Item No.
Work:Placing concrete by concrete bucket w/truck crane
Remarks:100m3,bucket 1.0m3,30t crane
Hnit Price:

Unit Price: Description	llait	Quantity	Poreign Cu	irrenev	Local C	urrency	Duty &	Tax
Description	VIII	Anaveres	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Anount
Labor cost							•	
Foreman	nd		0.00	0. 0 0		10567.80	0.00	0.00
Operator	eq	1.282	0.00	0.00		32819.20	6.00	0.00
Assist operator	ad	1.282	0.00	0.00	and the second second			0.00
Concrete worker	ad	4.000	0.00	0.00	19000.00		0.00	0.00
Common labor	ad	2.000	0.00	0.00	17300.00	34600.00	0.00	0.00
Subtotal				0.00		176934.80		0.00
Material cost								
Light oil	lit	99.996	4.00	399.98	353.00	35298.59		100.00
Lubricant	lit	0.640	44.00	28.16	4150.00	2656.00		320.00
Grease	λg	1.667	58.00	96.69	5395.00	8993.47		1083.55
Electric***	kwh	10.000	7.00	70.00	281.00	2810.00	8.00	80.00
Miscellaneous(3%)				17.84		1492.74		47.51
Subtotal				612.67		51250.79	•	1631.05
Equipment cost							•	
Truck crane, 30t	hr	8.333	5705.00	47539.77	22654.00	188775.78		0.00
Concrete bucket, 1.0m3	day	1.282	2115.00	2711.43	7822.00	10027.80		0.00
Vibrator, 45mm	day	4.000	493.00	1972.00	1331.00	5324.00	0.00	0.00
Miscellaneous(5%)	•			2611.16		10206.38		0.00
Subtotal			•	54834.35		214333.97		0.00
Overhead				13861.76		110629.89		407.76
Total				69308.79		553149.45		2038.82
Unit price				693.09		5531.49		20.39

Item No. Work:Formwork,Pi Remarks:1m2,wall etc.

Unit Price:								
Description	Unit	Quantity.	Foreign Cu	rrency	Local C	urreacy	Daty &	Tax
•			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Forenan	් අර	0.012	0.00	0.00	20600.00	247.20	0.00	0.00
Rigger	nd	0.117	0.00	0.00	19000.00	2223.00	0.00	0.00
Carpenter	n đ	0.152	0.00	0.00	19000.00	2888.00	0.00	0.60
Common labor	nd	0.152	0.00	0.00	17300.00	2629.60	0.00	0.00
Subtotal				0.00		7987.80		0.00
Material cost		•						
Metal form,300*1500	No.	0.053	2782.00	147.45	3130.00	165.89	0.00	0.00
Netal form, 200*1500	No.	0.005	2782.00	13.91	3130.00	15.65	0.00	0.00
Channel steel	kg	1.000	36.00	35.00	467.00	467.00	123.00	123.00
Cone	No.	0.877	19.00	16.66	21.00	18.42	0.00	0.00
Seperator 8-10mm	. 18	0.746	71.00	52.97	80.00	59.68	0.00	0.00
Porm cil	lit	0.019	321.00	6.10	361.00	6.86	0.00	0.00
Timber, log	a 3	0.003	1067.00	3.20	99600.00	298.80	12000.00	36.00
Miscellaneous(31)	:			8.29		30.97		.4.77
Subtotal				284.57		1063.26		163.77
Overhead				71.14		2262.77		40.94
Total	. *			355.72		11313.83		204.71

Item No. Kork:Formwork Remarks:1m2,open channel

Unit Price:								
Description	Unit	Quantity	Foreign Cu	rrency	Logal Cu	rrency		Tax
•			Unit Cost	Amount	Unit Cost	Amount	Vait Cost	Anount
Labor cost								0.00
Foreman	ad			0.00		185.40		0.00
Concreté worker	ad	0.090	0.00	0.00		1710.00		0.00
Rigger	nd		0.00	0.00		1710.00		0.00
Operator	. Eq	0.015	0.00	0.00		384.00		
Assist operator	ed	0.015	0.00	0.00		268.50		0.00
Skilled labor	ខ្មុំ	0.018	0.00	0.00				0.00
Cosmon labor	10	0.161	0.00	0.00		2785.30		0.00
Subtotal				0.00	•	7419.40		0.00
Material cost								1 1 2
Metal form,300*1500	No.	0.084	2782.00	233.69		262.92		0.00
Steel angle	kg	0.717	36.00	25.81		334.84		88.19
Channel steel	kg	2.800	36.00	100.80		1307.60		344.40
Clamp	No.	0.415	300.00	124.50	338.00	140.27		0.00
Clip	No.	0.414	37.00	15.32		17.39		0.00
Anchor bolt,22mm,400mm	No.	0.889	171.60	152.03		170.69		0.00
Timber plank	m 3	0.011	2089.00	22.98	195050.00	2145.55		258.50
Light oil	lit	0.480	4.00	1.92	353.00	169.44		0.48
Lubricant	lit	0.024	44.00	1.06	4150.00	99.60		12.00
Grease	kg	0.010	58.00	9.58	5395.00	53. 9 5	650.00	8.50
Miscellaneous(3%)	_			20.36		141.07		21.30
Subtotal				699.03		4843.31		731.37
Equipment cost								
Wheel crane	hr	0.122	2167.00	264.37	8604.00	1049.69	0.00	0.00
Miscellaneous(5%)				13.22		52.48		0.00
Subtotal				277.59	i :	1102.17		0.00
Overhead				244.16		3341.22		182.84
Total				1220.78		16706.11		914.22

Item No. Work:Formwork,F3,F4 Remarks:1m2 Unit Price:								
Description	Unit	Quantity.	Foreign Cu	rrency	Local C	urrency	Duty &	Tax
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Foreman	₽ď	0.021	0.00	0.00	20600.00	432.60	0.00	0.00
Rigger	nd	0.210	0.00	0.00	19000.00	3990.00	0.00	0.00
Carpenter*	nd	0.375	0.00	0.00	19000.00	7125.00	0.00	0.00
Common labor*	nd	0.375	0.00	0.00	17300.00	6487.50	0.00	0.00
Subtotal				0.00		18035.10		0.00
Material cost								
Metal form,300*1500	No.	0.191	2782.00	280.98	3130.00	316.13	0.00	0.00
Timber, plank	o 3	0.006	2089.00	12.53	195050.00	1170.30	23500.00	141.00
Timber, square	e 3	0.006	1244.00	7.46	116200.00	697.20	14000.00	84.00
form oil	lit	0.050	321.00	16.05	361.00	18.05	0.00	0.00
Miscellaneous(3%)				9.51		66.05		6.75
Subtotai	. *			326.54		2267.73		231.75
Overhead				81.64		5075.71		57.94
Total	-		: .	408.18		25378.54		289,69

Item No.					4			
Work: Forework, P2			•	2				e garage
Remarks: 102								1:
Unit Price:								
Description	Usit	Quantity	Foreign Cu	rrency	Local Co	urreacy	Duty &	
•			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount.
labor cost							0.00	0.00
Foreman	- Ed	0.001	0.00	9.00	20600.00	20.60	0.03	0.00
Rigger	ьd	0.011	0.00	0.00	19000.00	209.00	0.00	0.00
Carpenter*	nd	0.300	0.00	0.00	19000.00	5700.00	0.00	0.00
Common labor*	ad	0.390	0.00	0.00	17300.00	5190.00	0.00	0.00
Subtotal				0.00		11119.60		0.00
Material cost								
Metal form,300*1500	No.	0.101	2782.00	280.98	3130.00	316.13	0.00	0.00
Timber, plank	a 3	0.001	2089.00	2.09	195050.00	195.05	23500.00	23.50
Timber, square	п3	0.004	1244.00	4.98	116200.00	464.80	14000.00	56.00
Form oil	lit	0.169	321.00	51.36	361.00	57.76	0.00	0.00
Miscellaneous(3%)				10.18		31.01		2.33
Subtotal				349.59		1064.75		81.89
Overhead				87.40	•	3046.09		20.47
Total				436.99		15230.44		102.36

Item No. Work: Foruwork, \$2,83 Remarks: 102 Unit Price: Duty & Tax Unit Quantity Foreign Currency Local Currency Description Amount Unit Cost Amount Unit Cost Amount Unit Cost Labor cost 0.00 0.00 0.004 0.00 20600.00 0.00 82.40 Poreman πd 0.00 0.00 0.038 0.00 0.00 19000.00 722.00 Rigger ωđ 0.00 Carpenter* nd. 0.375 0.00 0.00 19000.00 7125.00 0.00 0.00 0.00 Common labor* øđ 0.375 0.00 0.00 17300.00 6487.50 Subtotal 0.00 14416.90 0.00 Material cost Metal form, 300 \$1500 Жo. 0.076 2782.00 211.43 3130.00 237.88 0.00 0.00 0.001 2089.00 2.09 195050.00 195.05 23500.00 23.50 Timber, plank m3 1244.00 12.44 116200.00 1162.00 14000.00 140.00 Timber, square 13 0.010 361.00 0.00 0.00 Form oil lit 0.140 321.00 44.94 50.54 4.91 Miscellaneous(31) 8.13 49.36 279.03 1694.83 168.41 Subtotal

69.76

348.79

4027.93

20139.67

42.10

210.51

Overhead

Total

Item No.								
Work: Formwork, F1 Remarks: 1m2							•	
Unit Price:								
Description	Unit	Quantity	Poreign Cui	rrency	Local C	urrency	Duty &	Tax
:			Unit Cost	Amount	Unit Cost	Asount	Unit Cost	Amount
Labor cost					•			
Poreman	ad	0.001	0.00	0.00	20600.00	20.60		0.00
Rigger	ad	0.011	0.00	0.00	19000.00	209.00	0.00	0.00
Carpenter*	nd	0.300	0.00	0.00	19000.00	5700.00	0.00	0.00
Common labor*	p.d	0.300	0.00	0.00	17300.00	5190.00	0.00	0.00
Subtotal	7.			0.00		11119.60		0.00
Haterial cost			•					
Metal form, 300*1500	Ńэ.	0.076	2782.00	211.43	3130.00	237.88	0.00	0.00
Timber plank	a 3	0.001	2089.00	2.09	195050.00	195.05	23500.00	23.50
Timber, square	n 3	0.006	1244.00	7.46	116200.00	697.20	14000.00	84.00
Form oil	lit	0.160	321.00	51.36	361.00	57.76	0.00	0.00
Miscellaneous(31)		•		8.17		35.64		3.23
Subtotal				280.52		1223.53		110.73
Overhead				70.13		3085.78		27.68
Total				350.64		15428.91		138.41

Item No. Work:Formwork,Fl

Remarks:1m2, side ditch, pit, foundation conc

Unit Price:

Description	Unit Q	vantity	Poreign Cu	rrency	Local C	urrency	Duty &	Tax
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Poreman	ьa	0.011	0.00	0.00	20600.00	226.60	0.00	0.00
Carpenter A	sd	0.113	0.00	0.00	19000.00	2147.00	0.00	0.00
Carpenter 8#	BO	0.225	0.00	0.00	17300.00	3892.50	0.00	0.00
Common labor*	вd	0.225	0.00	0.00	17300.00	3892.50	0.00	0.00
Subtotal				0.00		10158.60		0.00
Material cost			•				:	
Timber, plank	≇3	0.005	2089.00	10.45	195050.00	975.25	23500.00	117.50
Timber, square	m3	0.007	1244.00	8.71	116200.00	813.40	14000.00	98.00
Miscellaneous(3%)				0.57		53.66		6.47
Subtotal				19.73		1842.31		221.97
Overhead				4.93		3000.23		55.49
Total				24.66		15001.14		277.45

Item No. Work:Waterstop,type A 300mm Domarks:Im

Kenar	KS:1D
31-11	Dates

Unit Price: Description	llnit	Quantity	Poreign Currency		Local Currency		Duty & Tax	
Description	Onte	Anaucici	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost					1		0.00	6.00
Yoreman .	nd	0.030	0.00	0.00	20600.00	618.00	0.00	0.00
Concrete worker	вd	0.100	0.00	0.00	19000.00	1900.00	0.00	0.00
Common labor	តិវិ	0.100	0.00	0.00	17300.00	1730.00	0.00	0.00
Subtotal		••••		0.00	11	4248.00		0.00
Material cost						0000 00	0.00	0.00
PVC waterstop,300mm	D	1.000	2611.00	2611.00	2937.00	2937.00	0.00	0.00
Miscellaneous(31)			•	78.33	100	88.11		0.00
Subtotal				2689.33		3025.11		0.00
Overhead				672.33		1818.28		0.00
Total	•			3361.66		9091.39		0.00

Item No. kork:Waterstop.type 8 200mm Remarks:In Unit Price:

Unit Price:								
Description	Unit	Quantity	Foreign Cur	rency	Local C:	icrency	Duty &	Tax
	٠		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Foreman	ad	0.030	0.00	0.00	20600.00	618.00	0.00	0.00
Concrete worker	a d	0.100	0.00	0.00	19000.00	1900. CO	0.00	0.00
Common labor	ad.	0.100	0.00	0.00	17300.00	1730.00	0.00	0.00
Subtotal	100			0.00		4248.00		0.00
Material cost								
PVC waterstop, 200am	1	1.000	1338.00	1338.00	1505.00	1505.00	0.06	0.00
Miscellaneous(31)				40.14		45.15		0.00
Subtotal			•	1378.14		1550.15		0.00
Overhead				344.54		1449.54		0.00
Total				1722.68		7247.69		0.00

Item No. Work: Joint filler, 10mm			•				·	
Remarks:1m2							* .	
Unit Price:				•		•		
Description	Vait Q	uantity	Foreign Cu	rrency	Local C	irrency	Duty &	
•			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost			-				•	
foresan	nd	0.030	0.00	0.00	20600.00	618.00		0.00
Concrete worker	nd.	0.050	0.00	0.00	19000.00	950.00	0.00	0.00
Common labor	ba	0.050	0.00	0.00	17300.00	865.00	0.00	0.00
Subtotal		0,000	****	0.00		2433.00	:	0.00
Material cost					•			
Joint filler, 1Com	92	1.050	899.00	943.95	1011.00	1061.55	0.00	0.00
Miscellaneous(3%)				28.32		31.85		0.00
Subtotal				972.27		1093.40	-	0.00
Overhead				243.07		881.60		0.00
			-	1215.34		4408.00		0.00
Total	•			1013.34		4300.00		4100
			-					

Item No. Work:Joint filler,20mm Remarks:1m2 Unit Price: Description	Unit Q	quantity	Foreign Cu	rrency	Local Cu	orrency	Duty &	ĩax
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Poreman	នាថំ	0.030	0.00	0.00	20600.00	618.CO	0.00	0.00
Concrete worker	ត្រប់	0.050	0.03	0.00	19000.00	950.00	- 0.00	0.00
Common labor	ad	0.050	0.00	0.00	17300.00	865.00	0.00	0.00
Subtotal				0.00		2433.00		0.00
Material cost						***	0.00	
Joint filler,20mm	æ2	1.050	1798.00	1887.90		2124.15		0.00
Niscellaneous(3%)				56.64		63.72		0.00
Subtotal				1944.54		2187.87		0.00
Overhead				486.13		1155.22		0.00
Total				2430.67		5776.09		.0.00

Ites No.

Work:Mortar 1:1

Remarks: 1m3, mixing with hand

Unit Price:

Description	Unit Quantity		Poreign Currency		Local Currency		Outy & Tax	
			Unit Cost	Amount	Unit Cost	Asount	Unit Cost	Amount
Labor cost								
Foreman	ød	0.033	0.00	0.00	20600.00	679.80	0.00	0.00
Skilled labor	ad	0.330	0.00	0.00	20900.00	6897.00	0.00	0.00
Common labor	nad	1.650	0.00	0.00	17300.00	28545.00	0.00	0,00
Subtotal				0.00		36121.80		0.00
Material cost								
Portland cement	ton	1.100	4969.00	5465.90	65360.09	71896.00	17200.00	18920.00
Aggregate,fine***	g 3	0.750	1276.00	957.00	12301.00	9225.75	4101.00	3075.75
Aggregate, coarse***	p 3	0.000	1060.00	0.00	10216.00	0.00	3408.00	0.00
Miscellaneous(3%)				192.69		2433.65		659.87
Subtotal				6615.59		83555.40		22655.62
Overhead			•	1653.90	i	29919.30		5663.91
Total			•	8269.48		149596.50		28319.53
Unit price(exclude over	he ad)			6615.59		119677.20		22655.62

Item No.

Work:Mortar 1:2

Remarks: 1m3, mixing with hand Unit Price:

Unit Price: Description	Unit G	uantity	Foreign Cu	rrency	Local C	urrency	Duty &	Tax
	••		Unit Cost	Amount	Unit Cost	Apount	Unit Cost	Amount
Labor cost								
Foreman	nd	0.030	0.00	0.00	20600.00	618.00	0.00	0.00
Skilled labor	md	0.300	0.00	0.00	20300.00	6270.00	0.00	0.00
Common labor	æd	1.500	0.00	0.00	17300.00	25950.00	0.00	0.00
Subtotal				0.00		32838.00		0.00
Material cost								
Portland cement	ton	0.720	4969.00	3577.68	65360.00	47059.20	17200.00	12384.00
Aggregate,fine***	m3	0.950	1276.00	1212.20	12301.00	11685.95	4101.00	3895.95
Aggregate, coarse***	n23	0.000	1060.00	0.00	10216.00	0.00	3406.00	0.00
Miscellaneous(3%)				143.70		1762.35		488.40
Subtotal				4933.58		60507.50		16768.35
Overhead				1233.39		23336.38		4192.09
Total				6166.97		116681.88		20960.44
Unit price(exclude over	head)			4933.58		93345.50		16768.35

Item No.	
Work: Carrying concret	e
Remarks:100m3,3000m	
Unit Price:	

Unit Price:								•
Description	Bait	Quantity	Foreign Cu	rrency	Local C	urrency	Buty &	Tax
Secretary trees.	••		Unit Cost	•	Unit Cost		Unit Cost	Amount
Labor cost								- 44
Foreman	æd	0.308	0.00	0.00	20600.00	6344.80	0.00	0.00
Driver	· ned	3.077	0.00	0.00	18100.00	55693.70	0.00	0.00
Subtotal				0.00	:	62038.50		0.00
Material cost			•					
Light oil	lit	300.000	4.00	1200.00	353.00	105900.00	1.00	300.00
Lubricant	lit	6.000	44.00	264.00	4150.00	24900.00	500.00	3000.00
Grease	kg	0.400	58.90	23.20	5395.00	2158.00	650.00	260.00
Miscellaneous(3%)	·			44.62		3988.74		106.80
Subtotal				1531.82		136945.74		3666.80
Equipment cost								
Agitator truck, 3.2m3	hr	20.000	1517.00	30340.00	6 906. 00	138120.00	0.00	0.00
Kiscellaneous(51)				1517.00		6906.00		0.00
Subtotal				31857.00		145026.00		0.00
Overhead	-			8347.20		86002.81		916.70
Total				41735.02		430014.05		4583.50
Unit price				417.36		4300.14		45.84

Item No.

Nork:Carrying concrete Remarks:100m3,10000m(10km) Unit Price:

unit Price:								
Description	Unit	Quantity	Foreign C	Foreign Currency		arrency	Duty &	Tax
•	•	· ·	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Poreaan	ed	0.810	0.00	0.00	20600.00	16686.00	0.00	0.00
Driver	nd	8.097	0.00	0.00	18100.00	146555.70	0.00	0.00
Subtetal		•		0.00		163241.70		0.00
Material cost								
Light oil	lit	789.450	4.00	3157.80	353.00	278675.85	1.00	789.45
Lubricant	lit	15.789	44.00	694.72	4150.00	65524.35	500.00	7894.50
Grease	kg	1.053	58.00	61.07	5395.00	5680.94	650.00	684.45
Miscellaneous(31)				117.41		10496.43		281.05
Subtotal				4031.00		360377.57		9649.45
Equipment cost			•					
Agitator truck, 3.2m3	hr	52.630	1517.00	79839.71	6906.00	363462.78	0.00	0.00
Miscellaneous(5%)				3991.99		18173.14		0.00
Subtotal				83831.70		381635.92		0.00
Overhead				21965.67		226313.80		2412.36
Total				109828.37		1131568.99		12061.82
Unit price				1098.28		11315.69		120.62

Item No.	
Work:Reinforcing	bar
Remarks:1ton	
Unit Price:	

Kensiks Trou						•		
Unit Price: Description	linit (Quantity	Foreign C	urrency	Local Currency		duty &	Tax
	0,,,,		Unit Cost	-	Unit Cost		Unit Cost	Amount
Labor cost				:	٠			
Foresan	நக்	1.020	0.00	0.60	20600.00	21012.00	0.00	0.90
Reinforcement worker	æđ	10.200	0.00	0.00	19000.00	193800.00	0.00	0.00
Common labor	ad	10.400	0.00	0.00	17300.00	179920.00	0.00	0.00
Subtotal				0.00		394732.00		0.00
Material cost								
Round bar	ton	1.000	24556.00	24556.00	323000.00	323000.00	85000.00	85000.00
Annealed iron wire	kg	5.000	58.00	290.00	760.0 0	3800.00	-200.00	1000.00
Miscellaneous(31)				745.38		9804.00	.:	2580.00
Subtotal				25591.38		336604.00		88580.00
Overhead				6397.85		182834.00		22145.00
Total			1 - 1	31989.23		914170.00		110725.00
Handling, crane	ton	1.000		3807.96		28835.14	· ·	297.13
Unit price			*.	35797.19		943005.14		111022.73

Item No. Work:Waterstop,type C 150mm Remarks:1m

Unit Price: Description	Unit Quantity		Poreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount		Amount	Unit Cost	Amount
Labor cost								
Foresan	20	0.030	0.00	0.00	20600.00	618.00	0.00	0.00
Concrete worker	ed	0.100	0.00	0.00	19000.00	1900.00	0.00	0.00
Common labor	යර	0.100	0.00	0.00	17300.00	1739.00	0.00	0.00
Subtotal				0.00		4248.00		0.00
Material cost			7.3					
PVC waterstop, 150mm		1.000	1059.00	1059.00	1191.00	1191.00	0.00	0.00
Miscellaneous(3%)				31.77		35.73		0.00
Subtotal				1090.77		1226.73		0.00
Overhead			* *	272.69	÷	1368.68		0.00
Total				1363.46		8843.41		0.00

Item No. kork:Carrying concrete Remarks:100m3,6000m Unit Price:

Unit Price: Description	Unit Quantity		Foreign Currency		Local Currency		Duty & Tax	
24444		• • • • • • • • • • • • • • • • • • • •	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Forenza	nd	0.513	0.00	0.00	20600.00	10567.80	0.00	0.00
Driver	p d	5.128	0.00	0.00	18100.00	92816.80	0.00	0.00
Subtotal				0.00		103384.60		0.00
Material cost								
Light oil	lit	499.935	4.00	1999.98	353.00	176498.24	1.00	500.00
Lubricant	lit	10.000	44.00	440.00	4150.00	41500.00	500.00	5000.00
Grease	kg	0.667	58.00	38.69	5395.00	3598.47	650.00	. 433.55
Miscellaneous(3%)				74.36		6647.90		178.01
Subtotal			* .	2553.03		228244.60		6111.55
Equipment cost			+ 1			-		
Agitator truck, 3.2m3	hr	33.333	1517.00	50566.16	6906.00	230197.70	0.00	0.00
Miscellaneous(51)				2528.31		11509.88		0.00
Subtotal				53094.47		241707.58		0.00
Overhead				13911.87		143334.20		1527.89
Total				69559.37		716670.98		7639.44
Unit price				695.59		7166.71		76.39

N MISCELLANEOUS (1)

•		•					
Kork	Unit	** PC **	LC	Duty, Tax	\$\$ FC ?\$	Tota:	Total
		(Yen)	(S/.)	(S/.)	(\$/.)	(\$/.)	(US\$)
Grout pipe,40mm,contact grout	, 6	799.54	1502.71	0.00	1502.71	19492.36	8.66
Cooling pipe,25mm	Ð	524.01	1084.30	0.00	1034.30	12874.53	5.72
Steel step	kg	65.19	408.50	6.77	415.27	1882.05	0.84
Steel pipe handrail, type A	kg	180.76	1057.39	0.00	1057.39	5124.49	2.28
Steel pipe handrail, type 8	kg	180.77	1057.45	0.00	1057.45	5124.78	2.28
Trap	kg	31.91	852.29	110.47	962.76	1680.74	0.75
Fence, type A	5	2321.63	25380.75	2779.25	28160.00	80396.68	35.73
Contraction joint	9 2	2.58	3944.83	41.20	3986.03	4044.08	1.80
Dowel bar	Tā.	102.14	2917.49	354.31	3271.80	5569.9 5	2.48
	ton	33600.00	959700.00	116550.00	1076250.00	1833250.00	814.33
Anchor bar in blockout	ton	36960,00	1055670.00	128205.00	1183875.00	2015475.00	895.77
form, plywood, building	m 2	467.51	40074.29	1993.49	42073.78	52592.76	23,37
Non-embedded metal	ton	55.65	804.27	76.88	881.15	2133.28	0.95
Embedded metal	ton	55.65	1120.63	76.88	1197.51	2449.64	1.09
R€ pipe,200mm	m	836.64	46697.24	1187.36	47884.60	66709.00	29.65
RC pipe,300mm	æ	1286.61	64344.31	1904.03	66248.34	95197.07	42.31
RC pipe,600mm	•	2515.43	125884.16	3797.85	129682.01	186279.19	82.79
RC pipe,800mm	. m	3631.32	178265.32	5947.91	184213.23	265917.93	118.19
Perforated pipe, 200mm	M	914.39	50220.91	1288.05	51508.96	72096.24	32.04
PVC pipe,100mm	O	1205.82	2164.20	0.00	2164.20	29295.15	13.02
PVC pipe,75mm	n	815.99	1726.28	0.00	1726.28	20086.08	8.93
PVC pipe,50mm	ħ	416.87	1276.94	0.00	1276.94	10656.52	4.74
Steel pipe,500mm	n	14411.23	27064.63	119.22	27183.85	351436.53	156.19
Steel pipe,200mm	n	4297.13	18928.31	0.00	18028.31	114713.74	50.98
	kg	142.76	598.95	0.00	598.95	3811.05	1.69
Steel pipe,100mm	18	1628.81	15026.63	0.00	15026.63	51674.86	22.97
Steel ladder	kg	46.33	1299.86	134.69	1434.55	2476.98	1.10
Perforated pipe,150mm	i8	722.86	42038.80	1015.99	43054.79	59319.14	26.36
Fence, type A, 2m	kg	85.54	935.18	102.40	1037.58	2962.23	1.32
Steel pipe for water level	kg	147.96	277.87	1.22	279.09	3608.19	1.60
RC pipe,1006mm	120	4758.41	216340.06	8070.27	224410.33	331474.56	147.32
Reinfocing bar handling,crane	ton	3807.96	28835.14	297.73	29132.87	114811.97	51.03

Item No.
Work: Grout pipe for contact grout
Remarks: In, air vent pipe 40mm

Unit price: Description		ilní t	Quantity	Foreiga C	irrency	Local Cu	rrency	Daty &	Tax
Peset the tou		V		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Asount
Labor cost									
Foreman		nd	0.002	0.00	9.00	20600.00	41.20		0.00
Pipe fitter		шå	0.005	0.00	0.00	19000.00	95.00	0.00	9.00
Common labor		ad	0.020	0.00	0.00	17300.00	346.00	0.00	0.00
Subtotal					0.00	:	482.20		0.00
Material cost									
Grout pipe,40mg		g	1.000	621.00	621. 0 0	699.00	699.00	0.00	0.00
Miscellaneous(31)				and the second	18.63		20.97		0.00
Subtotal	* *				639.63		719.97		0.00
Overhead(25%)					159.91		300.54		0.00
Total					799.54		1502.71		0.00

Kork:

Item No. Nork:Cooling pipe,252m Remarks:Im Unit price: Description	Unit C	 wantity	Poreign (urrency	Local Cu	rreacy	Duty &	Tax
200011911011			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Foregan	nd	0.002	0.00	0.00	20600.00	41.20	0.00	0.00
Pipe fitter	ad	0.005	0.00	0.00	19000.00	95.60	0.00	0.00
Corson labor	ad	0.015	0.00	0.00	17300.00	259.50	0.00	0.00
Subtotal				0.00		395.70		0.00
Material cost								
Cooling pipe, 25mm	a	1.000	407.00	407.00	458.00	458.00	0.00	0.00
Miscellaneous(3%)	•			12.21		13.74		0.00
Subtotal				419.21		471.74		0.00
Overhead(25%)				104.80		216.86		0.00
Total				524.01		1084.30		0.00

Ites No. Nork:Steel step Remarks:1kg								
Unit price: Description	Unit	Quantity	Foreign C Unit Cost	urrency Amount	Local Cu Unit Cost	irreacy Amount	Duty & T Unit Cost	ax Amount
			••••				01.00	100.00
Round bar, 16mm	kg	1.600	25.00	40.00	323.00	516.80	85.00	136.00
Steel plate	kg	23.500	54.00	1289.00	60.00	1410.00	0.00	0.00
Manufacture (20%)	L.S.			•		6275.86		0.00
Overhead(25%)			•	327.25		2050.67		34.00
Total			•	1636.25		10253.33		170.00
Unit price(1kg)				65.19		408.50		6.77

Item No. Work:Steel pipe handrail, type 4, Remarks:23.72kg,1.20m,outdoor type Unit price:

Description		Unit Q	wantity	Foreign Currency		Local Currency		Dety & Tax	
0000.174.00			,	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Material cost				-					
Steel pipe,60mm		ħ	1.200	1049.00	1258.80	1180. 0 0	1416.00	0.00	0.00
Steel pipe,605m		0	1,350	1049.00	1416.15	1180.60	1593.00	0.00	0.00
Steel pipe,35mm		28	1.200	546.00	655.20	614.00	736.80	0.00	0.00
Kortar***		g3	0.002	0.00	0.00	0.00	0.00	0.00	0.00
Miscellaneous(3%)					99.90		112.37		0.00
Subtotal					3430.05		3858.17		0.00
Install(20%)	2 1 1	L.S.					16206.88		
Overhead(25%)					857.51		5016.26		0.00
Total					4287.57		25081.32		0.00
Unit price(1kg)	•				180.76		1057.39		0.00

Item No.
Work:Steel pipe handrail.type 3
Remarks:33.55kg.removal type

Unit price:						•			
Description		Unit Quantity		Poreign Currency		Local Cu	rrency	Caty &	Tax
24000 4,0000		,		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Material cost									
Steel pipe,50am		5	3.700	1049.00	3881.30	1180.00	4366.00	0.00	0.00
Steei pipe,35mm			1.000	546.00	546.00	614.00	614.90	0.00	0.00
Steel pipe 70am			0.230	1231.00	283.13	1385.00	318.55	0.00	0.00
Mortar	4 1	m3	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Miscellaneous(3%)		•			141.31		158.96	0.0	9.00
Subtotal					4851.74		5457.51		0.00
Install(20%)		L.S.					22924.34		
Overhead(25%)					1212.94		7095.46	. 7	0.00
Total					6064.68		35477.31		0.00
Unit price(1kg)				•	180.77		1057.45		0.00

Itea No. kork:Traps Remarks: 1kg Unit price: Unit Quantity Poreign Currency Local Currency Duty & Tax Description Unit Cost Amount Unit Cost Amount Unit Cost Asount 31914.55 852286.50 110467.50 Same of round barss ton 852.29 110.47 31.91 Unit price(1kg)

Item No.
Work: Fence, type A, 2.0mH

installation(20%)

Unit price(1m)
Unit price(1kg)

Total

Remarks: 10m								1.3
Unit price: Description	Unit	Quantity	Poreign C	urrency	Local C	urrenc)	Duty &	Tax
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Asount
L-100*100*7	kg	152.500	36.90	5490.00	467.00	71217.50	123.00	18757.50
L-45*45*4	kg	61.200	36.00	2203.20	467.00	28580.40	123.00	7527.60
Steel wire	kg	2.000	58.00	116.00	760.00	1520.00	200,00	400.00
Wire fabric	m2	20.000	642.00	12840.00	722.00	14440.00	0.00	0.00
Barbed wire	10	39.000	15.00	450.00	24.00	720.00	0.00	0.00
Gravel bedding**	m3	0.080	1357.07	108.57	35320.75	2825.66	4332.84	346.63
Concrete, E**	a 3	0.060	5120.76	307.25	53803.66	3228.22	12680.05	760.80
Steel plate, 150*150	kg	5.300	321.00	1701.30	361.00	1913.30	0.00	0.00
Subtotal	3			23216.31		124445.08		27792.53

23216.31 2321.63

85.54

L.S.

129362.42

253807.50

25380.75

935.18

27792.53

2779.25

102.40

Item No.

Work:Contraction joint
Remarks:1m2.Coating with bitumen to break bond
Unit price:

Unit price: Description	Unit	Quantity	Foreiga ·	Currency	Local Cu	rrency	Duty 4	Tax
		• • • • • • • • • • • • • • • • • • • •	Unit Cost	Asount	Unit Cost	Amount	Unit Cost	Amount
Labor cost						•		
Foresan	r Rd	0.010	0.00	0.00	20690.90	206.00	0.30	0.00
Concrete worker	ed	0.050	0.00	0.68	19000. 0 0	950.00	0.00	0.00
Common labor	nd	0.100	0.00	0.00	17300.00	1730.00	0.00	0.00
Subtotal				0.60		2886.00		0.00
Material cost								
Asphalt	kg	2.000	1.09	2.00	131.00	262.00	16.60	32.00
Miscellaneous(3%)	•			0.08		7.86		0.96
Subtotlal			•	2.06		269.86		32.96
Overhead(25%)				0.52		788.97		8.24
Totai				2.58		3944.83		41.20

Item No.
Nork:Dowel bar(22mm,300mm pitch,L=1000mm)
Remarks:Im,1ton

Unit price: Description	Unit	. Quantity	Poreign (lurrency	Local Currency		Duty & Tax	
3020.164000	•		Unit Cost	Amount	Unit Cost	Asount	Unit Cost	Asount
Round bar** Others(5%) Total(1m)	kg	3.040	32.00	97.28 4.86 102.14	914.00	2778.56 138.93 2917.49	111.00	337.44 16.87 354.31
Unit price(1ton)				33600.00	* · · · · · · · · · · · · · · · · · · ·	959700.00		116550.00

Item No. Work:Anchor bar and plate in blockout Remarks:Item Unit price:

Description Unit

Unit Quantity Poreign Currency Unit Cost Amount Local Currency Unit Cost Amount Duty & Tax Unit Cost Amount

10% up

36960.00

1055670.00

128205.00

Item No. Work: Form, plywood for architectural building Remarks: lm2

Remarks: rmz					,		•	
Unit price: Description	Reit O	Duantity	Poreign C	irrency	Local Cu	irrency	Duty &	lax
seact the rou		100.101.01	Unit Cost	Apount	Unit Cost	Amount	Unit Cost	Asount
Labor cost								
Porecan	ed :	0.059	0.00	0.00	20600.00	1215.40	0.00	0.00
Carpenter A	€ේ	0.591	0.00	0.00	19000.00	11229.00	0.00	0.00
Carpenter 3	ชนี	0.300	0.00	9.00	17300.00	5190.00	0.00	0.00
Cosson labor	ត្រប់	0.300	0.00	0.00	17300.00	5190.00	0.00	0.00
Subtotal				0.00		22824.40	*	0.00
Katerial cost				1		•		
Plywood	an3	0.011	23333.00	256.66	556500.00	6121.50	105000.00	1155.00
Timber square	2 3	0.016	1244.00	19.90	116200.00	1859.20	14000.00	224.00
Timber log	13	0.005	1067.00	5.34	99600.00	498.00	12000.00	60.00
Nail	kg	0.470	58.00	27.26	760.00	357.20	200.00	94.00
Annealed iron wire	kg	0.100	58.00	5.80	760.90	78.00	200.00	20.00
Form oil	lit	0.150	321.00	48.15	361.00	54.15	0.00	0.00
Miscellaneous(3%)				10.89		268.98		46.59
Subtotal				374.01		9235.03		1599.59
Overhead(25%)				93.50		8014.86		399.90
Total				467.51		40074.29		1999.49

Item No. Work: Non-embedded metal work Remarks:1ton Unit price: Local Currency July & Tax Foreign Currency Unit Quantity Description Unit Cost Amount Unit Cost Amount Unit Cost Amount 17766.50 467400.00 233700.00 123000.00 61500.00 35533.00 0.500 Steel channel,50% ton 0.500 26750.00 60188.00 30094.00 0.00 0.00 53500.00 Steel plate,50% ton 379624.58 L.S. Manufact and install (30%) 160854.64 15375.00 11129.13 Overhead(25%) 804273.22 76875.00 55645.63 Total 804.27 76.88 55.65 Unit price(1kg) Item No. Work: Embedded metal work Remarks: iton Unit price: Local Currency Duty & Tax Description Unit Quantity Foreign Currency Unit Cost Amount Unit Cost Amount Unit Cost Amount 17766.50 467400.00 233700.00 123000.00 61500.00 35533.00 0.500 Steel channel,50% ton 30094.00 0.00 0.00 26750.00 60188.00 0.500 53500.00 Steel plate 50% ton 632707.63 Manufact and install(50%) L.S. 15375.00 11129.13 224125.41 Overhead(25%) 76875.00 1120627.03 55845.63 Total 76.88 1120.63 55.65 Unit price(1kg)

Item No.
Nork:RC pipe,200mm
Remarks:1m

Kemarks: 1m								
Unit price:	Mate	Ouestite	Foreign C	Пераваг	Local Cu	PPGBOT	Doty &	Tay
Description	OHIL	Quantity	Unit Cost	Anount	Unit Cost	Amount	Unit Cost	
Labor cost								
Poreman	ød	0.020	0.00	0.00	20600.00	412.00	0.00	0.00
Pipe fitter	₽đ	0.165	0.00	0.00	19000.00	3135.00	0.00	0.00
Common labor	Вđ	0.295	0.00	0.00	17300.00	5103.50	0.00	0.00
Subtotal				0.00		8650.50		0.00
Katerial cost								
RC pipe,200mm	Ń	1.000	608.52	608.52	27368.29	27368.29	782.11	782.11
Portland cement	ton	0.006	4989.00	29.81	65360.00	392.16	17200.00	103.20
Aggregate, fine	∌3	0.009	1276.00	11.48	12301.00	110.71	4101.00	36.91
Hiscellaneous(31)				19.49		836.13		27.67
Subtotal				669.31		28707.29		949.89
Overhead(25%)				167.33		9339.45		237.47
Total		•		836.64		46697.24		1187.36
Concrete,4cm	5 3	0.030	5273.9?	158.22	55542.70	1666.28	13133.37	394.00
Form	a 2		348.79	525.63	20139.67	30350.48	210.51	317.24
Reinforcement	kg		32.00	76.80	914.00	2193.60	111.00	266.40
Total	8		30	760.65		34210.36		977.64
Unit exclude OH(200mm pipe)				608.52		27368.29		782.11

Ites No. Work:RC pipe,300ma Remarks:1m Unit price: Local Currency Duty & Tax Poreign Currency Unit Quantity Description Unit Cost Amount Unit Cost Unit Cost Amount Amount Labor cost 0.00 0.00 0.00 0.00 20600.00 412.00 0.020 Foreman Вġ 0.00 0.00 0.00 0.00 19000.00 3135.00 вj 0.165 Pipe fitter 0.00 5103.50 0.00 0.00 17300.00 Common labor ad 0.295 0.00 0.00 0.00 8650.50 Subtotal Material cost 1338.75 41074.75 1338.75 1,000 958.01 958.01 41074.75 RC pipe,300am n 17200.00 103.20 65360.00 392.16 0.006 4369.00 29.81 Portland cement ton 36.91 110.71 4101.00 0.009 1276.00 11.48 12301.00 Aggregate, fine 83 29.98 1247.33 44.37 Miscellaneous(31) 1029.29 42824.95 1523.22 Subtotal 257.32 12868.86 380.81 Overhead(25%) 1286.61 64344.31 1904.03 Total 3054.85 13133.37 722.34 23 0.055 5273.97 290.07 55542.70 Concrete,5cm 766.64 20139.67 44266.99 210.51 462.70 **#2** 2.198 348.79 Form 488.40 4021.66 111.00 4.400 32.00 140.80 914.00 Reinforcement kg 1673.44 1197.51 51343.44 Total 1338.75

Unit exclude OH(300mm pipe)

958.01

41074.75

Item No. Work:Concrete drain pipe,600mm

Remarks:1m

WC # 01 WO - 1 W								
Unit price:	Mate	Ourat (tr	Panaise	Currency.	Local C	irranet:	Duty &	Tax
Description	Unit	Quantity	Unit Cost		Unit Cost	Amount	Unit Cost	Amount
Labor cost			***************************************					
Foresan	a d	0.070	0.00	0.00	20600.00	1442.00	0.00	0.00
Pipe fitter	s d	0.247	0.00	0.00	19000.00	4693.00	0.00	0.09
Common labor	sd.	0.716	0.00	0.00	17300.00	12386.80	0.00	0.00
Subtotal				0.00		18521.80	**	0.00
Material cost								
RC pipe,600sm	æ	1.000	1933.72	1933.72	79546.49	79546.49	2881.78	2881.78
Portland cement	ton	0.003	4969.00	14.91	65360.00	196.08	17200.00	51.60
Aggregate, fine	53		1276.00	5.10	12301.00	49.20	4101.00	16.40
Hiscellaneous(3%)				58.61		2393.75		88.49
Subtotal				2012.34		82135.53		3038.28
Overhead(25%)				503.09		25176.83	:	759.57
Total				2515.43		125884.16		3797.85
Concrete, Sca	as3	0.124	5273.97	653.97	55512.70	6887,29	13133.37	1628.54
Porm	a2		348.79		20139.67	83478.93	210.51	872.56
= = :			32.00		914.00	9066.88	111.00	1101.12
Reinforcement	kg	3.343	06.00	. 017.44	011.00	000100	111.00	
Total				2417.15		99433.11		3602.22
Unit price exclude OH				1933.72		79546.49		2881.78

Item No. Work:RC pipe,800mm Remarks:1m Unit price:

Unit price:									_
Description		Unit	Quantity	Poreign	Currency	Local C	urreacy	Duty L	Tax
•				Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost									
Poresan		Rá	0.100	0.00	0.00	20600.00	2060.00	0.00	0.00
Pipe fitter		ьd	0.420	0.00	0.00	19000.00	7980.00	0.00	0.00
Common labor		ВÓ	1.179	0.00	0.00	17300.00	20396.70	0.00	0.00
Subtotal				•	0.00		30436.70		0.00
Material cost									
RC pipe,800mm		2	1.000	2721.66	2721.66	107694.19	107694.19	4283.82	4283.82
Portland cement		ton	0.015	4969.00	74.54	65360.00	980.40	17200.00	258.00
Aggregate, fine		m 3	0.019	1276.00	24.24	12301.00	233.72	4101.00	77.92
Miscellaneous(31)					84.61		3267.25		138.59
Subtotal					2905.05		112175.56		4758.33
Overhead(25%)					726.26		35653.06		1189.58
Total				-	3631.32		178265.32		5947.91
Concrete,7cm		æ3	0.191	5273.97	1007.33	55542,70	10608.66	13133.37	2508.47
Fora		a 2		348.79		20139.67	110043.16	210.51	1150.23
· ·		kg		32.00		914.00	13965.92	111.00	1696.08
Reinforcement		Ng	10.200	34.00	400.00	013.00	10000.00	111.00	1000100
Total					3402.08		134617.73		5354.78
Unit price exclude	HC				2721.66		107694.19		4283.82

Item No.
Work:Perforated concrete pipe,200mm
Remarks:Im
Init orige:

Unit price: Description	-	lini:	Quantity	Poreign	Currency	Local Cu	rrency	Duty 1	Tax
beset the ton		CHIL	Aggiores	Unit Cost		Unit Cost	Amount	Unit Cost	Amount
Labor cost									0.00
Foreman		ad	•	0.00		20600.00	412.00	0.00	0.00
Pipe fitter		ьd	9.165	0.00	the state of the s	19000.00	3135.00	0.00	0.00
Common labor		n d	0.295	0.00	0.00	17300.00	5103.50	6.00	0.00
Subtotal	*				0.00		8650.50	100	0.03
Material cost							1		
RC pipe,200mm		. 80	1.000	669.37	669.37	30105.12	30105.12	860.32	860.32
Portland cement	-	ton	0.006	4969.00	29.81	65360.0 0	392.16	17200.00	103.20
Aggregate fine		e 3	0.009	1276.00	11.48	12301.00	110.71	4101.00	
Miscellaneous(31)					21.32		918.24		30.01
Subtotal			,	1 4	731.99		31526.23		1030.44
Overhead(251)					183.00	•	10044.18	1	257.61
Total					914.99		50220.91		1288.05
Concrete Acm		2 3	0.030	5273.97	158.22	55542.70	1668.28	13133.37	394.00
Porm		3 2	1.507	348.79	525.63	20139.67	30350.48	210.51	317.24
Reinforcement		kg	2.400	32.00	76.80	914.00	2193.60	111.00	266.40
Other(10%)					76.06		3421.04		97.76
Total					836.71		37631.40		1075.40
Unit price exclude O	1				669.37		30105.12	* . *	860.32

Item No. Nork:PVC pipe,100mm Remarks:Im Unit price:	11-24	^	Paratira	C	lovel C	U-moda!	Duty &	Tor
Description	ŲNII	Quantity	voreiga Unit Cost	Corrency Amount	Local Countries	arreacy Amonat	Unit Cost	Asount
labor cost			0.110 0000	****		•		
Foreaan	æá	0.001	0.00	0.00	20600.00	20.60	0.00	0.00
Pipe fitter	e e đ	0.012	0.00	0.00	19000.00	228.00	0.00	0.00
Common labor	nd	0.023	0.00	0.00	17300.00	397.90	0.00	0.00
Subtotal				0.00		646.50		0.00
Material cost								
PVC pipe,100mm	a	1.000	931.00	931.00	1047.00	1047.00	0.00	0.00
Adhesive agent	kg	0.010	556.00	5.56	626.00	6.26	0.00	0.00
Miscellaneous(3%)				28.10		31.60		0.00
Subtotal				964.66		1084.86		0.00
Overhead(25%)				241.16		432.84		0.00
Total				1205.82		2164.20		0.00
Item No.								
Work:PVC pipe,75mm,weep hole								
Remarks:1m								
Unit price:								
Description	linit	Quantity	foreign	Currency	Local Ci	urrency	Duty &	Tax
beact the ton	OHIO	deauere)	Unit Cost		Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Forenan	ad	0.001	0.00	0.00	20600.00	20.60	0.00	0.00
Pipe fitter	o d		0.00	0.00	19000.00	228.00	0.00	0.00
Common labor	ød	0.023	0.00	0.00	17390.00	397.90	0.00	0.00
Subtotal				0.00		646.50		0.00
Material cost							_	
NUA 1 - 45		1 000	631 60	621 00	710 00	710 00	ል ልል	ብ በዕ

631.00

2.78

19.01

652.79

163.20

815.99

1.000

0.005

kg

PVC pipe,75mm

Subtotal

Overhead(25%)

Total

Adhesive agent

Miscellaneous(31)

631.00

556.00

710.00

826.00

710.00

3.13

21.39

734.52

345.26

1726.28

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

Item No.				•		•		
Work:PVC pipe,50mm								
Remarks: lm			•			•	•	ar artifica
Unit price:	•							
Description	. Unit	i Quantity	Poreign C	urrency	Local Co	irrency	Duty & 1	ax
			Unit Cost	Amount	Unit Cost	Anguat	Unit Cost	Amount
Labor cost			-		•	•		
Foreman	400	0.001	0.00	0.00	20600.00	20.60	0.00	0.00
Pipe fitter		9.012	0.00	0.00	19000.00	228.00	0.00	0.00
Common labor	E-C	0.023	0.00	0.00	: 17300.00	397.90	0.00	0.00
Subtotal				0.00		646.50		0.00
Haterial cost								
PVC pipe,50mm		1.000	321.00	321.00	361.00	351.00	0.00	0.00
Adhesive agent	k	g 0.005	556.00	2.78	626.00	3.13	0.00	0.00
Miscelianeous(31)	·			9.71		10.92		0.00
Subtotal				333.49		375.05		0.00
Overhead(25%)				83.37		255.39		0.00
- Total			•	416.87		1276.94		0.00

Item No. kork:Steel pipe,500mm Remarks:1m Unit price: Description

Unit price:					I 1 . 0		David at 1	
Description	Unit	Quantity	Poreign (Local Cu		Duty & '	
			Unit Cost	Arount	Unit Cost	Amount	Unit Cost	Arount
Labor cost								
Foresan	36	0.020	6.00	0.00	20600.00	412.00	0.00	0.00
Operator	ba	0.060	0.00	0.00	25600.00	1536.00	0.00	0.00
Rigger	តថ	0.060	0.00	0.00	19900.00	1140.00	0.03	0.00
Skilled labor	ad	0.120	0.00	0.00	20900.00	2508.00	0.00	0.00
Subtotal				0.00		5596.00		0.00
Material cost							•	•
Steel pipe 500mm	ß	1.000	10561.00	10561.00	11881.00	11881.00	0.00	0.00
Light oil	lit	1.400	4.60	5.60	353.00	494.20	1.00	1.40
Lubricant	lit	0.146	44.00	6.42	4150.00	605,90	500.00	73.00
Grease	kg	0.028	58.00	1.62	5395.00	151.06	650.00	18.20
Miscellaneous(3%)	J			317.24		393.98		2.78
Subtotal				10891.89		13526.12	•	95.38
Equipment cost								
Truck bed crane, 2.9t	hr	0.280	2167.00	606.76	8604.00	2409.12	0.00	0.00
Miscellaneous(5%)				30.34		120.46		0.00
Subtotal				637.10		2529.58		0.00
Overhead(25%)				2882.25		5412.93		23.84
Total				14411.23		27064.63		119.22
Unit Price(1 kg)				147.96		277.87		1.22

Item No. Work:Steel	pipe,200ma
Remarks:le	
Half arises	

Unit price: Description	llnit	Quantity	Poreign (Currency	Local Cu	irrency	Duty & 1	Tax
bezet the tou	·	*440,102.03	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost				(Yen)		(\$/.)	5.66	(\$/.)
Foregan	æd	0.030	0.00	0.00	20600.00	618.00	0.00	0.00
Pipe fitter	æð	0.218	0.00	0.00	-19000.00	4142.00	მ.00	0.00
Common labor Subtotal	nd		0.00	0.00	17300.00	5795.50 10555.50	0.00	0.00 0.00
Material cost Steel pipe,200mm Miscellaneous(5%) Subtotal Overhead(25%) Total	1	1.000	3274.00	3274.00 163.70 3437.70 859.43 4297.13	3683.00	3683.00 184.15 3867.15 3605.66 18028.31	0.00	0.00 0.00 0.00 0.00
Unit price(1kg),30.1kg/a				142.75		598.95		0.00

Item No. Work:Steel pipe,100mm Remarks:Im Unit price:

Unit price: Description	Unit	Quantity	Foreign	Currency	Local Cu	Jrrency	Duty &	Tax
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost								
foresan	nad	0.030	0.00	0.00	20600.30	618.00	0.60	0.00
Pipe fitter	od.	0.218	0.00	0.00	19000.00	4142.00	0.00	0.00
Common labor	nd.	0.335	0.00	0.00	17300.00	5795.50	0.00	0.00
Subtotal				0.00		10555.50		0.00
Material cost			. :					
Steel pipe,100mm	n n	1.000	1241.00	1241.00	1396.00	1396.00	0.00	0.00
Miscellaneous(5%)				62.05		69.80		0.00
Subtotal				1303.05		1465.80		0.00
Overhead(25%)				325.76		3005.33		0.00
Total				1628.81		15026.63		0.00
Unit Price,kg (12.2)				133.51		1231.69		0.00

Item No. Kork:Steel ladder,type A,H=1.2m Remarks:21.87kg

Unit price: Description	Unit	Quantity	foreiga (Currency	Local Currency		Duty & Tax	
veset tyeron			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
L-50*50*6	kg	3,367	36.00	121.21	467.00	1572.39	123.00	414.14
Steel plate,150*150*6	kg	2.121	54.00	114.53	60.00	127.26	0.00.	0.00
L-50*50*6	ĸg	388.0	36.00	31.90	467.00	413.76	123.00	103.98
L-50*50*6	kg	10.632	36.00	382.75	467.00	4965.14	123.00	:1307.74
Round bar, 22cm	kg	4.864	25.00	121.60	323.00	1571.07	85.00	_: 413.44
Miscellaneous(5%)			•	38.60		432.48	- *	112.21
Subtotal			-	810.59		9082.11		2356.51
Install and weld,50% LC	L.S.					13660.23		
Gverhead(251)				202.65		5685.59		589.13
Total				1013.24		28427.93		2945.64
Unit price(lkg)		÷		46.33		1299.86	-	134.69

Item No.
Work:Perforated concrete pipe,150mm
Remarks:1m
Unit price:

Unit price: Description	Unit	Quantity	Foreign	Currency	Local Cu	rreacy	Duty &	Tax
***************************************	•		Unit Cost		Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Forenan	ed	0.020	0.00	0.00	20600.00	412.00	0.00	0.00
Pipe fitter	ad	0.165	0.00	0.00	19000.00	3135.00	0.00	C.00
Common labor	o d	0.295	0.00	0.00	17300.00	5103.50	0.00	0.00
Subtotal				0.00		8650.50		0.00
Material cost								
RC pipe,150mm	Ü	1.000	531.63	531.63	23860.79	23860.79	685.92	685.92
Portland cement	ton	0.006	4969.00	29.81	\$5360.00	392.16	17200.00	103.20
Aggregate, fine	2 13		0.00	0.00	0.00	0.03	0.00	0.00
Miscellaneous(31)			1.0	16.84		727.59		23.67
Subtotal				578.29		24989.54		812.79
Overhead(25%)				144.57		8407.76		203.20
Total				722.86		42038.80		1015.99
Concrete,4cm	m3	0.024	5273.97	126.58	55542.70	1333.02	13133.37	315.20
Form	m 2			416.11	20139.67	24026.63	210.51	251.14
Reinforcement	kg				914.00	1754.88	111.00	213.12
Other (10%)	***	,	•=	60.41		2711.45		77.95
Total				664.53		29825.98		857.41
Unit price exclude OH				531.63		23860.79		685.92

Ites No.
Work: RC pipe, 1000au
Remarks:10
Unit price:

WCmgrw2.1m								
Unit price:							Duka II.	m
Description	valt	Quantity		Currency	local C	urreacy	Duty 4	
•			Vait Cost	Asount	Unit Cost	Amount	Vait Cost	Amount
Labor cost								
Poreman	ad	0.100	0.00	0.00	20600.00	2060.00	0.00	0.00
Pipe fitter	e ad	0.420	0.00	0.00	19000.00	7380.00	0.00	0.00
Common labor	a d	1.179	0.00	0.00	17300.00	20396.70	0.00	0.00
Subtotal				0.00		30436.70		0.00
Katerial cost								1 12 10
RC pipe,1000mm		1.000	3597.07	3597.07	137266.80	137266.80	5932.25	5932.25
Portland cement	ton	0.015	4969.00	74.54	65360.00	980.40	17200.00	258.00
Aggregate, fine		0.019	1276.00	24.24	12301.00	233.72	4101.00	77.92
Miscellaneous(31)				110.88		4154.43		188.05
Subtetal				3806.72		142635.35		6456.21
Overhead(25%)			p.	951.68		43268.01		1614.05
Total				4758.41		216340.06		8070.27
Concrete,8cm	· a 3	0.272	5273.97	1434.52	55542.70	15107.61	13133.37	3572.28
•	92		348.79		20139.67	136587.24	210.51	1427.68
Reinforcement	kg		32.60			19888.84	111.00	2415.36
	0	,						
Total				4496.33		171583.50	,	7415.32
Unit price exclude OH				3597.07		137266.80		5932.25

S

Item No.
Kork:Reinforcing bar handling
Remarks:Iton

Unit price: Description	Unit	Quantity	Poreign (urranet	Local Cu	erronev Caronev	Dety &	Tav
peact the tou	0015	Agentics	Unit Cost	Amount	Unit Cost	Asount	Unit Cost	Amount
Labor cost								
Foresan	ba	0.025	0.00	0.00	20600.00	515.00	6.09	0.00
Operator	r d	0.100	0.00	0.00	25600.00	2560.00	0.00	0.00
Common labor	. s d	0.200	0.00	0.00	17300.00	3460.00	0.00	6.00
Subtotal				0.03	•	6535.00		0.00
Material cost								
Light oil	lit	7.500	4.00	30.00	353.00	2647.50	1.00	7.50
Lubricant	lit	0.350	44.00	15.40	4150.00	1452.50	500.00	175.00
Grease	kg	0.075	58.00	4.35	5395.00	404.63	650.00	48.75
Miscellaneous(3%)	· ·			1.49		135.14		6.94
Subtotal				51.24		4639.76		238.19
Equipment cost								
Truck crane,30t	hr	0.500	5705.00	2852.50	22654.00	11327.00	0.00	0.90
Miscellaneous(5%)				142.63		566.35		0.00
Subtotal				2995.13		11893.35		0.00
Overhead(25%)				761.59		5767.03		59.55
Total				3807.96		28835.14		297.73

O MISCELLANEOUS (2)

Kork	Unit	** FC **	LC	Duty, Tax	88 FC 88	Total	Total
		(Yen)	(\$/.)	(\$/.)	(\$/.)	(\$/.)	(US\$)
Wet rubble masonry, A, out	m2	1695.57	33138.43	4693.92	37832.35	75982.68	33.77
ket rubble masonry, B, embank	ø2	2136.62	44617.68	6102.10	50719.78	98793.73	43.9 1
Stone pitching, A	π2	1317.91	26011.00	3612.88	29623.88	59276.86	26.35
Stone pitching,B	5 2	424.52	11983.37	1266.45	13249.82	22801.52	10.13
Masonry/Stone pitching, quarry	m2	310.43	12324.20	997.49	13321.69	20306.37	9. 03
Stone masonry	· a2	483.72	19417.03	1554.56	20971.59	31855.29	14.16
Drill anchor bar hole	ø	1198.05	3249.90	19.43	3269.33	30225.46	13.43
Anchor bar,25mm	Ø	1354.36	7177.40	559.43	7736.83	38209.93	16.98
Gabion, 40*120cm	p 3	6270.75	30023.19	2627.16	32650.35	173742.23	77.22
Turfing	в2	0.00	4125.25	0.00	4125.25	4125.25	1.83
Turfing and sodding	m 2	3.05	4621.83	0.02	4621.85	4690.48	2.08
Concrete spray, with net, 100	2 2	1605.01	15714.92	1702.48	17417.40	53530.13	23.79
	23	16050.09	157149.19	17024.78	174173.97	535301.00	237.91
Dewatering,pump,80mm	day	826.32	29764.04	122.36	29886.40	48478.60	21.55
Dewatering, pump, 100mm	day	1458.44	35503.26	205.79	35709.05	6 852 3. 95	30.46
Grouting in tunnel	B	2020.55	77778.64	296.64	78075.28	123537.66	54.91
Backfill grout	₽3	6691.14	27247.43	3631.63	30879.06	181429.71	80.64
Pipe for grout hole	M	702.98	4811.15	0.00	4811.15	20628.20	9.17
Grout material	ton	7718.56	85638.06	22145.00	107783.06	281450.66	125.03
	kg	7.72	85.64	22.15	107.79	281.49	0.13

Item No. Work:Wet rubble masonry,type A.cut section Remarks:1m2 Unit Price:

11=	it Daises			4.4					
Unit Price: Description		Unit	Quantity	Poreign Cu	rrency	Local Cu	irrency	Dety & T	ax
				Vait Cost	Amount	Unit Cost	laount	Unit Cost	Amount
	248384								
1	Sasonry	a 2	1.000	310.43	310.43	12324.20	12324.20	997.49	937.49
2	Foundation concrete,E	E 3	0.034	5120.76	174.11	53803.66	1829.33	12680.05	431.12
	Backfill concrete, 6	a 3	0.150	4485.07	672.76	48951.58	7342.74	11532.70	1729.91
	Free drainage	3	0.300	1357.07	407.12	35320.75	10596.23	4332.84	1299.85
	Cap concrete.H	n3	0.020	4551.50	91.03	50041.14	1000.82	11777.75	235.56
	PVC pipe,50mm,0.5m,0.25/m2	. 0	0.125	321.00	40.13	361.00	45.13	0.90	0.09
Ī	Unit price				1695.57		33138.43		4593.92

Item No.
Work:Wet rubble masonry,type B,embankment section
Remarks:1m2
Unit Price:

Description		Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	invont
****				(Yea)		(\$/.)		(\$/.)
1 Hasonry	2	1.000	310.43	310.43	12324.20	12324.20	997.49	997.49
2 Foundation concrete.E	z 3	0.034	5120.76	174.11	53803.66	1829.32	12680.05	431.12
3 Gravel bedding	m 3	0.125	1357.07	169.63	35320.75	4415.09	4332.84	541.61
4 Backfill concrete,G	€3	0.150	4485.07	672.76	48951.58	7342.74	11532.70	1729.91
5 Free drainage	# 3	0.500	1357.07	678.54	35320.75	17660.38	4332.84	2165.42
6 Cap concrete, N	æ3	0.020	4551.50	91.03	50041.14	1000.82	11777.75	235.56
7 PVC pipe,50mm,0.5m,0.25/m2	10.	0.125	321.00	49.13	361.00	45.13	0.00	0.00
Unit price				2136.62		44617.68		6102.10

Item No. Work:Stone pitching,type & Remarks:1m2 Unit Price:

Unit Price: Description	Unit Quantity	Poreiga Cu	rrency	Local Cu	iccency	Duty &	Tax -
3514*	•	Unit Cost	Amount (Yen)	Vait Cost	Amount (S/.)	Usit Cost	Amount (S/.)
1 Stone pitching,30cm 2 Backfill concrete,6 3 Gravel bedding 4 Cap concrete,H 5 Keep hole	m2 1.000 m3 0.150 m3 0.150 m3 0.020 m 0.125	310.43 4485.07 1357.07 4551.50 321.00	310.43 672.76 203.56 91.63 40.13	48951.58 35320.75 50041.14 361.00	12324.20 7342.74 5293.11 1000.82 45.13 26011.00	11532.70 4332.84 11777.75 0.00	997.49 1729.91 649.93 235.56 0.00 3612.88

Item No. Work: Stone pitching, type B Remarks: 102 Unit Price: Poreign Currency Local Currency Duty & Tax Unit Quantity Description Unit Cost Amount Unit Cost Amount Uait Cost Amount (s/.) (S/.)**** (Yen) 1.000 155.22 6162.10 6162.10 498.75 498.75 ø2 155.22 1 Stone pitching, 15cm 0.00 48951.58 0.00 11532.70 0.00 0.000 4485.07 2 Backfill concrete.G **m3** 5298.11 4332.84 649.93 0.150 1357.07 203.56 35320.75 пЗ 3 Gravel bedding 11777.75 117.78 45.52 500.41 ш3 0.010 4551.50 50041.14 4 Cap concrete,# 22.74 0.00 0.00 321.00 20.22 361.00 5 Reep hole 0.063 11983.37 1266.45 424.52

Item No.
Work: Hasonry/Stone pitching
Remarks: 1m2, rubble stone from quarry

Unit price(1m3)

Vait Price: Description	. Unit	Quantity	Foreign Cu	irrency	Local Cu	rrency	Duty & 1	ľax
)CBC1 Iption	0		Unit Cost	Amount	Unit Cost	Anount	Unit Cost	Amount
Labor cost				(Yen)		(S/.)		(\$/.)
Foregan	ød	0.010	0.00	0.00	20600.00	206.00	, 0.00	0.00
Mason	e d	0.200	0.00	0.00	19000. 0 0	3800.00	0.00	0.00
Common labor	ad	0.200	0.00	0.90	17300.00	3460.00	0.00	0.00
Subtotal				0.00		7466.00		0.00
Material cost	•		:					
Rubble stone***	123	0.300	704.00	211.20	6784.00	2035.20	2262.00	678.60
Gravel***	g:3	0.030	397.00	29.91	9615.00	288.45	3205.00	96.15
Miscellaneous(3%)	•			7.23		69.71		23.24
Subtotal				248.34		2393.36		797.99
Overhead(25%)				62.09		2464.34		139.50
Total				310.43		12324.20		997.49

1034.76

3324.97

41080.66

Item No. Work:Stone masonry Remarks:1m2 Unit Price:

Unit Price:							S	· · ·
Description	Unit	Quantity	Foreign Cu	urency	tocal Cu	a teusk	Duty & T	ax
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost			•	(Yen)		(\$/.)		(S/.)
Foreman	ba	0.020	0.00	0.00	20600.00	412.00	0.00	0.00
Mason	nd	0.198	0.00	0.00	19000.00	3762.00	0.00	0.00
Common labor	nd	0.441	0.00	0.00	17300.00	7629.30	0.00	0.00
Subtotal				0.00		11803.30		0.00
Hateroal cost								
Rubble***	a3	0.300	704.00	211.20	6784.00	2035.20	2262.00	678.60
Gravel***	£n.	9.165	997.00	164.51	9615.00	1586.48	3205.00	528.83
Miscellaneous(3%)		•		11.27		108.65		36.22
Subtotal				386.98		3730.33		1243.65
Overhead(25%)				96.74		3883.41		310.91
Total				483.72		19417.03		1554.56

Item No.

Kork: Drilling anchor bar hole

Remarks: 100m, drilling by	
Unit Price: Description	Unit (
Labor cost	nó

Description	Unit	Unit Quantity Foreign Currency		irreacy	tocal O	asth a lax		
Labor cost			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Poresan	and	0.164	0.00	0.90	20600.00	3378.40	0.00	0.00
	nd nd		0.00	0.00		20992.00		0.00
Operator	nd.	0.820		0.00		14678.00		0.00
Assist operator			0.00	0.00		28372.00		0.00
Common labor	ගර	1.640	9.03			67420.40		3.00
Subtotal				0.00		01460.40		0.00
Material cost					12200 25	10050.00	0.00	0.00
Bit.65mm	No.	1.000	13442.00	43442.00		48872.00		9.00
Rod.3m	No.	0.333	52430.00	17459.19		19641.67		0.00
Sleeve	No.	0.200	10593.00	2118.60	11917.00	2383.40		0.00
Shank rod	No.	0.200	39590.00	7918.00	44539.00	8907.30	0.00	0.00
light oil	lit	18.134	4.00	72.54	353.00	6491.30	1.00	18.13
Lubricant	lit		44.00	122.06	4150.00	11512.10	500.00	1387.00
Grease	kg			9.28	5395.00	863.20	650.00	164.00
Hiscellaneous(3%)	3		, -	2134.25		2957.44		45.27
Subtotal				73275.91		101538.92		1554.41
Equipment cost								
Crawler drill,16m3/min	hr	5.333	2007.00	10703.33	8223.00	43853.26	0.00	0.00
Air compressor, 13.5m3/min	day	0.821	13143.00	10790.40	52186.00	42844.71	0.00	0.00
Miscellaneous(5%)	•			1074.69		4334.90		0.00
Subtotal				22568.42		31032.86		0.00
Overhead(25%)				23961.08		64998.05		388.60
Total				119805.42		324990.23		1943.01
Unit price				1198.05		3249.90		19.43

Item No. Work: Anchor bar, 25mm Remarks:10a Unit Price: Duty & Tax Local Currency Foreign Currency Unit Quantity Description Amount Unit Cost Unit Cost Amount Unit Cost Amount (\$/.) · (\$/.) (Yen) 4418.70 110467.50 1276.58 852286.50 31091.46 0.040 31914.55 1 Anchor bar, 25mm, deformed** ton 3249.90 19.43 194.30 32499.00 10.000 1198.05 11980.50 2 Orilling 65mm æ **m3** 934.54 28319.53 3 Mortar,1:1**** 0.033 8269.48 272.89 149596.50 1936.68 13.64 246.83 46.73 4 Injection(5%) 71773.98 5594.27 13543.62 total 1354.36 7177.40 559.43 Unit price

Item No. Work:Gabion

Remarks:1m, rectangular type, H=40cm, K=120cm, 0.48m3

Unit Price: Description	Unit 0	uantity	Poreign Cu	rency	Local Cu	rrency	Duty & 1	ax
30001 Ip 4440			Unit Cost	Asount	Unit Cost	Amount	Unit Cost	Amount
Labor cost				(Yen)		(S/.) .		(\$/.)
Foregan	ad	0.027	0.00	0.00	20600.00	556.20	0.00	0.00
Gabion worker	вÇ	0.053	0.00	0.00	19000.00	1007.00	0.00	0.00
Common labor	be	0.265	0.00	0.00	17300.00	4584.50	0.00	0.00
Subtotal				0.00		6147.70		0.00
Material cost								
Gabion,8=40cm	10	1.000	2933.00	2033.00	2287.00	2287.00	9.00	0.00
Cobble stone***	a 3	0.433	704.00	304.83	6784.00	2937.47	2262.00	979.45
Miscellaneous(3%)				70.13		156.73		23.38
Subtotal				2407.97		5381.21		1008.83
Overhead(25%)				601.99		2882.23		252.21
Total				3009.96		14411.13		1261.04
Unit price(1m3)				6270.75		30023.19		2627.16

item No.									
Work:Turfing Remarks:1m2		٠.						•	
Unit Price:								+ +	
Description		Unit	Quantity	Foreign Cu	rrency	Local C	urrency	Daty &	Tax
30041.1				Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost									
Foresan		nd	0.007	0.00	0.00	20600.00	144,20	0.00	0.00
Skilled labor		вd	0.015	0.00	0.60	20900.00	313.50	0.00	0.00
Common labor		ad	0.075	0.99	0.00	17300.00	1297.50	0.00	0.00
Subtotal					0.00		1755.20		0.00
Material cost	٠.								
Turf		n 2	0.500	0.00	0.00	3000.00	1500.00	0.00	0.00
Fertilizer		kg	0.600	0.00	0.00	0.00	0.00	0.00	0.00
Hiscellaneous(3%)		Ť			0.00		45.00		0.60
Subtotal					0.00		1545.00		0.00
Overhead(25%)					0.00		825.05		0.00
Total					0.00		4125.25		0.00
Sod facing					3.05	4.5	496.58		0.02
Unit price(combined)					3.05		4621.83		0.02

Item No. Work:Slope protection,Concrete spray, Remarks:im2,with net.t=100mm.0.1m3

Unit Price: Description	Unit O	pantita	Foreign Cu	rreacy	Local Cu	irreacy	Duty & 1	fax -
Seser Iperon	0		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	4mount
Labor cost				(Yen)		(S/.)		(\$/.)
Foresan	ba	0.020	0.00	0.00	20600,00	412.00		0.00
Concrete worker	ad	0.030	0.00	0.00	19000.00	570.00	0.00	0.00
Operator	nd	0.030	0.00	0.60	25600.00	768.00		0.00
Reinforcement worker	nd	0.075	0.00	0.00	19000.00	1425.00		0.00
Skilled worker	nd	0.039	0.00	0.00	20900.00	815.10		C.00
Common labor	ad	0.039	0.00	0.00	17300.00	674.70	0.00	0.00
Subtotal			•	0.00	·	4664.80		0.00
Material cost								1 1
Portland cement	ton	0.042	4969.00	208.70		2745.12		722.40
Aggregate,fine***	m 3	0.082	1276.00	104.63		1008.68		336.28
Aggregate, coarse***	a 3	0.055	1060.00	58.30		56i.38		187.33
Lozenge shape net 10mesh	æ2	1.290	337.00	404.40		454.80		0.00
PVC pipe,40mm	· •	-0.040	235.00	9.40		10.56		0.80
Deformed bar, D13	kg	0.400	25.00	10.00		129.20		34.00
Light oil	lit	1.930	4.00	7.72		681.29		1.93
Lubricant	lit	0.078	44.00	3.43		323.70		
Gasoline	lit	0.071	6.00	0.43		35.57		0.07
Grease	kg	0.002	58.00	0.12		10.79		1.30
Miscellaneous(31)				24.21		178.85		39.67
Subtotal				831.34		6140.44		1361.98
Equipment cost								
Concrete spray gun,5m3	նւ	0.100	1674.00	167.40		642.60		0.00
Air compressor, 10.5m3/min	day	0.014	11379.00	159.31		632.56		0.00
Concrete mixer, 0.2m3	day	0.014	5178.00	72.49		297.01		0.00
Belt conveyor,7m	day	0.029	1060.00	30.74		104.49		0.00
Pick hammer	day	0.003	392.0 0	1.18		5.91		0.00
Volute pump,50mm	day	0.002	0.00	9.00		0.00		3.00
Miscellaneous(5%)				21.56		84.13		0.00
Subtotal				452.67		1766.69		0.00
Overhead(25%)				321.00		3142.98		340.50
Total				1605.01		15714.92		1702.48
Unit price			:	16050.09		157149.19		17024.78

Item No.

Work: Dewatering, waterpump 80mm Remarks: 1day Unit Price:

Aute tites.					•			
Description	Unit	Quantity	- Poreign Cu	rrency	Locai C	ucrency	Duty &	Tax
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Agount
Labor cost				(Yen)		(S/.)		(S/.)
Foreman	úď	0.005	0.00	0.00	20600.00	103.00	0.00	0.00
Mechanic	nd	0.300	0.00	0.00	25760.09	7710.00	0.00	0.00
Skilled iabor	nd	0.090	0.00	0.00	26900.00	1881.00	8.00	0.00
Common labor	nd	0.450	0.00	0.00	17300.00	7785.00	0.00	0.00
Subtetal				0.00		17479.00		0.00
Material cost								
Electric***	kı h	11.880	7.00	83.16	281.00	3338.28	8.00	95.04
Hiscellaneous(31)				2.49		160.15		2.85
Subtotal				85.65		3438.43		97.89
Equipment cost				-				•
Volute pump,80mm	day	1.000	548.00	548.00	2756.00	2756.00	0.00	0.00
Miscellaneous(5%)				27.40		137.80		0.00
Subtotal				575.40		2893.80		0.00
Overhead(251)				165.26		5952.81		24.47
Total				826.32		29764.04		122.36

Item No. Work:Dewatering,waterpump 100mm Remarks:Iday Unit Price:

Unit Price: Description	Unit	Quantity	Poreign Cu	rrency	Local Cu	rrency	Daty & 3	ax
SCSCI IPVIVII		(2	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
labor cost				(Yea)		(S/.)		(\$/.)
Foresan	nd	0.005	0.00	0.00	20600.00	103.09	0.00	0.00
Mechanic	മർ	0.300	0.00	0.00	25709.00	7710.00	0.00	0.00
Skilled labor	nd	0.090	0.00	0.00	20900.00	1881 CO	0.00	0.00
Common labor	nd	0.450	0.00	0.00	17300.00	7785.00	-0.90	0.00
Subtotal				0.00		17479.00		0.00
Material cost							100	* ;
Electric***	ken	19.930	7.00	139.86	381.00	5614.38	8.00	159.84
Miscellaneous(3%)				4.20		168.43		4.30
Subtotal				144.06		5782.81		164.64
Equipment cost								
Volute pump,100mm	day	1.000	974.00	974.00	4896.00	4896.00	0.00	0.00
Miscellaneous(5%)			: .	48.70		244.80		0.00
Subtotal				1022.70		5140.80		0.00
Overhead(25%)				291.69		7100.65		41.16
Total				1458.44		35503.26		205.79

Item No. Grouting in tunnel Remarks:Im Unit Price:

Unit Price:								m.
Description	Unit	Quantity	Foreign Cu	-	Local Cu		Daty &	
·		•	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost			-					
Foreman	e d	0.112	9.00	6.00		2766.40	0.00	0.00
Grout worker	æd	0.450	0.00	0.00		3090.00		0.00
Mechanic	a d	0.112	0.00	0.00	25700.00	2878.40		0.00
Electrician	ad	0.112	0.00	0.00	25700.00	2878.40	0.00	9.00
Common labor	and	1.800	0.00	0.00	17300.00	31140.00	0.00	0.00
Subtotal				0.00		48753.20		9.00
Material cost								
Injection hose	8	0.017	1498.00	25.47	1685.00	28.85	0.00	0.00
Return hose	8	0.017	1498.00	25.47	1685.00	28.65	0.00	0.00
Injection branch	Жo.	0.003	50290.00	150.87	56576.00	169.73	0.00	0.00
Electric***	kwh	28.800	7.00	201.60	281.00	8092.80	8.90	230.40
Hiscellaneous(3%)				12.10		249.59		6.91
Subtotal				415.50		8569.41		237.31
Equipment cost					•			
Grout pump, 11kw	day	0.150	4657.00	698.55	19083.00	2862.45	0.00	0.00
Grout mixer,200 lit*2	day	0.150	1948.00	292.20	7980.00	1197.00	0.00	0.00
P-F gauge recorder,60 lit	day	0.150	1020.00	153.00	4050.00	607.50	0. 0 0	0.00
Miscellaneous(51)	_			57.19		233.35		0.00
Subtotal		* •		1200.94		4900.30		0.00
Overhead(25%)				404.11		15555.73		59. 3 3
Total				2020.55		77778.64		295.64

Item No. Work:Backfill grout Remarks:1m3,(tunnel and shaft,air mortar)

Unit Price: Description	. Noit	Quantity	Foreign Cu	rrency	Local Cu	irrency	Outy & '	l'ax
Jedel Iperon	Ç.	422.141.05	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost				(Yen)		(S/.)		(S/.)
Forenan	ad	0.003	0.00	0.00	24700.00	222.30	0.00	0.00
Grout worker A	øđ	C.097	0.00	0.00	20200.00	1959.40	0.00	
Grout worker B	nd	0.097	0.00	0.00	17300.00	1678.10	0.00	0.00
Common labor	ad	0.049	0.00	0.00	17300.00	847.70	0.00	0.00
Subtotal	1			0.00		4707.50		0.00
Material cost								
Portland cement	ton	0.194	4969.00	963.99	17200.00	3336.80	0.00	0.00
Aggregate, fine****	a 3	0.683	1276.00	871.51	12301.00	8401.58	4101.00	2800.98
Air bubble agent	kg	8.000	535.00	3210.00	602.00	3612.00	0.00	0.00
Electric##8	keh	2.463	7.00	17.24	281.00	692.10	8.00	19.70
Miscellaneous(3%)				151.88		481.27		84.62
Subtotal				5214.62		16523.76		2905.31
Equipment cost								
Grout mixer,300 lit*2	day	9.019	2275.00	43.23	9322.00	177.12	0.00	0.03
Grout pump,11kk	day	0.019	4657.90	88,48	19083.00	362.58	0.00	0.00
Miscellaneous(5%)		*		6.59		26.98		0.00
Subtotal				138.29		566.68		0.00
Overhead(25%)				1338.23		5449.49		726.33
Total				6691.14		27247.43		3631.63



Item No. Nork:Pipe for Grout hole Remarks:Im,50mm ,backfill grout Unit Price:

Description	Unit 0	vantity	Poreign Cu	rrenev	Local Currency		Duty & Tax	
2000	•		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Forenan .	ad	0.020	0.00	0.00	24700.00	494.00	0.00	0.03
Pipe fitter	n d	0.075	0.00	0.00	19000.00	1435.00	0.00	0.00
Common labor	nd	0.075	0.00	0.00	17300.00	1297.50	0.00	0.00
Subtotal				0.00	·	3216.50		0.00
Material cost			*					
Gas pipe,50mm	8	1.000	546.00	546.00	614.00	614.00	0.00	0.00
Miscellaneous(3%)	•			16.38		18.42		0.00
Subtotal				562.38		632.42		0.00
Overhead(25%)				140.60		962.23	•	0.00
Total				702.98		4811.15		0.00

liem No. Nork:Grout material Remarks:1kg Unit Price:					·					
Description	Unit	Quantity	Foreign Cu Unit Cost	-	Local Unit Cost	Currency Amount	Duty & Unit Cost	Tax Amount		
			OHIL COSE	BEOUNC	vait tost	- Mainaire	JITE COSE	MINORITO		
Haterial cost										
Portland cement	ton	1.000	4969.00	4969.00	65360.00	65360.00	17200.00	17200.00		
Water reducing cement	kg	3.000	342.00	1026.00	385.00	1155.00	0.00	0.00		
Miscellaneous(31)	0		-	179.85		1995.45		516.00		
Subtotal				6174.85		68510.45		17716.00		
				1543.71		17127.61		4429.00		
Gverhead(251)							and the second second	22145.00		
Total				7718.56		85638.06		20149.00		
Bait arice(1ke)	•			7.72	٠	85.64	•	22.15		

P MISCELLANEOUS (3)

		FC,¥en	C.S/.	Tax.S/.	%LC.S/.≇	Total,S/.	Totai US\$
Pipe,backfill,50mm	9	702.98	4811.15	0.00	4811.15	20628.20	9.17
	kg	132.39	906.05	0.00	908.05	3884.83	1.73
Grout_cement	ton	7718.56	85638.06	22145.00	107783.06	281450.66	125.09
	kg	7.72	85.64	22.15	107.79	281.49	0.13
40kg/zack	zack	308.74	3425.52	885.80	4311.32	11257.97	5.00
Backfill grout, injection exclude cement	ton	35038.26	205618.40	40864.77	246483.17	1034844.02	459.93
Drain hole, mudstone, 45mm	. •	913.00	20166.64	50.54	20217.18	40759.68	18.12

Itea No.

Work:Pipe for Grout hole

Unit Price: Description	Unit	Quantity	foreign Cu	rreacy	Local Cu	ilesch	Duty ,T	ΣG
•			Unit Cost	Amount		Amount	Unit Cost	Amount
Labor cost		4		(Yen)		(\$/.)		(\$/.)
Foregin	Эď	0.020	0.00	0.00	24700.00	494.00	0.00	0,00
Pipe fitter	ಹನೆ	0.075	0.00	0.00	19000.00	1425.00	0.00	9.00
Common labor	má	0.075	0.80	0.00	17300.00	1297.50	0.00	0.00
Subtotal			:	0.00		3216.50		0.00
Material cost		•	•					
Gas pipe,50mm	£	1.000	546.00	545.00	614.00	614.00	0.60	0.00
Miscellaneous(31)				16.38		18.42		0.00
Subtotal				562.38		632.42		0.00
Overhead(25%)				140.60		962.23		0.00
Total		-		702.98		4811.15		0.00
Unit cost (1kg,5.31kg/s)				132.39	ı	906.05		3.00

Item No. Work:Grout material.Cement for grouting Remarks:1kg,izack Unit Price:

Description	Unit C	vantity	Foreign Ca	Foreign Carrency		Local Currency		Duty, Tax	
Material cost Portland cement Water reducing cement Miscellaneous(3%)	ton kg	1.000 3.000	Unit Cost 4969.00 342.00	Amount (Yen) 4969.00 1026.00 179.85	Unit Cost 65360.00 385.00	Amount (S/.)		Amount (\$/.) 17200.00 0.00 516.00	
Subtotal Overhead(25%) Total				6174.85 1543.71 7718.56		68510.45 17127.61 85638.06		17716.00 4429.00 22145.00	
Unit price(1kg)				7.72		85.64	•	22.15	

Item No.
Work:Backfill grout
Remarks:1m3,(tunnel and shaft,air mortar)

NV			•	
lin	it	Pr	ic	e.

Unit Price: Description	Unit Quantity		Foreign Currency		Local Currency		Duty. Tax	
•••••	••••	••••••			Unit Cost		Unit Cost	Amount
Labor cost				-				
Foreman	od	0.009	0.00	0.00		222.30		9.00
Srout worker A	nd	0.097	0.00	0.00	20200.00			0.00
Grout worker 3	a d	0.097	0.00	0.00	19000.00	1843.00	0.00	
Common labor	a d	0.049	0.00	9.00	17300.00	847.70	0.00	0.00
Subtotal		•	•	0.00		4872.40		0.00
Haterial cost								
Portland cement	ton	0.194	1969.00	363.99	65360.00	- '	17200.00	3336.80
Aggregate, iine***	a 3	0.683	1276.00	871.51	12301.00	8401.58	4161.00	280 0 .98
Air bubble agent	kg	6.000	535.00	3210.00	602.00	3612.00	0.00	0.00
Electric***	keh	3.463	7.00	17.24	281.00	692.10	8.00	19.70
Miscellaneous(3%)				151.88		761.57		184.72
Subtotal				5214.62		26147.09		6342.21
Equipment cost								
Grout mixer,300 lit*2	day	0.019	3275.00	43.23	9322.00	177.12	0.00	0.60
Grout pump, like	day	0.019	8919.00	169.46	35414.00	672.87	0.00	0.00
Hiscellaneous(5%)				10.63		42.50		0.00
Subtotal				223.32		892.48		9.00
Overhead(25%)				1359.48		7977.99		1585.55
Total (unit price,1m3)				6797.42		39889.97		7927.76
823123		•						•
Unit price (cement .194t	/a3)			35038.26		205618.40		40864.77



Item No. Chone Portoviejo
Eork: Drilling drain hole, boring machine
Remarks: 45mm dia.1.5m/hr,25.5m/day, tunnel
(8.5hr/10hr,2shifts)

Unit Price:								
Description	Unit	Quantity	Poreign C	urrency	iocal (Brrency	Duty,	ax
			Unit Cost	Amount	Unit Cost	Anount	Unit Cost	Amount
Labor cost				(Yen)		(\$/.)		(S/.)
Forenan	nd	1.300	0.00	0.00	24700.00	24700.00	0.00	0.00
Boring worker	ĎØ.	4.000	0.00	0.00	20200.00	80860.00	0.00	0.00
Common	ed	4.000	0.00	0.00	17300.00	69200.00	9.00	0.00
Mechanic	nd	0.300	0.00	6.00	25700.00	?710.00	6.00	0.99
Blectrician	nd	0.300	0.00	0.00	25700.00	7710.00	0.00	0.00
Overtime(0.785)				0.00		149244.20		0.00
Subtotal				0.00		339364.20		0.00
Haterial cost								
Metal bit	กอ	2.250	3692. 0 0	8307.00	4154.00	9346.59	6.00	0.00
Tube core barrel, single	No.	0.128	15943.00	2040.70	17936.00	2295.81	0.00	3.00
Boring rod, 40.5mm, 1.5m	No.	0.128	12412.00	1588.74	13964.00	1787.33	0.00	0.00
Electric***	kwh	125.120	7.00	875.84	281.00	35158.72	8.00	1000.96
Miscellaneous(3%)			:	384.37		1457.65		30.03
Subtotal				13196.65		50046.07		1030.99
Equipment cost								
Boring machine,5.5kw	day	1.000	4778.00	4778.00	18973.00	18973.00	0.00	0.00
Turbine pump,50mm	day	1.000	392.00	392.00	1969.00	1969.00	0.00	0.00
Miscellaneous(51)				258.50		1047.10		0.00
Subtotal				5428.50		21989.10		0.00
Overhead(25%)				4656.29		102849.84		257.75
Total				23281.44		514249.22	÷	1288.74
Unit Cost (1m)				913.60		20166.64		50.54

Q MISCELLANEOUS (4)

Item No. Work:Rubble concrete	•			
Remarks:1m3				4
Unit Price:	•			
Description	Unit Quantity		Local Currency	Duty & Tax
		Unit Cost Amount (Yen)	Unit Cost Amount	Unit Cost Amount
Package 1				
Concrete E, 0.5m3		6102.76	61379.35	14054.57
Rubble, materiai		1304.00	12570.00	
Rubble,placing		260.80	2514.00	
Inel.25%, 0.5m3		1956.00	18855.00	6285.00
Unit price		4029.38	40117.18	10169.79
Package 2, Ceverino				
Concrete E.O.5m3		5777.21	58245.87	13008.10
Rubble, material		1117.00	10770.00	
Rubble,placing		223.40	2154.00	718.00
Incl.25%, 0.5m3		1675.50	16155.00	5385.00
Unit price		3726.36	37200.44	9196.55
Package 2, Poza Honda				
Concrete E.O.5m3		5681.87	57329.66	12703.84
Rubble,material		1117.00	10770.00	
Rubble,placing		223.40	2154.00	718.00
Inel.25%, 0.5m3		1675.50	16155.00	5385.00
Unit price		3678.69	36742.33	9044.42

Item No. Nork:Contact grout Remarks:1m3			•			
Unit Price: Description	Unit Quantity	Foreign Cur Unit Cost	rency Amount (Yen)	Local C Unit Cost	urrency Amount	Duty & Tax Unit Cost Amount
Pumping station						
Penstock line 1.15m3x 2t/m3=2,300kg	2300.000	43.00	98900.00	291.00	669300.00	63.00 144900.00
FC 990 \$	•					
LC 814,200 S/.						
Conguillo inlet,Poza Hon kg	da inlet				•	
Groat	ten		35038.26		205618.40	40864.77
Grout cement	ton		7718.56		85638.06	22145.60
Total	ton		42756.82		291256.46	63009.77
Unit Price	kg		42.76		291.26	63.01

Item No.
Work:Construction/removal of temp.cofferdam
Remarks:1m3
Unit Price:
Description
Unit Quantity Po

Kemarks:1m3 Unit Price:							
Description	Unit Quantity	Poreign Cu Unit Cost	rrency Amount (Yen)		urrency Amount	Duty & Unit Cost	Tax Amount
Daule Peripa-Esperanza Membrillo outlet 2,375m3		530.00		4948.00		49.00	
L.S.			1258750.00		11751500.03		116375.00
FC 12,590 \$ LC 11,867,880 S/.						e.	
Open channel 900m3		530.00	477000.00	4948.00	4453200.00	49.00	44100.00
PC 4,770 \$ LC 4,497,300 S/.			411000.00		4433200.00		44100.00
La Esperanza-Poza Honda 400m3		530.00	212000.00	4948.00	1979200.00	49.00	19600.00
FC 2,120 \$ LC 1,998,800 S/.			212000.00		10.0200.00		10000100
Poza Honda-Mancha Grande Outlet 200m3		530.00	100000 00	4948.00	000000 00	49.00	0000 00
FC 1,060 \$ LC 999,400 S/.			106000.00		989600.00		9800.00

	water during construction
in open	air construction site
Remarks:1m3	
Maia Datase	

Remarks:1m3 Unit Price:						
Description	Unit	Quantity	Foreign Co Unit Cost	•	Local C Unit Cost	urrency Amount
Daule Peripa-La Esperanz Conguillo,Kembrillo Anos,5 months	a day	600.000	1458.00	874800.00	35709.00	21425400.00
Severino pumping station 3nos,15 months	day	1350.000	1458.00	1968300.00	35709.00	48207150.00
Head tank 2nos,5 months	day	300.000	1458.00	437400.00	35709.00	10712700.00
Open channel 4nos,10 months	day	1200.000	1458.00	1749600.00	35709.00	42850800.00
La Esperanza-Poza Honda 2nos,5 months	day	300.000	1458.00	437400.00	35709.00	10712700.00
Poza Honda-Mancha Grande 2nos,5 months	day	360.000	1458.00	437400.00	35709.00	10712700.00

Item No. Kork: Measurement, NATH Remarks: 1m3 Unit Price:			
Description	Unit Quantity	Foreign Currency Unit Cost Amount (Yen)	Local Currency Unit Cost Amount
Horizontal convergence 4,600nos			
Bolt,5nos x 3700Yen x 3 Instrument	234 section	4329000.00 897000.00	9740250.00
Staff		1900500 00	35100000.00
Overhead,25% Total		1306500.00 6532500.00	11210063.00 56050313.00
IULAI			0000010.00
Unit Price	no	1396.00	11976.00
Diagonal convergence	no	1396.00	11976.00
Measurement of roof sett	lement		
Survey		•	24000.00 6000.00
Overhead,25% Unit Price			30000.00

Measurement of invert up	neaval	·	30000.00
Steel measurement, rock bo		0125000 00	0010100 00
Rock bolt,39nos x 55000 Instrument	Jyen	2145000.00 76000.00	9652500.00
Staff		10000.00	7312500.00
Total incl 25% OH		2776250.00	21206250.00
Unit Price,975nos		2850.00	21750.00
Stree measurement			
Cell 366,604Yen x 39nos	\$	14297556.00	64339002.00
Instrument		468000.00	7312500.00
Staff Total incl 25% ON		18456945.00	89564377.00
Unit Price,39nos		18930.00	91860.00
Steel support Strain gauge, 3nos x 380)00Yen	114000.00	513000.00
Instrument(above) Staff			450000.00
Total incl 25% OH	i i	142500.00	1203750.00
Unit Price,60nos		2380.00	20060.00
4			

ltem No. Nork:Staff gauge Remarks:1m3 Unit Price:					
Description	Unit Quantity	Unit Cost	rency Amount (Yen)	Local C Unit Cost	urrency Amount
Pumping Station Staff gauge,25m,200mm 5m2 x 10300Yen=51500					
Kanufacture,51500 CIF,1.07			110210.00		247973.00
OH 25% Total		: '	137763.00		309966.00
Severino Head Tank Staff gauge, 11.8m, 200mm)	·	·		
4.72m2 x 10300Yen x 2 C1F 1.07			104038.00		234086.00
OH 25% Total			130050.00		292610.00
Conguillo inlet Staff gauge,20m,100mm stainless pipe	•				·
CIF OH 25%	•		247598.00		1114191.00
Total			309500.00	i .	1392740.00
Poza Honda iniet Staff gauge, 22m, 100mm		,	·		
stainless pipe CIF OH 25%			272358.00	:	1225611.00
Total			340450.00	•	1532010.00

Item No. Work:Trash boom Remarks:1m3 Unit Price:

Description Unit Quantity Foreign Currency Local Currency Unit Cost Amount Unit Cost Amount (Yen) Float,570mm dia.,1050mm 48150.00 Main rope 23540.00 Net 8196.00 keight 7758.00	
Yen • • • • • • • • • • • •	
Float,570mm dia.,1050mm 48150.00 Main rope 23540.00 Net 8196.00 Keight 7758.00	nt
Main rope 23540.00 Net 8196.00 Keight 7758.00	
Main rope 23540.00 Net 8196.00 Keight 7758.00	
Net 8196.00 Keight 7758.00	
W01844	
· · · · · · · · · · · · · · · · · · ·	
Rope, 12m3 642.00	
Rope, 6am 235.00	
Net 10272.00	-
Rope 10700.00	
Subtotal 109493.00	
Install	10%
Total incl.0H 25% 136866.00 30794	48.00
Unit Price 2m 68433.00 15397	74.00

item No. Work:Catch basin,Cess pit Remarks:1m3

Unit Price:								
Description	Unit	Quantity	Foreign Cu	irrency	Local Cu	irrency	- Duty &	Tax
Scott 194101	V V	4		Amount	Unit Cost	Amount	Unit Cost	Amount
				(Yen)			•	
Concrete	m 3	0.360	5581.00	2009.00	58826.00	21177.00	13787.00	4963.00
Foravork	æ2	3.680	349.00	1284.00	20139.00	74112,00	211.00	776.00
Reinforcement	ton	0.072	31989.00	2303.00	914170.00	65820.00	110725.00	7972.00
Gravel bedding	m3	0.064	1357.00	87.00	35321.00	2261.00	4333.00	277.00
				5683.00		163370.00		13988.00
Lid				1137.00		32674.00		2798.00
Catch basin,1mo.		:		6820.00		196044.00		16786.00
Cess pit								•
Lid iron cover				1000.00		2250.00		
Cess pit,1no.				6683.00		165620.00		13988.00

Item No. Work:Dredging work Remarks:1m3 Unit Price:

Unit Price:								
Description	Unit	Quantity		lurreacy]urren c y		
·			Vait Cost	Amount (Yen)	Unit Cost	Amoust	Vait Cost	Ambunt
Dredging							•	
Oredger,0200 PS	day		190819.00					
Anchor barge,030 PS	day	34.000						
Conection boat	day	34.000		49368.00				
Pontoon barge	day	34.000	34860.00			9.00		
Subtotal				7823332.00		2074170.00		
Delivery pipe								
Delivery pipe, water	no.	2.000	132515.00	265030.00	337340.00			
Support H=Gm	Tr-	50.000	147.00	7350.00				
Support H=2m	8.	50.000						
Delivery pipe, land, H	- Cer ii	50.000	745.00		4575.00			
Delivery pipe, land, Ha	=2n o	50.000	767.00	38359.00	4803.00			
Subtotal				387980.00		1921030.00		
Earthwork								
Erathwork	day	34.000	11115.00	377910.00	113649.00			
Maintain,pipe	day			0.00				
Hauling, 2nd	a3	3000.000	254.00	762000.00				
Dike	# 3	375.000	325.00	121875.00	2879.00			
Subtotai				1361785.00		14025091.00		
Inland transp.aseable	1.8.			2477000.00		0.00		
Sea transport	L. S.			8296000.00		0.00		
Total				20246097.00		18020231.00		
Overhead(25%)				5061524.00		4505073.00		
Total				25397621.00		32525364.00		
Unit price(3000 m3)				8435.87		7508.45		
• • •				84.36	(88%)	7508.00	(S/.)	

R TUNNEL WORK (1)

Kork	Unit	(Yen)	LC (S/.)	Duty,Tax (S/.)	\$\$ LC \$\$ (\$/.)	Total (S/.)	Total (US\$)
For allowers of about	-0		48818.87	3235.57	52054.44	131795.12	58.58
Exc.enlargement of shaft	a3 a2	3544.03 2337.68	5311.99	44.51	5356.50	57954.30	25.76
Form, 12m, Daule-Esperanze		116708.12	131188.97	2935.73	134124.70	2760057.40	1226.69
Steel support.H-125*125	ton	2106.89	16246.06	41.19	16287.25	63692.28	28.31
Rock bolt,25am,2m Form,12m,Esperanze-Poza	ø2	2197.56	5032.72	47.05	5079.77	54524.87	24.23
Form, work adit	e2	1495.12	12268.27	82.15	12350.42	45990.62	20.44
Form, 12m, Poza-Nancha	#2 #3	2509.28	5523.27	65.88	5589.15	62047.95	27.58
Kinch, 150kw, incline only, 50m	#3	344.69	5586.60	59.17		13381.30	5.95
Kinch, 150kk, incline only, 100s	#3	344.69	5566.60	59.17	5625.77	13381.30	5.95
Kinch, 150kk, incline only, 200m	#3	404.99	6550.88	69.53	6820.41	15732.69	6.99
Winch, 150kw, incline only, 350m	#3	469.78	7587.76	80.65	7668.41	18238.46	8.11
Kinch, 150kw, incline only, 450m	a3	528.28	8532.91	90.69	8623.60	20509.90	9.12
Excav.machine, Daule-Espe, D/O	a3	3688.85	33942.93	303.44	34246.37	117245.50	52.11
Exc.machine, Espe-Poza, D/D	#3	3751.19	37181.42	375.74	37557.16	121958.94	54.20
Exca.machine,Poza-Mancha,D/D	m3	4625.35	46671.66	452.12	47123.78	151194.16	67.20
Exc.Adit,50m,0/0,4.5m3, incline		2277.55	72115.73	2843.63	74959.36	126204.24	56.09
Exc.Adit,100m,0/0,4.5m3	- m3	2277.55	72115.73	2843.63	74959.36	126204.24	56.09
Exc.Adit,200m,D/D,4.5m3	m3	2384.89	74016.62	2864.95	76881.57	130541.60	58.02
Exc.Adit,350m,0/0,4.5m3	m3	2486.87	75740.30	2881.43	78621.73	134576.31	59.81
Exc.Adit,450m,D/D,4.5m3	m3	2577.96	77130.43	2892.27	80022.70	138026.80	61.35
Exc.Adit,100m,D/D,3.0m3	a3	2320.38	73100.26	2854.41	75954.67	128163.22	56.96
Winch, 100kw, incline only, 100m	я3	390.77	7164.93	64.06	7228.99	16021.32	7.12
nthen 100km 1 herric Chris 1100m	,aQ	330.77	1101.00	01.00	7220.00	10021.02	1.12
Winch,cone transp.6m3,50m	m3	204.41	2425.08	17.76	2442.84	7042.07	3.13
Kinch, conc transp.6m3,100m	p3	205.58	2471.29	19.07	2490.36	7115.46	3.16
Winch, cone transp.6m3,200m	m3	208.46	2587.80	22.39	2610.19	7300.54	3.24
Kinch,come transp.6m3,350m	p 3	212.59	2753.38	27.11	2780.49	7563.77	3.36
Kinch,cone transp.6m3,450m	ø3	215.38	2865.39	30.29	2895.68	7741.73	3.44
Winch, cone transp.4.5m3,100m	ъЗ	201.96	2434.33	18.39	2452.72	6996.82	3.11
Conc lining, Daule-Espe	a 3	1588.10	13096.76	8.39	13105.15	48837.40	21.71
Cone lining,Espe-Poza	m 3	1588.10	13096.76	8.39	13105.15	48837.40	21.71
Cone lining,Poza-Kancha	#3	2209.29	18139.11	7.21	18146.32	67855.35	30.16
Conguillo work adit							
Inclined,96m	æ3	2277.55	72115.73	2843.63			
2nd haul, 2000m	n 3	286.50	3150.08	32.44			
Total	m3	2564.05	75265.81	2876.07	78141.88	135833.01	60.37
El Guasmo work adit						10000001	
Inclined.344m	a 3	2486.87	75740.30	2881.43			
2nd haul, 1000m	e 3	248.23	2743.52	27.45			
Total	m 3	2735.10	78483.82	2908.88	81392.70	142932.45	63.53
Membrillo work adit	•						
Inclined,35a	m3	2277.55	72115.73	2843.63			
2nd haul, 2000m	n 3	286.50	3150.08	32.44			
Total	9 3	2564.05	75265.81	2876.07	78141.88	135833.01	60.37
La Seca work adit							
Inclined,448m	æ3	2577.96	77130.43	2892.27		•	
2nd haul,2000m	5 3	286.50	3150.08	32.44			
Total	a3	2864.46	80280.51	2924.71	83265.22	147655.57	65.62
			•				

kork	Unit	(Yen) ** FC ##	LC (S/.)	Duty,Tax (S/.)	\$\$ LC \$\$ (\$/.)	Total (S/.)	Total (US\$)
Los Cuyuyes work adit				•			
Inclined,47a	p 3	2277.55	72115.73	2843.63			
2nd haul, 2000m	€3	286.50	3150.08	32.44			
Total	@3	2564.05	75265.81		78141.38	135833.01	60.37
Poza Honda work adit		000110					
Inclined,80m	m 3	2320.38	73100.26	2854.41		• • • .	
2nd haul,2000a	n 3	286.50	3153.08				
Total	a3	2606.88	76250.34	2886.85	79137.19	137791.99	61.24
Package 1,Daule-Esperanza,	Tunnel Ex	eavation					*
1. From Conguillo adit							
0-166,166-3000							
(361)						12	
Tunnel excavation	# 3	3688.85	33942.93	303.44			
Inclined baul(96m)	# 3	344.69	5566.60	59.17			
2nd haul(2000m)	m3	286.50	3150.08				1
Total	13	4320.04	42659.61	395.05	43054.66	140255.56	62.34
2.Prom El Guasmo adit		1020101	15000101		10241100	1.0000	
3000-5500						•	•
(301)		****		505 44		•	
Tunnel excavation	ъ3	3688.85	33942.93	303.44			
Inclined haul(344m)	т3	469.78	7587.76	80.65			
2nd haul(1000m)	@ .}	248.23	2743.52	27.45			
Total	ne3	4406.86	44274.21	411.54	44685.75	143840.10	63.93
3.From membrillo adit							
5500-8170,8170-8295							
(34%)							•
Tunnel excavation	₽3	3688.85	33942.93	303.44			
Inclined haul(35m)	æ3	344.69	5586.60	59.17		A	
2nd hav1(2000m)	a 3	286.50	3150.08	32.44		•	
Total	m 3	4320.04	42659.61	395.05	43054.66	140255.56	62.34
Average Unit Price	B 3	4346.09	43143.99	400.00	43543.99	141330.92	62.81
(Daule-Esperanza)		•					
Package 2,Esperanza-Poza H	onda.Tuen	ei evcavatio	06		•		
1.From Cana Dulce inlet	VIII.	0.1.1.1.1.1.1	~ · ·	:	-		
0-4260							
(371)							
Tunnel excavation	a 3	3751.19	37181.42	375.74			
Inclined haul(Nill)	#3 #3	0.00	0.00	0.00			•
2nd haul(2000a)	n3	286.50	3150.08	32.44			
Total	ъ3	4037.69	40331.50	408.18	40739.68	131587.71	58.48
2.From La Seca adit	i i	4031.05	40031.00	990.10	40105.00	101001.71	30.40
4200-7500				•			
(291)					*	-	
Tunnel excavation	# 3	3751.19	37181.42	375.74			
	≣ა. ≣ა	528.28	8532.91				
inclined haul(448m)				90.69			
2nd haul(2000m)	#3 #3	286.50	3150.08	32.44	10202.00	100000 61	67.60
Total	re3	4565.97	48864.41	498.87	49363.28	152097.61	67.60

•								
	Kork	Unit	**	LC (\$/.)	Duty,Tax (S/.)	** LC ** (S/.)	Total (S/.)	Total (US\$)
	3.From Los Cuyuyes adit			4				
	4500-11244, 11244-11417 (34%)							
	Tunnel excavation	n 3	3751.19	37181.42	375.54			
	Inclined haul(47m)	5 3	344.69	5566.60	59.17			
	2nd haul(2000m) Total	ъ3 ъ3	286.50 4382.38	3150.08 45898.10	32.44 467.15	46365.25	144968.80	64.43
	Average Unit Price (Esperanza-Poza Honda)	83	4308.09	44698.69	454.53	45153.22	142085.15	63.15
	Package 2, Poza Honda-Hancha 6	rande,	Tunnel Exca	ration				
	1.From Poza honda adit 0-300,300-2200							
	(54%) Tunnel excavation	I 3	4625.35	46671.66	452.12	•	•	
	Inclined haul(80m)	#3	390.77	7164.93	64.06		•	
	2nd haul(2000m)	ш3	286.50	3150.08	32.44			
	Total	я3	5302.62	56988.67	548.62	57535.29	176844.24	78.60
	2.From Mancha Grande outlet 2200-4095 (46%)				•			
	Tunnel excavation	@ 3	4625.35	46671.66	452.12			
	Inclined haul(Nill)	a 3	0.00	0.00	0.00			
	2nd haul(500m) Total	5. 103	228.38 4853.73	2532.68 49204.34	24.36 476.48	49680.82	158889.75	70.62
	Average Unit Price (Poza Honda-Mancha Grande)	a 3	5096.13	53406.80	515.44	53922.23	168585.17	74.93
	Package 1,Daule-Esperanza.Con	crete	Lining					
	1.From Conguillo adit 0-166,166-3000 (36%)							
	Con.D.mix,haul,200m	a 3	5448.36	56490.96	14675.63		•	
	Inclined haul(98m)	m3	204.41	2425.08	17.76		·	
	Concrete lining, in tunnel Total	n3 n3	1588.10 7240.87	13096.76 72012.80	8.39 14701.78	86714.58	249634.16	110.95
	2.From El Guasmo adit 3000-5500	NO	10.07	12018109	11101.10	00111.00	210001110	110.00
	(30%) Con.D.mix.haul.6000m	a 3	5912.09	61268.59	14726.56			
	Inclined haul(344m)	n3	212.59	2753.38	27.11			
: .	Concrete lining, in tunnel	@3	1588.10	13096.76	8.39			
	Total 3.From membrillo adit 5500-8170,8170-8295	n 3	3712.78	77118.73	14762.06	91880.79	265418.34	117.96
	(34%)							
	Con.D.wix,haul,200m	63 23	5448.36 204.41	56490.96 2425.08	14675.63 17.76		·	
	Inclined haul(35m) Concrete lining,in tunnel	P.3	1588.10	13096.76	8.39	•		
	Total	E3	7240.87	72012.80		86714.58	249634.16	110.95
						÷		
	•			R-:	3			

Kork	Unit	(Yen)	LC (\$/.)	Duty,Tax (S/.)	** LC ** (\$/.)	Total (S/.)	Total (US\$)
Average Unit Price (Daule-Esperanza)	m 3	7382.44	73544.58	14719.86	88264.44	254369.41	113.05
Package 2, Esperanza-Poza Bond	a,Conc	rete Lining					
1.From Cana Dulce inlet						• '	
0-4200							
(37 1)	a 3	5314.18	55397.97	13346.74			
Con.D,mix,haul,4000m Inclined haul(Nill)	#3	0.00	0.00	0.00			
Concrete lining, in tunnel	a3	1588.10	13096.76	8.39			
Total	a:3	6902.28	68494.73		81849.86	237151.16	105.40
2.From La Seca adit		•				y f	:
4200-7500							
(29%)							
Con.D.mix,haul,4000m	₽3	5314.18	55397.97	13346.74			:
Inclined haul(448m)	*3	215.38	2865.39	30.29			
Concrete lining, in tunnel	2 3	1588.10	and the second s	8.39	 D1045 54	0.000 00	100 04
Total	@ 3	7117.66	71360.12	13385.42	84745.54	244892.89	108.84
3. From Los Cuyuyes adit			•				
#500-11244,11244-11417							
(34%)	æ3	5209.84	54399 33	13335.29			
Con.D.mix.haul.3000m Inclined haul(47m)	#3	204.41		17.76	1.4		
Concrete lining, in tunnel		1588.10		8.39		•	
Total	a3	7002.35	69844.17		83205.61	240758.49	107.00
Average Unit Price	a 3	6998.76	69784.50	13366.06	83150.56	240622.75	106.94
(Bsperanza-Poza Honda)					÷		
Package 2, Poza Honda-Hancha G	rande,	concrete Li	ning				
1.From Poza honda adit							
0-300,300-2200							
(54%)							٠.
Con.D.mix,haul,950Cm	n3	5734.65	59827.26	12906.22			
Inclined haul(80m)	a 3	205.56	2471.29	19.07			
Concrete lining, in tunnel	113	2209.29	18139.11	7.21	00000 10	972733 01	159 60
Total 2.From Mancha Grande outlet	n 3	8149.50	00437:00	12932.50	93310.10	276733.91	122.99
2.Prom Mancha Grande Gullet 2200-4095							
(461)						•	
Con.D.mix,haul,200m	æ 3	4863.23	50900.65	12811.06			
Inclined haul(Sill)	e 3		0.03	0.00	•		
Concrete lining, in tunnel	£ 3	2209.29		.7.21			
Total	# 3		69039.76	12818.27	81858.03	241102.23	107.16
Average Unit Price	3 3	7656.39	75194.63	12879.95	88074.58	260343.34	115.71
(Poza Honda-Hancha Grande)							
Steel support,H-250,H-300	ton	94343.91	80792.17	1112.40			
Install, Handling, crane	ton	15231.84			4		
Total	ton	109575.75			220098.58	2685552.96	1193.58
				+ +			

Kork	Unit	** \$C ** (Yen)	LC (S/.)	Duty.Tax (S/.)	(\$/.)	Total (S/.)	Total (US\$)
Transportation, concrete in tunnel							
Inclined tunnel,200m	n 3	698.61	6779.61	0.00	6773.61	22498.34	10.00
Horizontl, 2000m	ш3	208.46	2587.80	22.39	2610.19	7300.54	3.24
Total	в3	307.07	9367.41	22.39	9389.80	29798.88	13.24

Item No. kork:Enlargement of shaft Remarks:310.70m3 Unit price:

Unit price:					•			
Description	Unit	Quantity		Currency		urrenc;	Duty &	
	-		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	
Labor cost				(Yea)		(\$/.)		(8/.)
Foreman, P	5 6		30000.00	41700.00	0.00	0.00	0.00	0.00
Foreman	æd	5.560	0.00	0.00	24700.00	137332.00	0.00	
Driller	ad		0.00	0.00	20200.00		0.00	
Skilled labor	æd		0.00	0.00	20300.00	232408.00	0.00	
Common labor	e ò	16.680	0.00	0.00	17300.00	288564.00	0.00	0.00
Nechanic	ød.	5.560	0.00	0.00	25700.00	142892.00	0.00	
Operator	ed	4.245	0.00	0.00	25600.00	108672.00	0.00	
Assist operator	ශේ	4.425	0.00	0.00	17900.00	79207.50	0.00	
Powder wan	ෂේ	2.000	0.00	0.00	17300.00	34600.00	0.00	0.00
Subtotal (FC*1.0, LC*1.785)				41700.00		2254319.88		0.00
Katerial cost								
Dynamite(2.0)***	kg	521.400	0.90	9.00	8343.00		810.00	
Detonator	lio.	725.000	3.00	0.00	3863.00		375.00	
Cross bit,36am	Нo.	2.155		15917.75	8306.00		0.03	
Taper rod.1.5m	No.	1,540	8731.00	13445.74	9822.€0		0.00	
Cross bit, crawier drill	No.	6.470	43442.00	281069.74	48872.00		0.00	
₹od	No.	3.898	52430.00	193886.14	58984.00	218122.83	0.00	
Sleeve	Ho.	3.698	10593.00	39172.91	11917.00	44069.07	0.00	
Shank red	No.	1.849	39593.00	73201.91	44539.00	82352.51	0.00	
Light oil	lit	252.480	4.90	1009.92	353.00	89125.44	1.00	
Lubricant	lit	10.680	44.00	469.92	4150.00	44322.00	500.00	
Electric	Cah	0.970	7.00	6.79	281.00	272.57	8.00	
Hiscellaneous(3%)				18545.42		264375.46		23424.28
Subtotal				636726.25		9076890.63		804233.52
Equipment cost								
Jackhasmer,2.9m3/min	day		1006.00	8000.00	2063.00	16504.00	მ.00	0.00
Air compressor, 21m3/min	day		22982.00	34128.27	91252.00	135509.22	0.00	0.00
Crawler drill,7m3/min	þr		1482.00	70543.20	6074.00	289122.40	0.00	
Vent fan,300m3/min	day		3378.00	9390.84	11484.00	31925.52	0.00	
Tractor shovel, 0.4m3	h.c		1488.60	26188.80	5711.00	100513.60	0.00	0.00
Vent fan,100m3/min	day	5.560	259.00	1440.04	879.00	4887.24	0.00	
Backhoe,0.3m3	'n:	17.600	1479.00	26030.40	6735.90	118536.00	0.00	
Truck crane,30t	hr	3.000	5705.00	17115.00	22654.00	67962.00	0.00	
Miscellaneous(5%)				9641.83	•	38248.00		0.00
Subtotal				202478.38		803207.98		9.00
Overhead(25%)				220226.16		3033694.62		201058.38
Total				1101130.78	,	15168023.11		1005291.90
Unit price				3544.03		48318.87		3235.57



Item No. Nork: Porm in tunnel, sliding type 12m, Benador, Daule-esperanza Remarks: 107.4m2, 3.7m dia.12m, Unit price:

Unit price:	0_30	. August 200	9	00	facet o		Duty 4	Tav
Description	UNIC	. Quantity	-	Currency	Local C	•		
			Unit Cost		Unit Cost	Amount	Unit Cost	Asoust
Labor cost				(Yen)		(\$/.)		(\$/.)
Foreman F	60	9.500	30000.00	15000.00	9.86	0.00	9,60	0.09
Poreman L	6.0	0.500	0.00	0.00	24700.00	12350.00	0.00	0.00
Concrete worker	£ (3.000	0.00	0.00	19000.00	57000.00	0.03	0.00
Skilled labor	50	3.000	0.00	0.00	20900.00	62700.00	9.00	0.00
Common labor	ø d	3.000	0.00	0.00	17300.00	51900.00	0.00	0. 00
Subtotal				15000.00		183950.00		0.00
Naterial cost					4			
Sliding form, telescopic	3.2	107.400	1677.00	180109.80	2176.00	233702.40	0.00	0.00
Timber	9 3	0.158	2089.00	339.66	195050.00	30817.90	%3500.00	3713.00
Miscellaneous(3%)				5413.20		7935.61		111.39
Subtoial				185853.06		272455.91		3824.39
Overhead(25%)	19.			50213.26		114161.48		956.10
Totai				251066.32		570567.39		4780.49
Unit price				2337.€8		5311.99		44.51

Item No. Rork:Steel support, headrace t Remarks:Iton, R-125*125 Unit price:	nanel							
Description	Unit	Quantity	Foreign	Currency	Local Co	arrenes	outy 3	
Labor cost including excavation cost			Jait Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Haterial cost								
H steel,1252125	ton	0.285	68480.00	19516.80	48150.00	13722.75	0.00	0.00
Steel plate, top	pe	2,000	750.00	1500.00	1181.00	2362.00	0.00	0.00
Steel plate, bottom	ae	2.000	1000.00	3900.00	1575.00	3150.00	0.00	0.00
Bolt,19*50	pc	12.000	30.00	360.00	47.09	564.00	0.00	0.00
Tie rod, 16as×1.6Cm	po	12.000	200.00	2400.00	315.00	3780.00	3.00	9.00
Timber log,60mm*1.6m,i2pc	2 3		1067.00	57.62	99600.00	5378.40	12000.00	618.00
Miscellaneous(3%)				775.03		868.71		19.44
Subtotal			•	25609.45		29825.86		667.44
Overhead(25%)				6652.36		7456.47		186.86
Total			1	33261.81		37282.33		834.30
Unit price				116708.12		131188.97		2935.73

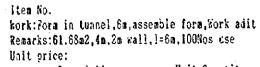


Item No. kork:Rock boit in tunnel Remarks:25mm,2.06m*12=24 Unit price:

Unit price: Description	lleit	Quantity	Scraign	Currency	Local C	nerager	Duty &	Tax
Description	VIII	¿uantité,	Unit Cost		Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Poresan	æd.	0.256	0.00	0.00	24700.00	6323.20	0.00	0.00
Driller	. ond	1.280	9.60	9.00	20200.00	25856.09	0.00	0.00
Common labor	n d	2.560	0.00	9.00	17300.00	44288.00	0.00	0.00
Skilled labor	æd	2.560	0.00	0.00	20900.00	53504.00	0.00	9.00
Subtotal(*1.785)		:		0.00		231998.59		0.00
Naterial cost								
8it,36mm	No.	0.250	7383.00	1845.75	8306.00	2076.50	0.00	0.00
Rod,22mm	No	0.167	9737.00	1625.68	10954.00	1829.32	0.00	0.00
Nortar pack, 25mm, 100cc	80	12.000	621.00	7452.00	693.60	8338.00	0.00	0.00
Rock bolt, 2.0m	No	12.000	1552.00	18624.00	1746.00	20952.00	6.60	0.00
Mortar(2nd), dry	kg	63.960	64.00	3901.44	72.00	4389.12	0.00	0.00
Electric	kwh	29.984	7.90	693.89	281.00	28095.50	8.00	739.87
Miscellaneous(3%)		:		1024.47		1971.91		24.00
Subtotal				35173.63		67702.36		823.87
Equipment cost								
Stoper drill, 2.7m3/min	day	0.640	1660.00	1062.40	3426.00	2192.64	9.00	0.00
Air compressor,7m3/min	day	0.640	7408.00	4741.12	29413.00	18824.32	0.00	0.00
Miscellaneous(20%)	•			1160.70		4203.39		0.00
Subtotal				€984.22		25220.35		0.00
Overhead(25%)				10534.46		81230.32		205.97
Total				52672.32		406151.62		1029.84
Unit price				2106.89		16246.06		41.19

Item No. Nork: Form in tunnel.sliding type 12m, Ecvador. Esperanza-Poza Honda Remarks: 101.642,3.5m dia.12m. Unit price:

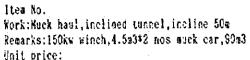
Description	Unit	Quantity	Poreign	Currency	local C	urrency	Duty &	Tax
500c1 1 5 1 1 1 1 1 1 1 1 1 1	4 1		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost				(Yen)	2.1	(S/.)		(\$/.)
Forenan P	æd	0.500	30030.00	15000.00	0.00	0.00	0.00	0.00
Poreman L	ad	0.503	0.00	0.00	24700.00	12350.00	0.66,	0.00
Concrete worker	øđ	3.000	9.00	0.00	19000.00	57000.00	0.00	0.00
Skilled labor	ad.	3.000	9.00	0.00	20900.00	62700.00	0.00	0.00
Common labor	ad	3.000	0.00	0,00	17300.00	51900.00	0.00	0.00
Subtotal				15000.00		183950.00		0.00
Material cost				1.				
Sliding form, telescopic	9 2	107.400	1476.00	158522,40	1748.00	187735.20	0.00	0.00
Timber	a 3	0.158	2089.00	330.06	195050.00	30817.90	23500.CO	3713.00
Miscellaneous(3%)			*.	4765.57		6556.59	*	111.39
Subtotal				. 163618.04		225109.69		3824.39
Overhead(25%)				44654.51	•	102264.92		958.10
lotai .				223272.54		511324.62	1 .	4780.49
Unit price			* .	2197.56		5032.72		47.05



Description		Unit	Quantity	Poreign	Currency	Local Currency		Duty & Tax	
			•	Unit Cost	•	Unit Cost	Amount	Unit Cost	Amount
Labor cost					(Yen)		·(\$/.)		(S/.)
Poreman P		вć	0.500	0.00	0.00	0.00	0.00	0.00	6.00
Poregan L		æd	2.000	0.00	0.00	24700.00	49400.00	0.00	0.00
Concrete worker		æđ	8.000	0.00	0.00	19000.00	152000.00	0.00	0.00
Skilled labor		. od	8.000	0.00	0.00	20900.00	167200.00	0.00	0.00
Common labor		Ed	4.000	0.00	0.00	17300.00	69200.00	0.00	0.00
Subtotal					0.00		437800.00		0.00
Material cost									
Sliding form		02	61.680	1035.00	63838.80	1888.00	116451.84	9.00	0.00
Timber		.3	0.150	2089.60	313.35	195050.00	29257.50	23500.00	3525.00
Miscellaneous(15%)					9622.82		21856.40		528.75
Subtotal					73774.97		167565.74		4053.75
Overhead(25%)					18443.74		151341.44		1013.44
Total	-			2	92218.72		756707.18		5067.19
Unit price					1495.12		12268.27		82.15

Item No. Work:Form in tunnel, sliding type 12m. Ecuador, Poza Roada-Rio Mancha Remarks: 72.56x2, 2.5m dia. 12m Unit price:

Gait price: Description Un	it és	antity	foreign (Currency	Local Co	irrency	Duty & 1	łax -
. 500011901011			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost				(Yea)		(S/.) ·		(\$/.)
Forezan P	∌d	1.000	30000.00	30000.00	0.00	0.00	9.05	0.00
Foreman L	øđ	1.000	0.00	9.60	24700.00	24700.00	0.00	0.00
	ød	2,000	0.00	0.00	19000.00	38000.00	9.00	0.00
Skilled labor	នៅ	2.000	0.00	0.00	20900.00	41800.00	50.0	0.00
	ផ្ទ	2,000	0.00	9.00	17300.00	34600.00	0.00	0.00
Subtotal				30000.00		139100.00		0.00
Katerial cost					¥*			1.5
Sliding form, telescopic	22	72.560	1543.60	111960.08	2004.00	145410.24	0.00	0.00
• • • •	a 3	0.153	2089.00	330.06	195050.00	30817.90	23500.00	3713.00
Riscellaneous(3%)				3368.70		5286.84		111.39
Subtotal				115653.85		181514.98		3824.39
Overhead(25%)			:	36414.71	•	80153.75	-	955.10
Total				182073.56		400768.73		4780.49
Unit price		•	•	2509.28		5523.27		65,88



unit price.										_
Description		i	Unit	Quantity	Foreign	Currency	Locai C	urreacy	Duty &	Tax
,					Unit Cost	Agoupt	Unit Cost	Amount	Unit Cost	Amount
Labor cost						(Yea)		(\$/.)		(\$/.)
Poreman			r d	0.765	0.00	0.00	24700.00	18895.50	0.00	0.00
Operator			₽ď	1.530	0.00	6.00	25600.00	39158.00	0.00	0.00
assist operator			n d	1.530	0.60	0.00	17900.00	27387.00	6.00	0.00
Common labor			ВĊ	3.060	9.00	0.00	17300.00	52938.00	0.00	0.00
Subtotal	1.15					0.00		138388.50		0.69
Material cost										
Electric	•		XV h	517.050	7.00	3619.35	281.00	145291.05	8.00	4135.40
Miscellaneous(3%)						108.58		4358.73		124.09
Subtotal					*	3727.93		149649.78		4260.49
Equipment cost										
kinch, 150kw			day	0.383	52442.00	20085.29	280385.00	107387.46	0.60	0.00
Hiscellaneous(51)			·			1004.26		5369.37		0.00
Subtotal					* *	21089.55		112756.33		0.00
Overhead(25%)						6204.37		100198.78		1065.12
Total	+ 1					31021.85		500993.89		5325.62
Unit price						344.69		5566.60		59.17

Item No. Nork: Muck haul, inclined tunnel, incline 200m Remarks: 150kw winch, 4.5m3%2 nos muck car, 90m3 Unit price:

Unit price: Description	iait	Quantity	Foreign	Currency	Local C	urrency	Duty &	Tax
50001 19000	, v		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost				(Yen)		(\$/.)		(\$/.)
Foresan	sd	0.903	9.00	0.00	24700.00	22394.10	0.00	9.00
Operator	má	1.806	0.00	0.00	25600.00	46233.60	C. O O	9.00
Assist operator	94	1.806	0.00	0.00	17900.00	32327.40	0.00	3.00
Common labor	æd	3.612	0.00	0.00	17300.00	62487.60	0.00	0.00
Subtotal				6.0 0		163352.70		0.00
Material cost							. *	14,
Electric	kv)	607.500	7.00	4253.50	281.00	170707.50	8.00	4860.00
Miscellaneous(31)			Company of the Company	127.58		5131.23		145.80
Subtotal				4380.08		175828.73		5065.80
Equipment cost								
Winch, 150kr	day	0.450	52442.00	23598.99	280385.00	126173.25	0.00	9.00
Miscellaneous(5%)	•			1179.95		6368.66		0.00
Subtotal				24778.85		132481.91		0.00
Overhead(25%)		4	:	7289.73		117915.83		1251.45
Total				36448.65		589579.17		6257.25
Unit price				404.99		6550.88		€9.53



Item No.
Work: Muck haul, inclined tunnel, incline 100m
Remarks: 150kw winch, 4.5m3*2 nos muck car, 90m3
Unit price:

unit price:	•							
Description	Sait	Quantity	Poreign	Currency	Local C	urrenoj	Duty & Tax	
			Unit Cost	Amount	Unit Cost	Asount	Unit Cost	AMOUNT
Labor cost				•	•			
Foregan	eđ	0.765	9.00	0.00	24700.00	18895.50	0.00	6.00
Operator	a ŝ	1.530	0.08	0.00	25600.00	39168.90	0.00	0.60
Assist operator	no	1.530	0.00	0.00	17900.00	27387.00	6.63	9.00
Common labor	34	3.060	0.00	0.00	17300.00	52938.00	0.00	0.00
Subtotal				0.00		138388.50		0.00
Material cost								
Electric	kwh	517.050	7.00	3619.35	281.00	145291.05	8.00	4136.40
Miscellaneous(3%)				108.58		4358.73		124.09
Subtotal				3727.93		149649.78		4260.49
Equipment cost					-			
Winch, 150km	day	0.383	£2442.00	20085.29	280385.00	107387.46	0.00	0.00
Miscellaneous(5%)				1004.26		5369.37		0.00
Subtotal				21089.55		112756.83		9.00
Overhead(25%)				6204.37		100198.78		1065.12
Total				31021.85		500993.89		5325.62
Unit price				344.69		5566.60		59.17

Item No.
Nork: Muck haul, inclined tuncel, incline 350s
Remarks: 150kw winch, 4.5a3*2 nos muck car. 30m3

Description	Cait	Quantity	Soreiga	Currency	iceal C	urrehey	Duty &	lax
		(,	Unit Cost	Amount	Unit Cost	Ameunt	Unit Cost	Asount
Labor cost				(Yen)		(\$/.)		(\$/.)
Poresan	සර	1.043	0.00	0.00	24700.00	25762.10	0.00	0.00
Operator	වර්	2.086	0.00	0.00	25600.00	53401.60	3.00	
Assist operator	ធថ	2.086	0.00	0.00	17900.00	37339.40	€.00	0.00
Common labor	ná	4.172	0.00	0.00	17300.00	72175.60	9.00	0.00
Subtotal				0.00		188578.70		0.00
Material cost							*	
Electric	kwa	704.700	7.00	4932.90	281.00	198020.73	8.00	5637.60
Hiscellancous(31)				147.29		5940.62		169.13
Subtotal				5080,89		203961.32		5800.73
Equipment cost							-	
Kinch, 150kv	gay:	9.522	52442.00	27374.72	280385.00	146360.97	0.00	0.00
Miscellaneous(5%)				1368.74		7318.05		0.00
Subtota!				28743.46		153679.02		0.00
Overhead(251)				8456.09		136579.78		451.68
Tota!				42280.43		682893.80		7258.41
Unit price	4			469.78		7587.76		80. 6 5

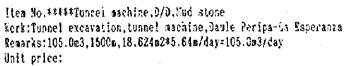


Item No.
Work: Huck haul, inclined tunnel, incline 450m
Remarks: 150kw winch, 4.5m3*2 nos muck car, 90m3
Unit price:

Description	Unit	Unit Quantity		Currency	Local Currency		Duty & Tax	
•		•	Unit Cost	Amount	Vait Cost	Amount	Unit Cost	Ascunt
iabor cost				(Yen)		(\$/.)		(S/.)
forenan	æ/j	1.173	9.00	0.00	24700.00	28973.10	0.00	0.00
Operator	od.	2.346	0.00	0.00	35600.CO	60057.60	0.00	6.00
Assist operator	n.c	2.346	0.00	0.00	17900.00	41993.49	0.00	0.00
Common labor	ad	4.892	0.00	0.00	17300.00	81171.60	0.00	0.00
Subtotal				0.00		212195.70		0.00
Material cost								
Electric	kwh	792.450	7.00	5547.15	281.00	222678.45	8.00	6339.60
Miscellaneous(3%)				166.41		6680.35		190.19
Subtotal				5713.56		229358.80		6529.79
Equipment cost								
Kinch, 150kw	oay	0.587	52442.00	30783.45	280385.00	164586.00	0.00	0.00
Niscellaneous(5%)				1539.17		8229.30		0.00
Subtotal				32322.63		172815.29		0.00
Overhead(25%)				3509.05		153592.45	•	1632.45
Total				47545.24		767962.25		8162.24
Unit price				528.28		8532.91		90.69

Item No. Work: Muck haul, inclined tunnel, incline 180s Remarks: 100kw winch, 3.0a3%2 nos muck car. 67m3 Unit price:

Unit price: Description		llai r	Quantity	Poreign	Currency	Local û	urrency	Duty L	Pax
Je See I pe I e u		UII	quante of	Unit Cost	Amount	Unit Cost	Agouat	Unit Cost	Amount
Labor cest					(Yen)	÷	(\$/.)		(S/.)
foreman		Еď	0.926	3.00	0.00	24700.00	22872.20	9.60	0.00
Operator		ød	1.852	0.00	0.00	25600.00	47411.20	0.00	0.00
Assist operator		10	1.852	0.00	0.00	17900.00	33150.80	9.00	0.00
Conson labor		τċ	3.704	0.00	0.00	17300.00	64079.20	0.00	9,00
Subtotal	•				0.00		157513.40		0.00
Material cost									. 3
Electric		kuh	416.700	7.00	2916.90	231.00	117092.70	8,00	3333.60
Hiscellaneous(31)					87.51		3512.78		100.01
Subtotal					3004.41		120605.48		3433.61
Equipment cost									1
Winch, 100kw		daş	0.463	36904.00	17086.55	197308.00	31353.60	0.00	0.00
Hiscellaneous(5%)					854.33		4567.68		0.00
Subtotal					17940.88		35921.28		0.00
Overnead(25%)					5236.32		96010.04		858.40
Total					26181.61		480050.21		4292.01
Unit price					390.77		7164.93		64:06



Unit price:					•			
Description	Unit	Quantity	Poreign	Currency		urreney	Duty &	Tax
* *			Unit Cost	invork	Unit Cost	Anount	Unit Cost	Amount
Labor cost				(Yen)		(\$/.)		(8/.)
Porenan,?	æd	0.500	30000.00	15000.00	0.00	0.00	0.00	0.00
Foreman, L	ad	4.000	0.00	0.00	24700.00	98800.00	0.00	0.00
Mechanic	r d	2.000	6.00	0.90	25700.00	51400.00	0.00	0.00
Electrician	ьa	2,000	0.00	0.00	25700.00	51400.60	0.00	0.00
Skilled labor	虚	4.000	0.00	0.00	20900.00	83600.00	0.00	2.00
Common labor	æd	12.000	0.00	0.00	17300.00	207600.00	0.00	0.00
Powder operator	sd	0.000	0.00	0.00	17300.00	0.00	0.00	9.00
Tunnel worker	ad	0.000	0.00	0.00	20200.00	0.00	0.00	0.00
Operator	Eđ	4.000	0.00	0.69	25600.00	102409.00	0.00	0.00
Assist operator	nd	4.000	0.00	0.00	17300.00	71600.00	0.00	0.00
Subtotal(F *1.0,L *1.785)				15000.00		1190238.00		9.00
Haterial cost								
Dynamite***	kg	0.000	0.00	0.00	9.60	0.00	0.00	0.00
Insert bit,22mm,1.7m	No		0.00	0.00	0.00	9.00	6.00	0.00
Detonator.delay	No		0.00	0.00	6.60	0.00	0.00	0.00
Consumer bit,etc.	m3		200.00	21000.00	0.00	0.00	0.00	0.00
Gas pipe,65mm	Ti.	1.410	760.60	1071.60	855.00	1205.55	0.00	0.00
Timber square	93			263.73	116200.00	24634,46	14000.00	2968.00
Vent pipe,500mm		5.640	1391.00	7845.34	1565.00	8826.60	0.00	0.00
Galva pipe,150mm	6	1.410	3724.00	525C.84	4190.00	5907.90	0.00	0.00
Galva pipe,100ma	9	1.419	2119.00	2937.79	2384.00	3361.44	0.00	0.00
Blectric		1949.100	7.00	13643.70	281.00	547697.10	8.50	15592.80
Light oil	lit	423,900	4.00	1695.60	353.00	149636.70	1.00	423.93
lubricant	lit	11.304	44.00	497.38	4150.00	46911.60	500.00	5652.00
Grease	kg	0.169	58.00	9.80	5395.00	911.76	650.00	109.85
Miscellaneous(31)	~ь	0.100	00.00	1627.97	0000.00	23672.79	007.00	742.40
Subtotal				55893.65		812765.84		25488.95
Equipment cost				20000.00		012100.01		50100140
Leg drill,2.7m3/min	day	0.069	0.00	05.0	0.00	0.00	0.00	0.00
Tunnel machine,65 type	hr	5.091	30233.00	153916.20	97896.00	498388.54	0.00	0.00
Pick hammer, 7.5kg	day	4.000	181.00	734.00	373.00	1492.00	8.00	0.00
Huck loader, rail, 0.4m3	hr	0.003	0.00	9.00	0.00	9.00	0.00	0.00
Guide shell	day	0.600	0.00	0.00	0.00	0.00	0.00	9.00
Muck car, 4.5m3	day	10.000	2747.00	27470.00	11907.00	119070.00	0.00	3.00
Locoaotive,8t	hr	2.000	5666.00	11332.00	32585.00	65179.00	0.00	0.00
Rail,30kg/m.	day	0.103	181.00	18.64	489.00	50.37	0.00	0.00
Vent fan.300	day		3378.00	20268.00	11484.00	68904.00	0.00	9.60
Vent fan,100	day	2.000	259.00	518.00	379.00	1758.00	0.00	9.00
Air compressor, 16m3	day	1.000	13343.00	13343.00	52979.00	52979.00	6.00	9.00
Siscellaneous(51)	24,	1.000	10010100	11379.49	02010.00	40390.60	0.00	0.00
Subtotal			÷	238969.34		848202.50		0.00
Overhead(25%)				77465.75		712801.58		6372.24
Total				387328.73		3564007.92		31861.18
Unit price				3888.85		33942.93		303.44
oute hitee				0000100		00074.00		VVV117

Item No.*****Tunnel machine.9/D.Kud stone Kork:Tunnel excavation.blasting.Esperanza-Poza Honda Remarks:99.20m3,2000m.18.013m2*5.505m/day=99.20m3/day Unit price:

Vait price:	1. 11. 44	A	9	C			Dorte 1	T
Description	UALL	Quantity		Currency		urrency	Duty 3	
			Unit Cost		Unit Cost	Amount	Unit Cost	Amount
Labor cost				(Yen)	1 1	(\$/.)		(\$/.)
forenan, f	ad	0.590	30000.00	15900.00	6.00	0.00	0.00	0.00
Poreman, L	43	4.000	0.00	0.00	24700.00	98800.00	0.00	. :: 0.00
Mechanic	øć	2.000	0.00	0.00	25700.00	51409.00	0.00	0.00
Electrician	nd	2.000	0.00	0.60	25700.00	51400.00	9.60	9.00
Skilled labor	ПŠ	4.000	0.00	0.90	20900.00	83600.00	8,00	0.00
Common labor	će	12.000	0.00	0.00	17390.00	207600.00	9.00	0.00
Powder operator	æċ	0.000	9.00	0.00	17300.00	0.00	0.00	0.00
Tunnel worker	æż	0.000	9.00	0.00	20200.00	6.00	0.00	0.00
Operator	ŔĊ		9.00	0.60	25600.00	102400.00	0.00	
Assist operator	æć.	4.900	0.20	0.00	17900.00	71600.00	9.00	0.50
Subtotal(7 *1.0.5 *1.785)		,	5.60	15000.00		1190238.00		0.00
Haterial cost				10010100		1140505104		0.00
Dynamite***	kg	0.000	9.00	0.00	0.00	0.00	0.00	0.00
	ng Bo		0.00	0.00	0.00	9.00	0.00	0.90
Insert bit, 22mm, 1.7m		0.000	0.00	3. 6 9	0.00	0.00	0.00	0.00
Detonator,delay	50							-0.00
Consumer bit,etc.	3 3	99.200	200.00		6.00	0.00	6,00	
Gas pige,65mm	3	1.410	760.CO	1071.60	855.00	1205.55	9.00	0.00
Timber square	e 3	0.212	1244.00		116200.00	24634.40	14000.00	2968.00
Vent pipe,500sm	3	5.508	1391.00		1565.00	8620.02	0.30	0.33
Galva pipe,150ma	. 0	1.110	3724.00		4190.00	5907.90	0.00	0.00
Galva pipe,100mm	a	1.410	2119.03	2987 .7 9	2384.00	3361.44	0.00	0.00
Blectric	(%5)	2474.800	7.90	17322.20	281. CO	695362.60	8.00	19798.80
Sight oil	!!!	423.300	4,30	1695.60	353.00	149636.70	1.00	423.90
lubricant	lit	11.304	44.00	497.38	4150.00	46911.60	500.00	5652.00
Grease	kg	9.169	58.00	9.80	5395.00	911.76	650.00	109.85
Miscellaneous(3%)	•			1698.92		28096.56		868.52
Subtotal				58298.58		964648.52		29319.07
Equipment cost								
Leg drill,2.7m3/min	ćay	0.000	0.90	0.00	0.00	0.00	0.00	6.00
Tunnel machine, S5 type	hr	4.590	39233.00		37896.00	449342.64	0.00	9.00
Pick haumer, 7.5kg	day	4.000	181.00		373.00	1492.00	0.00	0.00
Muck loader, rail, 0.4m3	br	0.000	0.00		0.00	0.00	0.00	0.00
Guide shell		0.000	0.00		0.00	9.00	0.00	0.00 0.00
	02.7							
Nuck car.4.5±3	day	8.000	2747.00		11907.00	95256.00	0.00	0.00
Locomotive, St	,er	2.000	5865.00		32585.00	65170.00	0.00	0.00
Rail,30kg/x,	day.	0.132	181.00		489.00	64.55	0.00	0.00
Vent fan 300	day	8.000	3378.00	27024.00	11484.00	91372.00	0.00	0.00
Vent fan,100	ĊάŞ	2.006	259.00	518.00	879.00	1758.00	0.00	0.00
Air compressor, 10.5m3/min	day	1.000	13343.00		52979.00	52979.00	0.00	0.00
Miscellaneous(51)				10685.52		37896.71		0.00
Subtotal				224395.38		795830.90		0.00
Overhead(25%)				74423.62		737679.36		7454.77
Total				372118.08		3688396.78		37273.83
Unit price				3751.19		37181.42		375.74
- - - -								

Item No.*******Tunnel machine.D/D.Rud stone Kork:Tunnel excavation.Poza Honda-Hancha Remarks:64.4m3,12.174m2*5.292m/day=64.40m3/day.rail Unit price:

Unit price:				_				.
Description	Unit	Quantity		Currency		urrency	Dety &	
			Unit Cost	Ascunt	Unit Cost	Asount	Unit Cost	Amount
Labor cost				(Yea)		- (\$/.)		(S/.)
Porenan, F	æq	0.500	30000.00	1 5 000.30	0.00	0.00	0.00	0.00
Poreman, L	ad	2.000	9.00	- 3.00	24700.00	49400.00	0.00	0.00
Mechanic	ad	2.000	0.00	0.00	25700.00	51490.90	0.00	0.00
Electrician	n ad	2.000	0.00	0.00	25700.00	51400.00	0.00	
Skilled labor	€ d	\$.000	0.00	0.00	20900.00	125400.00	0.00	0.00
Common labor	าดี	8.000	0.00	0.00	17300.00	138400.00	9.00	0.00
Powder operator	ad	0.000	0.00	0.00	17300.00	0.00	0.00	0.00
Tunnel worker	ad	0.500	0.00	0.00	20200.00	0.00	0.00	0.00
Operator	sď	4.000	0.00	0.00	25600.00	102400.00	0.00	0.00
Assist operator	ងប់	4.000	0.00	0.00	17900.69	71609.00	0.00	9.00
Subtotal(F *1.0,L *1.785)				15000.00	•	1053150.00	. 1	0.00
Naterial cost				-				
Dynamite***	λg	0.000	9.00	0.00	0.00	0.00	9.00	0.00
Insert bit.22mm,1.7m	eř.		0.00	0.00	0.00	0.00	0.00	0.00
Detonator, delay	No	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Comsumer bit, etc.	a 3		200.00	12880.00	0.00	0.00	9.00	0.00
Gas pipe,65ma		1.323	760.00	1005.48	855.00	1131.17	0.00	0.00
Timber square	93		1244.00	338.37	116200.00	31606.40	14000.00	3808.00
Vent pipe,500mm	*	5.292	1391.00	7381.17	1565.00	8281.93	0.00	0.00
Galva pipe,150sm	2	1.323	3724.00	4926.85	4193.00	5543.37	0.00	9.00
Galva pipe,100mm	9	1.323	2119.00	2803.44	2384.00	3154.03	0.00	0.00
Electric		1577.600	7.00	11043.20	281.00	443305.60	8.00	12620.30
Light oil		423,300	4.00	1695.60	353.00	149636.70	1.00	1 23.90
lubricant	lit		44.00	497.38	4150.CO	46911.50	500.00	5652.00
Grease	kg	0.169	58.00	9.30	5335.00	911.75	650.00	109.85
- Miscellaneous(3%)				1275.84		20714.48		678.44
Subtotal		·		43838.13		711197.08		23292.93
Equipment cost								
ieg drill,2.7m3/min	day	0.000	0.00	0.00	0.00	C.00	0.00	0.00
Tunnel machine	hr	3.675	30233.00	111106.28	97896.00	359767.80	0.00	0.50
Pick hammer,7.5kg	day	3.000	181.00	543.00	373.00	1119.00	0.00	0.00
Nuck loader, rail, 0.4m3	hr	0.000	6.00	0.00	0.00	0.60	0.00	0.00
Guide shell	daş	0.000	0.00	9.00	0.00	0.00	0.00	0.00
Nuck car,3.0m3	day	8.000	2405.00	19240.00	10423.00	83384.00	0.00	0.00
Locomotive,6t	hr		4625.00	9250.00	26600.00	53200.00	0.00	0.00
Rail,30kg/m,	CS)		181.00	23.89	489.60	84.55	0.00	0.00
Vent fan, 300	daş	5.000	3378.00	16890.00	11484.00	57420.00	9.00	0.00
Vent fan,100	day		259.00	518.00	879.00	1758.00	0.00	0.00
Air compressor,16m3/min	day	1.000	13343.90	13343.00	52979.00	52973.00	0.00	0.00
Hiscellaneous(5%)				8545.71		30484.62		0.00
Subtotal	,		•	179459.88		640176.97		0.00
Overhead(25%)				59574.50		501131.01		5823.25
Total				297872.50		3005655.06		29116.23
Unit price				4625.35		46671.66		452.13

Item No. *******Kork adit, inclined, Portoviejo, Kud stone kork: Tunnel excavation, kork adit, blasting, D/D Remarks: 15.75m3,50m(incline), 15.75m2*4.06m/day=63.95m3/day Unit orice:

Unit price:				Au	lass) 0		Dety &	Tau
Description	Unit	Quantity		Currency		urrency	Unit Cest	Amount
			Unit Cost	Amovint (Yen)	Unit Cost	Amount (S/.)	anit cest	(S/.)
Labor cost	- 4	0.500	33000.00	15000.00	0.00	9.00	0.00	
Poreman, F	ad a	2.600	0.00	0.00	24700.00	49400.00	0.00	0.00
Forenan, L	ba 	2.000	0.00	0.00	25709.00	51400.00	0.00	
Mechanic	ad		9.00		25799.00	51400.00	0.00	0.00
Electrician	ĕ d	2.000		0.00	20900.00	125400.00	2.00	0.00
Skilled labor	ad.	6.000	0.00			173000.00	0.90	0.00
Common labor	nd-	10.000	0.00	0.00	17309.00			
Powder operator	ad	2.000	0.00	0.00	17300.00	34800.00		0.60
Tunnel worker	ac	12.000	0.00	0.00	20200.03	242400.00		0.00
Operator	яđ	2.000	0.00	0.00	25600.00	51200.00	0.00	9.00
Assist operator	15	2.000	3.00	0.00	17909.00	35800.00	0.00	0.00
Subtotal(F *1.0,L *1.785)				15900.00		1454061.00		3.00
Material cost								
Dynamite	kg	63.945	3.00	0.00	8343.00	533493.14	00.008	51795.45
Insert bit,22mm,1.7m	No		14017.00	10162.33	15769,00	11432.53	0.00	0.00
Detonator, delay	80	185.900	0.00	0.00	3863.00	718131.70	375.00	83712.50
Gas pipe,65mm	ž	1.015	760.00	771.40	855.00	867.83	3.00	0.00
Timber square	n 3	0.001	1244.00	1.24	116200.00	116.20	14000.00	14.00
Vent pipe,500mm	Ġ	4.060	1391.00	5647.46	1565.00	6353.90	0.00	0.00
Galva pipe,159mm	16	1.015	3724.00	3779.86	4199.00	4252.85	9.00	0.00
Galva pipe,100mm	4	1.915	2119.00	2150.79	2384.00	2419.76	3.00	0.00
Electric	kwh	1692.000		11844.60	281.00	475452.00	8.00	13536.00
Light oil	lit			1695.60	353.00	149636.70	1.00	423.90
Lubricant	lit	11.302		497.29	4150.00	46903.30	500.93	5651.00
Grease	kg	0.169	58.00	9.80	5395.00	911.75	550.00	109.85
Hiscellaneous(3%)	5	41100	*****	1096.79	••••	58499.15	200100	4237.28
Subtotal				37656.56		2008470.80		145479.98
Equipment cost				0.000.00		30001.0105		
Leg drill, 2.7m3/min	day	4.000	1308.00	5232.00	2699.00	10796.00	0.00	0.00
Pick hammer, 7.5kg	day	3.000	181.60		373.00	1119.00		0.00
	hr hr	4.507			20618.00	92925.33	The second second	0.00
Nuck loader, rail, 0.4m3			2572.00			21223.00		0.00
Guide shell	day	4.000			11907.60	23814.00		0.00
Muck car,4.5a3	day	2.000						
kinch,150km	pc	0.000			289385.00	0.00		
Rail,30kg/m.	day	0.001			489.00	0.49	0.00	0.00
Yent fan,300	day	1.000	3378.00		11484.00	11484.00	9.00	0.00
Vent fan,100	day	2,000				1758.60	0.00	
Air compressor, 18m3/min	dev	1,000	13343.00		52979.60	52379.00	0.50	0.00
Miscellaneous(5%)				3041.09		10805.19		0.00
Subtotal				63862.98		226909.01		0.00
Overhead(25%)				29129.89		923360.20		36370.00
Total				145649.43		4611801.01		181849.98
Unit price		-	•	2277.55		72115.73		2843.63
					* *			

Work: Tunnel excavation, work adit.blasting.D/D Remarks: 15.75m3,100m (incline), 15.75m2*4.06m/day=63.95m3/day

Air compressor, 16m3/min

Miscellaneous(51)

Subtotal

Overhead(25%)

Unit price

Total

day

Unit price: Local Currency Outy & Tax Unit Quantity Poreign Currency Description Unit Cost Unit Cost Asount Unit Cost ABOURL Amount (\$/.) (S/.)(ten) Labor cost 0.00 0.60 0.00 30000.00 15000.00 0.00 0.500 foreaan.? 14 0.00 0.00 2.000 0.00 9.00 24700.00 49400.00 Poreran.L ac. 0.00 0.30 nd 2,000 0.00 0.00 25700.00 51400.00 Mechanic 0.00 0.00 ad 2.000 6.00 0.00 25700.00 51400.00 Electrician 6,000 0.000.00 20900.00 125400.00 0.00 0.00 Skilled Jahor ad 10.000 0.000.00 17300.00 173000.00 0.00 0.60 Common labor £Ġ. Powder operator 2,000 0.00 0.00 17300.00 34600.00 0.00 9.06 æd 12,900 0.00 20200.60 242400.00 0.00 0.00 Tunnel worker ъĠ 0.00 51200.00 0.00 Operator æď 2,000 0.00 0.3025800,00 0.00 Assist operator лá 2,000 0.000.00 17900.00 35800.00 0.900.00 Subtotal(F *1.0,L *1.785) 15000.00 1454061.00 0.00 Material cost 810.60 51795.45 63.945 0.90 0.00 8343.00 533493.14 Dynamite 'nę 15769.00 0.725 14017.00 10162.33 11432.53 0.00 0.60 Insert bit, 22mm, 1.7m No. 185,900 0.00 0.00 3863.00 718131.70 375.00 69712.50 Detonator.delay No 771.40 0.00 0.00 1.015 160.00 855.00 367.83 Gas pipe.65mm E 14.00 0.001 1244.00 1.24 116200.03 116,20 14000.00 Timber square 13 4.060 1391.00 6353.90 0.00 0.00 Vent pipe,500mm f. 5647.46 1585.00 4252.85 0.00 0.00 Galva pipe,150mm 1.015 3724.00 3779.86 4190.00 Th: Galva pipe,100mm 0.00 1.015 2119.00 2159.79 2334.00 2419.76 0.00Ī, keh 1692.000 7.00 11844.00 281.00 475452.00 8.00 13536.30 Slectric 4.60 lit 423.900 149636.70 1.00 423.90 Light oil 1695.60 353.00 11.302 44.00 497.29 4150.00 46903.30 500.00 5651.00 Lubricant lit 0.159 58.00 9.805395.00 650.00 109.85 kg 911.76 Grease 4237.28 1098.79 58499.15 Miscellaneous(31) 145479.98 37656.56 2008470.80 Subtotal Equipment cost 2699.00 10736.00 0.00 9.00 Leg drill.2.7m3/min day 4.000 1308.00 5232.00 0.00 Pick hammer 7.5kg day 3.000 181.00 543.00 373.00 1119.00 3.00 Nuck loader rail 0.423 hr 4.507 4887.00 22025.71 20618.00 92325.33 0.900.90Guide shell day 4.000 2572.00 10288.00 5397.90 21228.00 0.00 0.00 Nuck car, 4.5m3 day 2.000 2747.00 5494.00 11907.00 23814.00 9.00 0.00 Kinch 150kw 'nr 0.600 52442.00 9.00 280385.00 9.00 0.00 0.60 0.00 Rail, 30kg/m. day 0.001 181.00 0.18 489.00 0.49 0.00 0.00 Vent fan;300 day 1.000 3378.00 3373.00 11484.00 11484.00 0.00 Vent fan. 100 dav 2,000 259,60 518.00 879.00 1758.60 9.00 0.00 1.000 13343.00 13343.00 52979.00 52979.30 0.00 0.00

3041.09

63862.98

29129.89

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2277.55

10805.19

226909.01

322360.20

4611801.01

72115.73

0.00

0.00

36370.00

181849.98

2843.63

Item No.******Work adit, inclined. Portoviejo, Nud stone Work: Tunnel excavation, work adit, blasting, D/D Remarks: 15.75m3, 200m(incline), 15.75m2*3.92m/day=61.74m3/day Unit price:

Unit price:								
Description	- Unit	Quantity	Poreign (Local C		Doty 1	
			Unit Cost	Amount	Unit Cost	Amount	Deit Cost	SRUCAR
Labor cost				(Yea)		(S/.)		(\$/.)
Poreman,P	nd	9.500	30000.00	15000.00	0.00	0.00	0.30	0.00
Poreman.L	மை	2.000	0.00	0.00	24700.00		0.00	0.00
Hechanic	1. ć	2.000	0.00	G.00	25700.00		0.00	
Electrician	n.d	2.000	0.00	0.00	25700.00	51400.00	0.00	
Skilied labor	30	6.000		0.00	20900.00	125400.00	0.00	0.00
Common labor	adi	10.090	9.00	0.00	17300.00	173000.00	0.00	0.00
Powder operator	sd	2.000	0.60	0.00	17300.00	34606.80	0.00	
Tunnel worker	e i	12.000	0.00	0.00	20200.00	242400.00	90.00	0.00
Operator	s d	2.000	0.00	0.00	25600.00	51200.00	0.00	0.00
Assist operator	9d	2.000	0.00	9.69	17900.00	35800.00	0.00	0.00
Subtotal(F *1.0,L *1.785)				15000.00	•	1454061.00	4	0.00
Haterial cost								
Dynamite	kg	61.740	0.00	0.00	8343.00	515096.32	810.00	50009.40
Insert bit,22mm,1.7m	No.	0.701	14617.60	9825.92	15769.00	11054.07	0.00	0.00
Detonator, delay	No	179.850	0.00	0.00	3863.00	694760.55	375.00	67443.75
Gas pipe,65mm	9	0.980	760.00	744.80	855.00	837.90	0,00	0.00
Timber square	a 3	0.915	1244.00	18.66	116260.00	1743.60	14000.00	310.00
Vent pipe,500am		3.920	1391.00	5452.72	1565.00	6134.30	0.00	0.00
Salva pipe,150mm	3	0.980	3724.00	3649.52	4190.00	4106.20	0.00	0.90
Galva pipe,100ma	ñ	0.380	2119.00	2076.62	2384.00	2336.32	0.00	0.00
Electric	ksh	1692.000	7.00	11844.00	281.00	475452.00	8.00	13536.00
Light oil	lit	423.900	4.00	1695.60	353.00	149636.70	1.00	423.90
Lubricant	lit	11.302	44.90	497.29	4150.00	46903.30	500.00	5651.00
Grease	kg	0.169	58.00	9.80	5395.00	911.76	659.00	109.85
Miscellaneous(31)				1074.45		57269.20		4121.52
Subtotal				36889.37		1966242.62		141505.42
Equipment cost					•			
Leg drill,2.7m3/min	ćay	4.000	1308.00	5232.00	2699.00	10798.00	0.00	
Pick hammer.7.5kg	day	3.000	181.00	543.90	373.00	1119.66	0.00	0.00
Huck loader, rail, 0.4m3	hr	4.905	4887.00	23970.74	20618.00	101131.29	0.00	
Guide shell	day	4.000	2572.00	10288.00	5307.00			
Nuck car,4.5m3	day	2.000	2747.00	5494.60	11907.00	23814.00	9.08	
Winch, 150kw	àr	0.000	52442.00	0.00	230335.00	0.00		
Rail,30kg/m.	day	0.001	181.00	0.18	489.00	0.49	0.00	
Vent fan 300	day	1.000	3378.00	3378.30	11484.90	11484.CC	0.00	0.00
Vent fan 100	day	2.000	259.00	518.00	879.00	1758.00	6.90	
Air compressor, 16m3/min	day		13343.00	13343.00	52979.00	52979.00	0.00	0.00
Hiscellaneous(5%)				3138.35		11215.49		0.00
Subtotal				65905.26		235525.27		0.00
Overhead(25%)				29448.66		913957.22		35376.35
Total				147243.30		4569786.11		176881.77
Unit price				2384.89		74016.62		2864.95

Item No.*******Work adit, inclined, Portoviejo, Hud stone Work: Tunnel excavation, work adit, biasting, D/D Remarks: 15.75m3,350m(incline), 15.75m2*3.80m/day=59.85m3/day Unit price:

Sait price:								
Description	Unit	Quantity	Foreign	Currency		urrency	Duty &	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost				(Yen)		(8/.)		(S/.)
Poreman,F	- nd	0.500	30000.00	15000.00	0.00	0.00	0.00	0.00
Poreman, L	sd	2.000	0.00	9.00	24700.00	49408.00	0.00	0.90
Eechanic	só	2.000	9.90	0.00	25700.00	51400.00	9.00	0.00
Electrician	ad	2,000	0.00	6.00	25700.00	51400.00	0.00	0.00
Skilled labor	ąċ	6.000	9.00	0.00	20900.00	125400.93	0.00	0.00
Common labor	ba	10.000	0.00	6.00	17300.00	173000.00	0.00	0.99
Powder operator	ed	2.000	0.00	9.00	17300.00	34600.00	0.00	0.00
Tunnel worker	. ad	12.000	0.00	3.00	20200.00	242400.00	0.00	0.00
Operator	ad	2.000	0.00	0.00	25600.00	51200.00	0.00	0.00
Assist operator	sá	2.000	9.00	0.00	17900.00	35890.00	0.00	0.00
Subtotal(F *1.0, L *1.785)				15000.00		1454061.00		0.00
Haterial cost								
Dynamite	kg	59.850	9.00	9.00	8343.00	499328.55	810.00	18478.50
insert bit,22mm,1.7m	No		14017.00	9 53 1.56	15769.30	10722.92	0.00	0.00
Detonator, delay	No	174.350	0.00	9.60	3863.00	673514.05	375.00	65381.25
Gas pipe,65mm	. 6	0.950	760.00	722.00	855.00	813.35	0.00	0.00
Timber square	m.3	0.026	1244.00	32.34	116200.00	3021.20	14000.00	364.00
Vent pipe,500mm	M	3.800	1391.00	5285.80	1565.00	5947.00	0.00	0.00
Galva pipe,150mm	. 3	0.950	3724.00	3537.80	4190.00	3980.50	0.00	0.00
Salva pipe,100mm	Æ	0.950	2119.00	2013.05	2384.03	2264.80	0.00	9.00
Electric	ksh	1692.000	7.00	11844.00	281.00	475452.00	8.00	13536.00
Light oil	lit	423.900	4.30	1695.60	353.00	149636.70	1.00	423.90
Lubricant	lit	11.302	44.00	497.29	4150.00	46903.30	500.00	5651.00
Grease	ίg	0.169	58.00	9.80	5395.00	911.76	650.00	109.85
Hiscellaneous(3%)		•		1055.08		56174.85		4018.34
Subtotal				36224.33		1928669.88		137962.84
Equipment cost								
leg drill,2.7m3/sin	day	4.000	1308.00	5232.00	2699.00	10795.00	0.00	0.90
Pick hammer, 7.5kg	day	3.000	181.00	543.00	373.00	1119.00	0.00	S.00
Muck loader, rail, 0.4m3	hr	5.283	4887.00	25818.92	2061S.00	108924.89	0.00	0.00
Suide shell	day	4.000	2572.90	16288.00	5307.00	21228.00	0.30	0.00
Mack car,4.5m3	day	2.000	2747.00	5494.00	11907.00	23814.00	0.00	0.00
Winch, 150kw	àr	0.000	52442.00	0.00	280385.00	0.00	0.60	3.60
Rail,30kg/m,	day	0.013	181.GO	2.35	189.00	6.36	0.00	0.00
Vent fan,300	day	1.000	3378.00	3378.00	11484.00	11484.00	0.00	0.00
Vent fan,100	day	2.000	259.00	518.90	373.00	1758.00	0.00	0.00
Air compressor,16m3/min	day	1.000	13343.00	13343.00	52979.00	52979.00	0.00	0.00
Hiscellaneous(5%)				3230.82		11605.46		0.00
Subtotal				67847.19		243714.71		0.00
Overhead(25%)				29767.88		906611.40		34490.71
Total				143839.39		4533056.99		172453.54
Unit price				2486.87		75740.39		2881.43

Item No.******Work adit, inclined, Portovicjo, Mud stone Nork:Tunnel excavation, work adit, blasting, 0/D Remarks:15.75m3,450m(incline).15.75m2*3.71m/day=58.43m3/day Unit price:

Unit price:						D 2 T		
Description	Unit	Quantity		Currency	Local C		Duty &	
		•	Unit Cost	Amount	Unit Cost		Unit Cost	Amount
Labor cost				(Yen)		(\$/.)		(\$/.)
Poreman,?	ad	0.500	30000.00	15000.00	9.00	0.00	0.00	0.00
Foregan, L	ac	2.000		J. 0 0	24700.00	49400.CO	0.00	0.00
Mechanic	æd	2.000		0.00	25700.00	51400.00	0.00	0.00
Electrician	æđ	2.009	0.00	0.00	25700.00	51400.00	0.00	0.00
Skilled labor	æd	6.900	0.00		20909,00		0.00	0.00
Common labor	s:d	10,000	0.30	0.00	17300.00	173000.00	0.00	0.00
Powder operator	ತ್ತರೆ	2.000	0.00	6.90	17300.00	34600.00	0.00	9.00
Tunnel worker	s d	12.000	0.00	0.00	20200.00	242400.00	0.30	
Sperator	ndi	2.000	0.00	0.00	25600.00	51200.00	0.00	3.00
Assist operator	pd	2.000	0.00	9.09	17900.00	35800.00	9.66	0.00
Subtotai(F *1.0,L *1.785)				15000.00		1454061.00		0.00
Haterial cost								
Dynamite	kg	58.133	0.00	0.00	8343.00	487506.52	810.00	
insert bit,22mm,1.7m	No	0.662	14017.00	3279.25	15769.00	10439.08	9.60	0.00
Detonator, delay	No	169.950	0.00	0.00	3863.00	656516.85	375.00	63731.25
Gas pice,65mm	ā	0.928	160.00	705.28	855.00	793.44		0.00
Timber square	9 3	0.034	1244.00	42.30	116200.00	3950.80	14000.00	176.00
Vent pipe,500ma	а	3.710	1391.90	5160.61	1565.00	5806.15	0.00	0.00
Galva pipe, 150mm	Ð	0.928	3724.00	3455.87	4190.00	3888.32	0.00	9.00
Galva pipe,100mm	B	0.928	2119.00	1966.43	2384.00	2312.35	0.00	0.00
Electric	kwb	1692.000	7.00	11844.00	281.00	475452.00	8.00	13536.00
Light oil	lit		4.00	1695.60	353.00	149636.70	1.00	423.90
Lubricant	lit	11.303	44.00	197.29	4150.00	46903.30	500.00	5651.00
Grease	kg	0.169	58.00	9.80	5335.00	911.76	850.00	139.85
Miscellaneous(3%)	_			1039.69		55320.52	•	3937.78
Subtotal				35696.13		1899337.78		135196.49
Equipment cost					÷			5
Leg drill,2.7m3/min	day	4.000	1303.00	5232.00	2699.00	10796.00	0.00	0.90
Fick hammer, 7.5kg	day	3.000	181.00	543.00	573.00	1119.00	9.00	0.00
Muck loader, rail, 0.4m3	ar	5.665	4887.00	27684.86	20618.00	116890.97	0.00	0.00
Guide shell	day	4.000	2572.00	10288.90	5307.00	31228.00	0.00	0.00
Huck car,4.5m3	day	2.000	2747.00	5494.00	11907.00	33814.00	9.00	9.00
Kinch, 150kw	hr	0.000	52442.00	0.00	280385.00	0.00	0.00	0.00
Rail,30kg/m,	day	0.016	181.00	2.90	489.00	7.82	0.00	3.00
Vent fan 300	day	1.000	3378.00	3378.00	11484.00	11484.00	0.00	0.00
Vent fan 100	day	2.000	259.00	518.60	. 379.00	1758.00	0.00	0.00
Air compressor,16m3/min	day		13343.00	13343.00	52979.00	52379.00	0.00	0.00
Miscellaneous(5%)	•			3324.19		11999.34		0.00
Subtotal				69807.94		251986.13		0.00
Overhead(25%)			٠	30126.62		901345.23		33799.12
Total				150630.08		4506731.14		168995.61
Unit price				2577.98		77130.43	-	2892.27

Unit price:								
Description	Unit	Quantity		Currency		urrency	Duty &	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost				(Yen)		(S/.)		(\$/.)
Foregan, F	ad	0.500	30000.00	15000.00	0.00	0.00	0.00	0.00
Foregan, L	ad	2.000	0.00	0.00	24700.00	49400.00	0.00	0.00
Mechanic	ad	2.000	0.00	0.00	25700.00	51400.00	0.00	0.00
Electrician	nd .	2.000	6.00	0.00	25700.00	51400.00	0.00	0.00
Skilled labor	ad	6.000	0.00	0.00	20900.00	125400.00	9.00	0.00
Common labor	91	10.000	0.00	0.00	17300.00	173000.00	0.00	0.00
Powder operator	a d	2.000	0.00	0.00	17300.00	34600.00	0.00	0.00
Tunnel worker	ad	12.000	0.00	0.00	20200.00	242400.00	0.00	0.00
Operator	æd	2.000	0.00	0.00	25600.00	51200.00	0.00	0.00
Assist operator	пd	2.000	0.00	0.00	17900.00	35800.00	9.90	0.00
Subtotal(F *1.0,L *1.785)				15000.00		1454061.00		0.00
Material cost								
Dynamite	kg	62.685	0.00	9.00	8343.00	522980.96	810.00	50774.85
Insert bit, 22pa, 1.7m	No	0.712	14017.00	9980.10	15769.00	11227.53	0.00	0.00
Detonator,delay	No	182.600	9.00		3863.00	705383.80	375.00	68475.00
Gas pipe,65mm	1	0.995	780.00	755.20	855.00	850.73	0.00	0.00
Timber square	m3	0.001	1244.00	1.24	116200.CO	116.20	14000.00	14.00
Vent pipe,500mæ	9	3.980	1391.00		1565.00	6228.70	0.00	0.00
Galva pipe,150mm	а	0.995	3724.00		4196.00	4169.05	0.90	0.00
Caiva pipe,100mm	æ	0.995	2119.00	2108.41	2384.00	2372.08	0.00	0.00
Electric	kili	1692.000	7.00		281.00	475452.00	8.00	13536.00
Light oil	lit	423.900	4.00	1695.60	353.00	149636.70	1.00	423.90
Lubricant	lit	11.302	44.00	497.29	4150.00	46903.30	500.00	5651.00
Grease	kg	0.169	58.00	9.80	5395.00	911.76	650.00	109.85
Miscellaneous(3%)				1084.03		57786.98		4169.54
Subtotal				37218.23		1984019.78		143154.14
Equipment cost			-					
Leg drill,2.7m3/min	day	4.000	1308.00		2699.00	10796.00	0.00	0.00
Pick hammer, 7.5kg	day	3.000	181.00		373.00	1119.00	0.00	0.90
Muck loader rail, 0.4m3	hr	4.703	4887.00		20618.00	96966.45	0.00	0.00
Guide shell	day	4.000	2572.00		5307.00	21228.00	0.00	0.00
Nuck car, 3.0m3	day	2.000	2405.00		10423.00	20846.00	0.00	0.00
Winch, 100kw	hr		36904.00		197308.00	0.00	6.00	0.00
Rail,30kg/m,	day	0.016	181.00		489.00	7.82	0.00	0.00
Vent fan,300	day	1.000	3378.00		11484.00	11484.00	0.00	0.00
Vent fan,100	đay	2.000	259.00		879.00	1758.00	0.00	0.00
Air compressor,16m3/min	day	1.000	13343.00	13343.00	52979.00	52979.00	0.00	0.00
Miscellaneous(5%)				3054.92		10859.21		0.00
Subtotal				64153.38		228043.49		0.00
Overhead(251)				29092.90		916531.07		35788.53
Total				145464.51		4582655.34		178942.67
Unit price				2320.38		73109.26		2854.41

Item No. Work:Cone transp, inclined tunnel, incline 50m Remarks:100km winch, 6m3 bucket car, 70m3 Unit price:

Unit price:	Unit Quantity		Poreign Currency		Local Currency		Duty & Tax	
	111	Quantity.	Unit Cost	Amount (Yea)	Unit Cost	Amount (S/.)	Unit Cost	smount (S/.)
Labor cost					04703 03		Λ 00	
Foresa	æd	0.250	0.00	0.30	24703.00	6175.00	0.00	9.00
Operator	90	0.500	0.00	0.00	25600.00	12800.00	0.00	0.00
Assist operator	10	0.500	0.00	6.00	. 17900.00	8950.00	0.00	0.00
Common labor	ad	1.000	0.00	0.00	17300.00	17300.00	0.00	C.00
Subtotal			-	0.00		45225.00		0.00
Material cost								
Electric	(W)	120.690	7.00	844.83	281.00	33913.83	8.00	\$65.53
Miscellaneous(3%)			•	25.34		1017.42		23.97
Subtotal				870.17		34931.31		994.49
Equipment cost							:	
Winch, 100kw	ar	0.250	36904.00	9226.00	197308.00	49327.00	9.00	0.00
Bucket car	ay	0.250	3388.00	847.00	14685.00	3671.25	9.00	0.00
Hiscellaneous(5%)	•			503.65		2649.91		0.00
Subtotal				10576.65		55648.16		0.00
Overhead(25%)				2861.71		33951.12		248.62
Total				14308.53	* *	169755.59	ii.	1243.11
Unit price				204.41		2425.08		17.76



Item No. Nork:Conc transp,inclined tunnel,incline 100m Remarks:100km winch,6m3 bucket car,70m3 Unit price:

Description		Unit Quantity		Foreign Currency		Local Currency		Duty & Tax	
				Unit Cost	. *	Unit Cost	Amount	Unit Cost	Amount
Labor cost					(Yen)		(8/.)		(8/.)
Foresan		tø	0.250	0.00	0.00	24700.00	6175.00	0.00	0.00
Operator		ស្ន	0.500	0.00	0.00	25600.00	12800.00	0.00	0.00
Assist operator		æd	0.509	0.00	9.00	17900.00	8950.00	0.00	0.00
Common labor		æd	1.000	0.00	0.00	17300.00	17300.00	0.00	0.00
Subtotal					0.00		45325.00		0.00
Material cost									
Electric		kwh	129.630	7.00	907.41	281.00	36426.03	8.CO	1037.04
Miscellaneous(3%)					27.22		1092.78		31.11
Subtotal					934.63		37513.81		1068.15
Equipment cost									
Winch, 100km		day	0.250	36984.00	9226.00	197303.00	49327.00	0.90	0.00
Bucket car		day	0.250	3388.00	847.00	14685.00	3671.25	0.00	0.03
Kiscellaneous(5%)					593.65		2949.91		9.00
Subtotal				•	10576.65		55648.16		0.30
Overhead(25%)					2877.82		34597.99		267.04
Total	1.				14389.10		172983.97		1335.19
Unit price	1				205.58		2471.23		19.07

Item No. Work:Conc transp,inclined tunnel,incline 200m Remarks:100kw winch,6m3 bucket car.70m3 Unit price:

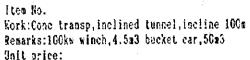
Unit price: Description	llait	Quantity	Foreign Currency		Local Currency		Duty & Tax	
ocoor iperon	****	(Vait Cost	Amount	Unit Cost	Amount	Smit Cost	Amount
Labor cost				(Yen)		(\$/.)		(8/.)
Forenan	ad	0.250	0.00	0.00	24700.90	6175.00	0.00	0.99
Operator	nd	0.500	0.00	0.90	25500.00	12800.00	9.00	0.00
Assist operator	ъз	0.500	0.00	0.30	17903.00	8950.00	0.00	0.90
Common labor	nd	1.000	0.00	9.00	17300.00	17300.00	0.00	0.00
Subiotal		******		0.00		45225.00		0.00
Haterial cost						:	:	
Electric	keh	152.173	7.00	1065.21	281.00	42750.61	8.00	1217.38
Miscellaneous(31)				31.96		1282.82		36.52
Subtotal				1097.17		44043.43		1253.91
Equipment cost					٠			
Winch, 100kw	day	0.250	36904.00	9226.00	197308.00	49327.00	9.90	0.00
Bucket car	day	0.250	3388.00	847.00	14685.00	3571.25	0.00	0.03
Miscellaneous(5%)	,			503.65		2649.91		0.00
Subtotal			1	10576.65		55648.16		0.00
Overhead(25%)				2918.45		36229.15		313.48
Total				14592.27		181145.74		1567.38
Unit price				208.46		2587.80		22.39

Item No. Work:Conc transp,inclined tunnel,incline 350m Remarks:100kw winch,6m3 bucket car,70m3 Unit price:

Description	Unit	Quantity	Poreign	Currency	Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Anoua:	Unit Cost	Amount
Labor cost				(Yen)		-(\$/.)		(\$/.)
Porenan	nd	0.250	0.00	0.00	24709.00	6175.00	0.00	0.00
Operator	æd	0.500	0.00	€.00	25800.00	12800.00	0.00	9.00
Assist operator	nd.	0.500	9.00	0.00	17900.00	8959.90	9.00:	0.00
Common labor	₽d	1.600	0.90	0.03	17300.00	17300.00	0.90	0.00
Subtotal				0.00		45225.00		0.00
Material cost						-		-
Electric	kwh	184.211	7.00	1289.48	281.00	51763.29	8.00	1473.69
Miscellaneous(3%)				38.68	•	1552.90		44.21
Subtotal				1328.16		53316.19		1517.90
Equipment cost								
Winch,100ks	đay	0.250	36904.00	9228.00	197308.00	49327.00	0.00	9.00
8ucket car	day	0.250	3388.00	847.00	14685.00	3671.25	0.00	0.00
Miscellaneous(5%)		•		503.65		2649.91		6.00
Subtotal				10576.65		55648.16		0.00
Overhead(25%)				2976.20		38547.34		379.47
Total				14881.01		192735.69		1897.37
Unit price				312.59		2753.38		27.11

Item No. Nork:Conc transp, inclined tunnel, incline 450m Remarks:100kw winch,6m3 bucket car,70m3 Unit price:

Unit price:	11=1+	Outrite	Poreign	Currosov	Local C	irronay	Juty 4	Tax
Description	unit	Quantity	Unit Cost	Amount	Unit Cost	Asount	Unit Cost	Amount
Labor cost				(Yen)		(\$/.) •		(\$/.)
Foreman	e d	0.250	0.00	0.00	24700.00	6175.00	0.00	0.00
Operator	තර	9.500	0.00	0.00	25690.00	12800.00	0.00	0.00
Assist operator	pđ	0.500	0.00	0.00	17900.00	8950.00	0.00	3.00
Common labor	æď	1.000	0.00	0.00	17300.00	17300.00	0.00	3.00
Subtotal			•	0.90		45225.00		0.00
Material cost								· · · · · · · · · · · · · · · · · · ·
Electric	kwh	205.882	7.00	1441.17	281.00	57852.84	8.00	1647.06
Miscellaneous(3%)				43.24		1735.59	1.00	49.41
Subtotal				1484.41		59588.43		1696.47
Equipment cost								
Winch, 100kw	day	0.250	36904.CC	9226.00	197308.00	49327.00	0.00	0.00
Bucket car	day	0.250	3388.00	847.00	14685.00	3671.25	0.30	0.00
Miscellaneous(5%)				503.65		2649.91		0.03
Subtotal				10576.65		55648.16		0.00
Overhead(25%)	•			3015.26		40115.40		424.12
Total				15076.32		200576.99		2120.58
Unit price				215.38		2865.39		30.29



Description	Unit	Quantity	Foreign	Currency	Local C	irreney	Duty 1	?ax
		•	Unit Cost		Unit Cost	imount	Unit Cost	Amount
Labor cost				(Yen)		(S/.)		(S/.)
Poreaan	sd	0.250	0.00	6.00	24700.00	6175.00	0.00	0.00
Operator	ed	0.500	0.00	0.93	25600.00	12860.00	0.00	9.00
Assist operator	nd	0.500	3.03	0.00	17900.00	8950.00	0.00	9.00°
Common labor	41	1.000	0.00	0.00	17300.00	17300.00	0.00	0.00
Subtotal	-			0.00		45225.00		0.00
Haterial cost								
Electric	kwh	125.000	7.00	875.00	281.00	35125.00	8.00	1000.00
Miscellaneous(3%)				26.25		1053.75		30.90
Subtotal				901.25		36178.75	•	1030.90
Equipment cost								
Kinch, 100kw	day	0.250	36904.00	9226.00	197308.00	49327.60	9.00	0.60
Breket car	day	0.250	2747.00	686.75	11907.00	2976.75	0.00	0.00
Miscellaneous(5%)				495.64		2615.19		0.00
Subtotal				10408.39		54913.94		0.00
Overhead(25%)				2827.41		34080.67		257.50
Total				14137.05		170403.36		1287.50
Unit price				201.96		2434.33		18.39

Item No. Work:Concrete lining,Daule-Esceranza Remarks:70m3/span,1500m.D/D Unit price:

Description	Uait	Quantity	Poreign	Currency	Local Co	urrency	Outs &	Pax
***************************************	• • • • • • • • • • • • • • • • • • • •	•	Unit Cost	Amount	Unit Cost	Acount	Unit Cost	Anount
Labor cost				(Yen)		(S/.)		(\$/.)
Foreman	na ci	0.500	0.00	0.00	24709.00	12350.00	შ.მმ	9.00
Concrete worker	æd	2.000	0.90	0.00	19000.00	38000.60	0.00	0.00
Skilled labor	£d	1.000	0.00	0.00	20900.00	20900.00	0.00	0.00
Operator	ed	2.000	0,00	6.00	25800.00	51200.00	0.00	0.00
Assist operator	sá	2,000	0.00	0.08	17900.00	35800.00	9.00	0.00
Common labor	æ đ	1.000	0.00	0.00	17300.00	17300.00	0.00	0.00
Subtotal (FC*1.0, LC*1.785)				0.00	(313356.75	•	0.00
Material cost								
Electrician	kwh	57.000	7.00	399.00	281.60	16017.00	3.03	456.00
Miscellaneous(3%)				11.97		480.51		13.58
Sabtotal	-			410.97		16497.51		469.68
Equipment cost							** .	
Locomotive,6t	þr	8.000	4625.00	37000.00	26600.00	212800.00	0.00	0.00
Concrete placer, 6m3	he	8.000	5461.00	43688.00	20199.CC	161592.00	0.00	0.00
Vibrator, 60mm	day	4.000	656.00	2624.00	1772.00	7088.00	9.00	0.00
Form vibrator, 0.2kw	day		184.00	736.00	497.00	1988.00	9.00	0.00
Vent fan, 100m3	day		259.00	259.00	879.00	879.60	0.00	0.00
Miscellaneous(5%)				4215.35		19217.35		0.00
Subtotal				88522.35		403594.35		0.00
Overhead(25%)				22233.33		183354.55		117.42
Total				111166.65		916773.26		\$87.10
Unit price			• .	1588.10		13095.75		8.39



Item No. Nork:Concrete lining,Espe-Poza Remarks:70m3/span,2000m,D/D Unit price:

Unit price:					_			_
Description	Unit	Quantity	Poreign	Currency	Local C	urreacy	. Duty &	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost				(Yen)		(S/.)		(S/.)
Foreman	æd	0.500	0.00	0.00	24700.00	12350.00	3.00	9.90
Concrete worker	nd	2,000	0.00	0.00	19000.00	38000.00	9,00	0.00
Skilled labor	pa	1.000	0.00	0,08	20900.00	20900.00	0.00	3.00
Operator	ed	2.000	0.00	3.00	25600.00	51200.00	3.60	0.00
Assist operator	ed	2.000	9.00	0.00	17900.00	35800.00	0.00	0.00
Common labor	æd	1.000	0.00	0.00	17300.00	17300.00	0.00	0.00
Subtotal(FC*1.9,LC*1.785)				0.00		313356.75		0.00
Naterial cost								
Electrician	kwh	57.000	7.00	399.00	281.00	16017.00	8.00	456.00
Miscellaneous(3%)				11.97		480.51		13.68
Subtotal			1.	410.97	•	16497.51		469.68
Equipment cost				2			i	
Locomotive,6t	hπ	8.000	4525.00	37000.00	26600.00	212800.00	0.00	0.00
Concrete placer, 6m3	hr	8.000	5461.00	43688.00	20199.00	161592.00	0.00	0.00
Vibrator,60mm	day	4.000	656.00	2624.00	1772.00	7088.00	0.00	0.00
Form vibrator, 0.2kw	day	4.000	184.00	736.00	497.00	1988.00	0.00	0.00
Vent fan 100m3	day	1.000	259.00	259.00	879.00	879.00	0.00	0.00
Miscellaneous(5%)	•			4215.35		19217.35		0.00
Subtotal				88522.35		403564.35		0.03
Overhead(25%)				22233.33		183354.65		117.42
Total				111166.65		916773.26		587.10
Unit price				1588.10		13036.76		8.39

Item No. Nork:Concrete lining,Poza-Mancha Remarks:50m3/span,1000m,D/D Unit price:

Unit price: Description	linit	Quantity	Foreign	Carrency	Local C	urrency	Cuty &	?ax
505011 5 0100	• • • • • • • • • • • • • • • • • • • •		Unit Cost		Unit Cost	Amount	Unit Cost	Amount
Labor cost				(Yen)		(\$/.)		(S/.)
Foreman	æd	0.500	9.00	0.00	24709.00	12350.00	0.00	0.00
Concrete worker	. ១៩	2.000	9.00	6.00	19000.00	38000.00	0.00	3.00
Skilled labor	æđ	1.000	9.00	0.00	20900.60	20900.00	3.00	0.00
Operator	nd	2.300	6.00	0.00	25600.00	51200.00	0.00	0.00
Assist operator	æd	2.000	0.00	0.00	17900.00	35800.00	8.90	0. 0 0
Common labor	ød	1.000	0.00	0.00	17300.00	17300.00	0.00	0.00
Subtotal(FC*1.0,LC*1.785)		•		0.03		313356.75	6 1 2 2	0.60
Katerial cost								
Electrician	kuh	35.000	7.00	245.00	281.00	9835.00	8.00	280.90
Miscellaneous(31)				7.35	-	295. 05		8.40
Subtotal				252.35		10130.05		288.40
Equipment cost								
locosotive,6t	hr	8.000	4625.00	37030.00	28600.00	212800.00	0,00	0.00
Concrete placer, 4.5m3	hìr	8.000	5413.00	13304.00	20022.90	169176.00	0.00	0.00
Vibrator,80mm	day	4.000	656.00	2624.00	1772.00	7088.00	0.00	0.00
Form vibrator, 0.2kx	day	4.000	184.00	736.00	497.00	1938.00	0.00	0.00
Vent fan,100m3	day	1.000	259.00	259.00	879.60	879.00	0.00	0.00
Hiscellaneous(5%)				4196.15		19146.55		0.00
Subtotal				88119.15		402077.55		0.00
Overhead(25%)				22092.83		181391.09		72.10
Totai				110464.38		906955.44		360.50
Unit price				2209.29		18139.11		7.21

Item No. Work:Steel support, intake shaft Remarks:Iton,N-2508250

** *			
lin i	t.	n i	ice:

Description	Unit	Quantity	Foreiga (Currency	Local Cu	rreacy	Duty 4	Tax
Labor cost including excavation cost		•	Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost								
H stee1,250#250	ton	1.000	68480.00	68480.00	48150.00	48150.00	0.00	0.00
Steel plate	pc	2.000	750.00	1500.00	1181.00	2362.00	0.00	0.30
Bolt,19*50	pc	14.000	30.00	420.00	47.00	658.00	0.09	0.00
Tie rod,16am*1.60m	20	14.000	200.00	2800.00	315.00	4410.00	0.00	0.00
Timber log,60mm*1.6m,16pc	a 3	0.072	1067.00	76.82	99600.00	7171.20	12900.00	864.00
Miscellaneous(3%)				2198.30	•	1882.54		25.92
Subtotal				75475.13		64633.74		889.92
Overhead(251)				18868.78		16158.43		232.48
Total				94343.91		80792.17		1112.40
Unit price				94343.91		80792.17		1112.49

Item No. Kork:Concrete lining, transportation only Remarks:70m3/span,2000m,0/0 Unit price:

Unit	Quantity	Poreign	Currency		urrency		Tax.
		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	imount
			(Yen)	-		•	(S/.)
be	2.000	0.00	0.00	25600.00		9.00	9.00
nd	2.000	0.00	0.00	17900.00	35800.00	0.00	0.00
			0.00		155295.00		0.00
					•	100	
kwh	0.000	7.00	0.00	281.00	0.00	8.00	Ç.CC
			0.00	*	0.00		0.00
			0.00	+ .	6.00		C.00
			* .				
àr	8.000	4625.00	37009.00	26600.00	212886.00	0.00	0.00
day	1.000	259.90	259.00	879.00	879.00	0.00	0.00
			1862.95		10683.35		0.00
			39121.95		224362.95		0.00
			9780.49		94914.49		0.00
			48902.44		474572.44		0.00
			698.51		6779.61		0.00
	ad ad kvä hr	nd 2.000 kwh 0.000 hr 8.000	unit Cost ad 2.000 0.00 ad 2.000 0.00 kwh 0.000 7.60 hr 8.000 4625.00	Unit Cost	Unit Cost	Unit Cost	Unit Cost



Item No.
Nork:Steel support for shaft
Remarks:Iton,installation work
Unit price:

Unit price:				_				_
Description	Unit	Quantity	Foreign (Currency	Local Ci	irrency	Duty &	Tax
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Foreman	ed	0.050	0.00	0.00	20600.00	1030.00	0.00	0.00
Operator	be .	0.200	0.00	0.00	25600.00	5120.00	0.00	0.00
Rigger	md	1.200	0.00	0.00	19000.00	22800.00	0.00	0. 00
Steel worker	æd	9.400	0.60	0.00	19000.00	7600.60	0.00	0.00
Common labor	ad	0.400	0.00	0.00	17300.00	6920.00	0.00	0.00
Subtotal				0.00		43470.00		0.00
Material cost	•							
Light oil	lit	30.000	4.00	120.00	353.00	10599.00	1.00	30.00
Lubricant	lit	1.400	44.00	61.60	4150.00	5810.00	500.00	700.00
Grease	kg	0.300	58. CO	17.40	5395.00	1618.50	650.00	195.00
Miscellaneous(3%)				5.97		540.58		27.75
Subtotal				204.97		18559.06		952.75
Equipment cost	•							
Truck crane,30t	hr	2.000	5705.00	11410.00	22654.00	45308.00	0.00	0.00
Miscellaneous(5%)				570.50		2265.40		0.00
Subtotal				11980.50		47573.40		0.00
Overhead(25%)				3046.37		27400.61		238.19
Total				15231.84		137003.07		1190.94

S TUNNEL WORK (2)

kork	Vnit	** FC **	LC (\$/.)	<pre>Duty,Tax (\$/.)</pre>	** LC ** (S/.)	Total (S/.)	Total (US\$)
Steel support,penstock,H-125	ton	122355.30	135949.04	2465.43	138414.47	2891408.72	1285.07
Rock bolt in tunnel	II.	2026.24	16155.42	41.19	16196.61	61787.01	27.46
Kire mesh,3.2*100*100	n2	396.76	1928.92	131.26	2060.18	10987.28	4.88
Shotcrete(including 30% loss)	n3	14958.35	107789.34	17889.60	125678.94	463241.82	205.44
**Package 18*							
Shotcrete(including 30% loss)	n 3	15404.77	112086.88	19323.12	131410.00	478017.33	212.45

Item 90. Work:Steel support, penstock tunnel Remarks:Iton,8-125*125 ij, L

Hait enion								
Unit price: Description	llai i.	Quantity	foreign (Currency	Local Cu	rreacy	Duty 1	Tax
Jedel Iputen		(Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount (S/.)
Labor cost				(Yen)		(\$/.)·		(3/+)
including excavation cost		-	•	•				
Material cost					. :			
¶ steel.125*125	ton	9.188	68480.00	12874.24	48150.00	9052.20	0.00	0.00
Steel plate, top	pe	2.000	750.00	1500.00	1181.00	2362.30	9.00	
Steel plate, bottom	pc	2.000	1060.00	2000.00	1575.00	3150.00	9.00	3.00
Bolt, 19*50	рс	2.000	30.00	60.00	47.00	94.00	0.00	0.00
Tie rod,18am*1.80m	pe	7,000	200.00	1400.00	315.60	2205.00	0.00	0.00
Timber log,60mm*1.2m,Spc	a3	0.030	1067.00	32.01	93500.00	2988.00	12000.00	360.00
Miscellaneous(3%)				535.99		595.54		10.80
Subtotal				18402.24		20446.74		370.80
Overhead(25%)				4600.56		5111.68		92.70
				23002.80		25558.42		463.50
Total Unit price				122355.30		135943.04		2465.43

Item No.
Nork:Rock bolt in tunnel
Remarks:25mm,2.50m*10=25

Vait price:								_
Description Un	it Q	uantity.		Currency	Local C	urreneş	Daty 3	
			Vait Cest	Anount	Unit Cost	Amount	Unit Cost	Amount
Labor cost				(Yen)		(S/.)		(\$/.)
Foreran	nd	9.256	0.00	0.00	24700.0C	6323,20	0.00	0.00
Oriller	ed .	1.280	0.00	0.00	20200.00	25356.00	0.00	0.00
Common labor	۵Ċ	2.560	0.00	0.00	17300.00	44288.00	0.00	0.60
Skilled labor	าด้	2.560	0.00	0.00	20900.00	53564.00	9.00	0.00
Subtotal(*1.785)				0.00		231998.59		0.00
Material cost								
Bit,36mm	10	0.250	7383.00	1845.75	8306.00	3976.50	0.00	0.00
Rod,22ma	10	0.167	9737.00	1626.08	10954.66	1829.32	0.00	C.00
	le i	10.000	621.00	6210.00	599.00	6920.00	0.00	0.00
- · · · · · · · · · · · · · · · · · · ·	10	10.000	1830.00	18369.90	2059.00	20590.00	0.00	0.00
	g	60.960	64.90	3901.44	72.00	4383.12	0.00	0.90
	h	99.984	7 00	69.89	281.00	28095.59	8.00	799.87
Miscellaneous(3%)				977.49		1919.11		24.00
Subtotal				33560.65		65889.56		823.87
Equipment cost								
	ay:	0.640	1660.00	1962.40	3426.00	2192.64	0.00	0.00
	ay -	0.610	7408.00	4741.12	29413.69	18824.32	0.00	0.90
Miscellaneous (20%)	•			1160.70		4203.39		0.00
Subtotal				6964,22		25220.35		0.00
Overhead(25%)				10131.32		80777.12		205.97
Total				50656.09		403885.62	•	1029.84
Unit price				2028.24		16155.42		41,19

Item No.
Kork: Wire mesh for shotcrete
Remarks: 180m2, 6m*30m, 3.2mm*100*100
Unit price:

ourt brice:			•					
Description	Unit	Quantity	Poreign	Currency	Local C	urrency	Duty &	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost				(Yen)		(\$/.)		(S/.)
Foregan	®å	0.100	0.00	0.00	24700. G 0	2470.00	0.00	0.00
Concrete worker	nd	1.500	0.00	0.00	19000.00	28500.00	0.00	
Skilled labor	nd	1.500	0.00	0.00	20900.00	31350.00	0.00	0.00
Driller	· ad	2.076	0.00	0.00	20200.00	41935.20	0.00	0.00
Subtotal		1.		0.00		104355.20	1. 1.	0.00
Material						100		
Wire mesh, 3.2mm, 100*100	n 2	180.000	166.00	29880.00	187.00	33660.00	0.00	0.00
Deformed bar, 13mm	ton	0.161	24558.00	3953.52	323000.00	52003.00	85000.00	13685.00
Taper rod	No	0.810	8731.00	7072.11	9822.00	7955.82	0.00	0.00
Cross bit,36mm	No	1.080	7383.00	7973.64	8306.00	8970.48	0.00	0.00
Mortar***	4 3	0.203	6615.59	1342.96	119677.20	24234.47	22855.62	4599.09
Light oil	lit	67.500	4.00	270.60	353.00	23827.53	1.00	67.50
Miscellaneous(3%)				1514.77		4521.34		550.55
Subtotal	-			52007.00		155232.61		18902.14
Equipment cost		•						
Leg hammer.	day	1.038	1000.00	1038.00	2063.00	2141.39	0.00	
Air compressor	day	0.519	7408.00	3844.75	29413.00	15265.35	0.00	0.00
Miscellaneous(5%)				244.14		870.34		0.00
Subtotal				5126.89		18277.08		0.00
Overhead(25%)				14283.47		69441.22		4725.53
Total				71417.36		347206.11		23627.67
Unit price				396.76		1928.92		131.26

item no.
Work:Shotcrete
Remarks:1m3,
Unit price:

Unit price:								
Description	Unit	Quantity	foreign	Currency	ioca! (urrency	Duty &	Tax
		**********	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Agount
A.Material(1m3)			*****	(Yen)		(S/.)		(S/.)
Cement	ton	0.350	4969.00	1739.15	65360.00	22876.00	17200.00	6020.00
Aggregate, coarse, 15mm***	ton		803.00	602.25	7745.00	5808.75	2582.00	1936.50
Aggregate, fine***	ton			892.64	7688.00	8610.56	2563.00	2870.56
Agent	kg		214.00	2996.00	241.00	3374.00	0.00	0.00
Subtotal				6230.04		40669.31		10827.06
Overhead(25%)				1557.51		10167.33		2706.77
Total				7787.55		50836.64		13533.83
10031					•	***************************************		2000000
B.Mixing(dry)								
Mixing				475.03		4328.29		16.02
Carrying				231.86		2389.08		25.46
Transp in tunnel				907.07		9367.40		22.39
Total				1613.96		16084.77		63.87
C.Spraying								
10cm,100m3/day								
Labor cost								
Foreman	ad	1.000	0.00	0.00	24700.00	24700.00	0.00	0.00
Operator	ad		0.00	0.00	25600.00	51200.00	0.00	0.00
Assist operator	a d		0.00	0.00	17900.00	35800.00	0.00	0.00
Common labor	and		0.00	0.60	17300.60	34600.00	0.00	0.00
Skilled labor	ned.		0.00	0.60	20900.00	41800.00	0.00	0.00
Common labor	n d		0.00	0.00	17300.00	89200.00	0.00	0.00
Subtotal(*1.785)	184	1.000	4100		11000700	459280.50	0.00	0.00
Kateriai cost						100200100		*****
Electric	kwh	2250.045	7.00	15750.32	281.03	632262.65	8.00	18000.36
Miscellaneous(31)	n. n	DDCCTC	.,,,	472.51	. 001100	18967.88	3.55	540.01
Subtotal				16222.82		651230.52		18540.37
Equipment cost				10000100		001000.03		10010101
Spray machine, 6m3/hr	hr	16.667	4977.00	82951.66	20392.00	339873.46	0.00	0.00
Pan, 30km	day		3784.00	3784.00	12863.00	12863.00	0.00	0.00
Dust collector,30kw	. hr		6728.00	112135.58	23220.00	387007.74	0.00	0.00
Loconotive 8t	hr	4.167	4625.00	19272.33	26600.00	110842.20	0.00	0.00
Air compressor,75kw	hr	16.667	707.00	11783.57	2613.00	43550.87	0.00	9.80
Miscellaneous(5%)	131	101001	101700	11496.36	0010140	44706.86	3.00	0.00
Subtotal				241423.54		938844.14	·	0.00
Overhead(25%)				64411.59		512338.79		4635.09
Total				322057.95		2561693.95		23175.46
Unit price(1@3)				3220.58		25616.94		231.75
Unit price(combine),A+B+C				12622.09		92538.35		13829.45
Loss of material,30%				2336.27		15259.99		4060.15
Unit price including loss				14958.35		107789.34		17889.60

Work:Shotcrete								V 3
	•							
Remarks: 1m3,					•			
Unit price:	. 15_3.4	Augustin.	Panaida	Cummanar	Local C	arrobas	Duty A	Tax
Description	JIII	Quantity	-	Currency	Unit Cost	Amount	Unit Cost	Amount
			Unit Cost		unic cost		Oute cose	(3/.)
A.Kateriai(1m3)				(Yen)	01000 3D	(\$/.)	15000 00	6020.00
Cement	ton		4969.00		65360.00	22878.00	17200.00	
 Aggregate, coarse, 15mm*** 	ton				9745.00	7308.75		2436.75
Aggregate,fine***	ton	1.120	903.00		8710.00	9755.20	2904.00	3252.48
Agent	kg	14.000	214.00	2996.00	241.00	3374.00	0.00	0.00
Subtotal				6504.76		43313.95		11709.23
Overhead(25%)				1626.19		10828.49		2927.31
Total				8130.95		54142.44		14636.54
8.Mixing(dry)						÷	• •	
Mixing			•	475.03		4328.29	•	16.02
Carrying				231.86		2389.08		25.46
				907.07		9367.40		22.39
Transp in tunnel				1613.96		16084.77	•	63.87
Total				1010.00			•	
C.Spraying 10cm,100m3/day						•		
Labor cost								
Foreman	яđ	1.000	0.00	0.00	24700.00	24700.00	0.00	0.00
Operator	ad		0.00		25600.00	51200.00	0.00	0.00
Assist operator	æd		0.00		17900.00	35800.00	0.00	0.00
Common labor	ed Da		0.00		17300.60	34600.00	0.00	0.00
Skilled labor	rd Cd		0.00		20900.00	41800.00	0.00	0.00
	ed ba		0.00		17300.00	59200.00	0.00	0.00
Common labor	B/G	4.000	0.00	0.00	11300.00	459280.50	3.00	0.00
Subtotal(*1.785)				-		433200.33		0.00
Material cost		5050 015	~ ^ ^	10010 80	001 00	20.00000		18000.36
Electric	ken	2250.045	7.00		281.00	632362.65	8.00	
Hiscellaneous(3%)				472.51		18967.88		549.01
Subtotal				16223.82		651230.52		18540.37
Equipment cost								
Spray machine,6m3/hr	hr	16.667	4977.00		20392.00	339873.46	9.00	0.00
Fan,30kw	day	1.000	3784.00	3784.00	12863.00	12863.00	0.00	
Dust collector 30kw	hr	16.667	6728.00	112135.58	23223.00	387007.74	0.00	0.00
Locomotive,6t	br	4.167	4625.00	19272.38	26600.00	110842.20	0.00	0.00
Air compressor,75kv	hr			11783.57	2613.00	43550.87	0.00	0.00
Hiscellaneous(5%)			2.3	11438.36		44706.86		0.00
Subtotal				241423.54		938844.14		0.00
Overhead(25%)			1	64411.59		512338.79		4635.09
Total				322057.95		2561693.95		23175.46
Unit price(103)				3220.58		25816.34		231.75
Unit price(combine),A+B+C		÷	1	12965.49		95844.15		14932.16
Loss of material,30%				2439.29		16242.73		4390.96
Unit price including loss				15404.77		112086.88		19323.12
oute bites incideing tops				TOJA1.11		115000.00	-	10030.10

Ites No.

T BUILDING WORK (1)

Item No.
Nork:Unit price for plumbing, electric.etc.
Remarks:
Noit Price:

Unit Price:		•						
Description	Unit (<i>vantity</i>	Poreign Cur Unit Cost	rency Amount (US\$)	Local Unit Cost	Currency Amount (S/.)	Outy & Unit Cost	Tax Amount
Pressed steel section t 12m3,raw water FC:4,270 US\$ Overhead 25% Install 30%	ank no.			5337.50	•	2602813.00		
Pressed steel section t 4m3,treated water FC:2,330 US\$ Overhead 25%	ank no.			2912.50		1965938.00	1	
Install 30% Centrifugal pump FC:2,350 US\$ Overhead 25%	no.			2937.50		660938.00	ı	
Install 10% Air compressor pump FC:730 US\$ Overhead 25% Install 10%	RO.			912.50		205313.00		
Water filter plant FC:4,785 US\$ Overhead 25% Install 20%	no.			5981.25		2691563.00		
Chlorinator PC:1,610 US\$ Overhead 25% Install 10%	no.			2012.50		452813.00		
Electric panel FC:245 US\$ Overhead 25% Install 10%	no.			306.25		68906.00		
Pressure vessel FC:880 US\$ Overhead 25% Install 10%	ñO.			1100.00		247500.00		
Préssure gauge FC:100 US\$ Gverhead 25% Install 10%	BO.		÷.	125.00		28125.00		

Item No.	.1						
Work: Unit price for plumbing.	electric,etc.				4		100
Remarks:				•			
Unit Price:				, ,	•	S 4. 4	·
Description	Unit Quantity	Foreign Cur			Currency	Duty 4	
· ·		Unit Cost	lacent	Unit Cost		Vait Cost	Amount
			(US \$)		(\$/.)		
							1
Auto air release	no.		62.50		14063.00		
FC:50 US\$							
Overhead 25%							
Install 10%							
						1 1	
	•				•		
Item No.						A	
Work:Unit price for plumbing	electric,etc.						
Remarks:		•					
Unit Price:							
Description	Unit Quantity	Foreign Cur	rency	Local	Currency	Duty &	Tax
•	·	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
			(Yen)		(S/.)		
			` '			•	
Bronze gate valve	no.		3879.00		8728.00		
FC:2,900 Yen							
Freiht, Overhead 25%							
x 1.07 x 1.25 x FC							
Install 10%							
1110 000 1 1000							
Plexible joint							
65mm,1,350 Yen	no.		1806.00		8123.00		
50mm,705 Yen	no.		943.00		4244.00		
40mm,465 Yen	no.		622.00		2799.00		
32mm,365 Yea	no.		488.00		2196.00		
FC 1.07x1.25			•				
Install 10%						•	•
Check valve,32mm	no.		4802.00		10805.00		
FC:3590 Yen					•		
Install 10%							
					•	•	
Electric heater,7 lit,1.5km	no.		107000.00		240750.00	.	
FC:80,000Yen							
Install 10%							
							•
Septic tank	BO.		307625.00		1384312.00		
FC:230,000Yen				7			
Install 20%						2	
						•	
							•
Fire hydrant pump	Rů.		802500.00		3611250.00		
FC:600,000Ven							•
Install 20%						. •	

Work:Unit price for plumbing, electric, etc. Remarks: Unit Price: Foreign Currency Duty & Tax Unit Quantity Local Currency Description Unit Cost Unit Cost Unit Cost Amount Amount Amount (US\$) (S/.)Item No. work: Unit price for plumbing, electric, etc. Remarks: Unit Price: Description Unit Quantity Foreign Currency Local Currency Duty & Tax Unit Cost Unit Cost Amount Amount Unit Cost Amount (Yen) (S/.) 160.00 720.00 CV cable, 2c x 5.5mm2 7C:120Yen 1.07x1.25 Install 20% CV cable,4c x 3.5mm2 207.00 932.00 FC 155Yea 1.07x1.25 Install 20% CV cable,4c x 5.5mm2 268.00 1206.00 FC:200Yea 1.07x1.25Install 20% Conduit pipe,22mm 270.00 6075.00 FC:202Yen 1.07x1.25 Install 100% Conduit pipe,28mm 373.00 8393.00 FC:279Yen 1.07x1.25 Install 100% Copper rod, 19aa, 2.4a 7222.00 32499.00 FC:5,400Yen

Itea No.

1.07x1.25 Install 20%

Item	No.Pumpi	ng Sta	tion	
hork:	Unit pri	ce for	aiг	condioning
	and vent	ilatio	n wor	rks
Α	1			

Remarks	:

Remarks:						•	2
Unit Price: Description	Unit	Quantity	ency Amount (US\$)	Local Unit Cost	Currency Amount (S/.)	Daty & Unit Cost	Tax Amount
Air conditioner,45,600keal US\$ 5,986 OH 25% LC.transp and install,5%	set		7482.50		841781.00		
Air conditioner,19,700kcal US\$ 2,545 OH 25% LC,transp and install,5%	set		3181.25		357891.00		
Fan, 38,000,50 Aq,11k% US\$ 2,006 OB 25% LC,transp and install,5%	set		2507.50		282094.00		
Fan,exhast,1020 US\$ 687 OH 25% LC,transp and install,5%	set		858.75		98609.00		
Fan,exhast US\$ 504 OH 25% LC,transp and install,5%	set		630.00		70875.00		
Fan,exhast US\$ 435 OH 25% LC,transp and install,5%	set		543.75	•	61172.00		e e e e e e e e e e e e e e e e e e e
Ventilating resisters,500CHR US\$ 42 OH 25% LC,transp and install,5%	set		52.50	ļ	5906.00		
Ventilating resisters.430CKH US\$ 34 OH 25% LC,transp and install,5%	set		42.50	1	4781.00		
Ventilating resisters.1790CMH US\$ 108 OH 25% LC,transp and install,5%	i set		135.00		15188.00		
Ventilating resisters,1530CXH US\$ 93	set		116.25		13978.00)	

Item No. Pumping Station
Work: Unit price for air conditioning
and ventilation works

Remarks: Unit Price:

Unit Price:						
Description	Unit Quantity	Foreign Cur Unit Cost	rency Amount (US\$)	Local Unit Cost	Currency Amount (S/.)	Duty & Tax Unit Cost Amount
US\$ 93 OH 25% LC,transp and install,5%						
Ventilating resisters,2200CHH US\$ 114 OH 25% LC,transp and install,5%	set		142.50		16031.00	
Ventilating resisters,1890CHR US\$ 114 OH 25% LC,transp and install,5%	set		142.50		16031.00	
Ventilating resisters,1540CHH US\$ 95 OH 25\$ LC,transp and install,5%	set		118.75		13359.60	
Ventilating resisters, 1840CMH US\$ 114 OH 25% LC,transp and install,5%	set		142.50		16031.00	
Ventilating resisters,300CMH US\$ 25 CH 25% LC.transp and install,5%	set		31.25		3516.00	
Return gullees,950 US\$ 62 CH 25% LC,transp and install,5%	set		77.50	٠	8719.00	
Return gullees,900 US\$ 59 OH 25% LC,transp and install,5%	set		73.75		8297.00	
Return gullees.750 US\$ 36 OH 25% LC.transp and install,5%	set		45.00		5063.00	

					•
Item No.Pumping Station Work:Unit price for air cond and ventilation works	ioning				
Remarks:					
Unit Price:		0	1	C.,,,,,,,,,,,	Duty & Tax
Description	Unit Quantity	Foreign Currency Unit Cost Amoun (US\$)	t Unit Cost	Currency Amount (S/.)	Unit Cost Amount
US\$ 39 OR 25%					
LC, transp and install,5%					
Diffusers,780 US\$ 69 CH 25%	set	86	.25	9703.00	
LC, transp and install,5%			•	•	
Diffusers,1020 US\$ 69 OH 25%	set	86	.25	9703.00	
LC, transp and install,5%					•
Diffusers,1100 US\$ 69	set	86	. 25	9703.00	
CH 25% LC,transp and install,5%					
Diffusers,630 US\$ 69 OH 25% LC,transp and install,5%	set	86	1.25	9703.00	
Diffusers,580 US\$ 69	set	86	.25	9703.00	
OH 25% LC.transp and install,5%				٠.	
Volume damper,850 x 200 US\$ 33 OH 25%	set	41	.25	4641.00	
LC, transp and install,5%				•	·
Volume damper,200 x 150 US\$ 25	set	31	. 25	3516.00	
OH 25% LC,transp and install,5%					
Fire damper,1100 x 350 US\$ 95 08 25%	set	118	3.75	13359.00	
[C tennon and install 51					

LC, transp and install,5%

Item No.Pumping Station
Nork:Unit price for air condioning
and ventilation works

Remarks: Unit Price:

Unit Price: Description	Unit Quantity	Foreign Currency Unit Cost Assount (US\$)	Local Currency Unit Cost · Amount (S/.)	Duty & Tax Unit Cost Amount
US\$ 65 OH 25% LC,transp and install,5%		(50\$)		
Louvers, 37,750 US\$ 1,560 OH 25% LC, transp and install,5%	set	1950.00	219375.00	
Louvers,300 US\$ 200 OR 25% LC.transp and install,5%	set	250.00	28125.00	
Louvers,650 US\$ 212 OH 25% LC,transp and install,5%	set	265.00	29813.00	
Zinc plate steel,gage 22/24 (ventilation) S/.5200 GH 25%	kg	0.00	6500.00	
Zinc plate steel,gage 22/24 (air conditioning) S/.5800 OH 25%	kg	0.00	7250.00	
Refigerant pipe.19mm US\$ 6.5 GH 25% LC,transp and install,5%	9	8.13	915.00	
Refigerant pipe,16mm US\$ 7.8 OH 25% LC, transp and install,5%	q	9.75	1097.00	

itea No. Conguillo Nork:Unit price for ventilat Remarks:	ion work			
Unit Price: Description	Unit Quantity	Foreign Currency Unit Cost Amount (US\$)	Local Currency Unit Cost Amount (S/.).	Duty & Tax Unit Cost Amount
Hulti fan,20160 CKH US\$ 1,700 CH 25% LC,transp and install,5%	set	2125.00	239063.00	
Intake lower, 1800 x 1500 US\$ 812 OR 25% LC, transp and install, 5%	set	1015.00	114188.00	
Ventilating resisters, 400 x 200 US\$ 34 OH 25% LC,transp and install,5%	set	42.50	4781.60	
Ventilating resisters, 200 x 150 US\$ 20 OH 251 LC,transp and install.51	set	25.00	2813.60	
Zinc piate steel,gage 22/24 (ventilation) S/.5200 OH 25%	\$g	0.60	6500 .0 0	
Item No. Poza Honda Work:Unit price for ventilat Remarks: Unit Price:	ioa work			
Description	Unit Quantity	Foreign Currency Unit Cost Amount (US\$)	Local Currency Unit Cost Awount (S/.)	Duty & Tax Unit Cost Amount
Multi fan,15480CMH US\$ 1,500 OH 25% LC,transp and install,5%	set	1875.00	210938.00	
Intake lower,1200 x 1500 US\$ 650 OH 25% EC,transp and install,5%	set	812.50	91406.00	

Item No. Poza Honda Work:Unit price for ventilation work Remarks:

Unit Price: Description	Unit Quantity	Foreign Currency Unit Cost Amount (US\$)	Local Currency Unit Cost Acount (S/.)	Buty & Tax Unit Cost Amount
Multi fan,15480CMH US\$ 1,500 OH 25% LC,transp and install,5%	set	1875.00	219938.00	
Intake louver,1200 x 1500 US\$ 650 OH 25% LC,transp and install,5%	set	312.50	91406.00	
Ventilating resisters, 400 x 200 US\$ 34 OH 251 LC,transp and install,51	set	42.50	4781.00	
Ventilating resisters, 800 x 150 US\$ 20 OH 25% LC,transp and install,5%	set	25.00	2813.00	
Ventilating resisters, 200 x 150 US\$ 20 09 25% LC,transp and install,5%	se t	25.00	2813.00	
Zinc plate steel,gage 22/24 (ventilation) S/.5200 OB 25%	kg	6.00	6509.00	

Item No. Work:Unit price for building Remarks:	Korss					
Unit Price: Description		Foreign Currency Unit Cost Amoun (Yen)	t Unit Cost	Currency Amount (S/.)	Duty & Unit Cost	Tax Amount
Polysulfied caulking,20mm 843 Yen/m Others 10% Local 10%	£	927	.00	1897.00		
Polysulfied caulking,10x7mm 193 Yen/a Others 10% Local 10%		212	.00	434.60		
Parapet ring 8200 Yes/no 93% FC,10% LC	50	7380	.00	18450.00		
Stainless steel nosing to stair 3063 Yen/m 10% LC	.	3063	.00	6892.00		
Sheet wire glass, 6.8mm 3070 Yen/#2 CIF 1.07% Overhead 25% Local 10%	52	4106	.00	9238.00		

:	Item No. Work:Unit price for others Remarks: Unit Price: Description	Unit Quantity	Amount	Local Unil Cost		Duty & Tax Unit Cost
			(Yen)		(\$/.)	
	Guardrail,3.2mm,350mm,4330m 5500 Yen CIF 1.07% Overhead 25% LC 20%	0	7356.00		33103.00	
	Warning sign 9000 Yen CIF 1.07% Overhead 25% LC 20%	no	12038.00		54169.00	
	Bearing pad 19620 Yen CIF 1.07% Overhead 25% LC 10%	no	26242.00		59044.00	
	Steel grating 270 Yen/kg CiF 1.07% Overhead 25% LC 10%	kg	361.13		813.00	
	Checkered plate, drain ditch 78 Yem/kg CIF & manufacture Overhead 25% EC 10%	kg	97.50		219.00	
	3-ply asphalt roof 4000 Yen/m2	a 2	2000.00		45000.00	

Amount

FC, LC 50% 2-ply asphalt roof **s**2 3000.00 67500.00 6000 Yen/m2 FC.LC 50% Clear wire glass **s**2 4012.50 9028.00 3000 Yen/m2 CIF 1.07% Overhead 25% LC 10% Steel pipe embedded,125mm 1345 Ven/m 1799.00 8035.00 CIF 1.07% Overhead 25% LC 20%

Item No.						
Work:Unit price for others						* = _
Remarks:						
Unit Price:						
Description	Unit Quantity	Foreign Currency Unit Cost Amount (Yen)	Local Unit Cost	Currency Amount (S/.)	Duty & Unit Cost	Tax Amount
				152050 00		1.11.
Grating steel hatch 50860 Yen/no CIF 1.07% Overhead 25% LC 10%	กง	68025.00		153056.00		
Cast iron pipe,75mm 790 Yen/m CIF 1.97%	an and an and an	1057.00		4766.00		
Overhead 25% LC 20%			4		·	
Elevator	R O	3375000.00		8437500.00	٠	
3000000 Ven FC,LC 90%,10% Overhead 25%				· .	:	
Galvanizes piçe CIF 1.07% Gverhead 25% LC install 20%						
80 am	ā	1786.00		8037.00		
85 mm	a	1491.00		6710.00		
50 առա	1	1038.00		4671.00		
40 am	5	758.00		3411.00		
32 mm	5	659.00		2965.00		
25 mm	g	496.00		2232.00	•	`.
20 an	9	354.00		1593. 0 0		
Bronze galva valves						• ,
CIF 1.07% Overhead 25% LC install 10%				*		
ac install 105			-			:
65 an	no	19795.00		44539.00		
50 an	no	7517.00		16913.00		
40 am	ลอ	5109.00		11495.00		* ,
25 անա	no	2301.00		5177.00		
20 aa	no	1685.00		3791.00	:	

Item No. Kork:Unit price for others Remarks: Unit Price: Description	Unit Quantity	Poreign Currency Unit Cost Amount (Yen)	Local Currency Unit Cost Amount (S/.)	Duty & Tax Unit Cost Am
Lead pipe CIF 1.07% Overhead 25% LC install 20%				
75 as 65 as 30 as	Th Di Th	1665.1 1465.1 702.1	00 6593.0	0
Cast iron pipe,50mm	9	904.	00 4068.0	3
Check valve CIF 1.07% Overhead 25% LC install 20%				
65 mm	no	19527.1		
40 co 25 co	no no	5845. 2769.		
Electric heater 160,000 Yea CIP 1.07% Overhead 25% LC install 10%	no	214000.	00 481500.00	
Septic tank 230,000 Yen CIF 1.07% Overhead 25% LC install 20%	no	307625.	GO 1384312.00	
Portable fire extinguisher 10,000 Yen CIF 1.07% Overhead 25% LC install 10%	no	13375.0	30094.00	
Fire hydrant box 35,000 Yen CIF 1.07% Overhead 25% LC install 10%	no	46813.0	00 105329.00	
Plow meter 49,000 yen CIF 1.07% Overhead 25% LC install 10%	no	65538.0	00 147461.00	

Amount

Item No.		*		
Kork:Unit price for other	rs			
Remarks:				* *.
Unit Price:	•			.
Description	Unit Quantity	Poreign Currency Local Unit Cost Amount Unit Cost (Yen)	Currency Amount (S/.)	Duty & Tax Unit Cost Amount
Gate valve,65mm 14,800 Ven CIF 1.07% Overhead 25% LC install 10%	no .	19795.00	44539.00	
Check valve 14,600 Yen CIF 1.07% Overhead 25% LC install 10%	NO	19527.00	43936.00	
Test valve 4,400 Yen CIF 1.07% Overhead 25% LC install 10%	no	5885.00	13241.00	: •• :
Galv.steel pipe CIF 1.07% Overhead 25% LC install 20%				
65mm, 1,115 Yen 50mm, 776 Yen 40mm, 567 Yen	î L S	1491.00 1038.00 758.00	6701.00 4671.00 3411.00	
Roof drain 6,500 Yen/no. FC 80% LC 20%	Ся	5200.00	29250.00	
Checkered steel plate 13,560 Yen CIF 1.07% Overhead 25% LC install 10%	a2	18137.00	40808.00	

Item No.		
Work:Unit price	for	others
Remarks:		
Unit Price:		

Remarks.		•		
Unit Price: Description	Unit Quantity	Foreign Currency Unit Cost Amount (Yen)	Local Currency Unit Cost Amount (S/.)	Duty & Tax Unit Cost Amount
Lighting fixtures CIF 1.07% Overhead 25% LC install 10%				
Type A1,30,000 Yen	no	40125.00	90281.00	
Type A2,20,000 Yen	RO	26750. 00		
Type 81,25,000 Yen	no	33438.00	75235.00	
Type 82,20,000 Yen	no	26750.00	60188.00	
Type C ,10,000 Yen	no	13375.00	30094.00	
Type D1,25,000 Yen	no	33438.00	75236.00	
Type C2,20,000 Yen	no	26750.00	601 8 3.00	
Type £ .10,000 Yen	80.	13375.00	30094.00	
Type F .15,000 Yen	00	20063.00	45142.00	
Type G .35,000 Yen	no ·	46813.00	105329.00	
Type H ,200,000 Yen	no	267 500.00	€01875.00	
Safety switch 1,500 Yen CIF 1.07% Overhead 25% LC install 20%	no .	2006.00	9027.00	
Conduit pipe CIF 1.07% Overhead 25% LC install 100%				
16mm, 160 Yen	n.	214.00	4815.00	
22mm, 202 Yen	Б	270.00		
42mm, 410 Yen	n.	548.00		
54mm, 593 Yen	1	793.00		•
CV cable CIF 1.07% Overhead 25% LC install 20%				
2C x 8mm2 ,148 Yen	Œ.	198.00	891.00	
2C x 22mm2,313 Yen	11 A	419.00		
2C x 38mm2,487 Yen	0	651.00		
4C x 22mm2,578 Yen	6	773.00		
PABX 3,000,000 Yen CIF 1.07% Overhead 25% LC install 10%	set	4012500.00	9028125.00	

Item No. kork:Unit price for others						
Remarks:		· ·				
Unit Price: Description	Unit Quantity	Poreign C Unit Cost	urrency Amount (Yen)	Local Unit Cost	Currency Amount (S/.)	Duty & Tax Unit Cost A
Battery charger 200,000 Yen CIF 1.07% Overhead 25% LC install 10%	set		267500.00		601875.00	
Telephone set 9,200 Yen CIF 1.07% Overhead 25% LC install 10%	set		12305.00		55373.00	
Telephone wire CIF 1.07% Overhead 25% LC install 20%						
Indoor,141 Yen Gutdoor,200 Yen	56 Ch		189.00 268.00		851.00 1206.00	
Earthing conductor CIF 1.07% Overhead 25% LC install 20%						
100am2,400 Yen 38mm2,146 Yen 50mm2,223 Yen	10 19 18		535.00 195.00 298.00	1	2408.00 878.00 1341.00	
Copper plate 14,150 Yen/no CIF 1.074 Overhead 25% LC install 20%	NO		18926.00		85167.00	
Copper rod 2,070 Yen CIF 1.07% Overhead 25% LC install 20%	BO		2769.00)	12461.00	
Clamp for copper plate/rod 550 Yen CIF 1.07% Overhead 25% LC install 20%	no		736.00		3312.00	

Amount

Item No.

kork:Unit price for others
Remarks:

Unit Price:

Duty & Tax Description Unit Quantity Foreign Currency Local Currency Unit Cost Amount Unit Cost Amount Unit Cost Amount (Yen) (\$/.) PVC pipe,25mm 185.00 833.00 138 Yen CIF 1.07% Overhead 25% LC install 20% 2274.00 5116.00 PVC perforated pipe, open channel, 100mm 1,700 Yen CIF 1.07%

540.00

1350.00

Overhead 25%
LC install 10%

Trashrack kg
600,000 Yen/ton
FC 90%
LC 10%

U BUILDING WORK (2)

PROJECT: ITEM N°: wall of 150 ram thick, hollow con SPECIFICATIONS: Hollow concrete block i	ocrete block/mortar. 1:5 masonry, 150 mm. W/	s mortar 1:15	DATE: 20-x Unit: m² ITEM: /18a	
A. MATERIALS DESCRIPTION Hollow block, 150 mm Mortar, 1:5 Gravel	UNIT U M3 M3 Total of materials	QUANTITY 12.50 0.02 0.08	UNIT PRICE 773.55 122594.57 14343.00 A:	SUBTOTAL 9669.38 2451.89 1147.44 13268.71
B. MACHINERY AND TOOLS DESCRIPTION Minor tools Scatfold	EQUIPMENT-I	1.34 1.34	PER HOUR 120.00 250.00 B:	SUBTOTAL 160.80 335.00 495.80
C. LABOR DESCRIPTION Mason Common laborer	CATEGORY III I Total of labor	MAN-HOURS 1.28 1.28	COST/HOUR 525.00 425.00 C:	SUBTOTAL 672.00 544.00 1216.00
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS:				14980.51 3745.13 18725.63

PROJECT: ITEM N°: wall of 100 mm thick, hollow of SPECIFICATIONS: Hollow concrete block.	concrete block/mortar. 1:5 k masonry, 100 mm. W/	s mortar 1:15	DATE: 20-x- Unit: m³ ITEM: /18b	94
A. MATERIALS				
DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	SUBTOTAL
Hollow block, 100 mm	บ	12.50	618.30 -	and the second s
Mortar, 1:5	M3	0.02	122594.57	2451.89
Gravel	M3	0.08	14343.00	1147.44
	Total of materials		A :	11328.08
				£
B. MACHINERY AND TOOLS			A	22.3000 to
DESCRIPTION	EQUIPMENT-I	HOURS COST P		SUBTOTAL
Minor tools	-	1.34	120.00	160.80
Scaffold		1.34	250.00	335.00
• •	Total of machiner	y and tools	<i>▶</i> B :	495.80
O LADOR			÷	
C. LABOR DESCRIPTION	CATEGORY	MAN-HOURS	COST/HOUR	SUBTOTAL
Mason	III	1.20	525.00	630.00
Common laborer	111	1.20	425.00	510.00
Common (above)	Total of labor		C:	1140.00
DIRECT COSTS (A+B+C)				12963.88
INDIRECT COSTS 25%				3240.97
UNIT PRICES				16204.85
REMARKS:				

PROJECT: HEM N°: Mosaic tile (0,50) 20 x 20 cr SPECIFICATIONS: Mosaic tile (0,50)	n/ cement mortar. 1:4 20 x 20 cm/ cement morta	г. 1:4	DATE: 20-> Unit: m² ITEM: /21	c-94
A MATERIALS				
DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	SUBTOTAL
Mosaic of 0,05	M2	1.00	82350.00	
	M3	0.03	186770.38	
Cement mortar, 1:4 White cement	KG	0.50	700.92	350.46
	KG	0.50	1188.00	594.00
Lithopone	M3	0.08	616.67	
Water	Total of material		A:	88946.91
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-	1.46	PER HOUR 120.00 B:	SUBTOTAL 175.20 175.20
C. LABOR	A A TOPO A DAY	MANUTOURE	COST/HOUR	SUBTOTAL
DESCRIPTION	CATEGORY	MAN-HOURS		424.41
Master workman	V	0.61	695.75	640.50
Mason	, III	1.22	525.00	518.50
Common labor	l Total of labor	1.22	425.00 C:	1583.41
1	Total of 18001		٠.	*******
DIRECT COSTS (A+B+C)				90705.51
INDIRECT COSTS 25%				22672.38
UNIT PRICES REMARKS:			•	113381.89

PROJECT:			DATE: 20-x-	94
ITEM N°: Steel made door mat		and the second second	Unit: m ²	
SPECIFICATIONS:		1.	TTEM: /52	1.121
A. MATERIALS				
DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	SUBTOTAL
Steel angle	ML	0.50	2465.10	1232.55
Steel bars	KG	25.00	1244.30	31107.50
Welding	KG	5,50	35000.00	192500.00
Non-rust paint	M2	0.04	2257.20	90.29
Tron-tuse paint	Total of materials		Α:	224930.34
		1		
B. MACHINERY AND TOOLS				
DESCRIPTION	EQUIPMENT-I	IOURS COST I	PER HOUR	SUBTOTAL
Minor tools	Qommen	1.50	120.00	180.00
Weld		1.50	6570.00	9855.00
Weld	Total of machiner	•	B:	10035.00
	Total Of Histinici	y and tools		
C. LABOR				
DESCRIPTION	CATEGORY	MAN-HOURS	COST/HOUR	SUBTOTAL
Master workman	V	0.38	695.75	264.39
Skilled laborer	III	0.75	525.00	393.75
Assistant of Skilled labor	Π	0.75	462.50	346.88
Mason	tn	0.75	525.00	393,75
Mason	Total of labor		C:	1398.76
	Total of facet			
DIRECT COSTS (A+B+C)				236364.10
INDIRECT COSTS 25%				59091.02
UNIT PRICES			•	295455.12
				250400.15
REMARKS:				

PROJECT: ITEM N°: Welded Mesh R84 SPECIFICATIONS: DATE: 20-x-94 Unit: m² ITEM: /09

A.	MATERIALS
DE	SCRIPTION
	mex mesh R84

UNII UNIDAD	QUANTITY 1.00 0.50	UNIT PRICE 2772.00 35000.00	SUBTOTAL 2772.00 17500.00
Total of materials		A:	20272.00

В.	MACHINI	ERÝ A	ND TO	X OLS
DE	SCRIPTION	N		
Mi	nor tools		-	

EQUIPMENT-HOURS	COST PER HOUR		SUBTOTAL
0.75	120.00		90.00
Total of machinery and tool	s 1	B:	90.00

C. LABOR
DESCRIPTION
Master workman
Skilled laborer
Assistant of skilled laborer
Mason

CATEGORY	MAN-HOURS	COST/HOUR	SUBTOTAL
V	0.12	695.75	83.49
III	0.25	525.00	131.25
n n	0.25	462.50	115.63
īn ·	0.12	525.00	63.00
Total of labor		C:	393.37

DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS: 20755.37 5188.84 25944.21

PROJECT: ITEM N°: Metal Lath to protect cement mortar SPECIFICATIONS:			DATE: 20-x- Unit: m² ITEM: /10	94
A. MATERIALS DESCRIPTION Molding of galvanized metal	UNIT M2 Total of materials	QUANTITY 1.00	UNIT PRICE 19453.50 A	SUBTOTAL. 19453.50 19453.50
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-I 1.34 Total of machiner		PER HOUR 120.00 B:	SUBTOTAL 160.80 160.80
C. LABOR DESCRIPTION Master workman Mason Common Labor	CATEGORY V III I Total of labor	MAN-HOURS 0.33 0.67 0.67	COST/HOUR 695.75 525.00 425.00 C:	SUBTOTAL 229.60 351.75 284.75 866.10
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS:			1	20480.40 5120.10 25600.50

PROJECT: ITEM N°: Metal Lath to protect cement mortar SPECIFICATIONS:			DATE: 20-x Unit: m² ITEM: /11	-94
A. MATERIALS DESCRIPTION Molding of galvanized metal	UNIT M2 U Total of materials	QUANTITY 1.00 6.00	UNIT PRICE 17702.23 65.00 A:	SUBTOTAL 17702.23 390.00 18092.23
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-H Total of machinery	1.34 0.05	PER HOUR 120.00 B:	SUBTOTAL 160.80 0.00 160.80
C. LABOR DESCRIPTION Master workman Skilled laborer Assistant of skilled laborer Mason Common Labor	CATEGORY V III II III III III III II	MAN-HOURS 0.33 0.33 0.33 0.33	COST/HOUR 695.75 525.00 462.50 525.00 425.00 C:	SUBTOTAL 229.60 173.25 152.63 173.25 140.25 868.97
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS:		·	·	19122.00 4780.50 23902.50

PROJECT: ITEM N°: Foamed polyethylene 50 SPECIFICATIONS:	mm thick, to expansion joint		DATE: 20-x-9 Unit: m² ITEM: /12)4 14 17 14 14 15 18 18 18 18 18
A. MATERIALS DESCRIPTION Thermo plack plate KM3	UNIT M2 Total of materials	QUANTITY 1.00	UNIT PRICE 8137.80 A:	SUBTOTAL 8137.80 8137.80
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-I Total of machiner	6.00	PER HOUR 5 120,000 B:	SUBTOTAL 720.00 720.00
C. LABOR DESCRIPTION Master workman Mason Common Labor	CATEGORY V III I Total of labor	MAN-HOURS 1.00 2.00 4.00	COST/HOUR 695.75 525.00 425.00 C:	SUBTOTAL 695.75 1050.00 1700.00 3445.75
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS:				12303.55 3075.89 15379.44

PROJECT: ITEM N°: Waterproof cement mortar / Draina; SPECIFICATIONS:	ge gutter substructure	:	DATE: 20-x Unit: m² FIEM: /15	-94
A MATERIALS DESCRIPTION Cement Sand Water	UNIT TON M3 M3 Total of materials	QUANTITY 0.58 1.02 0.27	UNIT PRICE 360000.00 14343.75 616.67 A:	SUBTOTAL 208800.00 14630.63 166.50 223597.13
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-H Total of machinery	1.34	ER HOUR 120.00 B:	SUBTOTAL 160.80 160.80
C. LABOR DESCRIPTION Common Labor	CATEGORY I Total of labor	MAN-HOURS 5.40	COST/HOUR 425.00 C:	SUBTOTAL 2295.00 2295.00
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS:				226052.93 56513.23 282566.16

PROJECT: ITEM N°: Asphalt coating to parapet, 400 m	m high		DATE: 20-x Unit: m²	: 9 4
SPECIFICATIONS:	iu. ingri		TTEM: /16	
A. MATERIALS DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	SUBTOTAL
Asphalt coating, IGOL DENSO1K/m²	KG	5.50	6756.75	37162.13
	Total of materials	± =	A :	37162.13
B. MACHINERY AND TOOLS				·
DESCRIPTION	EQUIPMENT-I		ER HOUR	SUBTOTAL 160.80
Minor tools	Total of machiner	1.34 y and tools	120.00 B:	160.80
		×.		
C. LABOR	CATEGORY	MAN-HOURS	COST/HOUR	SUBTOTAL
DESCRIPTION Mason	ėl	0.18	525.00	94.50
Common Labor	- <u>F</u>	0.18	425.00	76.50
	Total of labor		C:	171.00
DIRECT COSTS (A+B+C)		•		37493.93
INDIRECT COSTS 25%				9373.48
UNIT PRICES REMARKS:				46867.41

PROJECT: ITEM N°: Oil caulking around door and wind SPECIFICATIONS:	dows		DATE: 20-x Unit: ml ITEM: /17	-94
A. MATERIALS DESCRIPTION Oil caulking for joints, IGAS 200 gm/ml	UNIT KG Total of materials	QUANTITY 0.20	UNIT PRICE 7782.75 A:	SUBTOTAL 1556.55 1556.55
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-I	0.50	PER HOUR 120.00 B:	SUBTOTAL 60.00 60.00
C. LABOR DESCRIPTION Mason Skilled labor Assistant of Skilled labor	CATEGORY III III II Total of labor	MAN-HOURS 0.36 0.36 0.18	COST/HOUR 525.00 525.00 462.50 C:	SUBTOTAL 189.00 189.00 83.25 461.25
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS:				2077.80 519.45 2597.25

PROJECT: ITEM N°: Asphalt compound joint 25 mm. Wi SPECIFICATIONS:	de/Covert C. Roof		DATE: 20-x- Unit: ml ITEM: /18	94
A. MATERIALS DESCRIPTION Waterproof band. Kontact. 30 x 30 mm Prime base bond IMPERMUL	UNIT M KG Total of materials	QUANTITY 1.00 0.02	UNIT PRICE 1567.35 11419.65 A:	SUBTOTAL 1567.35 228.39 1795.74
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-H	0.65	ER HOUR 120.00 B:	SUBTOTAL 78.00 78.00
C. LABOR DESCRIPTION Mason Skilled Labor Assistant of skilled labor DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS:	CATEGORY III II Total of labor	MAN-HOURS 0.45 0.45 0.18	COST/HOUR 525.00 525.00 462.50 C:	SUBTOTAL 236.25 236.25 83.25 555.75 2429.49 607.37 3036.87

PROJECT: ITEM N°: Concrete Block Masonry (Fair Face SPECIFICATIONS:	ed) 150 x 200 x 400	mortar 1:5	DATE: 20-x Unit: m³ ITEM: /20	-94 : ·
A. MATERIALS DESCRIPTION Block 15 x 20 x 40 cm (heavy T) Mortar 1:5 Resin Boards Nails Shore	UNIT U M3 GALON U KG ML Total of materials	QUANITFY 12.50 0.02 0.04 0.30 2.00 1.00	UNIT PRICE 826.20 122594.57 2453.10 2970.00 10395.00 1147.50 A:	SUBTOTAL 10327.50 2451.89 98.12 891.00 20790.00 1147.50 35706.02
B. MACHINERY AND TOOLS DESCRIPTION Minor tools Scaffold	EQUIPMENT-I	8.00 8.00	PER HOUR 120.00 250.00 B:	SUBTOTAL 960.00 2000.00 2960.00
C. LABOR DESCRIPTION Master workman Mason Common Labor	CATEGORY V III I Total of labor	MAN-HOURS 0.62 0.62 0.62	COST/HOUR 695.75 525.00 425.00 C:	SUBTOTAL 431.37 325.50 263.50 1020.37
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS:				39686.38 9921.60 49607.98

PROJECT: ITEM N°: Hollow block 200x200x400, Mor SPECIFICATIONS: 200 mm Walling Sub-St	tar 1:5 tructure including bon	ding and filling,	DATE: 20-x Unit: m³ ITEM: /20a	-94
A. MATERIALS DESCRIPTION Block 20 x 20 x 40 cm (heavy T) Mortar 1:5 Resin Boards Nails Shore	UNIT U M3 GALON U K9 ML Total of materials	QUANTITY 12.50 0.02 0.04 0.30 2.00 1.00	UNIT PRICE 976.05 122594.57 2453.10 2970.00 10395.00 1147.50 A:	SUBTOTAL 12200.63 2451.89 98.12 891.00 20790.00 1147.50 37579.14
B. MACHINERY AND TOOLS DESCRIPTION Minor tools Scaffold	EQUIPMENT-I	8.00 8.00	PER HOUR 120.00 250.00 B:	SUBTOTAL 960.00 2000.00 2960.00
C. LABOR DESCRIPTION Master workman Mason Common Labor	CATEGORY V III I Total of labor	MAN-HOURS 0.62 0.62 0.62	COST/HOUR 695.75 525.00 425.00 C:	SUBTOTAL. 431.37 325.50 263.50 1020.37
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS:				41559.51 10389.88 51949.38

PROJECT: TEM N°: 100 mm Walling Substructure 100 and filling	x200x400, Mortar 1:	S, including bonding	DATE: 20-x g Unit: m ²	-94
SPECIFICATIONS:			ITEM: /20b	
A. MATERIALS				•
DESCRIPTION	UNIT	QUANITTY	UNIT PRICE	SUBTOTAL.
Block 10 x 20 x 40 cm (heavy T)	U	12.50	631.80	7897.50
Mortar 1:5	M3	0.02	122594.57	2451.89
Resin	GALON	0.04	2453.10	98.12
Boards	U .	0.30	2970.00	891.00
Nails	KG	2.00	10395.00	20790.00
Shore	ML	1.00	1147.50	1147.50
	Total of materials		A :	33276.02
e a les este de la companya de la c			•	
B. MACHINERY AND TOOLS		•		
DESCRIPTION	EQUIPMENT-H	OURS COST PE		SUBTOTAL
Minor tools	*	8.00	120.00	960.00
Scaffold		8.00	250.00	2000.00
•	Total of machinery	and tools	B :	2960.00
		1.0		
C. LABOR				
DESCRIPTION	CATEGORY	MAN-HOURS	COST/HOUR	SUBTOTAL
Master workman	V	0.62	695.75	431.37
Mason	III	0.62	525.00	325.50
Common Labor	I	0.62	425.00	263,50
	Total of labor		C:	1020.37
DIRECT COSTS (A+B+C)		•		37256.38
INDIRECT COSTS 25%				9314.10
UNIT PRICES REMARKS:				46570.48

PROJECT: ITEM N°: Glazed Ceramic Tile SPECIFICATIONS:			DATE: 20-x- Unit: m² ITEM: /21	94
A. MATERIALS			IN THE PRIOR	CHUTOTAL
DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	SUBTOTAL 20119.05
Tile	M2	1.00	20119.05	
Cement	QQ	0.22	18000.00	3960.00
White cement	KG	1.50	700.92	1051.38
Lithopone	KG	0.50	1188.00	594.00
Water	M3	0.08	616.67	49.33
	Total of material:	5	A :-	25773.76
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-	1.46	PER HOUR 120.00 B:	SUBTOTAL 175.20 175.20
C. LABOR				
DESCRIPTION	CATEGORY	MAN-HOURS	COST/HOUR	SUBTOTAL
Master workman	V	0.36	695.75	250.47
Mason	TEL	0.73	525.00	383.25
Common Labor	ī	0.73	425.00	310.25
Continue	Total of labor		C:	943.95
DIRECT COSTS (A+B+C)				26892.93
INDIRECT COSTS 25%				6723.23
UNIT PRICES				33616.17
OINI I MCEO				•

PROJECT: ITEM N°: Terrazzo Tile to Floor SPECIFICATIONS:		-	DATE: 20-x Unit: m² ITEM: /22	-94
A. MATERIALS DESCRIPTION Cement Marble grain Pigment White Cement Fiberglass	UNIT QQ KG KG KG M	QUANTITY 0.44 5.00 0.50 1.50 4.00	UNIT PRICE 18000.00 14715.00 8500.00 700.92 314.83	SUBTOTAL 7920.00 73575.00 4250.00 1051.38 1259.23
	Total of materials	•	A :	88055.66
B. MACHINERY AND TOOLS DESCRIPTION Minor tools Buffer	EQUIPMENT-I	4.00 2.00	PER HOUR 120.00 B:	SUBTOTAL 480.00 0.00 480.00
C. LABOR DESCRIPTION Master workman Skilled Labor Assistant of skilled labor DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS:	CATEGORY V III II Total of labor	MAN-HOURS 1.00 2.00 2.00	COST/HOUR 695.75 525.00 462.50 C:	SUBTOTAL 695.75 1050.00 925.00 2670.75 91206.41 22801.60 114008.01

PROJECT: HEM N°: PVC tile SPECIFICATIONS:			DATE: 20-x-9 Unit: m² ITEM: /23	
A. MATERIALS DESCRIPTION Vinyl 3,2 mm vinyl glue	UNIT M2 GALON Total of materials	QUANTITY 1.05 0.06	UNIT PRICE 32076.00 25987.00 A:	SUBTOTAL 33679.80 1559.22 35239.02
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-HOL	1.14	ER HOUR 120.00 B:	SUBTOTAL 136.80 136.80
	1000101.000			1.5
C. LABOR DESCRIPTION Master workman Skilled Labor Assistant of skilled labor	CATEGORY M V III II Total of labor	1AN-HOURS 0.29 0.57 0.57	COST/HOUR 695.75 525.00 462.50 C:	SUBTOTAL 201.77 299.25 263.63 674.64
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS:				36140.46 9035.12 45175.58

PROJECT: TIEM No. Sprayed Tile			DATE: 20-x-94 Unit: m²		
SPECIFICATIONS:			ПЕМ: /24		
A. MATERIALS					
DESCRIPTION	UNTI	QUANTITY	UNIT PRICE	SUBTOTAL	
White cement	KG	1.00	700.92	500.92	
Cementite	QQ	0.04	13500.00	540.00	
Resin	GALON	0.05	2453.10	122.66	
Water	МЗ	0.08	616.67	49.33	
Fibers	KG	0.05	15758.00	787.90	
Amiantite	KG	0.50	8500,00	4250.00	
	Total of materials	:	A:	6450.81	
B. MACHINERY AND TOOLS DESCRIPTION Minor tools Scaffold	EQUIPMENT-I	0.50 0.50	PER HOUR 120.00 250.00 B:	SUBTOTAL 60.00 125.00 185.00	
C. LABOR	8				
DESCRIPTION	CATEGORY	MAN-HOURS	COST/HOUR	SUBTOTAL	
Master workman	V	0.13	695.75	90.45	
Skilled Labor	III	0.25	525.00	131.25	
Assistant of skilled labor	11	0.25	462.50	115.63	
	Total of labor		C:	337.32	
DIRECT COSTS (A+B+C)				6973.13	
INDIRECT COSTS 25%				1743.28	
UNIT PRICES REMARKS:				87[6.41	

PROJECT: ITEM N°: Cement SPECIFICATIONS		ed Th = 20	mın (Reinforced Cor	ncrete)	DATE: 20-x- Unit: m ² ITEM: /25a	94
A MATERIALS DESCRIPTION Cement Sand Cementite Water Waste 8%			UNIT QQ M3 QQ M3 M3 Total of materials	QUANTITY 0.22 0.04 2.00 0.10 0.01	UNIT PRICE 18000.00 14343.75 13500.00 616.67 3500.00 A:	SUBTOTAL 3960.00 573.75 27000.00 61.67 35.00 31630.42
B. MACHINERY DESCRIPTION Minor tools Scaffold	AND TOOLS	·	EQUIPMENT-F	1.34 1.34	PER HOUR 120,00 250,00 B:	SUBTOTAL, 160.80 335.00 495.80
C. LABOR DESCRIPTION Master workman Mason Common labor			CATEGORY V III I Total of labor	MAN-HOURS 0.33 0.67 0.67	COST/HOUR 695.75 525.00 425.00 C: -	SUBTOTAL 229.60 351.75 284.75 866.10
DIRECT COSTS (INDIRECT COSTS UNIT PRICES REMARKS:					# [# ¹	32992.31 8248.08 41240.39

PROJECT: ITEM N°: Cement Mortar Trowelled Th = SPECIFICATIONS:	20 mm (concrete block	k W)	DATE: 20-: Unit: m³ ITEM: /25&	
A MATERIALS DESCRIPTION	UNIT	QUANTTY	UNTT PRICE	SUBTOTAL
Cement	QQ	0.22	18000.00	3960.00
Sand	M3	0.04	14343.75	573.75
Cementite	QQ	2.00	13500.00	27000.00
Water	M3	0.10	616.67	61.67
Waste 8%	M3	0.01	3500.00	35.00
	Total of material:	S	A:	31630,42
B. MACHINERY AND TOOLS DESCRIPTION Minor tools Scaffold	EQUIPMENT-	1.34 1.34	PER HOUR 120.00 250.00 B:	SUBTOTAL 160.80 335.00 495.80
C. LABOR				
DESCRIPTION	CATEGORY	MAN-HOURS	COST/HOUR	SUBTOTAL
Master workman	V	0.33	695.75	229.60
Mason	Ш	0.67	525.00	351.75
Common labor	1	0.67	425.00	284.75
•	Total of labor		C :	866.10
DIRECT COSTS (A+B+C)				32992.31
INDIRECT COSTS 25%				8248.08
UNIT PRICES REMARKS:				41240.39

PROJECT: ITEM N°: Cement Mortar Plaster, 20 mr SPECIFICATIONS:	n thick, skirting, 100 mm	H.	DATE: 20-x Unit: m² FIEM: /25c	-94
A. MATERIALS DESCRIPTION Cement Mortar 1:4	UNIT M2 Total of materials	QUANITEY 0.10	UNIT PRICE 3735.41 A:	SUBTOTAL 373.54 373.54
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-I	1.34	PER HOUR 120.00 B:	SUBTOTAL 160.80 160.80
C. LABOR DESCRIPTION	CATEGORY	MAN-HOURS	COSTAIOUR	SUBTOTAL
	Total of labor	71	c.	0.00
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS: The labor is already considered.	dered in the mortar			534.34 133.59 667.93

DA1E: 20-x-94 PROJECT: IIEM No: Cement Mortar Plaster, 20 mm thick, skirting, 200 mm H. Unit: m2 ITEM: /25d SPECIFICATIONS: A. MATERIALS SUBTOTAL UNIT PRICE DESCRIPTION UNIT QUANTITY 747.08 3735.41 M2 0.20 Cement Mortar 1:4 747.08 A: Total of materials B. MACHINERY AND TOOLS EQUIPMENT-HOURS COST PER HOUR DESCRIPTION 160.80 1.34 120.00 Minor tools B: 160.80 Total of machinery and tools C. LABOR SUBTOTAL CATEGORY MAN-HOURS COST/HOUR DESCRIPTION

Total of labor

0.00

907.88

226.97 1134.85

DIRECT COSTS (A+B+C)
INDIRECT COSTS 25%
UNIT PRICES
REMARKS: The labor is already considered in the mortar

PROJECT: ITEM N°: Cement Mortar Plaster, 2 SPECIFICATIONS:	0 mm thick, skirting, 300 mm H.	DATE: 20-x-94 Unit: m³ ITEM: /25e
A. MATERIALS DESCRIPTION Cement Mortar 1:4	UNIT QUANTITY M2 0.30 Total of materials	UNIT PRICE SUBTOTAL 3735.41 1120.62 A: 1120.62
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-HOURS COST F 1.34 Total of machinery and tools	PER HOUR SUBTOTAL 120.00 160.80 B: 160.80
C. LABOR DESCRIPTION	CATEGORY MAN-HOURS Total of labor	COST/HOUR SUBTOTAL C: 0.00
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS: The labor is already or	onsidered in the mortar	1281.42 320.36 1601,78

DATE: 20-x-94 PROJECT: Unit: m² ITEM Nº: Cement Mortar Plaster, 30 mm thick, reinforced concrete floors ПЕМ: /26а SPECIFICATIONS: A. MATERIALS SUBTOTAL QUANTITY UNIT PRICE UNIT DESCRIPTION 6915.69 230523.01 M3 0.03 Cement Mortar 1:3 6915.69 ۸: Total of materials B. MACHINERY AND TOOLS COST PER HOUR SUBTOTAL EQUIPMENT-HOURS DESCRIPTION 160.80 1.34 120.00 Minor tools B: 160.80 Total of machinery and tools C. LABOR COST/HOUR SUBTOTAL CATEGORY MAN-HOURS DESCRIPTION C: 0.00Total of labor 7076.49 DIRECT COSTS (A+B+C) 1769.12 INDIRECT COSTS 25% 8845.61 UNIT PRICES

REMARKS: The labor is already considered in the mortar

PROJECT: ITEM N°: Cement Mortar Plaster, 30 m SPECIFICATIONS:	m thick, staircase	e e di Grandi	DATE: 20-x- Unit: m² HEM: /26b	94
A MATERIALS DESCRIPTION Cement Mortar 1:3	UNIT M2 Total of materials	QUANITIY 1.00	UNIT PRICE 6915.69 A:	SUBTOTAL 6915.69 6915.69
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-I	1.34	PER HOUR B:	SUBTOTAL 0.00 0.00
C. LABOR DESCRIPTION	CATEGORY	MAN-HOURS	COSTAIOUR	SUBTOTAL
	Total of labor		C:	0.00
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES				6915.69 1728.92 8644.61
REMARKS: The labor is already consi	dered in the mortar			* * * * * * * * * * * * * * * * * * * *

PROJECT: ITEM N°: Cement Mortar Screed, 20 mr SPECIFICATIONS:	n thick, Applied to Built	Asphalt Roofing	DATE: 20-x Unit: m² ITEM: /27a	-94
A MATERIALS DESCRIPTION Cement Mortar 1:4	UNIT M2 Total of materials	QUANTITY 0.20	UNIT PRICE 3735.41 A:	SUBTOTAL 747.08 747.08
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-I	HOURS COST P 1.34 y and tools	PER HOUR 120.00 B:	SUBTOTAL 160.80 160.80
C. LABOR DESCRIPTION Master workman Mason Common labor	CATEGORY V III I Total of labor	MAN-HOURS 0.50 1.25 1.25	COST/HOUR 695.75 525.00 425.00 C:	SUBTOTAL 347.88 656.25 531.25 1535.38
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS:				2443.26 610.81 3054.07

PROJECT: ITEM N°: Cement Mortar Bed, Applied to C SPECIFICATIONS:	Hazed Ceramic Tile		Unit: m² ITEM: /28a	-94
A. MATERIALS DESCRIPTION Cement grout	UNIT M2 Total of materials	QUANIITY 1.00	UNIT PRICE 5880.74 A:	SUBTOTAL 5880.74 5880.74
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-I	1.34	PER HOUR 120.00 B:	SUBTOTAL 160.80 160.80
C. LABOR DESCRIPTION	CATEGORY	MAN-HOURS	COSTAIOUR	SUBTOTAL
	Total of labor		C:	0.00
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS: The labor is already considere	d in the material			6041.54 1510.39 7551.93

DATE: 20-x-94 PROJECT: Unit: m² ITEM No. Cement Mortar Bed, Applied to Terrazzo Tile SPECIFICATIONS: TTEM: /28b A. MATERIALS **SUBTOTAL** UNIT QUANTITY UNIT PRICE DESCRIPTION 5880.74 8821,11 Cement Grout M2 1.50 8821.11 A٠ Total of materials B. MACHINERY AND TOOLS SUBTOTAL EQUIPMENT-HOURS COST PER HOUR DESCRIPTION 160.80 1.34 120.00 Minor tools B: 160.80 Total of machinery and tools C. LABOR COST/HOUR SUBTOTAL **CATEGORY** MAN-HOURS DESCRIPTION C: 0.00 Total of labor 8981.91 DIRECT COSTS (A+B+C) 2245.48 **INDIRECT COSTS 25%** 11227.39 UNIT PRICES

REMARKS: The labor is already considered in the material

PROJECT: ITEM N°: Cement Mortar Bed, Applied to T SPECIFICATIONS:	enazzo Tile	DATE: 20-x Unit: m² ITEM: /28c	
A. MATERIALS DESCRIPTION Cement Grout	UNIT QUANTITY M2 2.00 Total of materials	UNIT PRICE 5880.74 A:	SUBTOTAL 11761.48 11761.48
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-HOURS COST I 1.34 Total of machinery and tools	PER HOUR 120.00 B:	SUBTOTAL 160.80 160.80
C. LABOR DESCRIPTION	CATEGORY MAN-HOURS	COSTAIOUR	SUBTOTAL
	Total of labor	C:	0.00
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS: The labor is already considero	d in the material		11922.28 2980.57 14902.85

PROJECT: ITEM N°: Concrete Trowel finishir SPECIFICATIONS:	ng on floor		DATE: 20-x Unit: m² ITEM: /29a-	
A. MATERIALS DESCRIPTION Cement Water	UNIT QQ M3 Total of materials	QUANTITY 0.50 0.01	UNIT PRICE 18000.00 616.67 A:	SUBTOTAL 9000.00 617 9006.17
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-H	2.50	PER HOUR 120.00 B:	SUBTOTAL 300.00 300.00
C. LABOR DESCRIPTION Mason Common labor DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES	CATEGORY III I Total of labor	MAN-HOURS 2.00 2.00	COST/HOUR 525.00 425.00 C:	SUBTOTAL 1050.00 850.00 1900.00 11206.17 2801.54 14007.71

PROJECT: ITEM N°, Terrazzo Tile to Floor SPECIFICATIONS:		e e e e e e e e e e e e e e e e e e e	DATE: 20-x Unit: m ² +10 ITEM: /30	
A. MATERIALS DESCRIPTION Cement Marble grain Pigment White cement Fiberglass	UNIT QQ KG KG KG M Total of materials	QUANITTY 0.44 5.00 0.50 1.50 4.00	UNIT PRICE 18000.00 14715.00 8500.00 700.92 314.83	SUBTOTAL 7920.00 73575.00 4250.00 1051.38 1259.28 88055.66
	totat of materials			
B. MACHINERY AND TOOLS DESCRIPTION Minor tools Buffer	EQUIPMENT-H Total of machinery	4.00 2.00	PER HOUR 120.00 B:	SUBTOTAL 480.00 0.00 480.00
C. LABOR DESCRIPTION Master workman Skilled labor Assistant of skilled labor	CATEGORY V III II Total of labor	MAN-HOURS 1.00 2.00 3.00	COST/HOUR 695.75 525.00 462.50 C:	SUBTOTAL. 695.75 1050.00 925.00 2670.75
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS:				91206.41 22801.60 114008.01 114008.01/10 =11400.80

PROJECT:		•			DATE: 20-x	
FIEM N°: Terrazzo Tile to Floor					Unit: m³+10	
SPECIFICATIONS:					ITEM: /31	4
A. MATERIALS						
DESCRIPTION		UNIT	QUA	YTTI	UNIT PRICE	SUBTOTAL
Cement		QQ		0.44	18000.00	7920.00
Marble grain		KG		5.00	14715.00	73575.00
Pigment	1.	KG		0.50	8500.00	4250.00
White cement		KG		1.50	700.92	1051.38
Fiberglass	*	M		4.00	314.82	1259.28
		Total of material	s .		A:	88055.66
B. MACHINERY AND TOOLS DESCRIPTION		EQUIPMENT:	HOURS	COST	PER HOUR	SUBTOTAL
Minor tools		•	4.00		120.0	480.00
Buffer		•	2.00			0.00
		Total of machine	ry and too	ls	B :	480.00
C. LABOR						
DESCRIPTION		CATEGORY	MANEL	HOURS	COST/HOUR	SUBTOTAL
Master Workman		V	INDIAN-1	1.00	695.75	695.75
Skilled labor		n In		2.00	525.00	1050.00
Assistant of skilled labor		11		2.00	462.50	925.00
Assistant of skilled labor		Total of labor		2.00	C:	2670.75
DIRECT COSTS (A+B+C)						91206.41
INDIRECT COSTS 25%						22801.60
UNIT PRICES						114008.01
REMARKS:						114008.01/10
						=11400.80

PROJECT: ITEM N°: Terrazzo Tile to Floor SPECIFICATIONS:			DATE: 20-x- Unit: m² ITEM: /32	94
A. MATERIALS			wa paron	OLD TOTAL
DESCRIPTION	UNIT	QUANTITY	UNIT PRICE 18000.00	SUBTOTAL 7920.00
Cement	QQ	0.44	1415.00	73575.00
Marble grain	KG	5.00	8500.00	4250.00
Pigment	KG	0.50 1.50	700.92	1051.38
White cement	KG	4.00	314.83	1259.28
Fiberglass	M Total of models		314.83 A:	88055.66
	Total of materials	•	A.	60055.00
B. MACHINERY AND TOOLS		tours doors	orn HOHD	SUBTOTAL
DESCRIPTION	EQUIPMENT-I		PER HOUR 120.00	480.00
Minor tools	· · · · · · · · · · · · · · · · · · ·	4.00	120.00	0.00
Buffer	Total of machiner	2.00 y and tools	В:	480.00
C. LABOR				
DESCRIPTION	CATEGORY	MAN-HOURS	COST/HOUR	SUBTOTAL
Master Workman	V	1.00	695.75	695.75
Skilled labor	П	2.00	525.00	. 1050.00
Assistant of skilled labor	II	2.00	462.50	925.00
	Total of labor		C:	925.00
DIRECT COSTS (A+B+C)				91206.41
INDIRECT COSTS 25%				22801.60
UNIT PRICES				114008.01
REMARKS:				114008.01/5
				= 22801.60

•			
		DATE: 20-x-	94
		Unit: m ²	
		ITEM: /32	
•			
UNIT	QUANTITY		SUBTOTAL
KG	1.00	• • • • • •	700.92
QQ	0.04	13500.00	540.00
GALON	0.05	2453.10	122.66
M3	0.08	616.67	49.33
Total of materials		A:	1412.91
		. •	
EQUIPMENT-F		Division	SUBTOTAL
			60.00
	0.50		125.00
Total of machiner	y and tools	B :	185.00
-	•		
			OLDS TOTAL
			SUBTOTAL
•			90.45
Ш	0.25		131.25
. 11	0.25		115.63
Total of labor		C:	337.32
			1935.23
*			483.81
			2419.04
	KG QQ GALON M3 Total of materials EQUIPMENT-1 Total of machiner CATEGORY V III II	RG	Unit: m³ ITEM: /32 UNIT QUANTITY UNIT PRICE KG 1.00 700.92 QQ 0.04 13500.00 GALON 0.05 2453.10 M3 0.08 616.67 Total of materials A: EQUIPMENT-HOURS COST PER HOUR 0.50 120.00 0.50 250.00 Total of machinery and tools B: CATEGORY MAN-HOURS COST/HOUR V 0.13 695.75 III 0.25 525.00 II 0.25 525.00

PROJECT: ITEM N°: Fiber Cement Sheet Ceiling, 6 SPECIFICATIONS:	mm, including suspensi	on system	DATE: 20-x-: Unit: m² ITEM: /34	94
A. MATERIALS DESCRIPTION Fiber Cement Sheet	UNIT M2	QUANTITY	UNTT PRICE 14441.63	SUBTOTAL 14441.63
T metal frame, white	Ü	1.00	2430.00	2430.00
sciews	Ü	0.25	117.00	29.25
	Total of materials	\$	A:	16900.88
B. MACHINERY AND TOOLS				átm:rozat
DESCRIPTION	EQUIPMENT-			SUBTOTAL
Minor tools		1.46	120.00	175.20
	Total of machine	ry and tools	B :	175.20
C. LABOR		the second		
C. LINDOR				
DESCRIPTION	CATEGORY	MAN-HOURS	COST/HOUR	SUBTOTAL
DESCRIPTION Master Workman	CATEGORY V	MAN-HOURS 0.36	COST/HOUR 695.75	SUBTOTAL 250,47
Master Workman	••••			
Master Workman	V	0.36	695.75	250.47 383.25
Master Workman Skilled labor	V III	0.36	695.75 525.00	250.47 383.25 633.72
Master Workman Skilled labor DIRECT COSTS (A+B+C)	V III	0.36	695.75 525.00	250.47
Master Workman Skilled labor	V III	0.36	695.75 525.00	250,47 383,25 633,72 17709.80

PROJECT: ITEM N°: Acoustic Rockwool Tile Ceiling SPECIFICATIONS:	, 12 mm thick/suspens	on system	DATE: 20-x Unit: m² ITEM: /35	c-94
A. MATERIALS DESCRIPTION P/GYPSON Ceiling	UNIT	QUANTITY 1.00	UNIT PRICE 25515.00	SUBTOTAL 25515.00
T. Shape metal frame, white screws	U U Total of materials	0.36 10.00	1215.00 117.00 A:	
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-I	1.46	PER HOUR 120.00 B:	SUBTOTAL 175.20 175.20
C. LABOR DESCRIPTION Master Workman Skilled labor	CATEGORY V III Total of labor	MAN-HOURS 0.36 0.75	COST/HOUR 695.75 525.00 C:	SUBTOTAL 250.47 393.75 644.22
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS: Transport is included in the r	naterials			27941.82 6985.46 34927.28

PROJECT: ITEM N°: Acid Proof Asphalt Block to Flo SPECIFICATIONS:	or of Battery Room	DATE: 20-: Unit: m² ITEM: /36	k-94
A MATERIALS DESCRIPTION Vinyl, 3,2 mm Asphalt adhesive	UNIT QUA M2 GALON Total of materials	UNIT PRICE 1.05 32076.00 0.06 14404.50 A:	and the second s
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-HOURS 1.14 Total of machinery and to	120.00	SUBTOTAL 136.80 136.80
C. LABOR DESCRIPTION Master Workman Skilled labor Assistant of skilled labor	CATEGORY MAN V III II Total of labor	-HOURS COST/HOUR 0.29 695.75 0.57 525.00 0.57 462.50 C:	299.25
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS: The transport is included in t	he cost of materials		35445.51 8861.38 44306.89

PROJECT: ITEM N°: Oil Paint on Metal Surfaces SPECIFICATIONS:			DATE: 20-x- Unit: m³ HEM: /37	94
A MATERIALS DESCRIPTION Oil paint Thinner Sandpaper "0"	UNIT GALON GALON HOJA Total of materials	QUANITIY 0.04 0.01 0.13	UNIT PRICE 45144.00 11880.00 1215.00 A:	SUBTOTAL 1805.76 118.80 157.95 2082.51
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-I	0.46	PER HOUR 120.00 B:	SUBTOTAL 55.20 55.20
C. LABOR DESCRIPTION Master Workman Skilled labor Assistant of skilled labor	CATEGORY V III II Total of labor	MAN-HOURS 0.11 0.23 0.23	COST/HOUR 695.75 525.00 462.50 C:	SUBTOTAL 76.53 120.75 106.38 303.66
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS:				2441.37 610.34 3051.71

PROJECT: ITEM N°: Vinyl Emulsion Paint Applied to S SPECIFICATIONS:	heet Ceiling, Wall, Skirting	DATE: 20-x Unit: m ^a ITEM: /38	.94
A. MATERIALS DESCRIPTION Vinyl Paint Plaster "Cuenca" Sludge Sandpaper "0"	UNIT QUANTITY GALON 0.05 KG 0.01 KG 0.03 HOJA 0.25 Total of materials	594.00 1118.00	SUBTOTAL 3861.00 5.94 33.54 303.75 4204.23
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-HOURS COST 0.46 Total of machinery and tools	PER HOUR 120.00 B:	SUBTOTAL 55.20 55.20
C. LABOR DESCRIPTION Master Workman Skilled labor Assistant of skilled labor	CATEGORY MAN-HOURS V 0.11 III 0.23 Il 0.23 Total of labor	695.75 525.00	SUBTOTAL 76.53 120.75 106.38 303.66
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS: The transport is considered in the	ne materials		4563.09 1140.77 5703.86

PROJECT: ITEM N°: Acid Proof Paint Applied to Cer SPECIFICATIONS:	nent Mortar P. Wall		DATE: 20-x- Unit: m² HEM: /39	94
A. MATERIALS DESCRIPTION Vinyl Paint Plaster "Cuenca" Sludge Sandpaper "0"	UNIT GALON KG KG HOJA Total of materials	QUANTITY 0.05 0.01 0.03 0.25	UNIT PRICE 77220.00 594.00 1118.00 1215.00 A:	SUBTOTAL 3861.00 5.94 33.54 303.75 4204.23
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-H Total of machinery	0.46	PER HOUR 120.0 B:	SUBTOTAL 55.20 55.20
C. LABOR DESCRIPTION Master Workman Skilled labor Assistant of skilled labor	CATEGORY V III II Total of labor	MAN-HOURS 0.11 0.23 0.23	COST/HOUR 695.75 525.00 462.50 C:	SUBTOTAL 76.53 120.75 106.38 303.66
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS: The transport is considered in	n the materials			4563.09 1140.77 5703.86

PROJECT: ITEM N°: Wooden Doors and Frames Includ SPECIFICATIONS:	ing required Hardwar	e and accessories	DATE: 20-x Unit: each ITEM: /40	-94
A. MATERIALS DESCRIPTION Ready made door Wooden frames Hinges Screws Latch Lock	UNII M2 M2 U U U U U Total of materials	QUANTITY 1.89 5.10 3.00 0.02 1.00 1.00	UNIT PRICE 140035.50 47278.35 9599.85 117.00 1719.00 132975.00 A:	SUBTOTAL 264667.10 241119.59 28799.55 2.34 1719.00 132975.00 669282.57
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-F	1.34	ER HOUR B:	SUBTOTAL 0.00 0.00
C. LABOR DESCRIPTION Master Workman Mason Skilled labor Assistant of skilled labor	CATEGORY V III III II Total of labor	MAN-HOURS 1.40 0.70 0.23 0.23	COST/HOUR 695.75 525.00 525.00 462.50 C:	SUBTOTAL 974.05 367.50 120.75 106.38 1568.68
DIRECT COSTS (A+B+C) INDIRECT COSTS 25% UNIT PRICES REMARKS: The transport is considered in t	he materials			670851.25 167712.81 838564.06 838564.06/6.99 = 119966.24

PROJECT:

ITEM No: Cupboard and Shelf

SPECIFICATIONS:

DATE: 20-x-94 Unit: ml TTEM: /41

A. MATERIALS

DESCRIPTION

UNIT

QUANTITY 1.01 UNIT PRICE

SUBTOTAL 227250.00

Wooden appliance

MLTotal of materials 225000.00 A:

227250.00

B. MACHINERY AND TOOLS

DESCRIPTION

Minor tools

EQUIPMENT-HOURS COST PER HOUR

120.00

SUBTOTAL 240.00

2.00 Total of machinery and tools

B:

240.00

C. LABOR

DESCRIPTION Master Workman Skilled labor Assistant of skilled labor CATEGORY ٧ Ш П

Total of labor

MAN-HOURS COST/HOUR 0.50 1.00 1.00

SUBTOTAL 347.88 695.75 525.00 525.00

462.50 462.50 C: 1335.38

DIRECT COSTS (A+B+C) INDIRECT COSTS 25%

UNIT PRICES

REMARKS: The transport is considered in the materials

228825.38 57206.34

286031.72 286031.72*1.5n

= 429048

DATE: 20-x-94 PROJECT: Unit: ml HEM No. Blind Box ΠΈΜ: /42 SPECIFICATIONS: A. MATERIALS QUANTITY UNIT PRICE SUBTOTAL UNIT DESCRIPTION 193162.50 19125.00 ML1.01 Wooden appliance (multiple x height) A: 193162.50 Total of materials B. MACHINERY AND TOOLS SUBTOTAL COST PER HOUR **EQUIPMENT-HOURS** DESCRIPTION 240.00 120.00 2.00 Minor tools B: 240.00 Total of machinery and tools C. LABOR COST/HOUR SUBTOTAL MAN-HOURS **CATEGORY** DESCRIPTION 695.75 347.88 0.50 Master Workman \mathbf{v} 525.00 525.00 Ш 1.00 Skilled labor 462.50 462.50 1.00 11 Assistant of skilled labor 1335.38 C: Total of labor 194737.88 DIRECT COSTS (A+B+C) 48684.47 INDIRECT COSTS 25% 243422.34 UNIT PRICES REMARKS: The transport is considered in the materials

PROJECT: ITEM N°: Steel Door and Louver, Including F SPECIFICATIONS:	rames, Hardware, A	ccessories, Caulkin	DATE: 20-x g Unit; each ITEM: /43	-94
A. MATERIALS				
DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	SUBTOTAL
Ready made metal door	IJ	1.00	212895.00	212895.00
Metal frames	ML	5.10	33853.15	172651.07
Hinges	U	3.00	9119.25	27357.75
Weld	KG	0.05	35000.00	1750.00
Screws	U	9.00	117.00	1750.00
Latch	บ	1.00	1719.00	1053.00
Lock	U	1.00	132975.00	1719.00
Putty	KG	2.50	7782.75	132975.00
- wy	Total of materials		A :	569857.69
B. MACHINERY AND TOOLS DESCRIPTION	EOUIPMENT-I	toting goet b	ED HOUD	SUBTOTAL
Minor tools	Total of machiner	1.34	ER HOUR 120.00 B:	160.80 160.80
Minor tools C. LABOR	Total of machiner	1.34 y and tools	120.00 B:	160.80 160.80
Minor tools C. LABOR DESCRIPTION	Total of machiner	1.34 y and tools MAN-HOURS	120.00 B:	160.80 160.80 SUBTOTAL
Minor tools C. LABOR DESCRIPTION Master Workman	Total of machiner CATEGORY V	1.34 y and tools MAN-HOURS 1.40	B: COST/HOUR 695.75	160.80 160.80 SUBTOTAL 974.05
Minor tools C. LABOR DESCRIPTION Master Workman Mason	Total of machiner CATEGORY V	1.34 y and tools MAN-HOURS 1.40 0.70	120.00 B:	160.80 160.80 SUBTOTAL 974.05 367.50
Minor tools C. LABOR DESCRIPTION Master Workman Mason Skilled labor	Total of machiner CATEGORY V RI III	1.34 y and tools MAN-HOURS 1.40 0.70 0.70	120.00 B: COST/HOUR 695.75 525.00	160.80 160.80 SUBTOTAL 974.05 367.50 0.00
Minor tools C. LABOR DESCRIPTION Master Workman Mason	Total of machiner CATEGORY V RI III	1.34 y and tools MAN-HOURS 1.40 0.70	120.00 B: COST/HOUR 695.75 525.00 462.50	160.80 160.80 SUBTOTAL 974.05 367.50 0.00 323.75
Minor tools C. LABOR DESCRIPTION Master Workman Mason Skilled labor	Total of machiner CATEGORY V RI III	1.34 y and tools MAN-HOURS 1.40 0.70 0.70	120.00 B: COST/HOUR 695.75 525.00	160.80 160.80 SUBTOTAL 974.05 367.50 0.00
Minor tools C. LABOR DESCRIPTION Master Workman Mason Skilled labor Assistant of skilled labor	Total of machiner CATEGORY V RI III	1.34 y and tools MAN-HOURS 1.40 0.70 0.70	120.00 B: COST/HOUR 695.75 525.00 462.50	160.80 160.80 SUBTOTAL 974.05 367.50 0.00 323.75
Minor tools C. LABOR DESCRIPTION Master Workman Mason Skilled labor Assistant of skilled labor DIRECT COSTS (A+B+C)	Total of machiner CATEGORY V RI III	1.34 y and tools MAN-HOURS 1.40 0.70 0.70	120.00 B: COST/HOUR 695.75 525.00 462.50	160.80 160.80 SUBTOTAL 974.05 367.50 0.00 323.75 1665.30
C. LABOR DESCRIPTION Master Workman Mason Skilled labor Assistant of skilled labor DIRECT COSTS (A+B+C) INDIRECT COSTS 25%	Total of machiner CATEGORY V RI III	1.34 y and tools MAN-HOURS 1.40 0.70 0.70	120.00 B: COST/HOUR 695.75 525.00 462.50	160.80 160.80 SUBTOTAL 974.05 367.50 0.00 323.75 1665.30 571683.79
Minor tools C. LABOR DESCRIPTION Master Workman Mason Skilled labor Assistant of skilled labor DIRECT COSTS (A+B+C)	Total of machiner CATEGORY V III III II Total of labor	1.34 y and tools MAN-HOURS 1.40 0.70 0.70	120.00 B: COST/HOUR 695.75 525.00 462.50	160.80 160.80 SUBTOTAL 974.05 367.50 0.00 323.75 1665.30 571683.79 142920.95

PROJECT: ITEM N°: Motor Driven Rolling Shutter, Incl SPECIFICATIONS:	luding Rails, Hardwa	re and Accessories	DATE: 20-x- Unit: each ITEM: /44	94
A. MATERIALS				. <u> </u>
DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	SUBTOTAL
Rolling Shutter of galvanized metal 0,8	M2	30.00	109875.15	3296254.50
Motor after specifications	U	1.00	1350000.00	1350000.00
Rails	ML	12.00	42533.10	510397.20
Weld	KG	0.50	35000.00	17500.00
Lock	Ų ·	1.00	132975.00	132975.00
Putty	KG	10,00	7782.75	77827.50
Steel angle bar 40 x 5 mm	ML	10.00	5507.78	55077.80
	Total of materials	•	A:	5440032.00
DESCRIPTION Minor tools Welder	EQUIPMENT-I	1.50 2.50	ER HOUR 120.00 6570.00 B:	180.00 16425.00 16605.00
C. LABOR	4.6314.0314	>4451 HOLDIG	docutatotin	SUBTOTAL
DESCRIPTION	CATEGORY	MAN-HOURS	COST/HOUR 695.75	1043.63
Master Workman	V	1.50 1.50	525.00	787.50
Mason	Ш		525.00 525.00	1312.50
Skilled labor	III Ti	2.50 2.50	323.00	0.00
Assistant of skilled labor	Total of labor	2.30	C:	3143.63
DIRECT COSTS (A+B+C)				5459780.63
INDIRECT COSTS 25%				1364945.16
UNIT PRICES	·			6824725.78
REMARKS: The transport is considered in the	he materials	*		

PROJECT:	100		DATÉ: 20-x	-94
HEM No: Aluminum Door Leaves and	Frames, Including	Frame, Hardware	. Unit: m²	
Accessories	, ,		•	
SPECIFICATIONS:		•	ITEM: /45	
A. MATERIALS				
DESCRIPTION	UNII	QUANITTY	UNIT PRICE	SUBTOTAL
Aluminum Door Leaves	M2	1.00	249750.00	249750.00
Aluminum for frame	ML	4.00	113400.00	453600.00
Glass, 6mm	M2	1.00	29967.30	29967.30
Screws	υ	40.00	117.00	4680.00
Hinges	U	6.00	9119.25	54715.50
Swing Arm-Spring door shutter	U	2.00	87945.75	175891.50
Rivets	KG	0.05	17820.00	891.00
Putty	KG	2.20	7782.75	17122.05
•	Total of materials	•	A:	986617.35
•				
•			1.5	
B. MACHINERY AND TOOLS	200	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
DESCRIPTION	EOUIPMENT-F	IOURS COST PE	D MOUD	CIDTOTAL
	EQUITMENT'S	OOKS COSITE		SUBTOTAL
Minor tools	EQUITMENT-1	1.75	120.00	210.00
Minor tools	Total of machinery	1.75		
Minor tools		1.75	120.00	210.00
		1.75	120.00	210.00
C. LABOR	Total of machiner	t.75 y and tools	120.00 B:	210.00 210.00
C. LABOR DESCRIPTION	Total of machinery	1.75 y and tools MAN-HOURS	120.00 B:	210.00 210.00 SUBTOTAL
C. LABOR DESCRIPTION Master Workman	Total of machinery CATEGORY V	1.75 y and tools MAN-HOURS 1.50	120.00 B: COST/HOUR 695.75	210.00 210.00 SUBTOTAL 1043.63
C. LABOR DESCRIPTION Master Workman Mason	Total of machinery CATEGORY V III	MAN-HOURS 1.50 1.50	120.00 B: COST/HOUR 695.75 525.00	210.00 210.00 SUBTOTAL 1043.63 787.50
C. LABOR DESCRIPTION Master Workman Mason Skilled labor	Total of machinery CATEGORY V III III	1.75 y and tools MAN-HOURS 1.50 1.50 1.30	120.00 B: COST/HOUR 695.75 525.00 525.00	210.00 210.00 SUBTOTAL 1043.63 787.50 682.50
C. LABOR DESCRIPTION Master Workman Mason	Total of machinery CATEGORY V III III III	MAN-HOURS 1.50 1.50	120.00 B: COST/HOUR 695.75 525.00 525.00 462.50	210.00 210.00 SUBTOTAL 1043.63 787.50 682.50 601.25
C. LABOR DESCRIPTION Master Workman Mason Skilled labor	Total of machinery CATEGORY V III III	1.75 y and tools MAN-HOURS 1.50 1.50 1.30	120.00 B: COST/HOUR 695.75 525.00 525.00	210.00 210.00 SUBTOTAL 1043.63 787.50 682.50
C. LABOR DESCRIPTION Master Workman Mason Skilled labor Assistant of skilled labor	Total of machinery CATEGORY V III III III	1.75 y and tools MAN-HOURS 1.50 1.50 1.30	120.00 B: COST/HOUR 695.75 525.00 525.00 462.50	210.00 210.00 SUBTOTAL 1043.63 787.50 682.50 601.25 3114.88
C. LABOR DESCRIPTION Master Workman Mason Skilled labor Assistant of skilled labor DIRECT COSTS (A+B+C)	Total of machinery CATEGORY V III III III	1.75 y and tools MAN-HOURS 1.50 1.50 1.30	120.00 B: COST/HOUR 695.75 525.00 525.00 462.50	210.00 210.00 SUBTOTAL 1043.63 787.50 682.50 601.25 3114.88 989942.23
C. LABOR DESCRIPTION Master Workman Mason Skilled labor Assistant of skilled labor DIRECT COSTS (A+B+C) INDIRECT COSTS 25%	Total of machinery CATEGORY V III III III	1.75 y and tools MAN-HOURS 1.50 1.50 1.30	120.00 B: COST/HOUR 695.75 525.00 525.00 462.50	210.00 210.00 SUBTOTAL 1043.63 787.50 682.50 601.25 3114.88 989942.23 247485.56
C. LABOR DESCRIPTION Master Workman Mason Skilled labor Assistant of skilled labor DIRECT COSTS (A+B+C)	Total of machinery CATEGORY V III III Total of labor	1.75 y and tools MAN-HOURS 1.50 1.50 1.30	120.00 B: COST/HOUR 695.75 525.00 525.00 462.50	210.00 210.00 SUBTOTAL 1043.63 787.50 682.50 601.25 3114.88 989942.23

e, Including Hardware an	d Accessories	DATE: 20-x Unit; m³ ITEM: /46	
·		IN DECENIOR	OUTSTOTA!
= = ::	•		SUBTOTAL 91800.00
= '			
		7 ** ** ** * * * * * * * * * * * * * *	453600.00 29967.30
•			
_			936.00
			18238.50
			178.20
			15565.50
•	•		2651.40
Total of materials	;	A:	612936.90
EQUIPMENT-I	HOURS COST P	ER HOUR:	SUBTOTAL
	1.20	120.00	144.00
Total of machiner	y and tools	B :	144.00
CATEGORY	MAN-HOURS	COST/HOUR	SUBTOTAL
V	0.70	695.75	487.03
III	0.70	525.00	367.50
III	1.14	525.00	398.50
: <u>II</u>	1.14	462.50	527.25
Total of labor		C :	1980.28
			615061.18
		*.	153765.29
			768826.47
in the materials			
	UNIT M2 ML M2 U U KG KG KG U Total of materials EQUIPMENT-I Total of machiner CATEGORY V III III III III III III	M2 1.00 MI. 4.00 M2 1.00 U 8.00 U 2.00 KG 0.01 KG 2.00 U 1.00 Total of materials EQUIPMENT-HOURS COST P 1.20 Total of machinery and tools CATEGORY MAN-HOURS V 0.70 HI 0.70 HI 1.14 H Total of labor	UNIT QUANITTY UNIT PRICE M2 1.00 91800.00 MI. 4.00 113400.00 M2 1.00 29967.30 U 8.00 117.00 U 2.00 9119.25 KG 0.01 17820.00 KG 2.00 7782.75 U 1.00 2651.40 Total of materials A: EQUIPMENT-HOURS COST PER HOUR 1.20 120.00 Total of machinery and tools B: CATEGORY MAN-HOURS COST/HOUR V 0.70 695.75 HI 0.70 525.00 HI 1.14 525.00 HI 1.14 525.00 Total of labor C:

PROJECT: ITEM N°: Aluminum Louvers and Frames, Including, Hardware and Accessories SPECIFICATIONS:			DATE: 20-x-94 Unit: m³ HEM: /47		
A. MATERIALS			•		
DESCRIPTION	UNIT	QUANITTY	UNIT PRICE	SUBTOTAL	
Aluminum louvers	M2	0.25	65580.00	16395.00	
Aluminum for frame	ML	2.00	113400.00	226800.00	
Screws	Ü	8.00	117.00	936.00	
Natural collapsible latch	U	1.00	2651.40	2651.40	
Clips for louvers/ aluminum made	PAR	1.00	426.60	426.60	
Rivets	KG	0.01	17820.00	178.20 -	
Putty	KG	0.50	7782.75	3891.38	
	Total of materials		A :	251278.58	
				+ ,	
•					
B MACHINERY AND TOOLS					
DESCRIPTION	EQUIPMENT-I	HOURS COST F	2.00	SUBTOTAL	
Minor tools		0.50	120.00	60.00	
	Total of machiner	y and tools	B :	60.00	
C. LABOR					
DESCRIPTION	CATEGORY	MAN-HOURS	COST/HOUR	SUBTOTAL	
Master Workman	V	0.25	695.75	173.94	
Mason	Ш	0.25	525.00	131.25	
Skilled labor	Ш	0.75	525.00	393.75	
Assistant of skilled labor	П	0.75	462.50	346.88	
1.00.000.000.000	Total of labor		C:	1045.81	
DIRECT COSTS (A+B+C)				252384.39	
INDIRECT COSTS 25%				63096.10	
UNIT PRICES				315480.48	
REMARKS: The transport is considered in	the materials			- ++	
reducing the amplete is considered in					

PROJECT: FTEM N°: Figured Sheet Glass 4mm th SPECIFICATIONS:	n. Including Glazing Bead		DATE: 20-x- Unit: m² TTEM: /49	94
A. MATERIALS DESCRIPTION Aluminum window	UNIT M2	QUANTITY 1.00	UNIT PRICE 18562.50	SUBTOTAL 18562.50
Glazing bead	ML Total of materials	4.00	570.00 A:	2280.00 20842.50
S MARITHERY AND TOOLS				
B. MACHINERY AND TOOLS DESCRIPTION Minor tools	EQUIPMENT-HO	OURS COST F	ER HOUR 120.00	SUBTOTAL 60.00
	Total of machinery	and tools	В:	60.00
C. LÁBOR				
DESCRIPTION Skilled labor Assistant of skilled labor	CATEGORY III II Total of labor	MAN-HOURS 0.75 0.75	COST/HOUR 525.00 462.50 C:	SUBTOTAL 393.75 346.88 740.63
DIRECT COSTS (A+B+C) INDIRECT COSTS 25%	100101			21643.13 5410.78 27053.91
UNIT PRICES REMARKS: The transport is considered	ed in the materials			21000171

DATE: 20-x-94 PROJECT: Unit: m2 ITEM No: Clear sheet Glass, 6 mm thick ITEM: /50 SPECIFICATIONS: A. MATERIALS SUBTOTAL QUANTITY UNIT PRICE UNIT DESCRIPTION 29967.30 29967.30 1.00 Glass, 6 mm M2 A: 29967.30 Total of materials B. MACHINERY AND TOOLS EQUIPMENT-HOURS COST PER HOUR SUBTOTAL DESCRIPTION 60.00 0.50 120.00 Minor tools B: 60.00 Total of machinery and tools C. LABOR MAN-HOURS COST/HOUR SUBTOTAL **CATEGORY** DESCRIPTION Ш 0.75 525.00 393.75 Skilled labor 346.88 462.50 П 0.75 Assistant of skilled labor 740.63 C: Total of labor 30767.93 DIRECT COSTS (A+B+C)

INDIRECT COSTS 25%

REMARKS: The transport is considered in the materials

UNIT PRICES

7691.98

38459.91