M	100	298.08	40.97	29,808	4,097.34	521,488
2H0305	Backfill Sand & Compaction	M	100	341.61	53.76	34,161	5,376.41	679,330
	Total					162,710	13,069.84	1,731,091
Unit Price per m						1,627	130.70	17,311

LA UNION PORT DEVELOPMENT PROJECT  
2H0301

FC: YEN

LC: US\$

Excavation &amp; Disposal for Drainage pipe 762 mm

Total estimate for 100m

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	931	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	385	46,224	
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	
<b>Total</b>										74,160	1,301	230,303	
<b>Unit Price per m</b>										741.60	13.01	2,303.03	
<b>INDIRECT COST</b>										15%	111.24	1.95	345.45
<b>TOTAL</b>										853	14.96	2,648	

LA UNION PORT DEVELOPMENT PROJECT

2H0302

Crushed stone for Foundation of Drainage Pipe 762mm

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	17.00	0	5.16					0	88	10,526	
	Wasted crushed stone (25%)	m3	4.25	0	5.16					0	22	2,632	
	Fuel Backhoe 0.8m3	day	0.35	0	95					0	33	4,006	
	" Plate compactor 50kg	day	0.35	0	4					0	1	153	
	Sub Total									0	144	17,318	
2	Labor												
	Foreman	man.day	0.35			0	38.20			0	13	1,604	
	Labor	man.day	1.4			0	14.30			0	20	2,402	
	Backhoe 0.8m3	man.day	0.35			0	33			0	12	1,386	
	Sub Total									0	45	5,393	
3	Equipment												
	Beckhoe 0.8m3	day	0.35					11,280	0	3,948	0	3,948	
	Plate compactor 50kg	day	0.35					212.40	0	74.34	0	74	
	Sub Total									4,022.34	0	4,022	
Total										4,022.34	189	26,733	
Unit Price per m										40.22	1.89	267.33	
<b>INDIRECT COST</b>										15%	6.03	0.28	40.10
<b>TOTAL</b>										46	2.18	307	

LA UNION PORT DEVELOPMENT PROJECT  
2H0303

FC: YEN

LC: US\$

Total estimate 100 m

US\$=¥120

Lean Concreat for Drainage pipe 762mm

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	22.50	0	65.00					0	1,463	175,500	
	Wasted concrete(1.5%)	m3	0.34	0	65.00					0	22	2,633	
	Fuel Concrete mixer 0.6m3	day	1	0	0					0	0	0	
	Generator 45KVA	day	1.0	0	24					0	24	2,851	
	Sub Total									0	1,508	180,984	
2	Labor												
	Foreman	man.day	1			0	38.20			0	38	4,584	
	Labor	man.day	4			0	14.30			0	57	6,864	
	Concrete mixer 0.6m3	man.day	1			0	33			0	33	3,960	
	Generator 45KVA	man.day	1			0	33			0	33	3,960	
	Sub Total									0	128	15,408	
3	Equipment												
	Concrete mixer 0.6m3	day	1					6,480.00	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									7,680	0	7,680	
<b>Total</b>										<b>7,680</b>	<b>1,637</b>	<b>204,072</b>	
<b>Unit Price per m</b>										<b>76.80</b>	<b>16.37</b>	<b>2,040.72</b>	
<b>INDIRECT COST</b>										<b>15%</b>	<b>11.52</b>	<b>2.45</b>	<b>306.11</b>
<b>TOTAL</b>										<b>88</b>	<b>18.82</b>	<b>2,347</b>	

LA UNION PORT DEVELOPMENT PROJECT

2H0304

Installation of Drainage Pipe 762mm

FC: YEN

LC: US\$

Total lm: 100

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													
	Drainage Pipe 914mm x 102mm	m	100	0	29.36					0	2,936	352,320		
	Fuel Truck crane 16t	day	2	0	77					0	153	18,374		
	" Truck 8t	day	2	0	80					0	160	19,174		
	Sub Total									0	3,249	389,868		
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		
	Truck 8t	man.day	2			0	33			0	66	7,920		
	Sub Total									0	314	37,680		
3	Equipment													
	Truck crane 16t	day	2					9,480	0	18,960	0	18,960		
	Truck 8t	day	2					3,480	0	6,960	0	6,960		
	Sub Total									25,920	0	25,920		
Total										25,920	3,563	453,468		
Unit Price per m										259.20	35.63	4,534.68		
<b>INDIRECT COST</b>											15%	38.88	5.34	680.20
<b>TOTAL</b>										298	40.97	5,215		



## 4 LA UNION PORT DEVELOPMENT PROJECT

2H0305

FC: YEN

LC: US\$

Backfill sand &amp; Compaction for Drainage pipe 762mm

Total estimate per 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	822	0	4.00					0	3,288	394,560	
	Wasted Backfill sand (25%)	m3	205.5	0	4.00					0	822	98,640	
	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	
	" Plate compactor	day	2.0	0	4					0	7	876	
	Sub Total									0	4,418	530,201	
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	257	30,816	
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	
	Plate compactor	day	2					212.40	0	425	0	425	
	Sub Total									29,705	0	29,705	
Total										29,705	4,675	590,722	
Unit Price per m										297.05	46.75	5,907.22	
INDIRECT COST										15%	44.56	7.01	886.08
TOTAL										342	53.76	6,793	

LA UNION PORT DEVELOPMENT PROJECT

2H04

Drainage concrete pipe

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	
2H0401	Excavation & Disposal	M	100	653.84	11.47	65,384	1,147.22	203,050
2H0402	Crushed Stone for Foundation	M	100	52.87	2.54	5,287	253.71	35,732
2H0403	Lean Concrete	M	100	105.98	24.94	10,598	2,493.71	309,843
2H0404	Installation Drainage Pipe	M	100	298.08	95.18	29,808	9,518.44	1,172,020
2H0405	Backfill Sand & Compaction	M	100	427.01	48.78	42,701	4,877.64	628,017
	Total					153,778	18,290.71	2,348,663
<b>Unit Price per m</b>						1,538	182.91	23,487

## LA UNION PORT DEVELOPMENT PROJECT

2H0401

Excavation &amp; Disposal for Drainage pipe 914 mm

FC: YEN

LC: US\$

Total estimate for 100m

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	737	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	2.3	0	95					0	219	26,328	
	" Dump truck 10t	day	4.6	0	105					0	483	57,943	
	Sub Total									0	702	84,271	
2	Labor												
	Foreman	man.day	2.3			0	38.20			0	88	10,543	
	Labor	man.day	9.2			0	14.30			0	132	15,787	
	Backhoe 0.8m3	man.day	2.3			0	33			0	76	9,108	
	Dump truck 10t	man.day	4.6			0	33			0	152	18,216	
	Sub Total									0	295	35,438	
3	Equipment												
	Backhoe 0.8m3	day	2.3					11,280	0	25,944	0	25,944	
	Dump truck 10t	day	4.6					6,720	0	30,912	0	30,912	
	Sub Total									56,856	0	56,856	
Total										56,856	998	176,565	
Unit Price per m										568.56	9.98	1,765.65	
INDIRECT COST										15%	85.28	1.50	264.85
TOTAL										654	11.47	2,031	

LA UNION PORT DEVELOPMENT PROJECT

2H0402

Crushed stone for Foundation of Drainage Pipe 914mm

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	20.10	0	5.16					0	104	12,446	
	Wasted crushed stone (25%)	m3	5.03	0	5.16					0	26	3,111	
	Fuel Backhoe 0.8m3	day	0.4	0	95					0	38	4,579	
	" Plate compactor 50kg	day	0.4	0	4					0	1	175	
	Sub Total									0	169	20,311	
2	Labor												
	Foreman	man.day	0.4			0	38.20			0	15	1,834	
	Labor	man.day	1.6			0	14.30			0	23	2,746	
	Backhoe 0.8m3	man.day	0.4			0	33			0	13	1,584	
	Sub Total									0	51	6,163	
3	Equipment												
	Backhoe 0.8m3	day	0.4					11,280	0	4,512	0	4,512	
	Plate compactor 50kg	day	0.4					212.40	0	84.96	0	85	
	Sub Total									4,597	0	4,597	
Total										4,597	221	31,071	
Unit Price per m										45.97	2.21	310.71	
<b>INDIRECT COST</b>													
										15%	6.90	0.33	46.61
<b>TOTAL</b>										53	2.54	357	

LA UNION PORT DEVELOPMENT PROJECT  
2H0403

FC: YEN

LC: US\$

Total estimate 100 m

US\$=¥120

Lean Concreat for Drainage pipe 914mm

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	30.10	0	65.00					0	1,957	234,780	
	Wasted concrete(1.5%)	m3	0.45	0	65.00					0	29	3,522	
	Fuel Concrete mixer 0.6m3	day	1.2	0	0					0	0	0	
	" Generator 45KVA	day	1.2	0	24					0	29	3,421	
	Sub Total									0	2,014	241,723	
2	Labor												
	Foreman	man.day	1.2			0	38.20			0	46	5,501	
	Labor	man.day	4.8			0	14.30			0	69	8,237	
	Concrete mixer 0.6m3	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	154	18,490	
3	Equipment												
	Concrete mixer 0.6m3	day	1.2					6,480.00	0	7,776	0	7,776	
	Generator 45KVA	day	1.2					1,080	0	1,296	0	1,296	
	Vibrator	day	1.2					120	0	144	0	144	
	Sub Total									9,216	0	9,216	
Total										9,216	2,168	269,429	
Unit Price per m										92.16	21.68	2,694.29	
INDIRECT COST										15%	13.82	3.25	404.14
TOTAL										106	24.94	3,098	

LA UNION PORT DEVELOPMENT PROJECT

2H0404

Installation of Drainage Pipe 914mm

FC: YEN

LC: US\$

Total lm: 100

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												
	Drainage Pipe 914mm x 102mm		100	0	76.50					0	7,650	918,000	
	Fuel Truck crane 16t	day	2	0	77					0	153	18,374	
	" Truck 8t	day	2	0	80					0	160	19,174	
	Sub Total									0	7,963	955,548	
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	
	Truck 8t	man.day	2			0	33			0	66	7,920	
	Sub Total									0	314	37,680	
3	Equipment												
	Truck crane 16t	day	2					9,480	0	18,960	0	18,960	
	Truck 8t	day	2					3,480	0	6,960	0	6,960	
	Sub Total									25,920	0	25,920	
<b>Total</b>										25,920	8,277	1,019,148	
<b>Unit Price per m</b>										259.20	82.77	10,191.48	
<b>INDIRECT COST</b>										15%	38.88	12.42	1,528.72
<b>TOTAL</b>										298	95.18	11,720	

## 4 LA UNION PORT DEVELOPMENT PROJECT

2H0405

Backfill sand &amp; Compaction for Drainage pipe 914mm

FC: YEN

LC: US\$

Total estimate per 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	707	0	4.00					0	2,828	339,360	
	Wasted Backfill sand (25%)	m3	176.75	0	4.00					0	707	84,840	
	Fuel Backhoe 0.8m3	day	2.5	0	95					0	238	28,617	
	" Tire roller 8-20t	day	2.5	0	55					0	138	16,539	
	" Plate compactor	day	2.5	0	4					0	9	1,095	
	Sub Total									0	3,920	470,451	
2	Labor												
	Foreman	man.day	2.5			0	38.20			0	96	11,460	
	Labor	man.day	10			0	14.30			0	143	17,160	
	Backhoe 0.8m3	man.day	2.5			0	33			0	83	9,900	
	Tire roller 8-20t	man.day	2.5			0	33			0	83	9,900	
	Sub Total									0	321	38,520	
3	Equipment												
	Backhoe 0.8m3	day	2.5					11,280	0	28,200	0	28,200	
	Tire roller 8-20t	day	2.5					3,360	0	8,400	0	8,400	
	Plate compactor	day	2.5					212.40	0	531	0	531	
	Sub Total									37,131	0	37,131	
<b>Total</b>										37,131	4,241	546,102	
<b>Unit Price per m</b>										371.31	42.41	5,461.02	
<b>INDIRECT COST</b>										15%	55.70	636	819.15
<b>TOTAL</b>										427	48.78	6,280	

LA UNION PORT DEVELOPMENT PROJECT

2H05

Drainage concrete pipe

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	
2H0501	Excavation & Disposal	M	100	852.84	14.96	85,284	1,496.37	264,848
2H0502	Crushed Stone for Foundation	M	100	66.08	3.48	6,608	348.11	48,381
2H0503	Lean Concrete	M	100	176.64	41.44	17,664	4,143.53	514,888
2H0504	Installation Drainage Pipe	M	100	298.08	164.47	29,808	16,447.19	2,003,470
2H0505	Backfill Sand & Compaction	M	100	683.21	55.32	68,321	5,531.82	732,140
	Total					207,685	27,967.02	3,563,727
				Unit Price per m		2,077	279.67	35,637



LA UNION PORT DEVELOPMENT PROJECT  
2H0501

FC: YEN

LC: US\$

Excavation &amp; Disposal for Drainage pipe 1219 mm

Total estimate for 100m

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	986	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	3	0	95					0	286	34,340	
	" Dump truck 10t	day	6	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	385	46,224	
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	
<b>Total</b>										74,160	1,301	230,303	
<b>Unit Price per m</b>										741.60	13.01	2,303.03	
<b>INDIRECT COST</b>										15%	111.24	1.95	345.45
<b>TOTAL</b>										853	14.96	2,648	

LA UNION PORT DEVELOPMENT PROJECT

2H0502

Crushed stone for Foundation of Drainage Pipe 1219mm

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	29.30	0	5.16					0	151	18,143	
	Wasted crushed stone (25%)	m3	7.33	0	5.16					0	38	4,536	
	Fuel Backhoe 0.8m3	day	0.5	0	95					0	48	5,723	
	" Plate compactor 50kg	day	0.5	0	4					0	2	219	
	Sub Total									0	239	28,621	
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	0.5			0	33			0	17	1,980	
	Sub Total									0	64	7,704	
3	Equipment												
	Backhoe 0.8m3	day	0.5					11,280	0	5,640	0	5,640	
	Plate compactor 50kg	day	0.5					212.40	0	106.20	0	106	
	Sub Total									5,746.20	0	5,746	
<b>Total</b>										<b>5,746.20</b>	<b>303</b>	<b>42,071</b>	
<b>Unit Price per m</b>										<b>57.46</b>	<b>3.03</b>	<b>420.71</b>	
<b>INDIRECT COST</b>										<b>15%</b>	<b>8.62</b>	<b>0.45</b>	<b>63.11</b>
<b>TOTAL</b>										<b>66</b>	<b>3.48</b>	<b>484</b>	

LA UNION PORT DEVELOPMENT PROJECT  
2H0503

FC: YEN  
LC: US\$

Lean Concreat for Drainage pipe 1219mm

Total estimate 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	50.00	0	65.00					0	3,250	390,000	
	Wasted concrete(1.5%)	m3	0.75	0	65.00					0	49	5,850	
	Fuel Concrete mixer 0.6m3	day	2	0	0					0	0	0	
	" Generator 45KVA	day	2	0	24					0	48	5,702	
	Sub Total									0	3,346	401,552	
2	Labor												
	Foreman	man.day	2			0	38.20			0	76	9,168	
	Labor	man.day	8			0	14.30			0	114	13,728	
	Concrete mixer 0.6m3	man.day	2			0	33			0	66	7,920	
	Generator 45KVA	man.day	2			0	33			0	66	7,920	
	Sub Total									0	257	30,816	
3	Equipment												
	Concrete mixer 0.6m3	day	2					6,480.00	0	12,960	0	12,960	
	Generator 45KVA	day	2					1,080	0	2,160	0	2,160	
	Vibrator	day	2					120	0	240	0	240	
	Sub Total									15,360	0	15,360	
<b>Total</b>										15,360	3,603	447,728	
<b>Unit Price per m</b>										153.60	36.03	4,477.28	
<b>INDIRECT COST</b>													
										15%	23.04	5.40	671.59
<b>TOTAL</b>										177	41.44	5,149	

LA UNION PORT DEVELOPMENT PROJECT

2H0504

Installation of Drainage Pipe 1219mm

FC: YEN

LC: US\$

Total Im: 100

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												
	Drainage Pipe 1219mm x 127mm		100	0	136.75					0	13,675	1,641,000	
	Fuel Truck crane 16t	day	2	0	77					0	153	18,374	
	" Truck 8t	day	2	0	80					0	160	19,174	
	Sub Total									0	13,988	1,678,548	
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	
	Truck 8t	man.day	2			0	33			0	66	7,920	
	Sub Total									0	314	37,680	
3	Equipment												
	Truck crane 16t	day	2					9,480	0	18,960	0	18,960	
	Truck 8t	day	2					3,480	0	6,960	0	6,960	
	Sub Total									25,920	0	25,920	
<b>Total</b>										25,920	14,302	1,742,148	
<b>Unit Price per m</b>										259.20	143.02	17,421.48	
<b>INDIRECT COST</b>										15%	38.88	21.45	2,613.22
<b>TOTAL</b>										298	164.47	20,035	

## 4 LA UNION PORT DEVELOPMENT PROJECT

2H0505

FC: YEN

Backfill sand &amp; Compaction for Drainage pipe 1219mm

LC: US\$

Total estimate per 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	736	0	4.00					0	2,944	353,280	
	Wasted Backfill sand (25%)	m3	184	0	4.00					0	736	88,320	
	Fuel Backhoe 0.8m3	day	4	0	95					0	382	45,787	
	" Tire roller 8-20t	day	4	0	55					0	221	26,462	
	" Plate compactor	day	4	0	4					0	15	1,752	
	Sub Total									0	4,297	515,602	
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	
	Tire roller 8-20t	man.day	4			0	33			0	132	15,840	
	Sub Total									0	514	61,632	
3	Equipment												
	Backhoe 0.8m3	day	4					11,280	0	45,120	0	45,120	
	Tire roller 8-20t	day	4					3,360	0	13,440	0	13,440	
	Plate compactor	day	4					212.40	0	850	0	850	
	Sub Total									59,410	0	59,410	
Total										59,410	4,810	636,643	
Unit Price per m										594.10	48.10	6,366.43	
INDIRECT COST										15%	89.11	7.22	954.96
TOTAL										683	55.32	7,321	

LA UNION PORT DEVELOPMENT PROJECT  
 2H0601 and 2H0602  
 DIVERSION CANAL TYPE A

FC: YEN

LC: US\$

Total estimate for 770m

US\$=¥120

No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total in YEN
				Amount		Amount		
				FC	LC	FC	LC	
2H0601	Excavation & Disposal	M	770	1,477	25.91	1,137,120	19,951.58	3,531,310
2H0602	Placing of stone	M	770	90	83.01	69,552	63,921.12	7,740,086
			<b>Total</b>			<b>1,206,672</b>	<b>83,872.70</b>	<b>11,271,396</b>
				<b>Unit Price per m</b>		<b>1,567</b>	<b>108.93</b>	<b>14,638</b>

LA UNION PORT DEVELOPMENT PROJECT  
2H0601

FC: YEN

LC: US\$

Total estimate for 770m

US\$=¥120

## Excavation &amp; 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	10355	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	40	0	95					0	3,816	457,872	
	" Dump truck 10t	day	80	0	105					0	8,398	1,007,712	
	Sub Total									0	12,213	1,465,584	
2	Labor												
	Foreman	man.day	40			0	38.20			0	1,528	183,360	
	Labor	man.day	160			0	14.30			0	2,288	274,560	
	Backhoe 0.8m3	man.day	40			0	33			0	1,320	158,400	
	Dump truck 10t	man.day	80			0	33			0	2,640	316,800	
	Sub Total									0	5,136	616,320	
3	Equipment												
	Backhoe 0.8m3	day	40					11,280	0	451,200	0	451,200	
	Dump truck 10t	day	80					6,720	0	537,600	0	537,600	
	Sub Total									988,800	0	988,800	
Total										988,800	17,349	3,070,704	
Unit Price per m										1,284.16	22.53	3,987.93	
INDIRECT COST										15%	192.62	3.38	598.19
TOTAL										1,477	25.91	4,586	

LA UNION PORT DEVELOPMENT PROJECT

2H0602

Placing stone

FC: YEN

LC: US\$

Total estimate 770 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												
	Rubble Stone	m3	1779.00	0	5.16					0	9,180	1,101,557	
	Clay	m3	890.00	0	5.16					0	4,592	551,088	
	Rubble stone (25%)	m3	44.48	0	5.16					0	229	27,539	
	Sodding	m2	5000.00	0	0.80					0	4,000	480,000	
	Masonry cement	m3	462.00	0	65.00					0	30,030	3,603,600	
	Wasted concrete(1.5%)	m3	6.93	0	65.00					0	450	54,054	
	Fuel Concrete mixer 0.6m3	day	8	0	0					0	0	0	
	" Generator 45KVA	day	8	0	24					0	190	22,810	
	" Truck 8t	day	8	0	80					0	639	76,694	
	" Plate compactor	day	8	0	4					0	29	3,504	
	Sub Total									0	49,340	5,920,846	
2	Labor												
	Foreman	man.day	16			0	38.20			0	611	73,344	
	Labor	man.day	320			0	14.30			0	4,576	549,120	
	Concrete mixer 0.6m3	man.day	8			0	33			0	264	31,680	
	Generator 45KVA	man.day	8			0	33			0	264	31,680	
	Truck 8t	man.day	8			0	33			0	264	31,680	
	Plate compactor	man.day	8			0	33			0	264	31,680	
	Sub Total									0	6,243	749,184	
3	Equipment												
	Concrete mixer 0.6m3	day	8					6,480	0	51,840	0	51,840	
	Generator 45KVA	day	8					1,080	0	8,640	0	8,640	
	Truck 8t	day	8					3,480	0	27,840	0	27,840	
	Plate compactor	day	8					212	0	1,699	0	1,699	
	Sub Total									60,480	0	60,480	
<b>Total</b>										<b>60,480</b>	<b>55,584</b>	<b>6,730,510</b>	
<b>Unit Price per m</b>										<b>78.55</b>	<b>72.19</b>	<b>8,740.92</b>	
<b>INDIRECT COST</b>										15%	11.78	10.83	1,311.14
<b>TOTAL</b>										<b>90</b>	<b>83.01</b>	<b>10,052</b>	



LA UNION PORT DEVELOPMENT PROJECT  
2H0603  
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	
2H0603	Excavation & Disposal	LS	1	28,428	498.79	28,428	498.79	88,283
2H0603	Placing of stone	LS	1	8,694	6,459.38	8,694	6,459.38	783,820
	Total					37,122	6,958.17	872,103
				Unit Price per LS		37,122	6,958.17	872,103

LA UNION PORT DEVELOPMENT PROJECT

2H060301

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	208	0	0.00					0	0	0	
	Fuel Backhoe 0.8m3	day	1	0	95					0	95	11,447	
	" Dump truck 10t	day	2	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	128	15,408	
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	
<b>Total</b>										<b>24,720</b>	<b>434</b>	<b>76,768</b>	
<b>Unit Price per m</b>										<b>24,720.00</b>	<b>433.73</b>	<b>76,767.60</b>	
<b>INDIRECT COST</b>										<b>15%</b>	<b>3,708.00</b>	<b>65.06</b>	<b>11,515.14</b>
<b>TOTAL</b>										<b>28,428</b>	<b>498.79</b>	<b>88,283</b>	