UNIT FC: YEN

LC: US\$ Total estimate for 5000 m2 US\$=¥120 Subbase course Work Item Basic Price Unit Cost Total Nο Unit Quantity in Material Labor Equipment Amount FC LC FC LC LC FC LC YEN FC 1 Material Crusher run 750 8.40 6,300 756000 m3 75,600 Wasted " 630 (10%) m3 75 8.40 24174 Fuel Steel roller 10-12t day 40 201 200 23,958 Tire roller 10t day 40 Bulldozer 21t 120 599 71,904 day Vibration roller 10t 55 110 13,147 day Motor grader 2,8m 55 110 13,152 day 977,935 8,149 Sub Total 2 Labor 38.2 191 22,920 Foreman manday Labor manday 20 14.3 286 34,320 33 165 19,800 Steel roller 10-12t day 33 19,800 Tire roller 10t 165 day Bulldozer 21t 33 165 19,800 day 33 7,920 Vibration roller 10t day 66 Motor grader 2.8m 33 7,920 day 66 1,104 132,480 Sub Total 3 Equipment Steel roller 10-12t 3.120 15,600 15,600 dayunit Tire roller 10t 3.360 16,800 16,800 day,unit Bulldozer 21t dayunit 12,360 61,800 61,800 Vibration roller 10t 6,360 12,720 12,720 dayunit Motor grader 2.8m dayunit 3,720 7,440 7,440 114,360 114,360 Sub Total Total 114,360 1,224,775 9,253 Unit Price per m2 22.87 1.85 244,96 INDIRECT COST 15% 3.43 0.28 36.74 **TOTAL** 2.13

UNIT FC: YEN

Total estimate for 5000 m2 US\$=¥120 LC: US\$ Base course **Unit Cost** Total Unit Quantity Basic Price No Work Item Material Labor Equipment Amount in FC LC YEN FC FC FC LC LC LC 1 Material 1969200 750 62.4 21.88 16.410 Cement Treatment Macadan m3 1.641 196,920 75 62.4 21.88 Wasted " (10%) 14504 121 40 Fuel Steel roller 10-12t day 14,375 120 40 Tire roller 10t iday 43,142 360 120 Buildozer 21t dav 13,147 110 55 Vibration roller 10t day 110 13,152 55 Motor grader 2.8m lday 18,870 2,264,441 Sub Total 2 Labor 0 38.2 115 13,752 Foreman manday 172 20,592 14.3 Labor manday 12 33 99 11,880 Steel roller 10-12t day 99 11,880 33 Tire roller 10t day 33 99 11,880 Bulldozer 21t day 7,920 33 66 day Vibration roller 10t 7,920 66 day Motor grader 2.8m 715 85,824 Sub Total 3 Equipment 9,360 3,120 9,360 Steel roller 10-12t dayunit 10,080 3,360 10.080 Tire roller 10t day.unit 37,080 12,360 37,080 Bulldozer 21t dayunit 12.720 6,360 12,720 Vibration roller 10t dayunit 3,720 7,440 7,440 Motor grader 2.8m deyunit 76,680 76,680 Sub Total Total 19.586 2,426,945 76,680 485.39 Unit Price per m2 15.34 3.92 0.59 15% 2,30 72.81 INDIRECT COST 558 4.50 TOTAL

UNIT

FC: YEN

	Prime coating						LC: US\$			Total estimat	e for 5000 m2	US\$=¥120
No	Work Item	Unit	Quantity			Bas	sic Price			Un	it Cost	Total
				Mat	erial	L	abor	Equip	ment	A	mount	in
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
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									} o	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	1		0	33			0	99	11,880
	Asphalt Sprayer	day	3	Ì		0	33			0	99	11,880
	Sub Total	1				,				0	484	58,104
] ;		·				, ,]	
3	Equipment						,					
	Distributor	dayunit	3	-				3,240	G	9,720	0	9,720
	Asphalt Sprayer	day.unit	3					120	0	360	0	360
	Miscellaneous(2%)	L.S.	1					202	. 0	202	J. 0	202
	Sub Total			İ	·					10,080	o	10,282
			<u> </u>					Total		10,080	2,024	253,188
								Unit Price po	er m2	2.02		50.64
	INDIRECT COST							Oraci noo pi	15%			7.60
	TOTAL		·				······			2		58

UNIT FC: YEN LC: US\$

Concrete slab						LC: US\$			Total estimate	for 5000 m2	US\$≒¥°
o Work Item	Unit	Quantity			Basi	c Price				Cost	Total
770777.20077	5		Mate	erial		ibor	Equipa	nent		ount	in
	ŀ		FC	LC	FC	LC	FC	LC	FC	LC	YEN
1 Material											
Concrete	m3	1,750	0	70.00	i		Ī		0	122,500	14700
Wasted " (10%)	m3	175	0	70.00	1			-	o	12,250	1470
Elas tigh board and filt	er m2	240	0	8.33	[ŀ		0	1,999	239
Reinforcement and join	nt bar ton	43.0	0	430.00	1			1	. 0	18,490	2218
Wasted " (10%)	ton	4.3	0	430.00	ł				이	1,849	221
Fuel Concrete Spread	er day	5	0	28	·				. 0	139	16
" Concrete Finisher	day	5	0	17					0	86	10
" Concrete Planer	day	5	0	17	.				c	84	10
" Concrete Cutter	day	1	0	4			·		0	4	
" Water Tank Lorry	day	2	0	4	1				0]	9	1
Sub Total					j			}	of	157,397	18,889
2 Labor		!						ļ	1	1	
Foreman	manday	10			0	38.2			. 0	382	45
Labor	manday	40	j		ol	14.3		ł	0	572	68
Concrete Spreader	day	5			0	33			0	165	19
Concrete Finisher	day	5		-	0	33			0	165	19
Concrete Planer	day	5	1		0	33			. 0	165	19
Concrete Cutter	day	1			0	14.30		}	o	14	1
Water Tank Lorry	day	2			ol	22.06			0	44	5
Sub Total	ĺ] -	. 1						0	1,449	180
3 Equipment	İ				1				į.		
Concrete Spreader	dayunit	. 5					10,560	0	52,800	. 0	52
Concrete Finisher	day.unit	1	Ì		1		9,000	0	45,000	0	45
Concrete Planer	dayunit	1 1			j		12,960	0	64,800	0	64
Concrete Cutter	dayunit	1					12,960	0	12,960	0	12
Water Tank Lorry	dayunit	1 1				.]	2,760	0	5,520	o	5
Sub Total									162,600	0	181
		,					Total		162,600	158,846	19,251
							Unit Price pe	erm2	32.52	31.77	385
INDIRECT COST		,						15%	4.88	4.77	57
TOTAL									37	36.53	4.

UNIT FC: YEN

2G02 FC: Concrete pavemen type 2 LC:

	Concrete pavemen type 2				CC: 029	Total estimate for	5000 mZ	022=#120
No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total
]	1]		_	Amount		in
				FC	LC	FC	LC	YEN
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	_	1			516,299	201,868	24,740,439
				Unit Price per m2		103	40.37	4,948

UNIT FC: YEN

US\$=¥120

2G0201 FC: YEN
Subgrade preparation LC: US\$ Total estimate for 5000 m2

No	Work Item	Unit	Quantity			Ba	sic Price			Unit	Cost	Total
			ſ	Ma	iterial	L	abor	Equip	ment	Amo		in
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material											
	Mechanical stabilized course	m3	500	. 0	6.00	1				0	3,000	360000
	Wasted " (10%)	m3	50	0	6.00	ĺ				0	300	36,000
	Fuel Steel roller 10-12t	day	5	. 0	40				·	0	201	24174
	" Tire roller 10t	day	5	0	40	ļ				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						İ	٠,				
	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	Í	·	0	33		Ĉ	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			ĺ		3,360	0	16,800	0	16,800
	Buildozer 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			ļ		3,720	0	7,440	0	7,440
	Sub Total	<u>[</u>								108,000	0	108,000
								Total		108,000	5,536	772,282
								Unit Price po		21.60	1.11	154,46
	INDIRECT COST								15%		0.17	23,17
	TOTAL									25	1.27	178

UNIT FC: YEN

US\$=¥120 LC: US\$ Total estimate for 5000 m2 Subbase course No Work Item Unit |Quantity| Basic Price Unit Cost Total Material Labor Equipment Amount in . FC LC FC LC LC FC LC FC YEN 1 Material 756000 Crusher run m3 750 8.40 6,300 75,600 Wasted " 75 8.40 (10%) m3 630 24174 Fuel Steel roller 10-12t day 40 201 Tire roller 10t day 40 200 23,958 Bulldozer 21t day 120 599 71,904 Vibration roller 10t 55 110 13,147 day 55 13,152 Motor grader 2.8m 110 977,935 Sub Total 8.149 2 Labor 38.2 191 22,920 Foreman manday 20 34,320 Labor manday 14.3 286 Steel roller 10-12t day 33 165 19,800 33 165 19,800 Tire roller 10t day 33 19,800 day 165 Bulldozer 21t 33 7,920 Vibration roller 10t day 66 33 7,920 Motor grader 2.8m day 66 132,480 Sub Total 1.104 3 Equipment 15,600 Steel roller 10-12t dayunit 3,120 15,600 Tire roller 10t day.unit 3,360 16,800 16,800 Bulldozer 21t dayunit 12,360 61,800 61,800 2 6,360 12,720 Vibration roller 10t dayunit 12,720 3,720 7,440 7,440 Motor grader 2.8m dayunit Sub Total 114,360 114,360 Total 114,360 1,224,775 9,253 Unit Price per m2 22.87 1.85 244.96 INDIRECT COST 36.74 15% 3.43 0.28 TOTAL 2.13 282

UNIT FC: YEN

Total estimate for 5000 m2 LC: US\$ US\$=¥120 Base course Unit Cost Total Work Item Unit Quantity Basic Price No Amount Labor Equipment in Material FC LC YEN FC LC FC LC FC LC 1 Material 750 21.88 16,410 1969200 Cement Treatment Mecadamm3 62.4 1.641 196,920 75 62.4 21.88 Wasted " (10%)121 14504 40 Fuel Steel roller 10-12t (day 120 14,375 40 Tire roller 10t day 360 43,142 120 Bulldozer 21t day 110 13,147 55 Vibration roller 10t day 110 13,152 55 Motor grader 2.8m 18,870 2,264,441 Sub Total 2 Labor 38.2 115 13,752 manday Foreman 172 20,592 14.3 12] Labor manday 33 99 11,880 Steel roller 10-12t day 33 99 11,880 Tire roller 10t day 33 99 11,880 day Bulldozer 21t 66 7,920 33 Vibration roller 10t day 33 66 7.920 Motor grader 2.8m day 85,824 715 Sub Total 3 Equipment 9.360 9,360 3,120 Steel roller 10-12t dayunit 10.080 3.360 10.080 Tire roller 10t day.unit 37,080 12,360 37,080 Buildozer 21t dayunit 6.360 12,720 12,720 Vibration roller 10t dayunit 7,440 3,720 7,440 2 Motor grader 2.8m dayunit 76,680 76.680 Sub Total 2,426,945 19,586 Total 76,680 3.92 485.39 Unit Price per m2 15,34 72.81 0.59 INDIRECT COST 15% 2.30 18 4.50 558 TOTAL

UNIT

FC: YEN

LC: US\$ Total estimate for 5000 m2 Prime coating US\$=¥120 Work Item Basic Price Unit Cost Total No Quantity Unit Labor Amount in Material Equipment LÇ FC YEN FC LC FC LC FC LC 1 Material 153000 Tar for Prime Coat 5.1 250 1,275 ton 7,650 L.S. 64 64 Miscellaneous 21758 Fuel Distributor day 60 181 2,394 Asphalt Sprayer 20 day. 1,540 184,802 Sub Total 2 Labor 38.2 115 13,752 Foreman manday 172 20,592 Labor manday 12 14.3 99 11,880 Distributor 33 day 11,880 33 99 Asphalt Sprayer day Sub Total 484 58,104 3 Equipment Distributor dayunit 3,240 9,720 9,720 day.unit 120 360 360 Asphalt Sprayer 202 202 202 Miscellaneous(2%) L.S. 10,080 10,282 Sub Total Total 10,080 2,024 253,188 Unit Price per m2 2.02 0.40 50.64 INDIRECT COST 7,60 15% 0.30 0.06 TOTAL 58 0.47

UNIT FC: YEN

Total estimate for 5000 m2 US\$=¥120 LC: US\$ Concrete slab Unit Cost Total Work Item Basic Price No Unit Quantity Amount in Material Labor Equipment FC LC YEN FC LC FC LC FC LC 1 Material 105,000 12600000 1,500 70.00 Concrete m3 70.00 10,500 1260000 150 Wasted " (10%) m3 209,916 Ð 1,749 Elas tigh board and filter m2 210 8.33 18,490 2218800 43.0 430,00 Reinforcement and joint bar Iton 1,849 221880 Wasted " (10%) 4.3 430.00 ton 14319 119 4.3 28 Fuel Concrete Spreader day 74 8,870 Concrete Finisher day 4.3 17 72 8,700 4.3 Concrete Planer day 518 1.0 Concrete Cutter day 1,037 2.0 Water Tank Lorry 137,854 16,544,040 Sub Total 2 Labor 344 41,256 Foreman 9.0 38.2 lmandav 515 61,776 14.3 Labor manday 36.0 142 17,028 33 Concrete Spreader day 4.3 142 17,028 33 4,3 Concrete Finisher day 142 17.028 33 4,3 Concrete Planer day 14,30 14 1,716 1.0 Concrete Cutter. day 5.294 2.0 22.06 44 Water Tank Lorry day 1,284 161,126 Sub Total 3 Equipment 45,408 45,408 10,560 Concrete Spreader dayunit 4.3 9,000 38,700 38,700 Concrete Finisher day.unit 4.3 55,728 4.3 12,960 55,728 Concrete Planer dayunit 12.960 12,960 12,960 Concrete Cutter dayunit 1.0 5,520 5.520 2.0 2,760 Water Tank Lorry dayunit 139,836 158,316 Sub Total Total 16,863,482 139,836 139,138 27.97 27.83 3372.70 Unit Price per m2 15% 4.20 505.90 4.17 INDIRECT COST 32 32.00 3.879 TOTAL

UNIT

2G03

FC: YEN

<u> </u>	Asphalt Concrete Pavement Type 3			. · 	LC: US\$	Total estimate for	or 5000m2	US\$=¥120
No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total
						Amount		in
· · · · · · · · · · · · · · · · · · ·				FC	LC	FC	LC	YEN
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	.L		l		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

	Subgrade preparation						LC: US\$		<u> </u>	Total estimate	for 5000 m2	US\$=¥12
Νo	Work Item	Unit	Quantity			Bas	ic Price			Unit	Cost	Total
				Ma	terial	ı	abor	Equip	nent	Amo		in
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material									1		
	Mechanical stabilized course	m3	500	0	6.00				,		3,000	360,00
	Wasted " (10%)	m3	50	0	6.00					0	300	36.00
	Fuel Steel roller 10-12t	day	5	0	40					0	201	24,17
	" Tire roller 10t	day	5	0	40					0	200	23,95
	" Buildozer 21t	day	5	o	120					0	599	71,90
	" Vibration roller 10t	day	1	0	55					이	55	6,57
	" Motor grader 2.8m	day	2	o	55						110	13,15
	Sub Total							:		0	4,465	535,76
2	Labor								,			
	Foreman	manday	5			0	38.2			0	191	22,9
	Labor	manday	20	í		0	14.3			0	286	34,32
	Steel roller 10-12t	day	5	•		0	33				165	19,80
	Tire roller 10t	day	5			0	33				165	19,80
	Bulldozer 21t	day	5			0	33			0	165	19,80
	Vibration roller 10t	day	1	- 1		0	33			0	33	3,96
	Motor grader 2.8m	day	2			0	33			0	66	7,93
	Sub Total	1	ļ ·	.]						이	1,071	128,52
3	Equipment			}			·			}		
	Steel roller 10-12t	dayunit	5	ĺ				3,120		15,600	0	15,60
	Tire roller 10t	day.unit	5					3,360	. 0	16,800	0	16,80
	Bulldozer 21t	dayunit	5					12,360		61,800	0	61,80
	Vibration roller 10t	dayunit	1	.]				6,360	0	6,360	0	6,36
	Motor grader 2.8m	dayunit	2	. [3,720	. 0	1	0	7,4
	Sub Total		l	<u> </u>						108,000	0	108,00
								Total		108,000	5,536	772,28
								Unit Price pe		21.60	1.11	154.4
	INDIRECT COST								15%		0.17	23,1
	TOTAL									24.84	1.27	177.6

UNIT FC: YEN

LC: US\$ Total estimate for 5000 m2 US\$=¥120 Subbase course Unit Cost Total Work Item Basic Price Unit Quantity Material Labor Equipment Amount in LC LC YEN FC FC LC FC LC FC 1 Material 12,600 1512000 Crusher run m3 1,500 8.40 151200 1.260] Wasted " (10%) 150 8.40 m3 38678 322 Fuel Steel roller 10-12t 40 day 38333 Tire roller 10t 40 319 day 115046 959 Bulldozer 21t day 120 13147 55 110 Vibration roller 10t day 55 19728 Motor grader 2.8m day 164 15,734 1,888,133 Sub Total 2 Labor 36,672 Foreman 38.2 306 manday 14.3 458 54,912 32 Labor manday 31,680 33 264 Steel roller 10-12t day 31,680 264 Tire roller 10t 33 day 264 31,680 Bulldozer 21t 33 day Vibration roller 10t 33 66 7,920 day 33 99 11,880 Motor grader 2.8m dav 206,424 1,720 Sub Total 3 Equipment Steel roller 10-12t 3,120 24,960 24,960 dayunit 26,880 3,360 26,880 Tire roller 10t day.unit 98,880 Bulldozer 21t dayunit 12,360 98,880 12,720 Vibration roller 10t 6,360 12,720 dayunit 3.720 11,160 11,160 Motor grader 2.8m dayunit 174,600 174,600 Sub Total 17,455 Total 174,600 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

UNIT FC: YEN

LC: US\$ Total estimate for 5000 m2 US\$=¥120 Base course Unit Cost Work Item Unit Quantity Basic Price Total No Material Labor Equipment Amount in FC LC LC YEN FC LC FC LC FC 1 Material 500 62.4 21.88 10,940 1312800 Cement Treatment Macadamm3 50 62.4 21.88 1,094 131280 Wasted " (10%) 40 121 14504 Fuel Steel roller 10-12t day 120 14375 40 Tire roller 10t day 360 43142 Bulldozer 21t 120 day 13147 55 110 Vibration roller 10t day 55 Motor grader 2.8m -110 13152 12,853 1,542,401 Sub Total 2 Labor 38.2 115 13,752 Foreman lmandav 14,3 172 20,592 Labor manday 12 0 33 Steel roller 10-12t day 99 11,880 33 day 99 11,880 Tire roller 10t 33 99 11.880 day Bulldozer 21t 33 66 7,920 Vibration roller 10t day 33 66 Motor grader 2.8m 7,920 ldav 715 Sub Total 85.824 3 Equipment 9.360 9,360 Steel roller 10-12t dayunit 3,120 3,360 10,080 10,080 Tire roller 10t day.unit 37,080 37,080 12,360 Bulldozer 21t dayunit 6.360 12,720 12,720 Vibration roller 10t dayunit Motor grader 2.8m davunit 3,720 7.440 7,440 76,680 76,680 Sub Total Total 76,680 13,569 1,704,905 Unit Price per m2 15.34 2.71 340,98 51.15 INDIRECT COST 15% 2,30 0.41 3.12 TOTAL 17.64 392.13

UNIT FC: YEN

Total estimate for 5000 m2 Prime coating LC: US\$ US\$=¥120 Unit Cost Nο Work Item Unit Quantity Basic Price Total Material Labor Equipment Amount in' FC FC LC FC LC YEN LC LC FC 1 Material 250 1,275 Tar for Prime Coat 5.1 153000 ton Miscellaneous L.S. 64 7650 Fuel Distributor 181 21758 day Asphalt Sprayer 20 2394 day 1.540 184,802 Sub Total 2 Labor Foreman 0 38.2 115 13,752 manday 12 14.3 172 20,592 Labour manday 33 99 Distributor day 11,880 11,880 Asphalt Sprayer 33 99 day Sub Total 484 58,104 3 Equipment Distributor dayunit 3,240 9,720 9,720 Asphalt Sprayer 360 day.unit 120 360 Miscellaneous(2%) 202 202 L.S. 202 Sub Total 10,282 10,282 Total 2,024 10,282 253,188 Unit Price per m2 2.06 0.40 50.64 INDIRECT COST 15% 0.31 0.06 7.60 TOTAL 0.47 2.36 58.23

UNIT FC: YEN

LC: US\$ Total estimate for 5000 m2 US\$=¥120 Binder course Basic Price Unit Cost Total Work Item No Unit Quantity Labor Equipment Amount Material in LC FC FC YEN LC: FC LC FC LC 1 Material 7.450 894000 298.0 25.00 Asphalt mixture binder courseton 149 17880 Miscellaneous(2%) 149 48348 40 403 10 Fuel Steel roller 10-12t day 47916 399 40 Tire roller 10t day 10 255 30552 25 Asphalt Finisher 10 day 105 1,050 125964 Dump truck 10t day 10 9,706 1,164,660 Sub Total 2 Labor 38,2 382 45,840 Foreman manday 10 572 68,640 14.3 40 manday Labour 330 39,600 10 33 Steel roller 10-12t day 330 33 39,600 10 Tire roller 10t day 330 39,600 33 Asphalt Finisher day 10 330 39,600 10 Dump truck 10t ldav 2,274 272,880 Sub Total 3 Equipment 31,200 3,120 31,200 Steel roller 10-12t dayunit 10 33,600 10 3,360 33,600 Tire roller 10t dayunit 5,280 52,800 52,800 Asphalt Finisher 3.0m day.unit 10 2,352 2,352 2,352 Miscellaneous(2%) L.S. 67,200 6,720 67,200 Dump truck 10t day.unit 187,152 187,152 Sub Total 11,980 187,152 1,624,692 Total 2.40 Unit Price per m2 37.43 324.94 0.36 48.74 INDIRECT COST 15% 5.61 TOTAL 43.04 2.76 373,68

UNIT

FC: YEN

LC: US\$ Total estimate for 5000 m2 US\$=¥120_ Tack coating Unit Cost Work Item Unit | Quantity Basic Price Total Amount Equipment Material Labor in LC FC LC LC FC. LC US\$ FC FC 1 Material 250.00 635 76200 Tar for Prime Coat 2,54 ton 32 3810 LS. 32 Miscellaneous(5%) 121 Fuel Distributor day 60 14506 iday Asphalt Sprayer 13 1596 801 Sub Total 96,112 2 Labor 38.2 76 9,168 Foreman manday 13,728 114 Labour manday 14.3 Distributor 7,920 day 33 66 day 66 7,920 Asphalt Sprayer 323 Sub Total 38,736 3 Equipment Distributor 3,240 6,480 6,480 dayunit day.unit 240 120 240 Asphalt Sprayer L.S. 134 134 Miscellaneous(2%) 134 Sub Total 6,854 6,854 141,702 Total 6,854 1.124 Unit Price per m2 1,37 0.22 28.34 INDIRECT COST 15% 4.25 0.21 0.03 32.59 TOTAL 1.58 0.26

UNIT FC: YEN LC: US\$

Total estimate for 5000 m2

US\$=¥120

SURFACE COURSE

Basic Price Unit Cost Total Work Item Unit | Quantity No Equipment Amount in Material Labor LC LC FO YEN LC FC FC LC FC Material 8,344 1001280 298.0 28.00 Asphalt mixture binder courseton 417 50064 417 Miscellaneous(5%) 48348 403 40 Fuel Steel roller 10-12t day 10 399 47916 10 40 Tire roller 10t day 255 30552 25 10 Asphalt Finisher day 1,050 125964 10 105 Dump truck day 10,868 1,304,124 Sub Total 2 Labor 38.2 382 45,840 10 Foreman manday 572 68,640 40 14.3 manday Labour 39,600 33 330 10 Steel roller 10-12t day 330 39,600 10 33 Tire roller 10t day 39,600 33 330 10 Asphalt Finisher day 33 330 39,600 10 Dump truck 10t day 2,274 272,880 Sub Total 3 Equipment 31,200 3.120 31,200 Steel roller 10-12t 10 dayunit 33,600 33,600 10 3,360 Tire roller 10t dayunit 10 5.280 52 800 52,800 Asphalt Finisher day.unit 2,352 2.352 2,352 Miscellaneous(2%) L.S. 67,200 6,720 67,200 10 Dump truck 10t day.unit 187,152 187,152 Sub Total Total 187,152 13,142 1.764.156 Unit Price per m2 2.63 352.83 37,43 52.92 15% 5,61 0.39 INDIRECT COST 43.04 3.02 405.76 TOTAL

UNIT FC: YEN

	MACADAM PAVEMENT TYPE 4				LC: US\$	Total estimate for	5000 m2	US\$=¥120
No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total
] '			Amount		in
			<u> </u>	FC	LC	FC	LC	YEN
2G0401	Subgrade preparation	sq.m	5,000	24.84	1.27	124,200	6,366	888,124
2G0402	Subbase course	so.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			<u> </u>		458,022	68,441	8,670,971
		-		Unit Price per m2		92	13.69	1,734

UNIT FC: YEN LC: US\$

	2G04U1						LC: US\$			Total estimate	e for 5000 m2	US\$=¥1:
	Subgrade preparation	1 ()	10			Pag	ic Price				Cost	Total
No	Work Item	Unit	Quantity	3/04	erial		abor	Eguipn	nont		ount	in
				FC	LC	FC	LC	FC:	LC	FC	LC	YEN
ī	Material		 									
	Mechanical stabilized course	cu.m	500	o	6.00			÷		o	3,000	3600
	Wasted " (10%)	cu.m	50	0	6.00	·					300	36,8
	g .	day	5	0	40					0	201	24
	1	day	5	0	. 40					0	200	23,
		day	5	0	120						599	71,5
		day	1	0	55					· o	55	6,
	" Motor grader 2.8m	day	2	o	55			[[o[110	13,1
	Sub Total	,]							[o	4,465	535,
	Labor											
_	Foreman	manday	5		·	o	38.2			o	. 191	22,
	Labour	manday	20	.		0	14.3		•	0	286	34,
	Steel roller 10-12t	day	5			0	33			0	165	19,
	Tire roller 10t	day	5			0	33			o	165	19,
	j ·	day	5			0	33			o	165	19,
	Vibration roller 10t	day	1			o	33		4	0	33	3,
	Motor grader 2.8m	day	2			0	33			0	66	7,
	Sub Total	·								o	1,071	128,
3	Equipment]									
_	Steel roller 10-12t	dayunit	5	1				3,120	0	15,600	0	15,
•	Tire roller 10t	day.unit	5	ļ				3,360	0	16,800	0	16,
	Bulldozer 21t	dayunit	5	:				12,360	0	61 800	0	61.
	Vibration roller 10t	dayunit	1					6,360	0	6,360	0	6,
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7,
	Sub Total									108,000	0	108,
	<u> </u>							Total		108,000	5,536	772,
								Unit Price pe	r m2	21.60	1.11	154
	INDIRECT COST								15%	3.24	0.17	23
	TOTAL									24.84	1.27	177

UNIT

FC: YEN

Total estimate for 5000 m2 LC: US\$ Subbase course US\$=¥120 Unit Cost Nο Work Item Unit | Quantity Basic Price Total Material Labor Equipment Amount in FC LC YEN FG LC FC LC FC LC 1 Material 1764000 14,700 Crusher run 1,750 8.40 cu,m 176,400 Wasted " (10%) cu,m 175 8.40 1,470 38678 Fuel Steel roller 10-12t day 40 322 Tire roller 10t 40 319 38,333 day 959 115,046 Bulldozer 21t 120 day 55 110 13,147 Vibration roller 10t day 19,728 55 164 Motor grader 2.8m 18,044 2,165,333 Sub Total 2 Labor 36,672 306 Foreman 38.2 manday 14.3 458 54,912 32 Labour manday Steel roller 10-12t 33 264 31,680 day 33 264 31,680 Tire roller 10t day Bulldozer 21t dav 33 264 31,680 33 66 7,920 Vibration roller 10t day Motor grader 2.8m 33 99 11,880 day 1,720 206,424 Sub Total 3 Equipment 24,960 24,960 Steel roller 10-12t dayunit 3,120 3,360 0 26,880 Tire roller 10t day.unit 26,880 12,360 oļ 98,880 Bulldozer 21t dayunit 98,880 Vibration roller 10t dayunit 6,360 0 12,720 12,720 3,720 11,160 11,160 Motor grader 2.8m dayunit 174,600 Sub Total 174,600 2,546,357 Total 174,600 19,765 Unit Price per m2 34.92 3.95 509.27 INDIRECT COST 5.24 0.59 76.39 15% TOTAL 40.16 4.55 585.66

UNIT FC: YEN

LC: US\$ Total estimate for 5000 m2 US\$=¥120 Base course Basic Price Unit Cost Total No Work Item Unit Quantity Labor Equipment Amount in Material FC LC LC YEN FC LC FC FC LC 1 Material 27,350 3282000 1,250 62.4 21.88 Cement Treatment Macadan cu.m 328,200 62.4 21.88 2,735 Wasted " (10%) 125 161 19339 Fuel Steel roller 10-12t 40 day 19,166 160 40 Tire roller 10t dav 479 57,523 120 Bulldozer 21t day 55 164 19,721 Vibration roller 10t day 55 164 19,728 Motor grader 2.8m dav 31,214 3,745,678 Sub Total 2 Labor 153 18,336 38.2 Foreman manday 229 27,456 14.3 Labour manday 16 33 132 15.840 Steel roller 10-12t day 132 15.840 Tire roller 10t day 33 132 15,840 33 day Bulldozer 21t 33 99 11,880 Vibration roller 10t day 11,880 33 99 Motor grader 2.8m day 976 117.072 Sub Total 3 Equipment 12,480 12,480 3,120 Steel roller 10-12t dayunit 13,440 13,440 3,360 Tire roller 10t day.unit 49,440 12,360 49,440 Buildozer 21t davunit 6,360 19,080 19,080 Vibration roller 10t dayunit 3.720 11,160 11,160 Motor grader 2.8m dayunit 105,600 105,600 Sub Total 3,968,350 Total 105,600 32,190 Unit Price per m2 6.44 793.67 21,12 15% 3,17 0.97 119.05 INDIRECT COST 24.29 7.40 912.72 TOTAL

UNIT

2G0404

FC: YEN

PRIME COAT LC: US\$ Total estimate per 5000 m2 US\$=¥120 No Work Item Unit Cost Unit | Quantity Basic Price Total Material Labor Equipment Amount in FC FC LC FC YEN LC LC FC LC 1 Material Tar for Prime Coat 5.1 250 1,275 153000 ton Miscellaneous LS. 64 64 7,650 Fuel Distributor 3 60 181 21758 day 2,394 Asphalt Sprayer 20 day 184,802 Sub Total 1,540 2 Labor Foreman 38.2 115 13,752 manday 12 manday 14.3 172 20,592 Labour Distributor 33 99 11,880 day Asphalt Sprayer 33 99 11,880 day Sub Total 484 58,104 3 Equipment Distributor 3,240 9,720 9,720 dayunit Asphalt Sprayer day.unit 120 360 360 Miscellaneous(2%) L.S. 202 202 202 Sub Total 10,080 10,282 2,024 253,188 Total 10,080 Unit Price per m2 2.02 0.40 50.64 INDIRECT COST 15% 0.30 0.06 7.60 TOTAL 2.32 58.23 0.47

PORT REACTIVATION PROJECT IN LAUNION PROVINCE

2G05

UNIT

FC: YEN

	MACADAM PAVEMENT TYPE 5				LC: US\$	Total estimate for	or 5000 m2	US\$=¥120
No	Work Item	Unit	Quantity	Basic P	Price	Unit (Cost	Total
		i				Amo	unt	in
			<u> </u>	FC	LC	FC	LC	YEN
2G0501	Subgrade preparation	m.ps	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			<u> </u>		458,022	56,209	7,203,065
				Unit Price per m2		92	11.24	1,441

UNIT FC: YEN

Subgrade preparation LC: US\$ Total estimate for 5000 m2 US\$=¥120 No Work Item Unit Quantity Basic Price Unit Cost Total Material Labor Equipment Amount in FÇ FC LC LC FC LC FC LO YEN 1 Material 360000 Mechanical stabilized course cu.m. 3,000 500 6.00 300 36,000 Wasted " (10%) 50 lou.m 6.00 201 24174 Fuel Steel roller 10-12t day 40 Tire roller 10t day 40 200 23,958 Bulldozer 21t 599 71,9041 day 120 55 6,574 Vibration roller 10t 55 day Motor grader 2.8m 110 13,152 day 4.465 535,762 Sub Total 2 Labor 191 22,920 Foreman manday 38.2 Labour manday 14.3 286 34,320 20 33 165 Steel roller 10-12t day 19.800 33 Tire roller 10t day 165 19,800 day 33 165 19.800 Bulldozer 21t 33 Vibration roller 10t dav 33 3,960 33 Motor grader 2.8m 66 7,920 Joay 1,071 128,520 Sub Total 3 Equipment Steel roller 10-12t 3,120 15,600 15,600 dayunit Tire roller 10t day.unit 3,360 16,800 16,800 12,360 61,800 61,800 Bulldozer 21t dayunit dayunit 6,360 6,360 6.360 Vibration roller 10t 3,720 7,440 7,440 Motor grader 2.8m dayunit 108,900 Sub Total 108,000 5,536 108,000 772,282 Total Unit Price per m2 21,60 1.11 154.46 INDIRECT COST 0.17 3.24 23.17 1.27 178 TOTAL

UNIT FC: YEN

	200002						I O- HOP			Tatal anti-	to for E000 2	110#-V#
	Subbase course	1	1-				LC: US\$	· · · · · · · · · · · · · · · · · · ·			te for 5000 m2	US\$=¥12
No	Work Item	Unit	Quantity			Basic Pr	тсе	T= :	 	Unit Cost		Total
				Material		Labor		Equipment		Amount		in
				FC	LC	FC	rc	FC	LC	FC	LC	YEN
1	Material							ŀ	<u> </u>			
	Crusher run	cu.m	1,250	,0	8.40			Ì	İ		10,500	126000
	Wasted " (10%)	cu.m	125	0	8.40			1	<u> </u>		1,050	126,00
	Fuel Steel roller 10-12t	day	8	0	40						322	386
	" Tire roller 10t	day	8	0	40			1		1	319	38,33
	" Bulldozer 21t	day	8	0	120			1] (959	115,04
	" Vibration roller 10t	day	2	0	55		· ·]		(110	13,14
	" Motor grader 2,8m	day	3	0	55					(164	19,72
	Sub Total									(13,424	1,610,93
2	Labor			[٠.						
	Foreman	manday	8			[0	38.2				306	36,67
	Labour	manday	32	Ì		0	14.3	3			458	54,91
	Steel roller 10-12t	day	8			C	33	1		(264	31,68
	Tire roller 10t	day	8]	O.	33	3		(264	31,68
	Bulldozer 21t	day	8		İ	C) a:	a	1	(264	31,68
	Vibration roller 10t	day	2			, c	33	3 ·			66	7,92
	Motor grader 2.8m	day	3	[C	33	3			99	11,88
	Sub Total							1			1,720	206,43
3	Equipment	1		1	ļ	1		1. 1.	}	- [1	4
	Steel roller 10-12t	dayunit	8	}		·	ļ	3,120	1	24,960		24,96
	Tire roller 10t	day.unit	8]	1		}	3,360	(26,880		26,88
	Bulldozer 21t	dayunit	8		i ·			12,360	(98,880	0	98,88
	Vibration roller 10t	dayunit	2					6,360	1	12,720	0	12.73
	Motor grader 2.8m	dayunit	3]				3,720	C	11,160		11,10
	Sub Total			l						174,600	0	174,60
								Total		174,600	15,145	1,991,9
							· -	Unit Price p		34.92	3.03	398.3
	INDIRECT COST								15%	5.24	0,45	59.
	TOTAL									40	3.48	45

UNIT FC: YEN

LC: US\$ Total estimate for 5000 m2 US\$=¥120 Base course Basic Price Unit Cost Total No Work Item Unit Quantity Material Labor Equipment Amount ìn FC LC YEN FC LC FC LC FC LC 1 Material 21,880. 2625600 Cement Treatment Macadan cu.m 1,000 62.4 21.88 Wasted " (10%) 100 62,4 21.88 2,188 262,560 cu.m 161 19339 Fuel Steel roller 10-12t day 40 19,166 160 Tire roller 10t day 40 57,523 479 Bulldozer 21t day 120 19,721 Vibration roller 10t day 55 164 19,728 Motor grader 2.8m day 55 164 Sub Total 25,197 3,023,638 2 Labor 153 18,336 38.2 Foreman manday 16 14.3 229 27,456 Labour manday 132 15,840 day 33 Steel roller 10-12t 33 132 15,840 Tire roller 10t day 33 132 15,840 day Bulldozer 21t 33 11,880 Vibration roller 10t day 33 99 11,880 Motor grader 2.8m day 976 117,072 Sub Total 3 Equipment Steel roller 10-12t 3,120 12,480 12,480 dayunit 13,440 13,440 Tire roller 10t 3,360 day.unit 49,440 49,440 Buildozer 21t dayunit 12,360 19,080 Vibration roller 10t dayunit 6,360 19,080 3,720 11,160 11,160 Motor grader 2,8m dayunit Sub Total 105,600 105,600 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 24 TOTAL 6,02 747

UNIT FC: YEN

21.	Prime coating Work Item	Unit	Quantity		· · · · · · · · · · · · · · · · · · ·	Basis	LC: US\$			Total estimate	Cost	US \$ ≂¥12 Total
No	vvork item	Unit	Quantity	Mate	orial		bor	Fouir	oment		ount	in
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material						,					
	Tar for Prime Coat	ton	5.1	0	250					0	1,275	15300
	Miscellaneous	L.S.	1	0	64		* *	ļ	.	. 0	64	7,6
	Fuel Distributor	day	3	o	60				[o	181	217
	" Asphalt Sprayer	day	3	О	7				· ·	o	20	2,3
	Sub Total		1.					ļ [*]		0	1,540	184,80
							-					
2	Labor							ļ				
	Foreman	manday	3			0	38.2		[0	115	13,7
	Labour	manday	12			0	14.3			0	172	20,5
	Distributor	day	3			. 0	33			0	99	11.8
	Asphalt Sprayer	day	3	•		0	33			0	99	11,8
	Sub Total].		0	484	58,1
			1						ļ			
3	Equipment				·							
	Distributor	dayunit	3					3,240	0	9,720	o].	9,7
	Asphalt Sprayer	day.unit	3					120	0	360	c	3
	Miscellaneous(2%)	L.S.	1	1				202	0	202	O	. 2
	Sub Total			1					ļ	10,080	0	10,2
		. L										
								Total		10,080	2,024	253,1
								Unit Price	per m2	2.02	0.40	50.
	INDIRECT COST								15%	0.30	0.06	7.
	TOTAL									2	0.47	

UNIT

2G06

FC: YEN

	Interlocking concrete bl	ock pave	ment ty	<u>pe 6 for sí</u> dewa	alk	LC: US\$	Total estimate for 5,0	000 m2	US\$=¥120_
No	Work Item		Unit	Quantity	Basic	Price	Unit Co	st	Total
		-	·	[Amount		in
	1			[FC	LC	FC	LC	YEN
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	6,699,642
			· 1	• [_ [
			····		Unit Price per m	12	68	10.60	1,340

UNIT FC: YEN

LC: US\$ Total estimate for 5000 m2 US\$=¥120 Subgrade preparation Unit Cost Total Basic Price No Work Item Unit | Quantity Amount in Labor Equipment Material LC YEN LC FC FC LC FC LC FC 1 Material 360000 3.000 Mechanical stabilized course m3 500 6.00 300 36000 50 6.00 Wasted " 201 24174 40 Fuel Steel roller 10-12t day 200 23958 40 Tire roller 10t day 599 71904 120 Bulldozer 21t day 6574 55 55 Vibration roller 10t day 110 13152 55 Motor grader 2.8m day 4,465 535,762 Sub Total 2 Labor 38.2 191 22920 Foreman manday 286 34320 20 14,3 manday Labor 165 19800 33 Steel roller 10-12t day 33 165 19800 day Tire roller 10t 33 165 19800 day Bulldozer 21t 3960 33 33 Vibration roller 10t day 66 7920 33 Motor grader 2.8m day 1,071 128,520 Sub Total 3 Equipment 15600 3,120 15,600 Steel roller 10-12t dayunit 3.360 16,800 16800 Tire roller 10t day.unit 61800 12,360 61,800 Bulldozer 21t dayunit 6360 6,360 6.360 Vibration roller 10t dayunit 7440 3.720 7,440 Motor grader 2.8m dayunit 108,000 108,000 Sub Total 5,536 772,282 Total 108,000 154.46 Unit Price per m2 21.60 1.11 23,17 0.17 15% 3.24 INDIRECT COST 1.27 178 TOTAL

UNIT

FC: YEN

Base course LC: US\$ Total estimate for 5000 m2 US\$=¥120 No Work Item Unit Quantity Basic Price Unit Cost Total Material Labor Equipment Amount in FO FC LC LC LC YEN: FC FC LC 1 Material Cement Treatment Macadan m3 500 18,80 9,400 1128000 Wasted " 940 112800 (10%) 50 18.80 Fuel Steel roller 10-12t 40 81 9670 80 9583 Tire roller 10t day 40 28762 Bulldozer 21t day 120 240 Vibration roller 10t 55 55 6574 day Motor grader 2.8m 55 55. 6576 Sub Total 10,850 1,301,964 2 Labor 38.2 76 9168 Foreman manday 14.3 114 13728 Labour manday 33 66 7920 Steel roller 10-12t day 33 66 7920 Tire roller 10t day 33 66 7920 Bulldozer 21t day 33 33 3960 Vibration roller 10t day 33 33 3960 Motor grader 2.8m day Sub Total 455 54,576 3 Equipment Steel roller 10-12t 6240 dayunit 3,120 6,240 Tire roller 10t 3,360 6,720 6720 day.unit 24720 Bulldozer 21t 12,360 24,720 dayunit 6360 Vibration roller 10t 6,360 5,360 dayunit 3720 Motor grader 2.8m dayunit 3,720 3,720 47,760 Sub Total 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 2.60 323

UNIT

FC: YEN LC: US\$ Sand laver

	20000						1 0. 14.			and the Mark that the same	*	
	Sand layer	:	,			·	LC: US\$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	·	Total estimate	for 5000 m2	US \$ =¥1.
Νo	Work Item	Unit	Quantity			Bas	Unit Cost		Total			
				Material		Labor		Equipment		Amount		in
:	14		, T	FÇ	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material											
	Send	m3	100	0	6.0					0	600	720
	Wasted sand(10%)	m3	10	0	6.0					0	30	36
	Fuel Motor Grader 2.8m	day	1.5	0	55					o	82	9:
	Sub Total					4				0	712	85,
2	Labor									·	T LL CARREST AND A SALES	٠
	Foreman	manday	1.5		. 1	0	38.2	ļ.		0	57	. 6
	Labour	manday	6		·	. 0	14.3			o	86	10
į	Motor Grader 2.8m	day	1.5			. 0	33			0	50	5
	Sub Total									. 0	193	23
]		1.				•			
	Equipment				· .					E Pag		
	Motor Grader 2.8m	dayunit	1.5					3,720	0	1.		
	Sub Total		[[٠				5,580	0	5,
_			<u> </u>					Total		5,580	905	114
								Unit Price pe	r m2	1.12	0.18	2
	INDIRECT COST								15%	0.17	0.03	
	TOTAL								.=	1	0.21	

UNIT FC: YEN

US\$=¥120 ICB Pavement LC: US\$ Total estimate for 5000 m2 No Basic Price Unit Cost Total Work Item Unit Quantity Labor in **Material** Equipment Amount FC FC LC YEN LC FC LC LC FC 1 Material ICB 23,500 2820000 sq.m 5,000 4.70 56400 Miscellaneous(2%) L.S. 470 470 223 26730 Fuel Folklift 1.5t 15 14.85 day 25 2970 Tampa 60-100kg 15 1.65 day Bulldozer 15t 15 80.24 1,204 144432 day 15 822 98604 Vibration roller 10t day 54.78 15 501 60084 Truck 4t 33,38 day 25,421 3,050,532 Sub Total 2 Labor Foreman manday 15 38.2 573 68760 60 14.3 858 102960 Labor manday 15 59400 Folklift 1.5t 33 495 day 33 59400 15 495 Tampa day 15 33 495 59400 Bulldozer 15t day 15 33 Vibration roller 10t day 495 59400 Truck 4t 15 495 59400 day 2,916 349,920 Sub Total 3 Equipment Folklift 1.5t dayunit 15 1,320 19,800 19800 Tampa dayunit 15 212,40 3,186 3186 Bulldozer 15t day.unit 15 7,440 111,600 111600 15 6,360 95,400 95400 Vibration roller 10t day.unit 15 2,160 Truck 4t day.unit 32,400 32400 134,586 Sub Total 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 31 TOTAL 6.52 813

LA UNION PORT DEVELOPMENT PROJECT 2G0701 Gravel pavement

UNIT FC: YEN LC: US\$

	Gravel pavement				LO: 022	lotal estimate for 50	UU m2	US\$=¥120
No	Work Item	Unit	Quantity	Basic	Price	Unit Co	Total	
						Amou	in	
				FC	LC .	FC	LC	YEN
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			1,223,029	119,460.05	15,558.235
				Unit Price per m	12	51	5.00	651

UNIT FC: YEN

LC: US\$ Total estimate for 5000 m2 Subgrade preparation US\$=¥120 Work Item Basic Price Unit Cost Total Unit Quantity Material Labor Equipment Amount in FC LC LC YEN FC LC FC LC FC 1 Material 3,000 360000 Mechanical stabilized course m3 500 6.00 36,000 Wasted " 300 (10%) 50 6.00 201 24174 Fuel Steel roller 10-12t 40 day 23,958 200 Tire roller 10t 40 day 599 71,904 Bulldozer 21t 120 day 6.574 55 55 Vibration roller 10t day 55 110 13,152 Motor grader 2.8m day 4,465 535,762 Sub Total 2 Labor 22,920 38.2 191 Foreman manday 14.3 286 34,320 20 Labour manday 165 19,800 Steel roller 10-12t day 33 Tire roller 10t 33 165 19,800 day 33 1651 19,800 Bulldozer 21t day 33 33 3,960 Vibration roller 10t day Motor grader 2.8m 33 66 7,920 day 1,071 128,520 Sub Total 3 Equipment 15,600 Steel roller 10-12t dayunit 3.120 15,600 16,800 Tire roller 10t 3,360 16,800 day.unit 12,360 61,800 61,800 Buildozer 21t dayunit 6,360 Vibration roller 10t 6,360 6,360 dayunit 7.440 3,720 7,440 Motor grader 2.8m dayunit 108,000 108,000 Sub Total 5,536 Total 772,282 108,000 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 Gravel pavement

UNIT FC: YEN

	Gravel pavement						LC: US\$			Total estimat	e for 5000 m2	US\$=¥12
Νo	Work Item	Unit	Quantity			Bas	Unit Cost		Total			
140	1	0,,,,,		Material		Labor		Equipment		Am	ount	in
		1	i i	FC	LC	FC	LC	FC	LC	FC	LC LC	YEN
1	Material											
	Crushed stone	cu.m	1,500	. 0	8.40		ŕ			0	12,600	151200
	Wasted " (10%)	cu.m	150	0	8.40					0	1,260	151,20
•	Fuel Steel roller 10-12t	day	5	0	40		•			. 0	201	241
100	" Tire roller 10t	day	5	0	40					. 0	200	23,95
	" Bulldozer 21t	day	5	0	120					. 0	599	71,90
	" Vibration roller 10t	day	2	. 0	55					0	110	13,14
	" Motor grader 2.8m	day	2	0	55					. 0	110	13,15
	Sub Total	1	1 1							0	15,079	1,809,53
2	Labor				}						ľ	
	Foreman	manday	5			0,	38.2			0	191	22,9
	Labour	manday	20			O	14.3			0	286	34,32
	Steel roller 10-12t	day	5			0	33]		0	165	19,80
	Tire roller 10t	day	5			0	33			0	165	19,80
	Bulldozer 21t	day	5			0	33		**	0	165	19,80
	Vibration roller 10t	day	2		<u> </u>	. 0	33			0	66	7,92
	Motor grader 2.8m	day	2			. 0	33			0	66	7,92
	Sub Total	1]		<u> </u>		·			0	1,104	132,48
3	Equipment						•					•
	Steel roller 10-12t	dayunit	5					3,120	0	15,600	• 0	15,60
	Tire roller 10t	day.unit	5				,	3,360	0	16,800	0	16,80
	Bulldozer 21t	dayunit	5					12,360	0	61,800	0	61,80
	Vibration roller 10t	dayunit	. 2					6,360	0	12,720	. 0	12,72
	Motor grader 2.8m	dayunit	2					3,720	0	7,440	0	7 ,4 4
	Sub Total	1								114,360		114,36
	<u> </u>							Total		114,360		2,056,37
						· · · · · ·	·	Unit Price pe		22.87	3.24	411.2
	INDIRECT COST								15%			61.6
	TOTAL									26	3.72	47

UNIT

Foundation for concrete stack	ting plat	е		LC: US\$	Total estimate for	5000 m2	US\$=¥1	20
Work Item	Unit	Quantity	Basi	c Price	Unit	Cost	Total	
					Amount		in	
ļ		l .	FC.	10	FC	10	VEN	

No	Work Item	Unit	Quantity	Bas	ic Price	Unit C	ost	Total
	1					Amount		in
L				FC	LC	FC	LC	YEN
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	7,04 0,158
<u> </u>	<u> </u>	L	<u> </u>		Unit price per m2	86	11.02	1,408

UNIT FC: YEN

LC: US\$ Total estimate for 5000 m2

	Subgrade preparation				•		LC: US\$			Total estimate	e for 5000 m2	US\$=¥120
No	Work Item	Unit	Quantity			Bas	ic Price			Unit	Cost	Total
			l	Ma	terial	L	abor	Equip	ment	Amo	ount	in
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material							·))		
	Mechanical stabilized cours	em3	1,000	0	00.0						6,000	72000
	Wasted " (10%)	m3	100	0	6.00					0	600	7200
	Fuel Steel roller 10-12t	day	5	o	40					0	201	2417
	" Tire roller 10t	day	5	0	40					0	200	2395
	" Bulldozer 21t	day	5	o	120					0	599	7190
	" Vibration roller 10t	day	1	0	55					0	55	657
	" Motor grader 2.8m	day	2	o	55						110	1315
	Sub Total				-						7,765	931,76
2	Labor						·			ł l		
	Foreman	manday	5			0	38.2				191	2292
	Labor	manday	20	,		0	. 14.3			0	286	3432
	Steel roller 10-12t	day	5			0	33	; †		0	165	1980
	Tire roller 10t	day	5	ľ		0	33			0	165	1980
	Bulldozer 21t	day	5			0	33				165	1980
	Vibration roller 10t	day	1			0	33			0	33	396
	Motor grader 2.8m	day	2			0	33				66	792
	Sub Total										1,071	128,52
3	Equipment				,						}	
	Steel roller 10-12t	dayunit	5	.				3,120	(15,600	0	1560
	Tire roller 10t	day.unit	5					3,360	(16,800	0	1680
	Buildozer 21t	dayunit	5			-		12,360		61,800	0	6180
	Vibration roller 10t	dayunit	1		·			6,360		6,360	. 0	636
	Motor grader 2,8m	dayunit	2			٠		3,720	(7,440	0	744
-	Sub Total		"							108,000	0	108,00
								Total		108,000	8,836	1,168,28
-	The second second					· · · · · ·		Unit Price pe	er m2	21,60	1.77	233.6
	INDIRECT COST								15%	3.24	0.27	35.0
•	TOTAL									24.84	2.03	268,7

UNIT FC: YEN

LC: US\$ Total estimate for 5000 m2 US\$=¥120 Base course Unit Cost Work Item Unit Quantity Basic Price Total Material Labor Equipment Amount in LC LC FC FC LC FC FC YEN Material Crusher run 15,000 1800000 m3 2,500 6.00 Wasted " (10%) 1,500 180000 m3 250 6.00 403 48348 Fuel Steel roller 10-12t day 10 40 Tire roller 10t day 10 40 399 47916 1,198 143808 Bulldozer 21t 10 120 day Vibration roller 10t 55 329 39442 day Motor grader 2.8m 329 39456 55 day 19,158 2,298,970 Sub Total 2 Labor Foreman 10 38.2 382 45840 manday 40 14.3 572 68640 Labor manday 330 Steel roller 10~12t 10 33 39600 day 33 330 39600 Tire roller 10t 10 day 33 330 39600 Bulldozer 21t 10 day 33, Vibration roller 10t day 198 23760 33 198 23760 Motor grader 2,8m day Sub Total 2,340 280,800 3 Equipment Steel roller 10-12t dayunit 10 3,120 31,200 31200 3,360 33,600 33600 Tire roller 10t day.unit 10 Bulldozer 21t dayunit 10 12,360 123,600 123600 Vibration roller 10t 6,360 38,160 38160 dayunit 22320 3,720 22,320 Motor grader 2,8m dayunit 248,880 248,880 Sub Total 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

UNIT FC: US\$

	Lean concrete	•					LC: US\$			Total estimat	e for 5000 m2	US\$=¥12
No	Work Item	Unit	Quantity			Bas	ic Price			Un	it Cost	Total
				Mat	terial	Ĺ	abor	Equipn	nent	A	mount	in
				FC	LC	FC	LC	FC	LC	FC	LC	<u>US\$</u>
1	Material											
	Ready mixed concrete CG12	cu.m	250	0	65.00					0	16,250	195000
	S	cu.m	4	- 0	65.00]		0	260	3120
	Miscellaneous(2%)	L.S.	1	o	40			Ì		0	330	3962
	Fuel Mixer truck	day	2.5	· o	71					. 0	178	2139
	" Generator 45KVA	day	2.5	o	32			·		0	79	950
	Sub Total			`						0	17,098	2,051,72
2	Labor			-						. "		
	Foreman	manday	2.5			0	38.2			0	95	1146
	Labor	manday	15	1		. 0	14.3			.0	215	2574
	Mixer truck	day	2.5	ł	1	0	33			. 0	83	990
	Generator 45KVA	day	2.5			0	33			.0	83	990
	Sub Total		i i	- (į					0	475	57,00
								÷			. [
3	Equipment			-		-		*	•		1	
	Mixer truck 4,5m3	dayunit	2.5		.			5,280	0	13,200	0	1320
	Generator 45KVA	day.unit	2.5	. 1	•			1,080	. 0	2,700	0	270
	Vibrator	dayunit	2.5	ł	·		٠	127	. 0	318	0	31
	Sub Total									16,218	. 0	16,21
			<u> </u>			·						·
							5	Total		16,218		2,124,94
		·					·	Unit Price pe		3.24		424.9
	INDIRECT COST								15%			63.7
	TOTAL									3.73	4.04	488.7

No

2G070301

2G070302

2G070303

LA UNION PORT DEVELOPMENT PROJECT 2G0703

Unit

Nos

Nos

Nos

Quantity

1,070

1,070

1070

UNIT FC: YEN

14.80

FC

745.20

Concrete stacking plate type-A Work Item

Fabrication Steel Bar

Production of Stacking Plate

Placing of Stacking Plate

LC: US\$ Total estimate for 1070 Nos. US\$=¥120 Total Basic Price Unit Cost Amount in LC FC YEN LC 5,053,556 256.07 37.22 273,999.00 39,829.65 8,942,103 678,845.46 68,860,48 634.44 64.36

15,836,14

2,697,701

797,364.00 1,750,208.46 124,526.27 16,693,360.99 116.38 Unit Price per No. 1,636 15,601

LA UNION PORT DEVELOPMENT PROJECT 2G070301 Exhibition of Steel has

UNIT

	Fabrication of Steel b	ar					LC: US\$			Total estimate	for 1070 Nos	US\$=¥120
No	Work Item	Unit	Quantity			Basic	Price			Unit (Cost	Total
		- }	[erial		bor		ment	Amo		in
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material								,			
	Steel bar D10-D13	ton	62	0	406.80					0	25,222	302659
	Wasted " (2%)	ton	1.2	. 0	406.8					0	504	60,53
	Small size steel	kg	915	0	0.407	4.				0	372	4466
	Welding rod	kg	275	0	2.1					0	578	69,30
	Fuel Truck crane 16t	day	22.0	0.	82					0	1,794	215,31
	" Generator 45KVA	day	22.0	0	37					0	807	96,83
	Sub Total								٠	0	28,470	3,513,24
2	Labor											
	Foreman	manday	22.0		4	. 0	38.2			0	840	100,84
	Labor	manday	220,0			0	14.3	:		. 0	3,146	377 . 52
	Welder	manday	22.0	ł		0	33			. 0	726	87.12
	Truck crane 16t	day	22.0			0	33			0	726	87,12
	Generator 45KVA	day	22.0			0	33			0	726	87,12
	Sub Total							·		0	6,164	739,72
	· .		.	•	į			• :				
- 3	Equipment			.	;							-
	Truck crane 16t	dayunit	22.0					9,480	C	208,560	이	208,56
	Generator 45KVA	dayunit	22.0	1				1,080	C	23.760	.0	23.76
	Bar Cutter	day.unit	22.0			1		270.00	C	5,940	0	5,94
	Bar Bender	day unit	22.0	. 1				270.00	C	5,940	0	5,94
	Sub Total									238,260	0	244,20
	1		L					Total		238,260	34,634	4,497,17
								Unit Price	per No. ""	222.67	32.37	4202.9
	INDIRECT COST								15%	33.40	4.86	630,4
	TOTAL									256	37.22	4,833

UNIT FC: YEN

Production of Stacking Plate LC: US\$ Total estimate for 1070 Nos US\$=¥120 Basic Price Work Item Unit Cost Total No Unit | Quantity in Labor Equipment Amount Material FC FC LC FC LC FC LC LC YEN 1 Material 32,250 3870000 Ready mixed concrete m3 430 01 75.00 Wasted " 77,400 (1.5%) m3 6.5 75.0 645 Metal form bottom 4,280 513600 m2 2,140 2.0 5.2 6,677 801,216 Metal form side m2 1.2841 533,402 54.5 82 4,445 Fuel Truck crane 16t day 54.5 1,999 239,887 Generator 45KVA day 50.296 6,035,506 Sub Total 2 Labor 2,082 249,828 54.5 Foreman manday 468,468 14.3 3,904 Labor manday 273.0 54.5 33 1.799 215,820 Truck crane 16t day Generator 45KVA day 54.5 33 1,799 215,820 9.583 1,149,936 Sub Total 3 Equipment 516,660 Truck crane 16t 54.5 9,480 516,660 dayunit 58,860 54.5 1,080 58,860 Generator 45KVA dayunit 14,780 Vibrator 109.0 135.60 14,780 day.unit 590,300 590,300 Sub Total 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 64.36 8,357 TOTAL

UNIT FC: YEN

LC: US\$ Placing of Stacking Plate Total estimate for 1070 Nos US\$=¥120 Work Item Basic Price Unit Cost No Unit Quantity Total Labor Material Equipment Amount in FC LC FC FC LC FC LC LC YEN 1 Materia! 4,363 523,615 53.5 82 Fuel Truck crane 16t day 277,858 2.315 Truck 8t day 53.5 801,473 4,363 Sub Total 2 Labor 38.2 2,044 245,244 53.5 Foreman manday 268.0 14.3 3,832 459,888 Labor manday 33 1,766 211.860 Truck crane 16t day 53.5 1,766 211,860 Truck 8t 53.5 33 day 9,407 1,128,852 Sub Total 3 Equipment 53.5 9,480 507,180 507,180 Truck crane 16t dayunit 53.5 186,180 3,480 186,180 Truck 8t dayunit Sub Total 693,360 693,360 13,771 Total 693,360 2,623,685 Unit Price per No. 12.87 2452.04 648.00 INDIRECT COST 367,81 15% 97.20 1,93 2,820 TOTAL 745 14.80

UNIT

<u> </u>	Concrete stacking plate type-B				LC: US\$	Total estimate fo	r 420 Nos.	US\$=¥120
No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total
		i				Amount		in
<u></u>				FC	LC	FC	LC	YEN
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	1: 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				<u> </u>	509,823.06	32,040,30	4,354,659,22
				Unit Price per N	0,	1,214	76.29	10,368

UNIT FC: YEN

US\$=¥120 LC: US\$ Total estimate for 420 Nos Fabrication of Steel bar Basic Price Unit Cost Total No Work Item Unit | Quantity Amount Labor Equipment in Material FC LC YEN FC LC FC LC FC LC 1 Material 5,695 683424 14 406.80 Steel bar D10-D13 ton 406.8 114 13,668 0.3 Wasted " ton 0.407 84 10105 207 Small size steel kg 130 15,624 2.1 62 Welding rod kg 408 48,936 5.0 82 Fuel Truck crane 16t day 37 183 22,008 Generator 45KVA 5.0 day 6.431 793,765 Sub Total 2 Labor 22.920 38.2 191 manday 5.0 Foreman 14.3 715 85,800 50.0 Labor manday 5.0 33 165 19,800 Welder manday 33 19.800 165 5.0 Truck crane 16t day 33 165 19,800 Generator 45KVA 5.0 day 1,401 168,120 Sub Total 3 Equipment 47,400 47,400 Truck crane 16t 5.0 9,480 dayunit 5,400 5.0 1,080 5,400 Generator 45KVA dayunit 270.00 1,350 1,350 5.0 Bar Cutter day.unit 1,350 1,350 270.00 5.0 Bar Bender day.unit 55,500 54,150 Sub Total Total 54,150 7,832 1,017,385 Unit Price per No. 128.93 18.65 2422.35 INDIRECT COST 19.34 2.80 363.35 148 21,45 2.786 TOTAL

UNIT

	Production of Stacking P	late	·	·		· .	LC: US\$	<u> </u>		Total estimate		US\$=¥128
No	Work Item	Unit	Quantity				sic Price				t Cost	Total
			l	Ma	terial		_abor	Equip		Ar	nount	in
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material											
	Ready mixed concrete	m3	93	0	75.00	·	1			0	6,975	83700
	Wasted " (1.5%)	m3	1.4	0	75.0					0	. 140	16,74
	Metal form bottom	m2	508	. 0	2,0				ļ	0	1,016	12192
	Metal form side	m2	430	0	5.2	l .		1	·	0	2,236	268,32
	Fuel Truck crane 16t	day	12.0	0	82	l .	1			0	979	117,44
	" Generator 45KVA	day	12.0	0	: 37					0	440	52,81
٠.	Sub Total					1				0	11,345	1,414,24
		-					1				1	
2	Labor	İ	1 1				1	1			1	
	Foreman	manday	12.0			- (38.2			0	458	55,00
	Labor	manday	60.0				14.3			0	858	102,96
	Truck crane 16t	day	12.0	1		(33			٥	396	47,52
	Generator 45KVA	day	12.0				33			. 0	396	47,52
	Sub Total									0	2,108	253,00
3	Equipment					}	1				.	
	Truck crane 16t	dayunit	12.0				ļ	9,480	o	113,760	lo	113,76
	Generator 45KVA	dayunit	12.0					1,080	0	12,960	0	12,96
	Vibrator	day.unit	1 i					135,60		3,254	ol	3,25
	Sub Total									129,974	0	129,97
	<u></u>	L	<u> </u>			<u> </u>		Total		129,974	13,454	1,797,22
							•	Unit Price po	er No	309.46	32,03	4279.1
	INDIRECT COST							Cinc i iioo pi	15%	46.42	4.80	641.8
	TOTAL									356	36.84	4,92

UNIT FC: YEN

LC: US\$ Total estimate for 420 Nos US\$=¥120 Placing of Stacking Plate Unit Cost Total Basic Price No Work Item Unit Quantity Material Equipment Amount in Labor YEN FC LC FC FC LC FC LC LC 1 Material 82 1,631 195,744 20.0 0 Fuel Truck crane 16t day 866 103,872 43 20.0 Truck 8t day 299,616 1,631 Sub Total 2 Labor 38.2 764 91,680 20.0 Foreman manday 2,860 343,200 200.0 Labor manday 79,200 660 20.0 Truck crane 16t day 660 79,200 Truck 8t day 20.0 593,280 4.944 Sub Total 3 Equipment 189,600 189,600 9.480 Truck crane 16t 20.0 dayunit 69,600 3,480 69,600 dayunit 20.0 Truck 8t 259,200 259,200 Sub Total 6,575 1,152,096 Total 259,200 15.66 2743.09 Unit Price per No. 617.14 411.46 INDIRECT COST 15% 92.57 2.35 710 18.00 3,155 TOTAL

UNIT

	Concrete stacking plate type-C		·		LC: US\$	Total estimate for	40 Nos.	US\$=¥120
No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total
		ļ				Amount		in
			<u> </u>	FC	LC	FC	LC	YEN
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

UNIT FC: YEN

Total estimate for 40 Nos US\$=¥120 LC: US\$ Fabrication of Steel bar Unit Cost Basic Price Total Work Item No Unit Quantity Amount in Labor Equipment Material FC LC YEN FC LC FC LC FC LC 1 Material 406.80 692 82987 Steel bar D10-D13 1.7 ton 14 1,660 0.03 406.8 Wasted " ton 10 1220 25 0.407 Small size steel 1,890 16 7.5 2.1 Welding rod 1.5 122 14,681 82 Fuel Truck crane 16t day 55 6,602 1.5 37 Generator 45KVA day 854 109,041 Sub Total 2 Labor 57 6,876 38.2 Foreman manday 1.5 13,728 114 14.3 Labor manday 8.0 50 5,940 33. Welder manday 1.5 5,940 33 50 1.5 Truck crane 16t 5,940 33 50 1.5 Generator 45KVA day 38,424 320 Sub Total 3 Equipment 9,480 14,220 14,220 1.5 Truck crane 16t dayunit 1,620 1,620 1,080 1.5 Generator 45KVA dayunit 405 270.00 405 1,5 Bar Cutter day.unit 405 405 270,00 day.unit 1.5 Bar Bender 16,245 16,650 Sub Total Total 16,245 1,174 164,115 Unit Price per No. 406.13 29,35 4102.86 15% 60.92 4.40 615.43 INDIRECT COST 467 33,75 4,718 TOTAL

UNIT FC: YEN

LC: US\$ Production of Stacking Plate Total estimate for 40 Nos US\$=¥120 Basic Price Unit Cost Total Work Item Unit Quantity No Labor Material Equipment Amount in FC FC LC . FC YEN LC FC LC LC 1 Material 75.00 900 108000 Ready mixed concrete m3 -12 Wasted " (1.5%) 2,160 75.0 18 m3 . 0.2 13440 Metal form bottom m2 56 2.0 112 27,456 229 Metal form side m2 44 5.2 Fuel Truck crane 16t day 82 122 14,681 1,5 55 6,602 37 Generator 45KVA day 1.5 Sub Total 1.381 172,339 2 Labor 38.2 57 6,876 Foreman manday 1.5 25,740 Labor manday 15.0 14.3 215 Truck crane 16t day 1.5 33 50 5.940 Generator 45KVA day 1.5 33 50 5,940 44,496 Sub Total 3 Equipment Truck crane 16t 9,480 14,220 14,220 dayunit 1.5 1,620 Generator 45KVA dayunit 1.5 1,080 1,620 3.0 135.60 407 407 Vibrator day.unit Sub Total 16,247 16,247 Total 16.247 1.752 233,082 Unit Price per No. 406.17 43.80 5827.05 15% INDIRECT COST 60.93 6.57 874.06 TOTAL 467 50.37 6,701

UNIT FC: YEN

Total estimate for 40 Nos

US\$=¥120

Placing of Stacking Plate

LC: US\$ Basic Price Unit Cost Total Work Item Unit Quantity Nο Amount Labor Equipment in Material LC LC FC LÇ FC LC FC FC YEN 1 Material 82 130 15,660 Fuel Truck crane 16t 1.6 day 8,310 43 69 Truck 8t 1,6 day 130 23,969 Sub Total 2 Labor 61 7,334 1.6 38.2 Foreman manday 229 27,456 16.0 14.3 Labor manday 6,336 53 33 Truck crane 16t day 1.6 53 6,336 Truck 8t day 1.6 47,462 396 Sub Total 3 Equipment 15,168 9,480 15,168 dayunit Truck crane 16t 1.6 5,568 5,568 1.6 3,480 Truck 8t dayunit 20,736 20,736 Sub Total Total 20,736 526 92,168 518.40 Unit Price per No. 2304.19 13.15 INDIRECT COST 15% 77.76 1,97 345.63 596 2,650 15.12 TOTAL

UNIT.

2G0706

	Concrete stacking plate type-D				LC: US\$	Total estimate fo	r 28 Nos	US\$ <u>=</u> ¥125
No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total
						Amount		in
				FC	LC	FC	LC	YEN
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
et take ka	Total					41,473.31	2,200.52	316,538.29
				Unit Price per N	o.	1,481	78,59	11,305

LA UNION PORT DEVELOPMENT PROJECT 2G070601 Fabrication of Steel bar

UNIT FC: YEN LC: US\$

	Fabrication of Steel bar						LC: US\$:	Total estimate		US\$=¥128
No	Work Item	Unit	Quantity			Basic	Price			Unit	Cost	Total
	· ·			Ma	aterial	La	bor	Equip	ment	Amo	unt	in
	·			FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material											
	Steel bar D10-D13	ton	0.8	0	406.80					0	313	3915
	Wasted " (2%)	ton	0.02	0	406.8	· }					6	78:
	Small size steel	kg	11	0	0.407		* .			0	4	55
	Welding rod	kg	3.4	0	2.1					0	. 7	89
	Fuel Truck crane 16t	day	1	. 0	82					0	82	10,19
	" Generator 45KVA	day	1	0	37					0	. 37	4.58
	Sub Total									0	413	56,16
2	Labor											
	Foreman	manday	1			0	38.2	·		0	38	4,77
	Labor	manday	5			o	14.3			0	72	8, 9 3
	Welder	manday	1		<u> </u>	0	33				33	4,12
	Truck crane 16t	day	1			0	33	·		0	33	4.12
	Generator 45KVA	day	1			0	33			ļo ļ	33	4,12
	Sub Total									0	209	26,08
3	Equipment											
	Truck crane 16t	dayunit	1			ĺ		9,875	. (9,875	0	9,87
	Generator 45KVA	dayunit	1					1,125	. (1,125	- 0	1,12
	Bar Cutter	day.unit	1	•				281.25	(281	0	28
	Bar Bender	day.unit	1					281.25	ָ ר	281	0	28
	Sub Total] . [ŀ					11,281	0	11.56
		<u> </u>		· · · · · · · · · · · · · · · · · · ·	<u> </u>							
			4					Total		11,281	621	93,81
						· · · · · · · · · · · · · · · · · · ·		Unit Price		402.90	22.19	3350.6
	INDIRECT COST								15%		3.33	502.6
	TOTAL									463	25.52	3,85

UNIT

FC: YEN

Total estimate for 28 Nos Production of Stacking Plate LC: US\$ US\$=¥125 Unit Cost Basic Price Total Work Item Unit Quantity Material Labor Equipment Amount in FC LC YEN FC LC FC LC FC LC Material 450 56250 75.00 Ready mixed concrete Wasted " 1,125 (1.5%)m3 75.0 Metal form bottom m2 28 2.0 7000 5.2 120 14,950 m2 23 Metal form side 82 10,195 82 Fuel Truck crane 16t 1.0 day 37 4,585 Generator 45KVA 1.0 37 day 94,105 716 Sub Total 2 Labor 38.2 4,775 Foreman manday 143 17,875 manday 10 14.3 Labor 33 4,125 Truck crane 16t day 4.125 33 Generator 45KVA day 247 30,900 Sub Total 3 Equipment 9,875 9,875 9,875 Truck crane 16t dayunit 1,125 1,125 1,125 Generator 45KVA dayunit 283 141.25 283 Vibrator day.unit 11,283 Sub Total 11,283 136,288 Total 11,283 963 Unit Price per No. 34,41 4867.41 402.95 15% 730.11 INDIRECT COST 60.44 5.16 463 39.57 5,598 TOTAL

UNIT FC: YEN

	Placing of Stacking Plate	9					LC: US\$	·		Total estimat	e for 28 Nos	US\$=¥125
No	Work Item		Quantity			Bas	ic Price			Unit	Cost	Total
	` ·		ΙΓ	Mat	terial	L	abor	Equip	ment	Am	ount	in
	· _			FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material											•
	Fuel Truck crane 16t	day	1]	0	82					0	82	10,19
	" Truck 8t	day	1	0	43					0	43	5,41
	Sub Total									0	82	15,60
				i								
2	Labor			1			4	·				
	Foreman	manday	1	•		0	38.2		ļ	0	38	4,77
	Labor	manday	10		*.	. 0	14.3		1	0	143	17,87
	Truck crane 16t	day	1			0	33	1	1	0	33	4,125
	Truck 8t	day	1 1	•		0	33	·	ļ	0	33	4,12
	Sub Total		1	1						0	247	30,90
		1					•					
3	Equipment							ļ .				
	Truck crane 16t	dayunit	1		tt s			9,875		9,875	이	9,87
	Truck 8t	dayunit	1					3,625	i (3,625	0	3,625
	Sub Total		<u> </u>		·					13,500	0	13,500
								<u> </u>	<u> </u>			
	· ,							Total		13,500		60,00
		· .						Unit Price p		482.14		2143.04
	INDIRECT COST								15%			321.46
	TOTAL									554	13.50	2,464

UNIT

2G0707
Concrete stacking plate type-E

	Concrete stacking plate type-E				LC: US\$	Lotal estimate to	r 56 Nos.	US\$=¥120
No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total
						Amount		in
		[[[FC	LC	FC	LC	YEN_
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 N	0.	1,066	57.39	7,954

UNIT FC: YEN

Total estimate for 56 Nos LC: US\$ US\$=¥120 Fabrication of Steel bar Basic Price Work Item Unit Cost Total No Unit | Quantity Amount Material Labor Equipment in LC FC LC YEN FC LC FC LC FC 1 Material Steel bar D10-D13 1,1 406.80 447 53698 ton 406.8 1,074 Wasted " (2%) 0.02 ton 0.407 781 Small size steel kg 16 4.9 1,235 2.1 10 Welding rod kg 1.5 82 122 14,681 Fuel Truck crane 16t day 37 55 6,602 Generator 45KVA 1.5 78,071 Sub Total 596 2 Labor 6,876 1.5 38.2 57 Foreman manday 13,728 8.0 14.3 Labor manday 114 1.5 33 50 5,940 Welder manday 1.5 33 50 5,940 Truck crane 16t day 50 5,940 Generator 45KVA day 1.5 320 38,424 Sub Total 3 Equipment 14,220 9,480 14,220 Truck crane 16t 1.5 dayunit 1.5 1,080 1,620 1,620 Generator 45KVA dayunit day.unit 1.5 270.00 405 405 Bar Cutter 1.5 270.00 405 405 day.unit Bar Bender 16,245 16,650 Sub Total Total 16,245 133,145 916 Unit Price per No. 16.35 2377.58 290.09 43.51 INDIRECT COST 15% 2.45 356.64 TOTAL 334 18.81 2,734

UNIT FC: YEN

LC: US\$ Total estimate for 56 Nos Production of Stacking Plate US\$=¥120 **Basic Price** Unit Cost Total Nο Work Item Unit | Quantity Material Labor Equipment Amount in FC LC YEN FC LC FC LC FC LC 1 Material 600 72000 Ready mixed concrete 75.00 Wasted " (1.5%)12 1,440 m3 0.1 75.0 39 78 9360 Metal form bottom m2 2.0 39 203 24,336 Metal form side m2 5.2 Fuel Truck crane 16t 1.5 82 122 14,681 day Generator 45KVA 1.5 55 6,602 day 1,015 128,419 Sub Total 2 Labor Foreman 1.5 38.2 57 6,876 manday Labor 15 14.3 215 25,740 manday 33 50 5,940 Truck crane 16t 1.5 day 33 1.5 50 5,940 Generator 45KVA day 44,496 Sub Total 371 3 Equipment Truck crane 16t 9,480 14,220 14,220 dayunit 1.5 1.5 1,620 Generator 45KVA 1,620 dayunit 1,080 3.0 135.60 407 407 Vibrator day.unit 16,247 16,247 Sub Total Total 189,162 16,247 1,386 Unit Price per No. 24.75 290,12 3377.89 15% 506.68 INDIRECT COST 43.52 3.71 TOTAL 334 28.46 3.885

UNIT FC: YEN

LC: US\$ Total estimate for 56 Nos Placing of Stacking Plate US\$=¥120 Work Item Basic Price Unit Cost Total Unit Quantity No Amount in Material Labor Equipment YEN FC LC FC LC FC LC LC FC 1 Material 122 14,681 Fuel Truck crane 16t day 1.5 82 65 7,790 Truck 8t 1.5 43 day 122 22,471 Sub Total 2 Labor 6,876 57 38.2 Foreman manday 1.5 14.3 215 25,740 15 Labor manday 50 1.5 33 5,940 Truck crane 16t day 5,940 33 50 1.5 Truck 8t day 371 44,496 Sub Total 3 Equipment 9,480 14,220 14,220 1.5 Truck crane 16t dayunit 3,480 5,220 5,220 Truck 8t dayunit 1.5 19,440 19,440 Sub Total 493 86,407 Total 19,440 Unit Price per No. 347,14 8.81 1542.99 1.32 INDIRECT COST 15% 52.07 231.45 10.13 1,774 TOTAL

2G09

	Curb type 1				: US\$	Total estimate for 37	00 <u>m</u>	US\$=¥120
No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total
						Amount		in
	.	[FC	LC	FC	LC	YEN
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		٠.			191,620	34,443.08	4,324,790
<u> </u>		<u> </u>						
				Unit Price per m		52	9.31	1,169

	Production of Curb			,			LC: US\$			Total estimate	for 3700 m	US\$=¥120
No	Work Item	Unit	Quantity			Basic	Price			Unit	Cost	Total
	}			Mat	erial:	L	abor	Equipr	nent	Am	ount	in
				FC _	LC	FC	LC	FC	LC	FC	LC	YEN
1	Materia!										1	
	Ready mixed concrete	m3	209.50	0	70.00			·		0	14,665	1,759,80
	Wasted concrete(1.5%)	m3 .	3,14	0	70,00					0	220	26,39
	Formwork	sq.m	2960	0	1.10	·				. 0	3,256	390,72
	Fuel Truck with crane 8t	day	12	0	61					0	737	88.38
	" Generator 45KVA	day	12	0	24		•			0	285	34,21
	Sub Total		1							- 0	19,163	2,299,51
2	Labor										· ·	-
	Foreman	man.day	12	[*.	0	38.20	ļ ·		0	458	55,00
	Labor	man day	120			0	14.30			0	1,716	205,92
	Truck with crane 8t	man.day	1	.		· 0	33	1	-	0	396	47,52
	Generator 45KVA	man.day	1 1			0	33			0	396	47.52
	Sub Total		1					1		0	2,966	355,96
. 3	Equipment											
	Truck with crane 8t	day	12	ļ				5,520	0	66,240	0	66,24
	Generator 45KVA	day	12		•			1,080	0	12,960	0	12,96
	Vibrator	day	12					120	0	1,440	0	1,44
	Sub Total									80,640	0	80,64
	1000 1000					<u> </u>	······································	Total		80,640	22,129	2,736,12
1.1								Unit Price	per m	21.79		739.4
	INDIRECT COST								15%		0.90	110.9
	TOTAL									25	6.88	85

2G0902
Placing of ourb

	Placing of curb					·	LC: US\$	· · · · · · · · · · · · · · · · · · ·		Total estimat	e for 3/00 m	US\$=¥120
No	Work Item	Unit	Quantity			В	asic Price			Unit	Cost	Total
			[Mat	erial	L.	abor	Equip	ment	Am	ount	in
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material			· ·				<u> </u>				
	Mortar	m3	12.6	. 0	75.00		}	,	Ì	0	945	113,400
	Fuel Truck with crane 8t	day	15	0	61		1	<u> </u>		. 0	921	110,484
	" Tampa	day	15	0	2		Į		ļ	0	25	2,970
	Sub Total		1							0	1,890	226,854
2	Labor		'	·								•
	Foreman	man.day	30			0	38.20	1	ĺ	0	1,146	137,520
	Labor	man.day	300			. 0	14.30		[0	4,290	514,800
	Truck with crane 8t	man.day	15	100		0	33			0	495	59,400
	Tampa	man.day	15			0	· 14	[0	. 215	25,740
	Sub Total]		j ·	. 0	5,931	737,460
3	Equipment											
	Truck with crane 8t	day	15					5,520	(82,800	0	82,800
	Tampa	day	15					212	(3,186	0	3,186
	Sub Total									85,986	0	85,986
_								Total		85,986	7,821	1,050,300
		·						Unit Price po	erm	23.24	2.11	283.86
	INDIRECT COST								1 5%	3,49	0.32	42.58
	TOTAL									27	2.43	326

	Curb type 2			LC	: US\$	Total estimate for 20	00 m	US\$=¥120
No	Work Item	Unit	Quantity	Basic Price		Unit Cost		Total
}		1.				Amount		in
				FC	LC	FC	LC	YEN
2G1001	Production of curb	M	2000	23.18	6.30	46,368.00	12,596,57	1,557,956.52
2G1002	Placing of Curb	М	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
<u> </u>								
		-	U	Init Price per m		56	10.01	1,258

	Production of Curb	•					LC: US\$			Total estimate	for 2000 m	US\$=¥120
No	Work Item	- Unit	Quantity			Basic	Price			Unit	Cost	Total
		ļ ·		Ma	iterial	L	abor	Equip	ment		ount	in
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
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		1		1	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] · o	143	17,107
	Sub Total				. '					0	9,470	1,136,441
	Labor	1										
	Foreman	man.day	6		2	0	38.20)		0	229	27,504
	Labor	man.day	1 3			l 0	14,30		}	0	858	102,960
	Truck with crane 8t	man.day	}			0	33	1		0	198	23,760
	Generator 45KVA	man.day					33			o	198	23,760
	Sub Total							i		0	1,483	177,984
. 3	Equipment		1								,	. •
	Truck with crane 8t	day	6	:				5,520	l o	33,120	0	33,120
1 . !	Generator 45KVA	day	6			:		1,080	1	6,480	i i	6,480
_	Vibrator	day	6					120	1	- 720	1	720
l	Sub Total	,]		·					40,320	1	40,320
L	[J	<u>-</u>		<u> </u>			Total		40,320		1,354,745
					* .			Unit Price	per m	20.16	5.48	677.37
	INDIRECT COST		· · · · · ·					······································	15%			101.61
	TOTAL							·····		23		779

2G1002

	Placing of curb						LC: US\$			Total estimat	e for 2000 m	US\$=¥120
No	Work Item	Unit	Quantity			В	asic Price			Unit	Cost	Total
		1	i L	Mate	eria(- (abor	Equip	ment	Am	ount	in
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material							1				
	Excavation	m3	300	82.8	1.58	. '				24840	474	24,840
i i	Backfill	m3	165	84	7.38			1		13860	1,218	13,860
	Mortar	m3	25	0	75				Į.	0	1,875	225,000
	Fuel Truck with crane 8t	day	10	Ü	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		441	0	764	91, 6 80
	Labor	man.day	200		İ	0	14.30		i .	0	2,860	343,200
	Truck with crane 8t	man.day	10			0	33		1	0	330	39,600
	Tampa	man day	10		.		14		ĺ	0	143	17,160
	Sub Total									(o	3,954	491,640
3	Equipment	1										
	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					1 4 2				57,324	0	57,324
								Total	· ·	57,324	6,459	849,600
· .	<u> </u>							Unit Price p	er m	28.66	3.23	424.80
	INDIRECT COST								15%	4.30	0.48	63.72
	TOTAL									33	3.71	489

2G11

	Curb type 3				LC: US\$	Total estimate for 11	00 m	US\$=¥120
No	Work Item	Unit	Quantity	Basic Price	· · · · · ·	Unit Cost		Total
						Amount		. in
		. I [FC	LC	FC	LC _	YEN
2G1101	Production of curb	. M	1100	42.15	9.70	46,368.00	10,673.71	1,327,212.93
2G1102	Placing of Curb	М	1100	35.96	3.97	39,553.56	4,370.67	564,033,60
	Total		*	1		85,921.56	15,044.37	1,891,246.53
		<u> </u>						
				Unit Price per m		78	13.68	1,719

	Production of Curb						LC: US\$			Total estimate	for 1100 m	US\$=¥120
No	Work Item	Unit	Quantity			Basic	Price			Unit (Cost	Total
				Mate	rial	Ļ	abor	Equip	ment	Amo	unt	ín
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
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			1		0	91	10,949
	Formwark	sq.m	1012	o	1.10					0	1,113	133,584
	Fuel Truck with crane 8t	day	6	0	61					٥	368	44,194
	" Generator 45KVA	day	6	0	24					0	143	17,107
	Sub Total	1					•			0	7,798	935,794
2	Labor	1			}] .	}		ļ	
	Foreman	man.day	6			0	38.20	1		o	229	27,504
	Labor	man.day	60			0	14.30	ļ		o	858	102,960
	Truck with crane 8t	man.day	1 1			o	33			0	198	23,760
	Generator 45KVA	man,day	1 1	•	Ī	0	33			.0	198	23,760
	Sub Total				j				!	. 0	1,483	177,984
3	Equipment		1]			
Ī	Truck with crane 8t	day	6		ļ			5,520	0	33,120	0	33,120
	Generator 45KVA	day	6	i				1,080	0	6,480	o	6,480
	Vibrator	day	6		*			120	0	720	o	720
	Sub Total		1							40,320	0	40,320
	1000 1000		<u> </u>		· · · · · · · · · · · · · · · · · · ·		<u> </u>	Total		40,320	9,281	1,154,098
-				,				Unit Price	per m	36.65	8.44	1,049.18
	INDIRECT COST		· · · · · · · · · · · · · · · · · · ·						15%	5.50	1.27	157.38
	TOTAL									42	9.70	1,207

2G1102

	Placing of curb						LC: US\$		·	Total estimate	e for 1100 m	US\$=¥120
No	Work Item	Unit	Quantity			В	asic Price			Unit	Cost	Total
				Mate	rial	L	abor	Equip	ment		ount	in
	l. L			FC	LC_	FC	LC	FC	LC	FC	LC	YEN
1	Material		- 7			,						
!	Excavation	m3	165	82.8	1.58					13662	261	13,662
	Backfill	m3	90	84	7.38			!	ļ	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	r de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co		. .		0	10	1,188
	Sub Total					l .				(o	1,428	171,382
2	Labor											1
	Foreman	man.day	12	. 1	- [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		ļ	0	33			0	198	23,760
	Tampa	man.day	6	- 1	ĺ	0	14	1		0	86	10,296
. 1	Sub Total									o	2,372	294,984
3	Equipment	}	}			,			ļ		}	
	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
								Total		34,394	3,801	500,760
								Unit Price pe	er m	31.27	3.46	455.24
	INDIRECT COST								15%	4.69	0.52	68.29
	TOTAL			. —						36	3.97	524

2G12

	Traffic Marking				•	•	LC: US\$			Total estimate	e for 150 m2	US\$=¥120
No	Work Item	Unit	Quantity			Bas	sic Price			Unit	Cost	Total
					terial	L	abor	Equip	ment	Am	ount	in
		l		FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material								1			
	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				[O	165	19,800
1	Propane gass	kg	40	0	0.80		·			0	32	3,840
1	Line marker	day	1.0	0	9					0	9	1,048
	Truck 4t	day	1.0	0	14					. 0	14	1,703
	Sub Total						1		i i	0	1,113	135,244
ر ا	Labor			• .					1			
"	Foreman	man.day	1 1	,		. o	38.20		:	0	38	4,584
	Labor	man.day	1 {	:		0	14.30			0	86	10,296
	Truck 4t	man.day	1			n	33	,		O	33	3,960
	Line marker	man.day	1 !		· }	'n	33	1		0	33	3,960
	1	man.uay	'				"	1		0	157	22,800
١.	Sub Total			•			ļ <u>.</u>					
3	Equipment	1,		,	·		ĺ	2,160		2,160	n	2,160
	Truck 4t	day						489.60		490	l l	490
1	Line marker	day	'					403.00	١			
<u></u>	Sub Total	<u> </u>	<u>. </u>				L	<u> </u>	L	2,650		2,650
			•					Total		2,650		160,694
		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·		Unit Price p		17.66		1,071.29
	INDIRECT COST					<u> </u>			15%			160.69
	TOTAL									20	9.74	1,232

UNIT

2G13

	Traffic Sign Board				LC: US\$	Total estimate for LS	S	US\$=¥120
No	Work Item	Unit	Quantity	Basic	Price	Unit Co	st	Total
						Amount		in
<u> </u>				FC	LC	FC	LC	YEN
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
	<u> </u>			Unit Price per L	S	0	15,796.00	1,895,520

2H01

	Drainage concrete pipe 457mm			L(D: US\$	Total estimate for	r 100m	US\$=¥120
No	Work Item	Unit	Quantity	Basic Pi	rice	Unit ¹	Cost	Total
-						Amo	unt	in
				FC	LC	FC	LC	YEN
2H0101	Excavation & Disposal	М	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	м	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

FC: YEN

LC: US\$ Excavation & Disposal for Drainage pipe 457 mm Total estimate for 100m US\$=¥120 Work Item Unit Quantity Basic Price Unit Cost No Total Equipment Amount Material Labor in FC FC LC LC FC LC FC LC YEN 1 Material Excavation & Disposal 416 0.00 m3 95 Fuel Backhoe 0.8m3 day 143 1,5 17,170 37,789 105 315 Dump truck 10t day 3.0 458 54,959 Sub Total 2 Labor 57 Foreman man.day 38.20 6,876 1.5 man.day 86 10,296 Labor 6 14.30 1.5 50 Backhoe 0.8m3 33 5,940 man.day 11,880 33 99 Dump truck 10t man.day Sub Total 193 23,112 3 Equipment Backhoe 0.8m3 1.5 16,920 11,280 16,920 day 6,720 20,160 20,160 Dump truck 10t 3 day 37,080 Sub Total 37,080 651 37,080 115,151 Total 6.51 Unit Price per m 370.80 1,151,51 15% INDIRECT COST 55.62 172.73 0.98 TOTAL 426 7.48 1,324

•	Crushed stone for Found	ation of	Drainage	Pipe 610m	m		LC: US\$	·		Total estimat	e for 100 m	US\$=¥120
No	Work item	Unit	Quantity			Bas	ic Price			Unit	Cost	Total
		İ		Mat	erial	L	abor	Equipr	nent	Am	ount	in
	_	1		FC	LC	FC	LC	FC	LC	FC	LC	YEN
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	1,378
	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				l					0	39	4,622
-3	Equipment				İ					• •		
		day	0.3	•				11,280	0	3,384	0	3,384
٠,		day	0.3					212.40	0	63.72	이	. 64
	Sub Total									3,447,72	0	3,448
		A	·					Total		3,447.72	135	19,685
								Unit Price pe	er m	34.48	1.35	196.85
	INDIRECT COST								15%	5.17	0.20	29.50
	TOTAL									40	1.56	226

2H0103

	Lean Concreat for Drain.	age pipe	610mm				LC: US\$			Total estimate	e 100 m	US\$=¥120
No	Work Item	Unit	Quantity			Ba	sic Price			Unit	Cost	Total
			[Mate	erial .		Labor	Equip	ment	Amo	ount	ำ โท
				FC (LC	FC	LC	FC	LC	FC	, LC	YEN
1	Material			J.			1					
	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∤	o				l	o	0	. 0
	" Generator 45KVA	day	0.6	0	24			1	<u> </u>	0	14	1,711
	Sub Total			- 1	.		1		1	0	588	70,589
2	Labor			1	ļ				ļ	·		
	Foreman	man.day	0.6	İ		(38.20			0	23	2,750
-	Labor	man.day	2.4	1	[(14.30	o[· '	0	34	4,118
į	Concrete mixer 0.6m3	man day	0.6			() 3:	3		o	20	2,376
	Generator 45KVA	man.day	0.6	ł	1	. (3:	3		이	20	2,376
	Sub Total		}							0	77	9,245
3	Equipment				· .		1		}]		
	Concrete mixer 0.6m3	day	0.6		1			6,480.00	. 0	3.888	c	3,888
	Generator 45KVA	day	0.6				2	1,080	. 0	648	0	648
-	Vibrator	day	0.6	1	1		{	120	0	72	. 0	72
	Sub Total	L	<u> </u>				<u> </u>		<u> L</u>	4,608		4,608
								Total		4,608		84,441
		· .	·				<u> </u>	Unit Price p		46.08	6.65	844.41
	INDIRECT COST				·				15%		1.00	126.66
	TOTAL									53	7.65	971

2H0104

	Installation of Drainage Pi	pe 457m	ım				LC: US\$			Total estimate	e for 100m	US\$=¥120
No	Work Item	Unit	Quantity			Ва	sic Price			Uni	it Cost	Total
				Mate	rial	La	bor	Equipr	nent	Ar	nount	in
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
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	1			ł				·	0	2,599	311,833
2	Labor			ļ								
	Foreman	man.day	1.8			o	38.20			0	69	8,251
	Labor	man.day	11			o o	14.30			Ō	157	18,876
	Truck crane 16t	man.day	1.8		1	0	33			0	59	7,128
	Truck 8t	man.day	1.8		1	. 0	33			0	59	7,128
	Sub Total					į	•			0	285	34,255
3	Equipment											
	Truck crane 16t	day	1.8	1			. 1	9,480	a	17.064	0	17,064
	Truck 8t	day	1.8		•			3,480	اه ا	6,264	0	6,264
	Sub Total	1								23,328	0	23,328
								Total		23,328	2,884	369,416
	<u> </u>							Unit Price pe	er m	233.28	28.84	3,694.16
	INDIRECT COST								15%	34.99	4.33	554.12
	TOTAL									268	33.17	4,248

2H0105

	Backfill sand & Compacti	on for Di	7	e 457mm		. ' 	LC: L				Total		e for 100 m	US\$=¥120
No	Work Item	Unit	Quantity				Basic P	rice			<u> </u>		Cost	Total
	1	1	1 1	Mat	erial		Labor		Equipa	nent		An	ount	in :
				FC	LC	FC_		LC	FC_	LC		FC	LC	YEN
1	Material													
	Backfill sand	m3	373	0	4.00							0	1,492	179,040
	Wasted Backfill sand (25%)	m3	93.25	. 0	4.00		1				1	0	373	44,760
·	Fuel Backhoe 0,8m3	day	1.2	0	. 95		1					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
	Labor			:										
	Foreman	man.day	1.2			(ار	38.20				. 0	46	5,501
	Labor	man.day	, ,			(]	14,30				0	69	8,237
	Backhoe 0.8m3	man.day	1 1			. (3 3				0	40	4,752
	Tire roller 8-20t	man.day	t i				3	33		•		n	40	4,752
	Sub Total	ina,aay	'-			. `						0	154	18,490
	3 Equipment	1										Ĭ	, , ,	
	Backhoe 0,8m3	day	1.2						11,280	,		13,536	n	13,536
	Tire roller 8-20t	day	1.2				i		3,360			4,032	n]	4,032
	1	1 '	1.2				ļ		212.40	1		255	,	255
	Plate compactor	day	1.2			,	1		212,40	,]		0	
	Sub Total		اـــــــــــــــــــــــــــــــــــــ				Щ		Total		 	17,823	2,204	17,823 282,313
											 	17,823	22.04	
	INDIRECT COST								Unit Price po	er m 15%	 	178,23 26,73	3.31	2.823.13 423.47
								······································		1070	 	20.73	25.35	3,247
	TOTAL										<u> </u>	205	23.33	3,247

2H02

	Drainage concrete pipe 610mm			L	C: US\$	Total estimate for 1	100m	US\$=¥120
No	Work Item	Unit	Quantity	Basic P	rice	Unit Co	st	Total
[. [Amour	rt .	in
		_		FC	LC	FC	LC	YEN
2H0201	Excavation & Disposal	М	100	568.56	9.98	56,856	997.58	176,565
2H0202	Crushed Stone for Foundation	м	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	М	100	341.61	40.65	34,161	4,065.41	522,010
İ	Total		•			131,301	10,597.00	1,402,941
				Unit Price per m		1.313	105,971	14,029

2H0201

	Excavation & Disposal for	Drainage	pipe 610	mm			LC: US\$			Total estimate	for 100m	US\$=¥12
No	Work Item	Unit	Quantity			Ва	sic Price			Unit C	Cost	Total
				Mate	rial	L	abor	Equi	pment	Amo	unt	in
	·			FC	LC	FC	LC	FC	LC	FC	LC	YEN
. 1	Material											
	Excavation & Disposal	m3 .	665	0	0.00			i		- 0	0	
	Fuel Backhoe 0.8m3	day	2	0	95			()		0	191	22,8
	" Dump truck 10t	day	4.0	0	105			\		0	420	50,38
	Sub Total]								611	. 73,2
2	Labor									1		
	Foreman	man.day	2			0	38.20		·	0	76	9,1
٠.	Labor	man.day	8			0	14.30		•		114	13,7
	Backhoe 0.8m3	man.day	2	ĺ		0	33	f		o	66	7,9
	Dump truck 10t	man.day	4			. 0	33			ol	132	15,8
	Sub Total			. 1						l ol	257	30,8
	Equipment	1	-	• 1	. [
	Backhoe 0,8m3	day	2					11,280	. 0	22,560	0	22,5
	Dump truck 10t	day	4					6,720	. 0	26,880	o	26,8
	Sub Total				ĺ					49,440	0	49,4
	·····							Total		49,440	867	153,5
								Unit Price	per m	494.40	8.67	1,535
	INDIRECT COST								15%	74.16	1.30	230
	TOTAL									569	9.98	1,7

	Dump truck 10t Sub Total	day	4		6,720	26,880 49,440	0	26,880 49,440
<u> </u>	(555 - 155			*	 Total	49,440	867	153,535
					 Unit Price per m	494.40	8.67	1,535,35
	INDIRECT COST				15%	74.16	1.30	230.30
	TOTAL					569	9.98	1,766

	Crushed stone for Found	iation of	Drainage	Pipe 610m	m		LC: US\$			Total estimate	e for 100 m	US\$=¥120
No			Quantity			Basi	c Price			Unit	Cost	Total
				Mate	erial	La	bor	Equip	ment	Am	ount	ìn
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material											
	Crushed stone	m3	13.60	0	5.16					٥	70	8,421
	Wasted crushed stone (25%)	m3	3.40	0	5.16	1				0	18	2,105
1	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			·	ì					0	122	14,686
2	Labor				ļ							
	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		j	. 0	33			o	12	1,386
}	Sub Total			Ī	İ	ŀ				. 0	45	5,393
3	Equipment	<u> </u>				.						
1	1	day	0.35	ļ.		.		11,280	0:	3,948	o	3,948
1	Plate compactor 50kg	day	0.35		1	·		212.40	0	74.34	0	74
1	Sub Total					j				4,022.34	0	4,022
	1	·						Total		4,022.34	167	24,101
	•							Unit Price pe	er m	40.22	1.67	241.01
Γ	INDIRECT COST						, , , , , , , , , , , , , , , , , , , 		15%	6.03	0.25	36.15
\vdash	TOTAL		****		***************************************					46	1.92	277

2H0203

	Lean Concreat for Drain	age pipe	610mm					LC: US\$			Total estimat	e 100 m	US\$=¥120
No	Work Item	Unit	Quantity				Ba	sic Price			Unit	Cost	Total
			[Mat	erial		.abor	Equip	ment	Ame	ount	in
			<u> </u>	FC		LC	FC	LC	FC	LC	FC	LC	YEN _
1	Material												
1	Ready mixed concrete	m3	15.00	+.	이	65.00		ł		ł" .	. 0	975	117,000
1	Wasted concrete(1.5%)	m3	0.23	•	- 0	65.00		1	-		0	15	1,755
]	Fuel Concrete mixer 0.6m3	day	1		0	. 0			} .) 0	. 0	. 0
	" Generator 45KVA	day	1.0		0	24				1	į o	24	2,851
İ	Sub Total	1									0	1,013	121,606
2	Labor	ĺ			İ			i .			· ·		
	Foreman	man.day	1		-		0	38.2)		0	38	4,584
ł	Labor	man.day	4		- }		0	14.3)		0	57	6,864
1	Concrete mixer 0.6m3	man.day	. 1				0	3:	3		D	33	3,960
	Generator 45KVA	man.day] 1]				0	3	3		0	33	3,960
1	Sub Total] . · · ·									0	128	15,408
3	Equipment												
İ	Concrete mixer 0.6m3	day	1		1				6,480.00	0	6,480	O ₁	6,480
	Generator 45KVA	day	1						1,080	0	1,080	0	1,080
	Vibrator	day	1		-				120	0	120	. 0	120
Ĺ	Sub Total	<u> </u>		·	┙		<u> </u>		<u> </u>	·	7,680		7,680
									Total		7,680		
								·	Unit Price p		76.80		1,446.94
	INDIRECT COST									15%	11.52		217.04
l	TOTAL										88	13.13	1,664

	Installation of Drainage Pig	oe 610m	nm				LC: US\$			Total Im: 100)	US\$=¥120
No	Work Item		Quantity			В	asic Price			Un	it Cost	Total
	· -			Mate	rial	L	abor	Equipo	ment	Aı	nount	in
				FC	LC	FÇ	LC	FC	LC	FC	LC	YEN
1	Material										·	
	Drainage Pipe 610mm x 76mm	m ·	100	0	29.36					0	2,936	352,32
	Fuel Truck crane 16t	day	1.8	c)	77					. 0	138	16,53
	" Truck 8t .	day	2	0	80					0	144	17,25
	Sub Total	ĺ								o	3,218	386,113
2	Labor			1								
	Foreman	man.day	1.8	1		0	38.20		. [0	69	8,25
	Labor	man,day	11			. 0	14.30		·	. 0	157	18,87
	Truck crane 16t	man.day	1.8	- [. 0	. 33	j .		. 0	59	7,128
	Truck 8t	man.day	1.8	•		0	33			. 0	59	7,128
	Sub Total			·						O.	285	34,255
3	Equipment			1					·			
	Truck crane 16t	day	1,8	İ				9,480	. 0	17,064	0	17,064
	Truck 8t	day	1.8	l			-	3,480	o	6,264	0	6,264
	Sub Total	-								23,328	0	23,328
	5							Total		23,328	3,503	443,696
					· ·			Unit Price po	er m	233.28	35.03	4,436.96
	INDIRECT COST								15%	34.99	5.25	665.54
	TOTAL									268	40.29	5,103

2H0205

Reckell cand & Compaction for Drainage pine 610mm

	Backfill sand & Compacti			e oronnii			LC: U				Total estimate p		US\$=¥12
10	Work Item	Unit	Quantity				asic P	rice		 	Unit C		Total
	· . · .	ľ	1 -	Mate			abor		Equipn		Amo		in
	<u></u>			FC	LC L	FC	<u> </u>	LC	FC	LC_	FC _	LC LC	YEN
	Material	ĺ											
	Backfill sand	m3	594	- 0	4.00		J		,		0	2.376	285,12
	Wasted Backfill sand (25%)	m3	148,5	0	4.00		1	·				594	71,28
	Fuel Backhoe 0.8m3	day	2	0	95						0	191	22,89
	" Tire roller 8-20t	day	2.0	0	55	•			į		0	110	13,23
	" Plate compactor	day	2.0	0	4		}		ì			7	87
	Sub Total							1				3,278	393,40
2	Labor			-	1						}]	
	Foreman	man.day	2		}	C	1	38.20	j ,		0	76	9,16
	Labor	man.day	8		1	0	ı	14.30				114	13,72
	Backhoe 0.8m3	man.day	2		į	. 0		33				66	7,92
	Tire roller 8-20t	man day	2		i	. 6		33	1		o	66	7,92
	Sub Total				ľ		ľ		1		of	257	30,81
3	Equipment		l. 1									Į.	
	Backhoe 0.8m3	day	2		-				11,280	(22,560	0	22,56
	Tire roller 8-20t	day	2	. }			ł		3,360	(6,720	ol	6,728
	Plate compactor	day	2						212.40	(425	اه	42
	Sub Total		[İ						29,705	o	29,70
									Total		29,705	3,535	453,922
							-		Unit Price pe	r m	297.05	35.35	4,539.22
	INDIRECT COST									15%	44,56	5.30	680.88
	TOTAL										342	40.65	5,220

2H03

	Drainage concrete pipe 762mm			L	.C: US\$	Total estimate for	or 100m	US\$=¥120
No	Work Item	Unit	Quantity	Basic P	rice	Unit	Cost	Total
		1 1	·			Am	ount	in
				FC	LC	FC	LC	YEN
2H0301	Excavation & Disposal	М	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	М	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	м	100	341.61	53.76	34,161	5,376.41	679,330
	Total	1. 1				162,710	13,069.84	1,731,091
				Unit Price per m		1,627	130.70	17.311

2H0301

	Excavation & Disposal for	Drainage	pipe 762	mm			LC: US\$			Total estimate	for 100m	US\$=¥120
No	Work Item	Unit	Quantity			Ba	sic Price			Unit	Cost	Total
			1	Mate	erial	L	abor	Equi	pment	Amo	ount	in
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material											
	Excavation & Disposal	m3 .	931	0	0.00			•		0	. 0	, ,
	Fuel Backhoe 0.8m3	day	. 3	[· · · o[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		·		. 1					1		
	Foreman	man.day	3			0	38.20			0	115	13,752
	Labor	man.day	12]		0	14.30)	<u> </u>	l ol	172	20,592
	Backhoe 0.8m3	man.day	3	'		0	33				99	11,880
	Dump truck 10t	man.day	6			. 0	33		ļ		198	i
	Sub Total		1]]						0	385	•
	Equipment								}			
	Backhoe 0.8m3	day	3					11,280	0	33,840	0	33,840
	Dump truck 10t	day	6					6,720		40,320	0	40,320
	Sub Total	`		1			•			74,160	0	74,160
					·			Total		74,160	1,301	230,300
								Unit Price	per m	741.60	13.01	2,303.03
	INDIRECT COST								15%		1.95	345.45
	TOTAL	····································					**************************************			853	14.96	2,648

	Crushed stone for Found	dation o	Drainage	Pipe 76	2mm	·		LC:	US\$				Total estimat	e for 100 m	US\$=¥1
No	Work Item	Unit	Quantity				Ba	sic P	rice				Unit	Cost	Total
				ا	Mater	ial	L	abor		Equip	ment		Am	ount	in
				FC		LC	FC		LC	FC		LC	FC ·	LC	YEN
1	Material				Ι.								_		
	Grushed stone	m3	17.00		0	5.16							0	- 88	10,5
	Wasted crushed stone (25%)	m3	4.25		0	5.16						*	0	22	2,€
	Fuel Backhoe 0.8m3	day	0.35		0	95							0	33	4,0
!	" Plate compactor 50kg	day	0.35		0	. 4							0	. 1	1
	Sub Total]					ł		0	144	17,3
2	Labor	· ·	[Í	•					ĺ				
	Foreman	man.day	0.35				. 0	, .	38.20		ļ		0	. 13	1,6
	Labor	man,day	1.4				0		14.30		1		0	20	2,4
	Backhoe 0.8m3	man.day	0.35				0	İ	-33				0	12	1,3
	Sub Total							ļ					0	45	5,3
i	Equipment										ł				
		day	0.35		.			}		11,280		0	3,948	. 0	3,9
	Plate compactor 50kg	day	0.35							212.40		. 0	74.34	. 0	
	Sub Total] · _ · ·									ļ		4,022,34	0	4,0
										Total			4,022.34	189	26,7
							4 - V			Unit Price p	er m		40.22	1.89	267
	INDIRECT COST											15%	6.03	0.28	40
	TOTAL			·									46	2.18	3

	Lean Concreat for Drain	age pip€	762mm				LC: US\$			Total estimat	e 100 m	US\$=¥120
No	Work Item	Unit	Quantity			Bas	ic Price			Unit	Cost	Total
				Mat	erial	L	abor	Equip	ment	Amo	ount	in
	<u> </u>			FC	LC	FC	LC	FC_	LC	FC	LC	YEN
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	o		ĺ		{	0	0	(
	" Generator 45KVA	day	1.0	0	24					0	24	2,851
	Sub Total	1]) o	1,508	180,984
2	Labor			1					•			
	Foreman	man.day] . 1			0	38.20	•		0	38	4,584
	Labor	man.day	4	ì	ĺ	ס י	14.30	•	{	0	57	6,864
	Concrete mixer 0.6m3	man.day	1	1		0	33	•		o	33	3,960
,	Generator 45KVA	man.day	1			0	33		}	} o	33	3,960
	Sub Total	ļ	.	ļ			·		}	0	128	15,408
3	Equipment	ł		1	, ,		•			1		
	Concrete mixer 0.6m3	day	1	}				6,480,00		6,480	0	6,480
	Generator 45KVA	day	1	ł	ļ		•	1,080	0	1,080	0	1,080
	Vibrator	day	1					120	o c	120	0	120
	Sub Total									7,680	0	7,680
								Total		7,680	1,637	204,072
							- -	Unit Price pe	er m	76.80		2,040.72
	INDIRECT COST								15%	11.52	2.45	306,11
	TOTAL									88	18.82	2,347

2H0304

	Installation of Drainage Pi	pe 762m	nm				LC: US\$			Total Im: 100) <u> </u>	US\$=¥120
No	Work Item	Unit	Quantity			E	Basic Price			Uni	t Cost	Total
	· ·			Mate	rial		Labor	Equip	ment	Ar	nount	in
l				FC	LC	FC	LC	FC	LC	FC	LC _	YEN
1	Material											
	Drainage Pipe 914mm x 102mr	m	100	0	29.36			1		0	2,936	352,320
	Fuel Truck crane 16t	day	2	0	77	. 1				0	153	18,374
İ	" Truck 8t	day	2	0	80					0	160	19,174
	Sub Total	1	1 1	. [· 1			i i		0	3,249	389,868
2	Labor		1								·	
	Foreman	man.day	2	1			38.20			0	76	9,168
ĺ	Labor	man.day	12			(14.30			o	172	20,592
	Truck crane 16t	man.day	. 2			1	33			0	66	7.920
	Truck 8t	man.day	2				5∤ 33			o	66	7.920
	Sub Total			1	.					o	314	37,680
3	Equipment		1	}	l							
	Truck crane 16t	day	2	1				9,480	0	18,960	0	18,960
ĺ	Truck 8t	day	2					3,480	0	6,960	. 0	6,960
l	Sub Total									25,920	0	25,920
								Total		25,920	3,563	453,468
								Unit Price po	er m	259.20	35.63	4,534.68
	INDIRECT COST								15%	38.88	5.34	680.20
	TOTAL						,			298	40.97	5,215

2H0305

	Backfill sand & Compacti			e 762mm			LC: US\$			Total estimate		US\$=¥12
40	Work Item	Unit	Quantity				asic Price	 :			t Cost	Total
- 1		1	1 -		erial		abor	Equip			ount	in
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
_ 1	Material						l .					
. 1	Backfill sand	m3	822	0	4.00		[1		0	3,288	394,56
	Wasted Backfill sand (25%)	m3	205.5	. 0	4.00		1			0	822	98,64
	Fuel Backhoe 0.8m3	day ·	2	0	95	•]]		0	191	22,89
1	" Tire roller 8-20t	day	2.0	0	55					0	110	13,23
	" Plate compactor	day	2.0	0	4	•				. 0	7	. 87
	Sub Total						}	} .		0	4,418	530,20
2	Labor		,									
	Foreman	man.day	2			0	38.20	i .		0	76	9,16
- 1	Labor	man.day	√ 8 <u> </u>			o	14.30	1		٥	114	13,72
	Backhoe 0.8m3	man.day	/ 2			0	33			0	66	7,92
Ì	Tire roller 8-20t	man.day	2			O	33		٠	o	66	7,92
- 1	Sub Total		[]					.		0	257	30,81
3	Equipment										į	•
	Backhoe 0.8m3	day	2				ļ	11,280	0	22,560	• O	22,56
- 1	Tire roller 8-20t	day	2	:				3,360	0	6,720	0	6.72
ļ	Plate compactor	day	2					212.40	0	425	0	42
	Sub Total	<u></u>					<u></u>		Ĺ	29,705		29,70
		· · · · · · · · · · · · · · · · · · ·						Total		29,705	4.675	590,72
				·		· · · · · · · · · · · · · · · · · · ·		Unit Price pe	er m	297.05	46.75	5,907.2
	INDIRECT COST								15%	44.56	7.01	886.0
	TOTAL									342	53.76	6,79

2H04

•	Drainage concrete pipe			Į.	_C: US\$	Total estimate fo	r 100m	US\$=¥120
No	Work Item	Unit	Quantity	Basic I	Price	Unit (Cost	Total
,						Amo	unt	in
				FC	LC	FC	LC	YEN
2H0401	Excavation & Disposal	М	100	653.84	11.47	65,384	1,147.22	203,050
2H0402	Crushed Stone for Foundation	М	100	52.87	2.54	5,287	253.71	35,732
2H0403	Lean Concrete	М	100	105.98	24.94	10,598	2,493.71	309,843
2H0404	Installation Drainage Pipe	М	100	298.08	95.18	29,808	9,518.44	1,172,020
2H0405	Backfill Sand & Compaction	М	100	427.01	48.78	42,701	4,877.64	628,017
	Total					153,778	18,290.71	2,348,663
				Unit Price per m	1.	1,538	182.91	23,487

	Excavation & Disposal for	Drainage	pipe 914	mm				LC: US\$			Total estimate	for 100m	US\$=¥120
No	Work Item	Unit	Quantity				Ва	sic Price			Unit	Cost	Total
					Mate	rial	Ĺ	abor	Equi	pment	Amo	unt	in
				FC	; [LC	FC	LC	FC	LC	FC	LC	YEN
1	Material												
	Excavation & Disposal	m3	737		0	0.00				İ	0	0	0
	Fuel Backhoe 0,8m3	day	2.3		0	95		ĺ	<u> </u>	i i		219	26,328
	" Dump truck 10t	day	4.6		0	105				l	0	483	57,943
	Sub Total										0	702	84,271
2	Labor								.			1	
1	Foreman	man.day	2.3			}	o	38.20		1		88	10,543
	Labor	man.day			1		. 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		,		.							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	i '	1 . t	0	30,912
	Sub Total				- 1				1,1		56,856	0	56,856
L	13-5								Total		56,856	998	176,565
	e.	-							Unit Price	e Derm	568.56	9.98	1,765.65
	INDIRECT COST		~,							15%		1.50	264.85
	TOTAL										654	11.47	2,031

2H0402

Νo	Grushed stone for Found Work Item	,	Quantity	Pipe 914m	m	Bas	LC: US\$			Total estimate Unit		US\$=¥120 Total
140	WOLK ICC.	01112	audinary	Mate	erial		abor	Equipr	nent	Amo		in
	1			FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material	:					,					
	Crushed stone	m3	20.10	0	5.16					0	104	12,44
	Wasted crushed stone (25%)	m3	5.03	0	5.16				•	0	26	3,11
	Fuel Backhoe 0.8m3	day	0.4	0	95				* .	0	38	4,579
	" Plate compactor 50kg	day	0.4	0	4		;			0	1	17
	Sub Total	-								0	169	20,31
2	Labor	}			l					1	ļ	
		man.day	0.4		1	0	38.20	Ì		0	15	1,83
	Labor	man.day	1.6			o	14,30			0	23	2,746
	Backhoe 0.8m3	man.day	0.4			0	33			0	13	1,58
	Sub Total		1							0	51	6,163
3	Equipment				ĺ	•						
	Backhoe 0.8m3	day	0.4					11,280	0	4,512	0	4,512
	Plate compactor 50kg	day	0.4	٠.	,			212.40	٥	84.96	0	8!
	Sub Total	1	<u> </u>							4,597	0	4,597
								Total		4,597	221	31,071
								Unit Price pe	rm	45.97	2.21	310.71
	INDIRECT COST								15%	6,90	0.33	46.61
	TOTAL									53	2.54	357

Lann Congress for Drainage sine 914mm

	Lean Concreat for Drain	age pipe	914mm				LC: US\$			Total estimate	100 m	US\$=¥120
No	Work Item	Unit	Quantity			Bas	sic Price			Unit (Cost	Total
		j	[Mat	erial	1_	abor	Equip	ment	Amo	unt	in
		<u> </u>		FC	LC	FC	LC	FC	LC	FC	LC	YEN
. 1	Material								1. 1			
	Ready mixed concrete	m3	30.10	0∤	65.00	}	•		1		1,957	234,780
•	Wasted concrete(1.5%)	m3	0.45	0	65.00		٠.	·		0	29	3,522
	Fuel Concrete mixer 0.6m3	day	1.2	0	0	i			·		o	
	" Generator 45KVA	day	1.2	0	24		4. *				29	3,421
	Sub Total										2,014	241,723
2	Labor									1. 1		
	Foreman	man.day	1.2	·		0	38.20			0	46	5,50°
	Labor	man.day	4.8	-		0	14.30				69	8,23
	Concrete mixer 0.6m3	man.day	1.2			0	. 33				40)	4,752
	Generator 45KVA	man.day	1 7			0	33			o	40	4,752
	Sub Total	•						-		ol	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	ol	1,296
	Vibrator	day	1.2					120		0 144	10	144
	Sub Total									9,216	o	9,216
	· · · · · · · · · · · · · · · · · · ·							Total		9,216	2,168	269,429
	· · · · · · · · · · · · · · · · · · ·			·			·	Unit Price p	er m	92.16	21.68	2,694.29
	INDIRECT COST								15	% 13.82	3.25	404.14
	TOTAL									106	24.94	3,098

2H0404

	Installation of Drainage Pi	oe 914m	nm				LC: US\$	<u> </u>		Total Im: 100		US\$=¥120
No	Work Item		Quantity			E	Basic Price			Unit	Cost	Total
	<u> </u>			Mat	erial		Labor	Equipmer	nt	Am	ount	in
٠	1		l [FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material											
	Drainage Pipe 914mm x 102mm	m	100	. 0	76.50					0	7,650	918,00
	Fuel Truck crane 16t	day	2	0	77			1		0	153	18,37
	" Truck 8t	day	2	0	80			}		0	160	19,17
	Sub Total					,		1		0	7,963	955,54
2	Labor	į										
	Foreman	man.day	2			1	0 38.20			o	76	9,16
	Labor	man.day	12			1	0 14.30	1		0	172	20,59
	Truck crane 16t	man.day	2				33	1	ł	0	. 66	7,92
	Truck 8t	man.day	2		·	1	0 33			0	66	7,92
	Sub Total									0	314	37,68
3	Equipment		1									
	Truck crane 16t	day	2				İ	9,480	0	18,960	. 0	18,96
	Truck 8t	day	2				İ	3,480	0	6,960	0	6,96
	Sub Total	<u> </u>								25,920	0	25,92
								Total	į	25,920	8,277	1,019,14
	·							Unit Price per r	n	259.20	82:77	10,191,48
	INDIRECT COST								15%	38.88	12.42	1,528.7
	TOTAL								ŀ	298	95.18	11,729

2H0405

	Backfill sand & Compact	ion for D	rainage pipe	e 914mm			LC: US\$	· · · · · · · · · · · · · · · · · · ·		Total estimate	per 100 m	US\$=¥120
No	Work Item	Unit	Quantity			Ва	sic Price			Unit (Cost	Total
				Mate	rial	L.	abor	Equip	nent	Amo	unt	in
			<u> </u>	FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material											
	Backfill sand	m3	707	٥	4.00			ļ			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	o	95					o	238	28,617
	" Tire roller 8-20t	day	2.5	. 0	55					0.	138	16,539
	" Plate compactor	day	2.5	o	4						9	1,095
	Sub Total		1	. [3,920	470,451
. 2	Labor			1	1					"		
	Foreman	man.day	2.5	ĺ		0	38.20	.]		o	96	11,460
	Labor	man.day	1 1		. [0	14.30			o	143	17,160
	Backhoe 0,8m3	man.day	2.5	. 1		C C	33			0	83	9,900
	Tire roller 8-20t	man.day	2.5	-	-	. 0	33				83	9,900
	Sub Total	. }		. 1	1		٠.			0	321	38,520
. 3	Equipment				j							
	Backhoe 0,8m3	day	2.5		-			11,280	0	28,200	0	28,200
	Tire roller 8-20t	day	2.5			1		3,360	· 0	8,400	0	8,400
	Plate compactor	day	2.5		}			212.40	0	531	ol	531
	Sub Total									37,131	o	37,131
								Total		37,131	4,241	546,102
	· · · · · · · · · · · · · · · · · · ·							Unit Price pe	r m	371.31	42.41	5,461.02
	INDIRECT COST								15%		6.36	819.15
	TOTAL									427	48.78	6,280

2H05

	Drainage concrete pipe			LC	D: US\$	Total estimate for 1	00m	US\$=¥120
No	Work Item	Unit	Quantity	Basic Pr	ice	Unit Co	st	Total
		ļ				Amour	it	in
			[FC	LC	FC	LC	YEN
2H050	1 Excavation & Disposal	M	100	852.84	14.96	85,284	1,496.37	264,848
2H050	2 Crushed Stone for Foundation	М	100	66.08	3.48	6,608	348.11	48,381
2H050	3 Lean Concrete	M	100	175.64	41.44	17,664	4,143.53	514,888
2H050	4 Installation Drainage Pipe	М	100	298.08	164.47	29,808	16,447.19	2,003,470
2H050	5 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
			T.	Init Price per m		2.077	279.67	35.637

No	Excavation & Disposal f Work Item		Quantity			Basic Price					Unit Cost	
				Mate	rial	L	abor	Equi	pment	Amoi	unt	Total in
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
. 1	Material								1			
	Excavation & Disposal	m3	986	0	0.00		·				٥	
	Fuel Backhoe 0.8m3	day	3	0	95					0	. 286	34.3
	" Dump truck 10t	day	- 6	oĺ	105		·			0	630	75.5
	Sub Total			- 1							916	109,9
2	Labor			.						}	}	
	Foreman	man.day	3			0	38.20			0	115	13,7
	Labor	man.day	12			0	14.30			0	172	20,5
	Backhoe 0.8m3	man.day	3			()	33				99	11,8
	Dump truck 10t	man.day	6			0	33		•		198	23,
	Sub Total				•					0	385	46,:
. 3	Equipment					,					<u> </u>	
	Backhoe 0.8m3	day	3	ł			1.	11,280	0	33,840	O	33,8
	Dump truck 10t	day	6			1	ļ	6,720	. 0	40,320	0	40,3
	Sub Total					L				74,160	0	74,1
								Total		74,160	1,301	230,
						·		Unit Price	per m	741,60	13.01	2,303
	INDIRECT COST								15%	111.24	1.95	345
_	TOTAL									853	14.96	2,6

	Crushed stone for Found	dation o	Drainage	Pipe 1219	mm		LC: US\$			Total estimate	US\$=¥120 Total	
No	Work Item	Unit	Quantity			Ba	sic Price			Unit		
		j		Mat	terial	Labor		Eguipi	ment	Amo	ount	in
			<u> </u>	FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material	T										
	Crushed stone	mi3	29.30	0	5.16	÷	į			. 0	151	18,14
	Wasted crushed stone (25%)	mi3	7.33	0	5.16					0	38	4,53
	Fuel Backhoe 0.8m3	day	0.5	0	95		[0	48	5,723
	" Plate compactor 50kg	day	0.5	0	4					. 0	2	2 19
	Sub Total						·			0	239	28,621
2	Labor		1						2			
	Foreman	man.day	0.5	.		0	38.20			0	19	2,292
	Labor	man,day	2		ł	0	14.30	, i		0	. 29	3,432
	Backhoe 0.8m3	man.day	0.5		ľ	. 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		L				<u> </u>			5,746,20	0	5,746
						•		Total		5,746,20	303	<u>42,</u> 071
			·					Unit Price pe	er m	57.46	3.03	420.71
	INDIRECT COST								15%	8.62	0.45	63.11
	TOTAL									66	3.48	484

FC: YEN

Lean Concreat for Drainage pipe 1219mm LC: US\$ Total estimate 100 m US\$=¥120 Unit Cost Basic Price Unit Quantity Total Work Item Material Amount Labor Equipment in FC LC FC LC FC LC FC LC YEN 1 Material Ready mixed concrete . m3 50.00 65.00 3,250 390,000 5,850 Wasted concrete(1,5%) m3. 0.75 65.00 Fuel Concrete mixer 0.6m3 day " Generator 45KVA 5,702 day 24 401,552 Sub Total 3,346 2 Labor 76 9,168 38.20 Foreman man.day 14,30 13,728 114 Labor man.day 33 66 7,920 Concrete mixer 0.6m3 man.day 7,920 Generator 45KVA 33 66 man,day Sub Total 30,816 3 Equipment 6,480.00 12,960 12,960 Concrete mixer 0.6m3 day day Generator 45KVA 1,080 2.160 2,160 day Vibrator 120 240 240 Sub Total 15.360 15,360 447.728 Total 15,360 3,603 Unit Price per m 4,477.28 153.60 36,03 INDIRECT COST 15% 23.04 5.40 671.59 TOTAL 177 41.44 5.149

2H0504

	Installation of Drainage Pi	pe 1219	mm				LC: US\$			Total Im: 100)	US\$=¥120
No			Quantity			В	asic Price			Un	Total	
				Mat	erial		_abor	Equip	ment	A	mount	in
	·			FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material											
	Drainage Pipe 1219mm x 127n	m	100	0	136.75		1		l	0	13,675	1,641,000
	Fuel Truck crane 16t	day	2	0	. 77			Į		0	153	18,374
	" Truck 8t	day	2	0	80	·		·		0	160	19,174
	Sub Total							ļ		0	13,988	1,678,548
2	Labor											
	Foreman	man.day	2			O	38.20			0	. 76	9,1 6 8
	Labor	man.day	12	•		d	14,30	i		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	}	18,960	0	18,960
	Truck 8t	day	2					3,480	0	6,960	0	6,960
	Sub Total	<u> </u>	1						<u> </u>	25,920	0	25,920
							-	Total		25,920	14,302	1,742,148
								Unit Price po	er m	259.20	143.02	17,421,48
	INDIRECT COST								15%		21.45	2,613.22
	TOTAL									298	164.47	20,035

2H0505

·	Backfill sand & Compacti	on for Di	rainage pipi	e 1219mm			LC: US\$			Total estimate	e per 100 m	US\$=¥120	
No	Work Item	Unit	Quantity			В	asic Price			Unit	Unit Cost		
				Mate	rial	l	_abor	Equipm	nent	Am	Amount		
		<u> </u>		FC	LC	FC	LC	FC	LC	FC	LC C	YEN	
1	Material							I .					
	Backfill sand	m3	736	0	4.00			1		0	2,944	353,280	
	Wasted Backfill sand (25%)	m3	184	. 0	4.00			1		0	736	88,320	
	Fuel Backhoe 0.8m3	day	4	0	95				,	0	382	45,787	
	" Tire roller 8-20t	day	4	0	55	•		1		0	221	26,462	
	" Plate compactor	day .	4	0	. 4					0	15	1,752	
	Sub Total	1.	1 1		. [[[[o	4,297	515,602	
1	Labor	1			1			1					
	Foreman	man.day	. 4			C	38.20			o	153	18,336	
1.5	Labor	man,day	16		ĺ	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		· [Ċ	33	1		0	132	15,840	
	Sub Total				- [1 1		0	514	61,632	
] 3	Equipment	1	i .					i .		ļ.			
	Backhoe 0.8m3	day	4				•	11,280	ď	45 120	0	45,120	
	Tire roller 8–20t	day	4		ĺ			3,360	0	13,440	i i	13,440	
	Plate compactor	day	4		.			212.40	0	850		850	
	Sub Total								•	59,410	0	59,410	
	<u> </u>	 .	<u> </u>				**************************************	Total		59,410	4,810	636,643	
						•	100	Unit Price pe	rm	594.10		6,366.43	
	INDIRECT COST	****							15%		7.22	954.96	
	TOTAL			 						683		7,321	

2H0601 and 2H0602

	DIVERSION CANAL TYPE A			Ł	_C: US\$	lotal estimate for	//Um	US \$ =¥120	
No	Work Item	Unit	Quantity	Basic I	Price	Unit Co	st	Total	
			[Amour	Amount		
	<u> </u>			FC	LC	FC	LC	YEN	
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	
	Total					1,206,672	83,872,70	11,271,396	
				Unit Price per m		1,567	108.93	14,638	

2H0601

	Excavation & Disposal						LC: US\$	Total estimate	US\$=¥120			
No	Work Item	Unit	Quantity			Ba	sic Price			Unit Cost		Total
1				Mate	erial	<u> </u>	abor	Equi	pment	Am	ount	în
				FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material											
	Excavation & Disposal	m3	10355	0	0.00					0	O	0
1.	Fuel Backhoe 0.8m3	day	40	0	95			į i			3,816	457,872
	" Dump truck 10t	day	80	0	105						8,398	1,007,712
	Sub Total	1					·			0	12,213	1,465,584
2	Labor	1]		i					} . }		
	Foreman	man.day	40			0	38.20			0	1,528	183,360
1	Labor	man.day	160			0	14.30				2,288	274,560
	Backhoe 0.8m3	man.day	40			0	33		•		1,320	158,400
	Dump truck 10t	man.day	80			0	33			o	2,640	316,800
1	Sub Total	1								0	5,136	616,320
3	Equipment	1							ļ			
	Backhoe 0.8m3	day	40		!	i	}	11,280	C.	451,200	0	451,200
	Dump truck 10t	day	80		•			6,720	a	537,600	0	537,600
Ĺ	Sub Total	<u> </u>								988,800	0	988,800
								Total		988,800	17,349	3,070,704
								Unit Price	e 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

	ZHU0UZ		•		-		LC: US\$		t = t = 1	Total estimate	770 m	US\$=¥1;
	Placing stone	1.1	Quantity			Rac	Unit C		Total			
No	Work Item	Unit	Quantity	5.4-	iterial		ic Price abor	Eguipn	nent	Amou		in
		·	 	FC	LC	FC	LC	FC	LC	FC	LC	YEN
1	Material	 	1		59							
	Rubble Stone	m3	1779.00	0	5.16					0	9,180	1,101,5
	Clay	m3	890.00	0	5.16		*			0	4,592	551,0
	Rubble stone (25%)	m3	44.48	0	5.16				•	0	229	27,
	Sodding	m2	5000.00	. 0	0.80					o	4,000	480,1
	Masonry cement	m3	462.00	0	65.00						30,030	3,603,
	Wasted concrete(1.5%)	m3	6.93	0	65.00	**				0	450	54,
	5	day	8	0	0					0	0	
	" Generator 45KVA	day	8	. 0	24	e i				0	190	22.
	" Truck 8t	day	8	0	80					o	639	76,
	" Plate compactor	day	8	. 0	4	· · ·	٠				29	3,
	Sub Total					'				0	49,340	5,920,
. 2	Labor] [
. –	Foreman	man.day	16	•		0	38.20	İ		0	611	73.
	Labor	man.day				0	14,30			0	4,576	549,
	Concrete mixer 0.6m3	man.day	1 i			0	33			0	264	31,
	Generator 45KVA	man.day	1 1			0	33			0	264	31,
	Truck 8t	man.day				0	33			0	264	31,
	Plate compactor	man.day				0	33				264	31,
	Sub Total										6,243	749
3	Equipment											
	Concrete mixer 0.6m3	day	8					6,480		0 51,840	0	51,
	Generator 45KVA	day	8					1,080		0 8,640	0	8,
	Truck 8t	day	8		·			3,480		0 27,840	0	27
		day	8				S .	212		0 1,699	0	1,
:	Sub Total									60,480	0	60,
	<u> </u>							Total		60,480	55,584	6,730,
			. "					Unit Price pe	rm	78.55	72.19	8,740
	INDIRECT COST			···					15	% 11.78	10.83	1,311
	TOTAL		·	****						90	83.01	10,0

2H0603

	OUTLET				LC: US\$	Total estimate for	1 LS	US \$ ≃¥120	
No	Work Item	Unit	Quantity	Basic	Price	Unit Co	ost	Total	
] .				Amou	nt	in	
				FC	LC	FC	LC	YEN	
2H0600	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			<u> </u>		37,122	6,958.17	872,103	
				Unit Price per L	S	37,122	6,958.17	872,103	

	Excavation & Disposal						LC: US\$			Total estimate	e for 1 LS	US\$=¥120
No	Work Item	Unit	Quantity			Ва	sic Price			Unit	Cost	Total
	i		ļ	Mate	ria!	L	abor	Equi	pment		Amount	
				FC	LC	FC	LC	FC	LC	FC	LC L	YEN
1	Material										Į	
	Excavation & Disposal	m3	208	0	0.00					٥	0	
	Fuel Backhoe 0,8m3	day	1	0	95			<u> </u>		0	95	11,447
	" Dump truck 10t	day	2	0	105					O	210	25,193
	Sub Total		1				*	}	' '	0	305	36,640
2	Labor											
	Foreman	man.day	1. 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	3		. 0	. 33	3,960
	Dump truck 10t	man.day	2			. 0	33	3		0	66	7,920
	Sub Total]					•		0	128	15,408
3	Equipment											
	Backhoe 0.8m3	day	1	1				11,280	. 0	11,280	0	11,280
	Dump truck 10t	day	2					6.720	0	13,440		13,440
	Sub Total	ł	!				1	<u> </u>		24,720	0	24,720
								Total		24,720	434	76,768
	the second second							Unit Price	per m	24,720.00	433.73	76,767.60
	INDIRECT COST			 		····			15%	3,708.00	65.06	11,515,14
	TOTAL			<u> </u>						28,428	498.79	88,283