JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)

THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR

FINAL REPORT

COST ESTIMATE REPORT

Civil Works

OCTOBER 2002

NIPPON KOEI CO., LTD.

THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR
FINAL REPORT
COST ESTIMATE REPORT
Civil Works
OCTOBER 2002 NIPPON KOEI

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THE DETAILED DESIGN
ON
PORT REACTIVATION PROJECT IN LA UNION PROVINCE
OF
THE REPUBLIC OF EL SALVADOR

FINAL REPORT

COST ESTIMATE REPORT

Civil Works

OCTOBER 2002

NIPPON KOEI CO., LTD.

COST ESTIMATE REPORT
THE DETAILED DESIGN STUDY

ON

LA UNION PORT DEVELOPMENT PROJECT
CIVIL WORK

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1. GENERAL

1. General

1.1 Basis of Cost Estimation

1.1.1 General

This report presents the Project cost estimate. The unit rates and prices for labor, materials, plant and equipment used in the cost estimation are based on the current price level as of June 2002.

1.1.2 Conditions for Cost Estimation

(1) **Exchange Rate**

The exchange rate used in the estimation of the Project cost is
US$ 1= ¥ 120.00 and US$ 1= ¢ 8.75

(2) **Local Currency Portion**

The local currency portion includes the following items;

a) The cost of local materials, equipment and labor for both the permanent and temporary work of the Project ;

b) The cost of local transportation, custom clearance, dealer's commissions, handling charges of agent, temporary storage, etc for imported materials and equipment ; and

c) The Contractor's overhead and profit.

(3) **Foreign Currency Portion**

The foreign currency portion includes the following items;

a)The cost of imported materials, equipment and foreign expatriates.

b)The cost of overseas transportation of imported materials and equipment (dealer's commissions, handling charges, etc.)

c)The Contractor's overhead and profit.

(4) **Taxes**

The value added tax (IVA) and the municipal tax imposed in accordance with the laws and regulations of the Government of the Republic of El Salvador are not included in the Project cost estimate.

1.1.3 Unit Rates

The availability and cost of local materials and labor at site such as stone, gravel, reclamation material, cement, skilled and skilled workers are investigated through interviews and queries from local suppliers as well as authorities concerned.

Major machinery, especially marine floating equipment is not available in the country. Hence, the required machinery for the Project is considered to be imported from abroad and their cost including mobilization/demobilization are duly incorporated in the Project cost estimate.

1.1.4 Reference Information

In preparing the unit rate analysis, the estimated costs or unit rates applied to the projects being implemented in the country and current prices of international contracts are considered as reference prices in the estimate.

1.1.5 Contractor's Working Area

A 60 ha area within the CEPA premises is considered to be made available free of charge to the Contractor.

2. BASIC DATA FOR UNIT COST ANALYSIS

2. BASIC DATA FOR UNIT COST ANALYSIS

Based upon the collected data and with reference to the current costs and prices, basic data for cost estimate have been set down as summarized below for the cost estimators in each section of the works in order to maintain consistency in estimation throughout.

2.1 Labor Wages

Please refer to Appendix 1.

2.2 Basic Construction Material Costs

Please refer to Appendix 2.

2.3 Construction Machine Operation Cost

Please refer to Appendix 3.

2.4 Indirect and Overhead Ratios

Description	*Indirect and Overhead*
Civil works	15%

3. COST ESTIMATION FOR BILL ITEMS

LA UNION PORT DEVELOPMENT PROJECT

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
SECTION 100 GENERAL REQUIREMENTS								
1A	Mobilization and Demobilization	L.S	1	313,704,130	313,704,130	781,756	781,756	407,514,850
1B	Temporary Facilities	L.S	1	15,383,623	15,383,623	147,839	147,839	33,124,303
1C	Facilities for the Employer and the Engineer	L.S	1	0	0	1,407,549	1,407,549	168,905,880
1D	Demolition and Clearance of the Site	L.S	1	2,775,774	2,775,774	48,189	48,189	8,558,454
1E	Provisional Sums	L.S	1	36,000,000	36,000,000	50,000	50,000	42,000,000
							Total for Bill No.1	660,103,487

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
1A	**MOBILIZATION AND DEMOBILIZATION**							
1A01	Mobilization of dredging fleet and associated equipment for dredging work	L.S	1.00	83,875,250	83,875,250	214,415	214,415	109,605,050
1A02	Demobilization for Item 1A01	L.S	1.00	83,875,250	83,875,250	214,415	214,415	109,605,050
1A03	Mobilization of other construction plant and equipment	L.S	1.00	81,085,350	81,085,350	196,070	196,070	104,613,750
1A04	Demobilization for Item 1A03	L.S	1.00	64,868,280	64,868,280	156,856	156,856	83,691,000
						Sub total of This Page		407,514,850
						Total of Sub. Section 1A		407,514,850

LA UNION PORT DEVELOPMENT PROJECT

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
1B	**TEMPORARY FACILITIES**							
1B01	Provision of temporary jetty	L.S	1	11,041,980	11,041,980	85,570	85,570	21,310,380
1B02	Demolition and clearance for Item 1B04	L.S	1	4,222,843	4,222,843	53,413	53,413	10,632,403
1B03	Shooting of Digital Video Films of the Project	Mon.	36	3,300	118,800	96	3,456	533,520
1B04	Compilation and submission of Digital Video Documentary Film of the Project	L.S	1	0	0	5,400	5,400	648,000
							Sub total of This Page	33,124,303
							Total of Sub. Section 1B	33,124,303

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
1C	***FACILITIES FOR THE EMPLOYER AND THE ENGINEER***							
1C01	Renovation of CEPA's temporary office	L.S	1	0	0	32,000	32,000	3,840,000
1C02	Maintenance for Item 1C01	Mon.	8	0	0	2,000	16,000	1,920,000
1C03	Construction and furnishing office for the Employer/Engineer	L.S	1	0	0	347,485	347,485	41,698,200
1C04	Maintenance for Item 1C03	Mon.	28	0	0	2,500	70,000	8,400,000
1C05	Renovation before hand-over for Item 1C03	L.S	1	0	0	19,440	19,440	2,332,800
1C06	Renovation of laboratory	L.S	1	0	0	1,600	1,600	192,000
1C07	Provision and maintenance of laboratory equipment	Mon.	36	0	0	165	5,940	712,800
1C08	Provision, maintenance and services of boats for the Engineer	Mon.	36	0	0	2,400	86,400	10,368,000
1C09	Provision of vehicles Type-A	Nos	1	0	0	37,700	37,700	4,524,000
1C10	Provision of vehicles Type-B	Nos	2	0	0	26,940	53,880	6,465,600
1C11	Provision of vehicles Type-c	Nos	6	0	0	36,550	219,300	26,316,000
1C12	Provision of vehicles Type-D	Nos	4	0	0	30,550	122,200	14,664,000
1C13	Maintenance of vehicles for Type-A,B,C and D	Mon.	36	0	0	3,614	130,104	15,612,480
1C14	Provision and maintenance of Engineer's survey equipment	Mon.	36	0	0	2,325	83,700	10,044,000
1C15	Provision and maintenance of accomodation for the Employer/Engine	Mon.	303	0	0	600	181,800	21,816,000
							1,407,549	
							Sub total of This Page	168,905,880
							Total of Sub. Section 1C	168,905,880

LA UNION PORT DEVELOPMENT PROJECT

US$=¥120

ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
1D	**DEMOLITION AND CLEARANCE OF THE SITE**							
1D01	Demolition and clearance of the building foundation and others in the project site	L.S	1	2,124,000	2,124,000	37,980	37,980	6,681,600
1D02	Demolition and clearance of the existing berth and others in theproject site	L.S	1	572,774	572,774	8,759	8,759	1,623,854
1D03	Demolition and clearance of the trees and others in the project site	L.S	1	79,000	79,000	1,450	1,450	253,000
							Sub total of This Page	8,558,454
							Total of Sub. Section 1D	8,558,454

US$=¥120

ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
1E	**PROVISIONAL SUMS**							
1E01	Additional geological, environmental and hydrographic investigati	L.S	1	36,000,000	36,000,000	0	0	36,000,000
1E02	Day work	L.S	1	0	0	50,000	50,000	6,000,000
					36,000,000		50,000	
							Sub total of This Page	42,000,000
							Total of Sub. Section 1E	42,000,000

LA UNION PORT DEVELOPMENT PROJECT

SECTION 200 CIVIL WORK

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
SECTION 200 CIVIL WORK								
2A	DREDGING WORK	L.S	1		2,601,971,709		7,760,203	3,533,196,069
2B	CONTAINER BERTH WORK	L.S	1		449,713,676		8,481,501	1,467,493,796
2C	MULTI-PURPOSE BERTH WORK	L.S	1		324,055,498		6,738,612	1,132,688,938
2D	PASSENGER BERTH WORK	L.S	1		99,431,521		240,229	128,259,001
2E	REVETMENT WORK	L.S	1		71,405,172		3,006,285	432,159,372
2F	RECLAMATION WORK	L.S	1		145,728,000		3,491,400	564,696,000
2G	PAVEMENT WORK	L.S	1		23,428,600		4,899,585	611,378,800
2H	DRAINAGE WORK	L.S	1		13,690,720		1,745,136	223,107,040
2I	NAVIGATION AIDS	L.S	1		146,185,000		26,880	149,410,600
2J	SECURITY FENCE	L.S	1		62,635		53,159	6,441,715
							Total for Bill No. 2	8,248,831,331

BOQ Section 200

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2A	**DREDGING WORK**							
2A01	Outer channel dredging (-14.5) offshore dumping	M3	3,120,000	178	555,360,000	0.41	1,279,200	708,864,000
2A02	Outer channel dredging (-14.5) onshore dumping	M3	1,040,000	199	206,960,000	0.54	561,600	274,352,000
2A03	Inner channel dredging (-14.0) offshore dumping	M3	3,352,000	192	643,584,000	0.44	1,474,880	820,569,600
2A04	Inner channel dredging (-14.0) onshore dumping	M3	1,117,000	186	207,762,000	0.51	569,670	276,122,400
2A05	Turning basin dredging (-14.0) offshore dumping	m3	2,092,000	212	443,504,000	0.49	1,025,080	566,513,600
2A06	Turning basin dredging (-14.0) onshore dumping	M3	698,000	183	127,734,000	0.50	349,000	169,614,000
2A07	Passenger turning basin	M3	70,000	212	14,840,000	0.49	34,300	18,956,000
2A08	Container berth	M3	243,000	212	51,516,000	0.49	119,070	65,804,400
2A09	Multi-purpose berth	M3	279,000	212	59,148,000	0.49	136,710	75,553,200
2A10	West revetment	M3	385,000	232	89,320,000	0.71	273,350	122,122,000
2A11	East revetment	M3	198,000	232	45,936,000	0.71	140,580	62,805,600
2A12	Reclamation area	M3	481,000	232	111,592,000	0.71	341,510	152,573,200
2A13	Temporary revetment and bund for onshore dumping	LS	1	44,715,750	44,715,750	1,455,252.66	1,455,253	219,346,069
					2,601,971,750		7,760,203	
							Sub total of This Page	3,533,196,069
							Total of Sub. Section 2A	3,533,196,069

LA UNION PORT DEVELOPMENT PROJECT

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2B	**CONTAINER BERTH WORK**							
2B01	Rubble mound of caisson							
	Rubble mound of caisson	M3	54,600	481	26,262,600	15.35	838,110	126,835,800
	Asphalt matt							
2B02	Asphalt matt	M2	7,480	12	89,760	45.17	337,872	40,634,352
	Armour stone							
2B03	Armour stone	M3	3,820	472	1,803,040	16.12	61,578	9,192,448
	Caisson production							
2B04	Caisson production	Nos	17	14,023,026	238,391,442	273,805.41	4,654,692	796,954,478
	Temporary anchoring of caisson							
2B05	Temporary anchoring of caisson	Nos	17	388,211	6,599,587	696.96	11,848	8,021,385
	Placing of caisson							
2B06	Placing of caisson	Nos	17	365,413	6,212,021	978.59	16,636	8,208,345
	Sand filling into caisson							
2B07	Sand filling into caisson	M3	84,500	368	31,096,000	6.23	526,435	94,268,200
	Cover concrete of caisson							
2B08	Cover concrete of caisson	M3	2,780	234	650,520	81.19	225,708	27,735,504
	Coping concrete							
2B09	Coping concrete	M3	5,460	460	2,511,600	125.12	683,155	84,490,224
	Apron concrete pavement							
2B10	Apron concrete pavement	M2	7,200	108	777,600	40.37	290,664	35,657,280
	Sand protection sheet							
2B11	Sand protection sheet	M	553	8,525	4,714,325	2.29	1,266	4,866,289
	Backfilling behind caisson							
2B12	Backfilling behind caisson	M3	49,100	335	16,448,500	12.76	626,516	91,630,420
					335,556,995		8,274,481	
							Sub total of This Page	1,328,494,726

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN) UNIT COST	FOREIGN CURRENCY (YEN) AMOUNT	LOCAL CURRENCY (US$) UNIT COST	LOCAL CURRENCY (US$) AMOUNT	TOTAL AMOUNT IN (YEN)
	Driving of steel pipe pile for crane rail foundation							
2B13	Driving of steel pipe pile for crane rail foundation	Nos	68	686,986	46,715,048	441.27	30,006	50,315,811
	Concrete of crane rail foundation							
2B14	Concrete of crane rail foundation	M3	1,160	374	433,840	130.13	150,951	18,547,936
	Crane rail with accessories							
2B15	Crane rail with accessories	M	670	20,286	13,591,620	21.84	14,633	15,347,556
2B16	Cable trench	L.S	1	28,201	28,201	5,086.61	5,087	638,594
2B17	Jack-up base	Nos	16	16,064	257,024	24.91	399	304,851
2B18	End stopper	Nos	4	54,553	218,212	123.12	492	277,310
2B19	Socket block	Nos	8	53,727	429,816	43.45	348	471,528
2B20	Crane anchoring frame	Nos	16	149,428	2,390,848	20.80	333	2,430,784
	Fender type A							
2B21	Fender type A	Nos	25	1,499,451	37,486,275	118.78	2,970	37,842,615
	Bollard							
2B22	Bollard	Nos	13	738,065	9,594,845	109.36	1,422	9,765,447
	Ladder							
2B23	Ladder	Nos	4	752,728	3,010,912	95.26	381	3,056,637
					114,156,641		207,020	
					449,713,636		8,481,501	
							Sub total of This Page	138,999,069
							Total of Sub. Section 2B	1,467,493,794

LA UNION PORT DEVELOPMENT PROJECT

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2C	**MULTI-PURPOSE BERTH WORK**							
	Rubble mound of caisson							
2C01	Rubble mound of caisson	M3	71,400	481	34,343,400	15.35	1,095,990	165,862,200
	Asphalt matt							
2C02	Asphalt matt	M2	5,280	12	63,360	45.17	238,498	28,683,072
	Armour stone							
2C03	Armour stone	M3	4,460	472	2,105,120	16.12	71,895	10,732,544
	Caisson production							
2C04	Caisson production	Nos	12	13,309,492	159,713,904	273,408.42	3,280,901	553,422,029
	Temporary anchoring of caisson							
2C05	Temporary anchoring of caisson	Nos	12	388,211	4,658,532	696.96	8,364	5,662,154
	Placing of caisson							
2C06	Placing of caisson	Nos	12	365,413	4,384,956	978.59	11,743	5,794,126
	Sand filling into caisson							
2C07	Sand filling into caisson	M3	59,700	368	21,969,600	6.23	371,931	66,601,320
	Cover concrete of caisson							
2C08	Cover concrete of caisson	M3	1,960	234	458,640	81.19	159,132	19,554,528
	Coping concrete							
2C09	Coping concrete	M3	6,430	460	2,957,800	125.12	804,522	99,500,392
	Apron concrete pavement							
2C10	Apron concrete pavement	M2	1,980	108	213,840	40.37	79,933	9,805,752
	Sand protection sheet							
2C11	Sand protection sheet	M	280	8,525	2,387,000	2.29	641	2,463,944
	Backfilling of caisson							
2C12	Backfilling of caisson	M3	37,200	335	12,462,000	12.76	474,672	69,422,640
					245,718,152		6,598,221	
							Sub total of This Page	1,037,504,701

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
	Driving of steel pipe pile for crane rail foundation							
2C13	Driving of steel pipe pile for crane rail foundation	Nos	44	686,986	30,227,384	441.27	19,416	32,557,290
	Concrete of crane rail foundation							
2C14	Concrete of crane rail foundation	M3	750	374	280,500	130.13	97,598	11,992,200
	Crane rail with accessories							
2C15	Crane rail with accessories	M	658	20,286	13,348,188	21.84	14,371	15,072,674
2C16	Cable trench	L.S	1	28,201	28,201	5,086.61	5,087	638,594
2C17	End stopper	Nos	2	4,353	8,706	153.59	307	45,568
2C18	Socket block	Nos	4	2,388	9,552	52.80	211	34,896
2C19	Crane anchoring frame	Nos	8	97,678	781,424	27.74	222	808,054
	Fender type A							
2C20	Fender type A	Nos	17	1,499,451	25,490,667	118.78	2,019	25,732,978
	Bollard							
2C21	Bollard	Nos	8	738,065	5,904,520	109.36	875	6,009,506
	Ladder							
2C22	Ladder	Nos	3	752,728	2,258,184	95.26	286	2,292,478
					78,337,326		140,391	
					324,055,478		6,738,612	
							Sub total of This Page	95,184,238
							Total of Sub. Section 2C	1,132,688,938

LA UNION PORT DEVELOPMENT PROJECT

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2D	**PASSENGER BERTH WORK**							
	Driving of steel pipe pile							
2D01	Driving of steel pipe pile ϕ600mm,700mm,1100mm	Nos	37	1,157,240	42,817,880	1,112.78	41,173	47,758,623
	Superstructure							
2D02	Superstructure	M3	823	3,050	2,510,150	191.98	158,000	21,470,095
	Corrosion-proof							
2D03	Corrosion-proof	Nos	43	618,112	26,578,816	391.64	16,841	28,599,678
	Catwalk							
2D04	Catwalk	Nos	2	21,722	43,444	7,795.74	15,591	1,914,422
	Fender type B and type C							
2D05	Fender type B and type C	Nos	18	933,305	16,799,490	137.91	2,482	17,097,376
	Bollard							
2D06	Bollard	Nos	7	765,795	5,360,565	95.69	670	5,440,945
	Access bridge							
2D07	Access bridge	Nos	10	5,204	52,040	480.59	4,806	628,748
	Ladder							
2D08	Ladder	Nos	7	752,728	5,269,096	95.26	667	5,349,114
					99,431,481		240,229	
							Sub total of This Page	128,259,001
							Total of Sub. Section 2D	128,259,001

LA UNION PORT DEVELOPMENT PROJECT

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2E REVETMENT								
2E01	WEST REVETMENT	M	400	128,457	51,382,620	5,428.01	2,171,203	311,926,980
2E02	EAST REVETMENT	M	250	80,090	20,022,500	3,340.33	835,083	120,232,400
					71,405,120		3,006,286	
						Sub total of This Page		432,159,380
						Total of Sub. Section 2E		432,159,380

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2E01 WEST REVETMENT

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2E01	**WEST REVETMENT**							
	Rubble stone including geotextile and leveling							
2E0101	Rubble stone including geotextile and leveling	M3	119,000	336	39,984,000	13.05	1,552,950	226,338,000
	Armour stone							
2E0102	Armour stone	M3	12,400	472	5,852,800	16.12	199,888	29,839,360
	Concrete block							
2E0103	Concrete block	M3	2,780	1,633	4,539,740	102.69	285,478	38,797,124
	Concrete wall							
2E0104	Concrete wall	M3	1,310	768	1,006,080	101.44	132,886	16,952,448
					51,382,620		2,171,203	
							Sub Total for This Page	311,926,932
							Total for Bill No. 2E01	311,926,932

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2E02 EAST REVETMENT

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2E02	**EAST REVETMENT**							
	Rubble stone including geotextile and leveling							
2E0201	Rubble stone including geotextile and leveling	M3	48,500	336	16,296,000	13.08	634,380	92,421,600
	Armour stone							
2E0202	Armour stone	M3	6,300	472	2,973,600	16.12	101,556	15,160,320
	Concrete wall							
2E0203	Concrete wall	M3	980	768	752,640	101.17	99,147	12,650,232
					20,022,240		835,083	
							Sub Total for This Page	120,232,152
							Total for Bill No. 2E02	120,232,152

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LA UNION PORT DEVELOPMENT PROJECT

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2F RECLAMATION								
2F01	Land reclamation including fill material supply	M3	1,518,000	96	145,728,000	2.30	3,491,400	564,696,000
2F02	Land reclamation by dredged materials	M3	2,855,000	0	0	0.00	0.00	0
							Sub total of This Page	564,696,000
							Total of Sub. Section 2F	564,696,000

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2G PAVEMENT								
2G01	Concrete pavement type 1 for RTG traffic lane	M2	8,600	112	963,200	44.91	386,226	47,310,320
2G02	Concrete pavement type 2	M2	71,200	107	7,618,400	40.37	2,874,344	352,539,680
2G03	Asphalt concrete pavement type 3	M2	19,000	180	3,420,000	14.91	283,290	37,414,800
2G04	Macadam pavement type 4	M2	16,000	95	1,520,000	13.69	219,040	27,804,800
2G05	Macadam pavement type 5	M2	56,000	95	5,320,000	11.24	629,440	80,852,800
2G06	Interlocking concrete block pavement type 6 for sidewalk	M2	2,600	71	184,600	10.60	27,560	3,491,800
2G07	Gravel pavement	M2	20,250	190	3,847,500	14.68	297,270	39,519,900
2G08	Topsoil and grassing	M2	13,700	0	0	3.00	41,100	4,932,000
2G09	Concrete curb type-1	M	3,600	54	194,400	9.31	33,516	4,216,320
2G10	Concrete curb type-2	M	2,000	58	116,000	10.01	20,020	2,518,400
2G11	Concrete curb type-3	M	1,100	81	89,100	13.67	15,037	1,893,540
2G12	Traffic marking	M2	7,400	21	155,400	7.74	57,276	7,028,520
2G13	Traffic sign board	LS	1	0	0	15,466.00	15,466	1,855,920
					23,428,600		4,899,585	
							Sub total of This Page	611,378,800
							Total of Sub. Section 2G	611,378,800

LA UNION PORT DEVELOPMENT PROJECT

Bill NO 2G01 CONCRETE PAVEMENT TYPE 1 FOR RTG TRAFFIC LANE

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2G01	**CONCRETE PAVEMENT TYPE 1 FOR RTG TRAFFIC LANE**							
2G0101	Subgrade preparation	M2	8,600	26.00	223,600	1.27	10,922	1,534,240
2G0102	Subbase course	M2	8,600	27.00	232,200	2.13	18,318	2,430,360
2G0103	Base course	M2	8,600	18.00	154,800	4.50	38,700	4,798,800
2G0104	Prime coating	M2	8,600	2.00	17,200	0.47	4,042	502,240
2G0105	Concrete slab	M2	8,600	39.00	335,400	36.54	314,244	38,044,680
				112	963,200	44.91	386,226	
						Sub Total for This page		47,310,320
						Total for Bill No. 2G01		47,310,320

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2G02 CONCRETE PAVEMENT TYPE 2

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2G02	**CONCRETE PAVEMENT TYPE 2**							
2G0201	Subgrade preparation	M2	71,200	26	1,851,200	1.27	90,424	12,702,080
2G0202	Subbase course	M2	71,200	27	1,922,400	2.13	151,656	20,121,120
2G0203	Base course	M2	71,200	18	1,281,600	4.50	320,400	39,729,600
2G0204	Prime coating	M2	71,200	2	142,400	0.47	33,464	4,158,080
2G0205	Concrete slab	M2	71,200	34	2,420,800	32.00	2,278,400	275,828,800
				107	7,618,400	40.37	2,874,344	
							Sub Total for This Page	352,539,680
							Total for Bill No. 2G02	352,539,680

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2G03 ASPHALT CONCRETE PAVEMENT TYPE 3

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2G03	**ASPHALT CONCRETE PAVEMENT TYPE 3**							
2G0301	Subgrade preparation	M2	19,000	26	491,720	1.27	24,130	3,387,320
2G0302	Subbase course	M2	19,000	42	794,770	4.01	76,190	9,937,570
2G0303	Base course	M2	19,000	18	349,030	3.12	59,280	7,462,630
2G0304	Prime coating	M2	19,000	2	46,740	0.47	8,930	1,118,340
2G0305	Binder course	M2	19,000	45	851,960	2.76	52,440	7,144,760
2G0306	Tack coating	M2	19,000	2	31,160	0.26	4,940	623,960
2G0307	Surface course	M2	19,000	45	851,960	3.02	57,380	7,737,560
				180	3,417,340	14.91	283,290	
							Sub Total for This Page	37,412,140
							Total for Bill No. 2G03	37,412,140

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2G04 MACADAM PAVEMENT TYPE 4

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2G04	**MACADAM PAVEMENT TYPE 4**							
2G0401	Subgrade preparation	M2	16,000	26	414,080	1.27	20,320	2,852,480
2G0402	Subbase course	M2	16,000	42	669,280	4.55	72,800	9,405,280
2G0403	Base course	M2	16,000	25	404,800	7.40	118,400	14,612,800
2G0404	Prime coating	M2	16,000	2	38,720	0.47	7,520	941,120
				95	1,526,880	13.69	219,040	
						Sub Total for This Page		27,811,680
						Total for Bill No. 2G04		27,811,680

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2G05 MACADAM PAVEMENT TYPE 5

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2G05	**MACADAM PAVEMENT TYPE 5**							
2G0501	Subgrade preparation	M2	56,000	26	1,456,000	1.27	71,120	9,990,400
2G0502	Subbase course	M2	56,000	42	2,352,000	3.48	194,880	25,737,600
2G0503	Base course	M2	56,000	25	1,400,000	6.02	337,120	41,854,400
2G0504	Prime coating	M2	56,000	2	112,000	0.47	26,320	3,270,400
				95	5,320,000	11.24	629,440	
						Sub Total for This Page		80,852,800
						Total for Bill No. 2G05		80,852,800

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2G06 INTERLOCKING CONCRETE BLOCK PAVEMENT TYPE 6 FOR SIDEWALK

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (US$)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2G06	**INTERLOCKING CONCRETE BLOCK PAVEMENT TYPE 6 FOR SIDEWALK**							
2G0601	Subgrade preparation	M2	2,600	26	67,600	1.27	3,302	463,840
2G0602	Base course	M2	2,600	11	28,600	2.60	6,760	839,800
2G0603	Sand	M2	2,600	1	2,600	0.21	546	68,120
2G0604	Interlocking concrete block	M2	2,600	32	83,200	6.52	16,952	2,117,440
				70	182,000	10.60	27,560	
						Sub Total for This Page		3,489,200
						Total for Bill No. 2G06		3,489,200

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LA UNION PORT DEVELOPMENT PROJECT

Bill No 2G07 GRAVEL PAVEMENT

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2G07	**GRAVEL PAVEMENT**							
2G0701	Gravel pavement	M2	20,250	53	1,073,250	5.00	101,250	13,223,250
2G0702	Foundation for concrete stacking plate	M2	2,726	89	242,614	11.02	30,041	3,847,476
2G0703	Concrete stacking plate type-A	Nos	1,070	1,704	1,823,280	116.38	124,527	16,766,472
2G0704	Concrete stacking plate type-B	Nos	420	1,264	530,880	76.29	32,042	4,375,896
2G0705	Concrete stacking plate type-C	Nos	40	1,594	63,760	99.24	3,970	1,167,309
2G0706	Concrete stacking plate type-D	Nos	28	1,481	41,468	78.59	2,201	305,530
2G0707	Concrete stacking plate type-E	Nos	56	1,111	62,216	57.39	3,214	447,877
					3,837,468		297,243	
							Sub Total for This Page	40,133,810
							Total for Bill No. 2G07	40,133,810

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2G08 TOPSOIL AND GRASSING

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2G08	**TOPSOIL AND GRASSING**							
2G0801	Supply of topsoil	M2	13,700	0	0	1.50	20,550	2,466,000
2G0802	Grassing	M2	13,700	0	0	1.50	20,550	2,466,000
				0	0	3.00	41,100	
						Sub Total for This Page		4,932,000
						Total for Bill No. 2G08		4,932,000

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2G09 CONCRETE CURB TYPE 1

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2G09	**CONCRETE CURB TYPE 1**							
2G0901	Production of curb	M	3,600	26	93,600	6.88	24,768	3,065,760
2G0902	Placing of curb	M	3,600	28	100,800	2.43	8,748	1,150,560
				54	194,400	9.31	33,516	
						Sub Total for This Page		4,216,320
						Total for Bill No. 2G09		4,216,320

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2G10 CONCRETE CURB TYPE 2

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2G10	**CONCRETE CURB TYPE 2**							
2G1001	Production of curb	M	2,000	24	48,000	6.30	12,600	1,560,000
2G1002	Placing of curb	M	2,000	34	68,000	3.71	7,420	958,400
				58	116,000	10.01	20,020	
						Sub Total for This Page		2,518,400
						Total for Bill No. 2G10		2,518,400

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2G11 CONCRETE CURB TYPE 3

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2G11	**CONCRETE CURB TYPE 3**							
2G1101	Production of curb	M	1,100	44	48,400	9.70	10,670	1,328,800
2G1102	Placing of curb	M	1,100	37	40,700	3.97	4,367	564,740
				81	89,100	13.67	15,037	
						Sub Total for This Page		1,893,540
						Total for Bill No. 2G10		1,893,540

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2G13 TRAFFIC SIGN BOARD

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2G13	**TRAFFIC SIGN BOARD**							
2G1301	Guide post	Nos	2	0	0	33.00	66	7,920
2G1302	Sign post	M	300	0	0	13.00	3,900	468,000
2G1303	Road sign	M2	50	0	0	230.00	11,500	1,380,000
				0	0	276.00	15,466	
						Sub Total for This Page		1,855,920
						Total for Bill No. 2G10		1,855,920

LA UNION PORT DEVELOPMENT PROJECT

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H	**DRAINAGE**							
2H01	Pipe culvert 457mm	M	1,070	1,033	1,105,310	73.71	78,870	10,569,674
2H02	Pipe culvert 610mm	M	810	1,367	1,107,270	103.79	84,070	11,195,658
2H03	Pipe culvert 762mm	M	174	1,695	294,930	115.40	20,080	2,704,482
2H04	Pipe culvert 914mm	M	866	1,602	1,387,332	182.82	158,322	20,385,986
2H05	Pipe culvert 1219mm	M	580	2,164	1,255,120	277.79	161,118	20,589,304
2H06	Diversion canal type A	M	580	3,355	1,945,900	369.47	214,293	27,661,012
2H07	Diversion canal type B	M	675	2,293	1,547,775	362.14	244,445	30,881,115
2H08	Manhole type 1 with concrete cover	Nos	34	19,039	647,326	1,463.76	49,768	6,619,467
2H09	Manhole type 2-A with concrete cover	Nos	24	24,942	598,608	2,075.72	49,817	6,576,682
2H10	Manhole type 2-B with grating cover	Nos	12	24,942	299,304	2,594.86	31,138	4,035,902
2H11	Manhole type 2-C with grating cover and concrete cover	Nos	4	33,691	134,764	4,018.98	16,076	2,063,874
2H12	Trench type 1 without cover	M	1,110	477	529,470	55.92	62,071	7,978,014
2H13	Trench type 1 with concrete cover	M	2,902	503	1,459,706	80.72	234,249	29,569,639
2H14	Trench type 1 with grating cover	M	308	503	154,924	200.66	61,803	7,571,318
2H15	Trench type 2 without cover	M	355	709	251,695	79.33	28,162	3,631,153
2H16	Trench type 2 with concrete cover	M	645	750	483,750	104.05	67,112	8,537,220
2H17	Trench type 2 with grating cover	M	650	750	487,500	282.68	183,742	22,536,540
					13,690,684		1,745,136	
							Sub total of This Page	223,107,040
							Total of Sub. Section 2H	223,107,040

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H01 PIPE CULVERT 457㎜

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H01	**PIPE CULVERT 457㎜**							
2H0101	Excavation and Disposal	M	1,070	444	475,080	7.48	8,004	1,435,512
2H0102	Crushed stone for foundation	M	1,070	41	43,870	1.56	1,669	244,174
2H0103	Lean concrete	M	1,070	55	58,850	7.65	8,186	1,041,110
2H0104	Installation drainage pipe	M	1,070	279	298,530	33.17	35,492	4,557,558
2H0105	Backfill sand and compaction	M	1,070	214	228,980	23.85	25,520	3,291,320
				1,033	1,105,310	73.71	78,870	
						Sub Total for This Page		10,569,674
						Total for Bill No. 2H01		10,569,674

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H02 PIPE CULVERT 610mm

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H02	**PIPE CULVERT 610mm**							
2H0201	Excavation and Disposal	M	810	592	479,520	9.98	8,084	1,449,576
2H0202	Crushed stone for foundation	M	810	48	38,880	1.92	1,555	225,504
2H0203	Lean concrete	M	810	92	74,520	13.13	10,635	1,350,756
2H0204	Installation drainage pipe	M	810	279	225,990	40.29	32,635	4,142,178
2H0205	Backfill sand and compaction	M	810	356	288,360	38.47	31,161	4,027,644
				1,367	1,107,270	103.79	84,070	
						Sub Total for This Page		11,195,658
						Total for Bill No. 2H02		11,195,658

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H03 PIPE CULVERT 762mm

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H03	**PIPE CULVERT 762mm**							
2H0301	Excavation and Disposal	M	174	888	154,512	14.96	2,603	466,877
2H0302	Crushed stone for foundation	M	174	48	8,352	2.18	379	53,870
2H0303	Lean concrete	M	174	92	16,008	18.82	3,275	408,970
2H0304	Installation drainage pipe	M	174	311	54,114	40.97	7,129	909,568
2H0305	Backfill sand and compaction	M	174	356	61,944	38.47	6,694	865,198
				1,695	294,930	115.40	20,080	
						Sub Total for This Page		2,704,482
						Total for Bill No. 2H03		2,704,482

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H04 PIPE CULVERT 914mm

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H04	**PIPE CULVERT 914mm**							
2H0401	Excavation and Disposal	M	866	681	589,746	11.47	9,933	1,781,708
2H0402	Crushed stone for foundation	M	866	55	47,630	2.53	2,191	310,548
2H0403	Lean concrete	M	866	110	95,260	24.86	21,529	2,678,711
2H0404	Installation drainage pipe	M	866	311	269,326	95.18	82,426	10,160,432
2H0405	Backfill sand and compaction	M	866	445	385,370	48.78	42,243	5,454,588
				1,602	1,387,332	182.82	158,322	
							Sub Total for This Page	20,385,986
							Total for Bill No. 2H04	20,385,986

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H05 PIPE CULVERT 1219mm

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H05	**PIPE CULVERT 1219mm**							
2H0501	Excavation and Disposal	M	580	888	515,040	14.96	8,677	1,556,256
2H0502	Crushed stone for foundation	M	580	69	40,020	3.27	1,897	267,612
2H0503	Lean concrete	M	580	184	106,720	41.44	24,035	2,990,944
2H0504	Installation drainage pipe	M	580	311	180,380	164.47	95,393	11,627,492
2H0505	Backfill sand and compaction	M	580	712	412,960	53.65	31,117	4,147,000
				2,164	1,255,120	277.79	161,118	
						Sub Total for This Page		20,589,304
						Total for Bill No. 2H05		20,589,304

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H06 DIVERSION CANAL TYPE A

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H06	**DIVERSION CANAL TYPE A**							
2H0601	Excavation and Disposal	M	580	1,538	892,040	25.91	15,028	2,695,376
2H0602	Placing of stone	M	580	94	54,520	83.01	48,146	5,832,016
2H0603	Outlet	LS	1	38,669	38,669	6,958.17	6,958	873,649
2H0604	Canal branch A-1	M	210	1,666	349,860	223.71	46,979	5,987,352
2H0605	Canal branch A-2	M	270	1,943	524,610	315.41	85,161	10,743,894
2H0606	Catch basin	LS	1	86,394	86,394	12,023.72	12,024	1,529,240
					1,946,093		214,295	
							Sub Total for This Page	27,661,528
							Total for Bill No. 2H06	27,661,528

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H07 DIVERSION CANAL TYPE B

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H07	**DIVERSION CANAL TYPE B**							
2H0701	Excavation and Disposal	M	675	764	515,700	12.87	8,687	1,558,170
2H0702	Placing of stone	M	675	70	47,250	113.12	76,356	9,209,970
2H0703	Outlet	L.S	1	26,163	26,163	3,766.55	3,767	478,149
2H0704	Canal branch	M	365	2,627	958,855	426.39	155,632	19,634,737
					1,547,968		244,442	
						Sub Total for This Page		30,881,026
						Total for Bill No. 2H07		30,881,026

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H08 MANHOLE TYPE 1 WITH CONCRETE COVER

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H08	**MANHOLE TYPE 1 WITH CONCRETE COVER**							
2H0801	Excavation and Disposal	Nos	34	2,961	100,674	57.47	1,954	335,152
2H0802	Crushed stone for foundation	Nos	34	413	14,042	11.86	403	62,431
2H0803	Lean concrete	Nos	34	120	4,080	30.84	1,049	129,907
2H0804	Reinforcement bar	Nos	34	6,843	232,662	529.93	18,018	2,394,776
2H0805	Corner angle	Nos	34	587	19,958	57.12	1,942	253,008
2H0806	Concrete placing	Nos	34	4,557	154,938	554.92	18,867	2,419,012
2H0807	Backfill sand and compaction	Nos	34	3,558	120,972	221.62	7,535	1,025,182
				19,039	647,326	1,463.76	49,768	
						Sub Total for This Page		6,619,467
						Total for Bill No. 2H08		6,619,467

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H09 MANHOLE TYPE 2-A WITH CONCRETE COVER

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H09 MANHOLE TYPE 2 WITH CONCRETE COVER								
2H0901	Excavation and Disposal	Nos	24	5,923	142,152	114.94	2,759	473,179
2H0902	Crushed stone for foundation	Nos	24	551	13,224	15.79	379	58,699
2H0903	Lean concrete	Nos	24	166	3,984	41.01	984	122,093
2H0904	Reinforcement bar	Nos	24	9,066	217,584	753.10	18,074	2,386,512
2H0905	Corner angle	Nos	24	704	16,896	68.57	1,646	214,378
2H0906	Concrete placing	Nos	24	4,974	119,376	772.14	18,531	2,343,139
2H0907	Backfill sand and compaction	Nos	24	3,558	85,392	310.17	7,444	978,682
				24,942	598,608	2,075.72	49,817	
						Sub Total for This Page		6,576,682
						Total for Bill No. 2H09		6,576,682

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H10 MANHOLE TYPE 2-B WITH GRATING COVER

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H10	**MANHOLE TYPE 2-B WITH GRATING COVER**							
2H1001	Excavation and Disposal	Nos	12	5,923	71,076	114.94	1,379	236,590
2H1002	Crushed stone for foundation	Nos	12	551	6,612	15.79	189	29,350
2H1003	Lean concrete	Nos	12	166	1,992	41.01	492	61,046
2H1004	Reinforcement bar	Nos	12	9,066	108,792	790.92	9,491	1,247,717
2H1005	Corner angle	Nos	12	704	8,448	68.57	823	107,189
2H1006	Concrete placing	Nos	12	4,974	59,688	1,204.01	14,448	1,793,462
2H1007	Backfill sand and compaction	Nos	12	3,558	42,696	359.62	4,315	560,549
				24,942	299,304	2,594.86	31,138	
						Sub Total for This Page		4,035,902
						Total for Bill No. 2H10		4,035,902

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H11 MANHOLE TYPE 2-C WITH GRATING COVER AND CONCRETE COVER

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H11	**MANHOLE TYPE C WITH GRATING COVER AND CONCRETE COVER**							
2H1101	Excavation and Disposal	Nos	4	8,528	34,112	172.41	690	116,869
2H1102	Crushed stone for foundation	Nos	4	529	2,116	18.53	74	11,010
2H1103	Lean concrete	Nos	4	177	708	60.40	242	29,700
2H1104	Reinforcement bar	Nos	4	11,495	45,980	1,115.42	4,462	581,382
2H1105	Corner angle	Nos	4	676	2,704	75.46	302	38,925
2H1106	Concrete placing	Nos	4	7,162	28,648	2,037.33	8,149	1,006,566
2H1107	Backfill sand and compaction	Nos	4	5,124	20,496	539.43	2,158	279,422
				33,691	134,764	4,018.98	16,076	
						Sub Total for This Page		2,063,874
						Total for Bill No. 2H09		2,063,874

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H12 TRENCH TYPE 1 WITHOUT COVER

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H12 TRENCH TYPE 1 WITHOUT COVER								
2H1201	Excavation and Disposal	M	1,110	65	72,150	1.25	1,388	238,650
2H1202	Crushed stone for foundation	M	1,110	34	37,740	1.09	1,210	182,928
2H1203	Reinforcement bar	M	1,110	118	130,980	12.40	13,764	1,782,660
2H1204	Concrete placing	M	1,110	206	228,660	38.72	42,979	5,386,164
2H1205	Backfill sand and compaction	M	1,110	54	59,940	2.46	2,731	387,612
				477	529,470	55.92	62,071	
						Sub Total for This Page		7,978,014
						Total for Bill No. 2H11		7,978,014

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H13 TRENCH TYPE 1 WITH CONCRETE COVER

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H13 TRENCH TYPE 1 WITH CONCRETE COVER								
2H1301	Excavation and Disposal	M	2,902	65	188,630	1.25	3,628	623,930
2H1302	Crushed stone for foundation	M	2,902	34	98,668	1.09	3,163	478,250
2H1303	Reinforcement bar	M	2,902	118	342,436	15.76	45,736	5,830,698
2H1304	Concrete placing	M	2,902	232	673,264	59.93	173,917	21,543,287
2H1305	Backfill sand and compaction	M	2,902	54	156,708	2.69	7,806	1,093,474
				503	1,459,706	80.72	234,249	
						Sub Total for This Page		29,569,639
						Total for Bill No. 2H12		29,569,639

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H14 TRENCH TYPE 1 WITH GRATING COVER

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H14 TRENCH TYPE 1 WITH GRATING COVER								
2H1401	Excavation and Disposal	M	308	65	20,020	1.25	385	66,220
2H1402	Crushed stone for foundation	M	308	34	10,472	1.09	336	50,758
2H1403	Reinforcement bar	M	308	118	36,344	12.40	3,819	494,648
2H1404	Concrete placing	M	308	232	71,456	183.64	56,561	6,858,790
2H1405	Backfill sand and compaction	M	308	54	16,632	2.28	702	100,901
				503	154,924	200.66	61,803	
						Sub Total for This Page		7,571,318
						Total for Bill No. 2H13		7,571,318

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H15 TRENCH TYPE 2 WITHOUT COVER

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H15 TRENCH TYPE 2 WITHOUT COVER								
2H1501	Excavation and Disposal	M	355	207	73,485	4.02	1,427	244,737
2H1502	Crushed stone for foundation	M	355	41	14,555	1.33	472	71,213
2H1503	Reinforcement bar	M	355	148	52,540	16.22	5,758	743,512
2H1504	Concrete placing	M	355	206	73,130	52.84	18,758	2,324,114
2H1505	Backfill sand and compaction	M	355	107	37,985	4.92	1,747	247,577
				709	251,695	79.33	28,162	
						Sub Total for This Page		3,631,153
						Total for Bill No. 2H14		3,631,153

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H16 TRENCH TYPE 2 WITH CONCRETE COVER

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H16 TRENCH TYPE 2 WITH CONCRETE COVER								
2H1601	Excavation and Disposal	M	645	207	133,515	4.02	2,593	444,663
2H1602	Crushed stone for foundation	M	645	41	26,445	1.33	858	129,387
2H1603	Reinforcement bar	M	645	148	95,460	16.22	10,462	1,350,888
2H1604	Concrete placing	M	645	247	159,315	78.76	50,800	6,255,339
2H1605	Backfill sand and compaction	M	645	107	69,015	3.72	2,399	356,943
				750	483,750	104.05	67,112	
							Sub Total for This Page	8,537,220
							Total for Bill No. 2H15	8,537,220

LA UNION PORT DEVELOPMENT PROJECT

Bill No 2H17 TRENCH TYPE 2 WITH GRATING COVER

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2H17 TRENCH TYPE 2 WITH GRATING COVER								
2H1701	Excavation and Disposal	M	650	207	134,550	4.02	2,613	448,110
2H1702	Crushed stone for foundation	M	650	41	26,650	1.33	865	130,390
2H1703	Reinforcement bar	M	650	148	96,200	16.22	10,543	1,361,360
2H1704	Concrete placing	M	650	247	160,550	257.34	167,271	20,233,070
2H1705	Backfill sand and compaction	M	650	107	69,550	3.77	2,451	363,610
				750	487,500	282.68	183,742	
						Sub Total for This Page		22,536,540
						Total for Bill No. 2H16		22,536,540

LA UNION PORT DEVELOPMENT PROJECT

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2I	**NAVIGATION AIDS**							
2I01	Lighthouse	Set	1	37,900,000	37,900,000	800.00	800	37,996,000
2I02	Light beacon	Set	3	1,080,000	3,240,000	160.00	480	3,297,600
2I03	Channel entrance marker buoy(high wave type)	Set	2	4,600,000	9,200,000	1,600.00	3,200	9,584,000
2I04	Channel marker buoy(high wave type)	Set	7	4,600,000	32,200,000	1,600.00	11,200	33,544,000
2I05	Channel marker buoy	Set	5	3,800,000	19,000,000	1,600.00	8,000	19,960,000
2I06	Basin marker buoy	Set	2	3,600,000	7,200,000	1,600.00	3,200	7,584,000
2I07	AIS base unit and VTS display	Set	1	5,000,000	5,000,000		0	5,000,000
2I08	Spare parts for 5 years operation for above instrument	Set	1	30,000,000	30,000,000		0	30,000,000
2I09	VHF radio	Set	2	150,000	300,000		0	300,000
2I10	Anemometer	Set	1	1,800,000	1,800,000		0	1,800,000
2I11	Barometer	Set	1	300,000	300,000		0	300,000
2I12	Clock	Set	1	10,000	10,000		0	10,000
2I13	Binocular	Set	1	35,000	35,000		0	35,000
					146,185,000		26,880	
							Sub total of This Page	149,410,600
							Total of Sub. Section 2I	149,410,600

US$=¥120

PAY ITEM	DESCRIPTION	UNIT	QUANTITY	FOREIGN CURRENCY (YEN)		LOCAL CURRENCY (US$)		TOTAL AMOUNT IN (YEN)
				UNIT COST	AMOUNT	UNIT COST	AMOUNT	
2J	**SUPPLY AND INSTALL OF SECURITY FENCE**							
2J01	Supply and install of security fence	M	1,362	46	62,652	39.03	53,159	6,441,715
							Sub total of This Page	6,441,715
							Total of Sub. Section 2J	6,441,715