

## Unit Price List, Package 2

August 1994

1US\$=100Yen=2250S/.

work item	Unit	FC,US\$	FC,J.Yen	LC,S/.	LC,Tax	LC,Total	Total,S/.	Equip.US\$
Clamp	no	7.36	736	3,312	0	3,312	19,572	8.83
Pvc pipe,25mm	m	1.85	185	833	0	833	4,936	2.32
Excav,common	m3	2.76	276	2,913	29	2,942	9,152	4.07
Random backfill	m3	3.09	309	3,090	26	3,116	10,069	4.47
Trash boom	m	684.33	68,433	153,974	0	153,974	1,693,717	752.76
Staff gauge	LS	1,377.60	137,760	399,970	0	399,970	3,409,570	1,515.36
Severino Penstock								
Excav,common	m3	2.54	254	2,697	28	2,635	8,350	3.71
Excav,weather	m3	3.25	325	3,198	35	3,233	10,546	4.69
Excav,rock	m3	7.80	780	7,818	188	8,006	25,556	11.36
Backfill	m3	2.92	292	2,975	26	3,001	9,571	4.25
Embankment	m3	3.23	323	2,896	30	2,926	10,194	4.53
Stone pitching,emb	m2	4.25	425	11,953	1,266	13,249	22,812	10.14
Stone pitching	m3	28.30	2,830	79,589	8,443	88,332	152,007	67.56
Cone E,bottom slab	m3	55.92	5,592	56,335	12,988	69,323	195,143	86.73
Cone E,anchor	m3	55.92	5,592	56,335	12,988	69,323	195,143	86.73
Cone E,foundation	m3	55.92	5,592	56,335	12,988	69,323	195,143	86.73
Cone E,encasement	m3	55.92	5,592	56,335	12,988	69,323	195,143	86.73
Cone P,side ditch	m3	58.63	5,863	59,470	13,780	73,250	205,168	91.19
Cone P,cable duct	m3	58.63	5,863	59,470	13,780	73,250	205,168	91.19
Cone P,drain valve pit	m3	58.63	5,863	59,470	13,780	73,250	205,168	91.19
Cone d,levelling	m3	50.23	5,023	52,573	12,086	64,659	177,677	78.97
Form F1	m2	3.56	356	11,314	205	11,519	19,529	8.68
Form F2	m2	3.49	349	20,140	210	20,350	28,203	12.53
Form F3	m2	4.08	408	25,378	290	25,668	34,848	15.49
Contact grout	LS	0.00	0	0	0	0	0	0.00
Steel handrail	kg	1.81	181	1,057	0	1,057	5,130	2.28
Head Tank								
Excav,common	m3	2.54	254	2,697	28	2,635	8,350	3.71
Excav,weather	m3	3.25	325	3,198	35	3,233	10,546	4.69
Excav,rock	m3	7.80	780	7,818	188	8,006	25,556	11.36
Trench excav	m3	2.76	276	2,913	29	2,942	9,152	4.07
Free drain	m3	14.34	1,434	21,533	4,333	25,866	58,131	25.84
Backfill	m3	2.92	292	2,975	26	3,001	9,571	4.25
Sand and gravel fill	m3	14.13	1,413	30,326	4,333	34,659	86,452	29.53
Cone B	m3	59.29	5,929	60,240	13,974	74,214	207,617	92.27
Cone H	m3	50.23	5,023	52,573	12,086	64,659	177,677	78.97
Cone J	m3	49.55	4,955	51,469	11,835	63,304	174,792	77.69
Form F1	m2	3.56	356	11,314	205	11,519	19,529	8.68
Form F3	m2	3.49	349	20,140	210	20,350	28,203	12.53
Joint filler	m2	24.31	2,431	5,776	0	5,776	60,474	26.88
Anchor bar,25mm	m	13.54	1,354	7,177	551	7,728	38,193	16.97
Perfor.cone pipe,150mm	m	7.23	723	42,039	1,016	43,055	59,323	26.37
Cone pipe,300mm	m	12.88	1,288	64,344	1,904	66,248	95,183	42.30
Graded crush subbase	m3	16.52	1,652	16,060	5,126	21,186	58,356	25.94
Steel pipe w/valve 100mm	kg	1.33	133	1,232	0	1,232	4,225	1.98
Steel handrail	kg	1.81	181	1,057	0	1,057	5,130	2.28
Steel ladder	kg	0.46	46	1,390	135	1,435	2,470	1.10

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work Item	Unit	FC,US\$	FC,J.Yen	LC,S/.	LC,Tax	LC,Total	Total,S/.	Equiv.US\$
Wire net fence	kg	0.86	86	935	102	1,037	2,972	1.32
Staff gauge	LS	1,300.50	130,050	292,610	0	292,610	3,218,735	1,430.55
<b>Severino Substation</b>								
Excav, common	m3	2.88	288	2,956	32	2,988	9,468	4.21
Excav, weather	m3	3.57	357	3,533	40	3,573	11,605	5.16
Excav, rock	m3	8.18	818	8,217	194	8,411	26,816	11.92
Trench excav	m3	2.76	276	2,913	29	2,942	9,152	4.07
Backfill	m3	2.92	292	2,975	26	3,001	9,571	4.25
Gravel bedding	m3	13.57	1,357	35,321	4,333	39,654	70,187	31.19
Gravel surfacing	m3	14.13	1,413	30,326	4,333	34,659	66,452	29.53
Conc E	m3	56.86	5,686	57,306	12,998	70,304	198,239	88.11
Conc F	m3	59.57	5,957	60,441	13,790	74,231	208,264	92.56
Conc G	m3	50.49	5,049	52,440	11,846	64,286	177,889	79.06
Conc H	m3	51.17	5,117	53,544	12,096	65,640	180,773	80.34
Form F1	m2	3.56	356	11,314	205	11,519	19,529	8.68
Form F1	m2	3.56	356	11,314	205	11,519	19,529	8.68
Form F2	m2	3.49	349	20,140	210	20,350	28,203	12.53
Embedded metal	kg	0.56	56	1,121	77	1,198	2,458	1.09
<b>Severino Open Channel</b>								
Excav common, channel	m3	2.54	254	2,607	28	2,635	8,350	3.71
Excav common, structure	m3	2.76	276	2,913	29	2,942	9,152	4.07
Excav weather, channel	m3	3.25	325	3,198	35	3,233	10,546	4.69
Excav weather, struct	m3	4.14	414	4,370	44	4,414	13,729	6.10
Excav rock, channel	m3	7.80	780	7,818	188	8,006	25,556	11.36
Excav rock, struct	m3	2.81	281	22,311	669	22,980	29,303	13.02
Trench excav	m3	2.76	276	2,913	29	2,942	9,152	4.07
Embank, channel	m3	3.23	323	2,896	30	2,926	10,194	4.53
Backfill	m3	2.92	292	2,975	26	3,001	9,571	4.25
Sand gravel bedding	m3	13.57	1,357	35,321	4,333	39,654	70,187	31.19
Gravel bedding	m3	13.57	1,357	35,321	4,333	39,654	70,187	31.19
Gabion mattress	m3	62.71	6,271	30,023	2,627	32,650	173,748	77.22
Conc A, bridge	m3	68.07	6,807	70,138	16,024	86,162	239,320	106.36
Conc A, blockout	m3	68.07	6,807	70,138	16,024	86,162	239,320	106.36
Conc B, syphon	m3	61.14	6,114	62,152	13,994	76,146	213,711	94.98
Conc B, valve box	m3	61.14	6,114	62,152	13,994	76,146	213,711	94.98
Conc E, transition	m3	57.77	5,777	58,246	13,008	71,254	201,237	89.44
Conc E, culvert	m3	57.77	5,777	58,246	13,008	71,254	201,237	89.44
Conc E, abutment	m3	57.77	5,777	58,246	13,008	71,254	201,237	89.44
Conc F, channel lining	m3	60.48	6,048	61,381	13,801	75,182	211,262	93.89
Conc F, drain ditch	m3	60.48	6,048	61,381	13,801	75,182	211,262	93.89
Conc G, foundation	m3	51.40	5,140	53,380	11,856	65,236	180,886	80.39
Conc H, levelling	m3	52.08	5,208	54,484	12,106	66,590	183,770	81.68
Form F1	m2	3.56	356	11,314	205	11,519	19,529	8.68
Form F1, channel	m2	3.56	356	11,314	205	11,519	19,529	8.68
Form F1	m2	3.56	356	11,314	205	11,519	19,529	8.68
Form F2	m2	4.37	437	15,231	102	15,333	25,166	11.18
Form F3	m2	4.08	408	25,378	290	25,668	34,848	15.49
Form F3, channel	m2	12.21	1,221	16,706	914	17,620	45,093	20.04

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1US\$=100Yen=225CS/.

work item	Unit	FC,US\$	FC,J.Yen	LC,S/.	LC,Tax	LC.Total	Total,S/.	Equiv,US\$
Form F3	m2	4.08	408	25,378	290	25,668	34,848	15.49
Reinforcing bar, channel	ton	357.97	35,797	943,005	111,023	1,054,028	1,859,461	826.43
Reinforcing bar	ton	357.97	35,797	943,005	111,023	1,054,028	1,859,461	826.43
Dowel bar, D16mm	ton	336.00	33,600	959,700	116,550	1,076,250	1,332,250	814.33
Dowel bar, D22mm	ton	336.00	33,600	959,700	116,550	1,076,250	1,332,250	814.33
Waterstop, 200mm, B	m	17.23	1,723	7,248	0	7,248	46,016	20.45
Waterstop, 150mm, C	m	13.63	1,363	5,843	0	5,843	37,511	16.67
Joint filler, 20mm	m2	24.31	2,431	5,776	0	5,776	60,474	26.88
Joint filler, 10mm	m2	12.15	1,215	4,408	0	4,408	31,746	14.11
PVC perforate pipe, D100mm	m	22.74	2,274	5,116	0	5,116	56,281	25.01
Prec conc pipe, 800mm	m	38.31	3,831	178,265	5,948	184,213	295,911	116.18
Prec conc pipe, 1000mm	m	47.58	4,758	219,340	8,070	224,410	331,465	147.32
Compact original ground	m2	0.17	17	163	1	164	547	0.24
Improve subgrade	m3	4.72	472	4,335	56	4,991	15,611	6.94
Subbase	m3	16.52	1,652	16,059	5,127	21,186	58,356	25.94
Steel drain, D200mm, valve	m3	1.43	143	599	0	599	3,817	1.70
Trashrack	kg	5.40	540	1,350	0	1,350	13,500	6.00
Steel handrail	kg	1.81	181	1,057	0	1,057	5,130	2.28
Wire net fence	kg	0.86	86	235	102	1,037	2,972	1.32
Bearing pad	no	262.42	26,242	59,044	0	59,044	649,489	288.66
Anchor rod	kg	0.37	37	1,056	128	1,184	2,917	0.90
La Esperanza-Poza Honda Tunnel								
Excav, common	m3	2.54	254	2,607	28	2,635	8,350	3.71
Excav weather	m3	3.25	325	3,198	35	3,233	10,546	4.69
Excav rock	m3	7.80	780	7,818	188	8,006	25,556	11.36
Excav tunnel	m3	43.08	4,308	44,693	454	45,147	142,983	63.15
Trench excav	m3	2.76	276	2,813	29	2,942	9,152	4.07
Backfill	m3	2.92	292	2,975	26	3,001	9,571	4.25
Babion mattress	m3	62.71	6,271	30,023	2,627	32,650	173,748	77.22
Conc B	m3	61.29	6,129	62,364	13,719	76,083	213,986	95.10
Conc D, tunnel lining	m3	63.33	6,333	63,785	13,366	77,151	240,629	106.95
Conc E, wall	m3	57.86	5,786	58,405	12,715	71,120	201,305	89.47
Conc F, drain ditch	m2	60.82	6,082	61,589	13,524	75,113	211,508	94.00
Conc H	m2	52.17	5,217	54,643	11,313	66,456	183,839	81.71
Form F1, wall	m2	3.56	356	11,311	235	11,546	19,529	8.68
Form F1, drain	m2	0.25	25	15,801	277	16,078	15,841	7.04
Form F3, wall	m2	4.08	408	25,379	290	25,669	34,849	15.49
Form F3, inlet	m2	4.08	408	25,379	290	25,669	34,849	15.49
Form F3, drain	m2	4.08	408	25,379	290	25,669	34,849	15.49
Form F4, lining	m2	21.38	2,138	5,033	47	5,080	54,535	24.24
Shotcrete, tunnel, Pack-2	m3	143.58	14,358	167,789	17,390	185,179	162,234	265.44
Waterstop, 200mm B	m	17.23	1,723	7,248	0	7,248	46,016	20.45
Anchor bar, D25mm	m	13.54	1,354	7,172	559	7,731	38,202	16.98
Dowel bar	m	336.00	33,600	959,700	116,550	1,076,250	1,332,250	814.33
Poza Honda-Mancha Grande Tunnel								
Excav, common	m3	2.12	212	2,169	22	2,191	6,352	3.09
Excav weather	m3	2.93	293	2,860	31	2,891	9,484	4.21
Excav rock	m3	7.80	780	7,818	188	8,006	25,556	11.36

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Work Item	Unit	PC, US\$	PC, J. Yen	SC, S/.	LC, Tax	LC, Total	Total, S/.	Equip. US\$
Excav tunnel	m3	50.96	5,096	53,407	515	53,922	168,562	74.33
Trench excav	m3	2.73	273	2,913	29	2,942	2,152	4.97
Backfill	m3	2.92	292	2,975	26	3,001	9,571	4.25
Gravel surfacing	m3	14.13	1,413	30,326	4,333	34,659	66,452	29.53
Gravel bedding	m3	10.57	1,057	35,321	4,333	39,654	70,187	31.13
Contact grouting	kg	0.43	43	291	63	354	1,322	0.59
Ø40mm steel pipe for plug	kg	2.06	206	386	0	386	5,321	2.23
Ø25mm steel pipe for plug	kg	2.16	216	446	0	446	5,305	2.56
Shotcrete, tunnel, Pack-2	m3	149.58	14,958	107,789	17,890	125,679	462,234	235.44
Conc A, blockout	m3	72.46	7,246	74,839	15,329	90,168	233,248	112.55
Conc C, inlet	m3	63.60	6,360	64,571	12,727	77,298	220,398	97.35
Conc D, inlet	m3	64.28	6,428	65,359	12,927	78,286	222,916	99.37
Conc D, lining	m3	76.56	7,656	75,195	12,880	88,075	260,335	115.70
Conc E, 10cm	m3	62.07	6,207	62,538	12,778	75,316	215,274	95.58
Conc E, 1cm	m3	53.41	5,341	53,911	12,181	66,092	186,265	82.78
Conc F, drain, 10cm	m3	64.86	6,486	66,048	13,093	79,141	225,076	100.03
Conc F, drain, 1cm	m3	58.19	5,819	57,121	12,398	70,119	196,547	87.35
Conc G, anchor, inlet	m3	55.66	5,566	57,951	11,117	69,068	194,346	86.38
Conc H, 10cm	m3	56.38	5,638	59,076	11,375	70,453	197,308	87.69
Conc H, 1cm	m3	47.72	4,772	50,152	11,279	61,431	168,891	75.02
Form F1, inlet, wall	m2	3.56	356	11,314	205	11,519	19,529	8.66
Form F1, drain	m2	0.25	25	15,001	277	15,278	15,841	7.04
Form F1, anchor, block	m2	0.25	25	15,001	277	15,278	15,841	7.34
Form F2, inlet, wall	m2	3.49	349	20,140	210	20,350	28,203	12.53
Form F3, inlet, wall	m2	4.08	408	25,379	290	25,669	34,849	15.49
Form F3, drain	m2	4.08	408	25,379	290	25,669	34,849	15.49
Form F4, lining	m2	25.09	2,509	5,523	66	5,589	62,042	27.57
Embedded metal	kg	4.08	408	25,379	290	25,669	34,849	15.49
Steel pipe handrail	kg	0.55	55	1,121	77	1,198	2,436	1.08
Steel ladder	kg	1.91	181	1,057	0	1,057	5,130	2.23
Steel step	kg	0.46	46	1,300	135	1,435	2,470	1.10
Steel pipe, water level	kg	0.65	65	408	7	415	1,578	0.83
Grating, hatch cover	kg	1.48	148	278	1	279	3,609	1.60
wire net fence	kg	3.61	361	813	0	813	8,336	3.97
(Building work)								
Conc C	m3	63.60	6,360	64,571	12,727	77,298	220,398	97.35
Conc H	m3	56.38	5,638	59,076	11,375	70,453	197,308	87.69
Form F1	m2	4.68	468	40,074	1,339	42,073	52,603	23.38
Form F2	m2	4.68	468	40,074	1,339	42,073	52,603	23.38
Reinforcing bar	ton	357.97	35,797	243,005	111,023	1,054,028	1,959,461	826.43
Hollow conc masonry, 100mm	m2	0.00	0	16,205	0	16,205	16,205	7.20
3-ply asph roofing	m2	20.00	2,000	45,000	0	45,000	90,000	40.00
Mortar plaster	m2	0.00	0	41,197	0	41,197	41,197	18.31
Base plaster	m2	0.00	0	4,669	0	4,669	4,669	2.08
Plaster, skirting 100mm	m	0.00	0	467	0	467	467	0.21
Plaster, skirting 200mm	m	0.00	0	334	0	334	334	0.42
Plaster, interior wall	m2	0.00	0	41,240	0	41,240	41,240	18.33
Waterproof plaster	m2	0.00	0	65,488	0	65,488	65,488	29.11
Waterproof plaster, parap	m2	0.00	0	271,295	0	271,295	271,295	120.58

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Work Item	Unit	FC, US\$	FC, J. Yen	LC, S/.	LC, Tax	LC, Total	Total, S/.	Equip. J\$S
Conc trowel finish	m2	0.00	0	14,008	0	14,008	14,008	6.23
Mortar border, 100x20	m	0.00	0	467	0	467	467	0.21
Spray tile	m2	0.00	0	2,419	0	2,419	2,419	1.08
Oil paint	m2	0.00	0	3,052	0	3,052	3,052	1.26
Steel door	m2	0.00	0	412,266	0	412,266	412,266	183.23
Alumi window	m2	0.00	0	104,028	0	104,028	104,028	46.23
Alumi louver	m2	0.00	0	96,900	0	96,900	96,900	43.07
Wired sheet glass, 6.8mm (Ventilation)	m2	41.06	4,106	9,238	0	9,238	101,623	45.17
Multi fan, 15480CMH	no	1,375.00	0	210,338	0	210,338	4,429,686	1,368.75
Intake louver, 1200x1500	no	812.50	0	91,406	0	91,406	1,219,531	559.12
Ventilating resistor								
UR-VHS, 400x200	no	42.59	0	4,781	0	4,781	100,406	44.62
UR-VHS, 800x150	no	25.00	0	2,813	0	2,813	59,063	26.25
UR-VHS, 200x150	no	25.00	0	2,813	0	2,813	59,063	26.25
Venti zinc plate (Electrical work)	kg	0.00	0	6,500	0	6,500	6,500	2.89
AC panel	set	0.00	0	241,259	0	241,259	241,259	107.22
Type A	set	401.25	40,125	20,281	0	90,361	993,994	441.37
Type B-1	set	334.38	30,438	75,235	0	75,235	827,590	367.82
Type B-2	set	267.50	26,750	60,198	0	60,198	662,973	294.25
Type F	set	209.83	20,983	45,142	0	45,142	496,560	220.69
Outlet	set	0.00	0	13,725	0	13,725	13,725	6.10
Toggle switch	set	0.00	0	11,363	0	11,363	11,363	5.05
Safety fuse	set	29.06	2,906	9,027	0	9,027	54,162	24.07
Conduit pipe, D16	m	2.14	214	4,815	0	4,815	9,630	4.28
Conduit pipe, D22	m	2.73	273	6,975	0	6,975	12,150	5.40
NV wire, 2mm2	m	0.00	0	1,120	0	1,120	1,120	0.50
NV wire, 3.5mm2	m	0.00	0	1,488	0	1,488	1,488	0.66
CV cable, 3c, 8mm2	m	1.95	198	891	0	891	5,346	2.38
Copper conductor, 50mm2	m	2.98	298	1,341	0	1,341	6,046	3.58
Copper plate, 1x1x3mm	no	169.26	18,926	85,167	0	85,167	511,062	237.11
Excav common	m3	2.76	276	2,913	29	2,942	9,152	4.37
Random backfill	m3	3.09	309	3,090	26	3,116	10,069	4.47
Trash boom	m	684.33	68,433	153,974	0	153,974	1,693,717	752.76
Staff gauge	LS	1,200.50	120,050	540,240	0	540,240	3,241,365	1,440.61
La Saca Work Adit								
Excav common	m3	2.54	254	2,637	28	2,665	8,350	3.71
Excav weather	m3	3.25	325	3,198	35	3,233	10,546	4.69
Excav rock	m3	7.80	780	7,318	183	8,006	25,556	11.36
Excav tunnel	m3	28.64	2,864	80,280	2,925	83,205	147,645	65.62
Trench excav	m3	2.76	276	2,913	29	2,942	9,152	4.07
Backfill	m3	2.92	292	2,975	26	3,001	9,571	4.25
Wet rubble masonry	m3	56.52	5,652	110,461	15,846	126,167	253,277	112.57
Conc D, lining	m3	71.18	7,118	71,360	13,386	84,746	244,901	108.84
Conc E, wall	m3	57.86	5,786	58,465	12,715	71,123	201,305	89.47
Conc F, drain	m3	60.62	6,062	61,539	13,524	75,113	211,568	94.00
Conc H, levelling	m3	52.17	5,217	54,645	11,813	66,458	183,839	81.71
Gravel surfacing	m3	14.13	1,413	30,326	4,333	34,659	66,452	29.53
Gravel bedding	m3	13.57	1,357	35,321	4,333	39,654	70,187	31.19

## Unit Price List, Package 2

August 1994  
US\$=100Yen=2250S/.

Work Item	Unit	FC, US\$	FC, J. Yen	LC, S/.	LC, Tax	LC, Total	Total, S/.	Equiv. US\$
Form F1, wall	m2	3.56	356	11,314	235	11,519	19,529	8.68
Form F1, drain	m2	0.25	25	15,001	277	15,278	15,841	7.04
Form F2, wall	m2	3.49	349	20,140	211	20,351	28,204	12.53
Form F3, drain	m2	4.08	408	25,379	290	25,669	34,849	15.49
Form F3, tunnel lining	m2	14.95	1,495	12,268	82	12,350	45,968	20.44
Reinforcing bar	ton	357.97	35,797	943,005	111,023	1,054,028	1,859,461	826.43
Anchor bar	m	13.54	1,354	7,177	559	7,736	38,201	16.98
PVC 50mm	m	4.17	417	1,277	0	1,277	10,660	4.74
<b>Los Cuyuyes Work Adit</b>								
Excav common	m3	2.54	254	2,607	28	2,635	8,350	3.71
Excav weather	m3	3.25	325	3,198	35	3,233	10,546	4.69
Excav rock	m3	7.80	780	7,818	188	8,006	25,556	11.36
Excav tunnel	m3	25.64	2,564	75,266	2,876	78,142	135,832	60.37
Trench excav	m3	2.76	276	2,913	29	2,942	9,152	4.07
Backfill	m3	2.92	292	2,975	26	3,001	9,571	4.25
Cone D, lining	m3	70.02	7,002	69,844	13,362	83,206	240,751	107.00
Cone E, wall	m3	56.82	5,682	57,330	12,704	70,034	197,379	87.95
Cone F, drain	m3	59.58	5,958	60,514	13,512	74,026	208,081	92.48
Cone H, levelling	m3	51.13	5,113	53,567	11,802	65,369	180,412	80.18
<b>Poza Honda Work Adit</b>								
Excav common	m3	2.54	254	2,607	28	2,635	8,350	3.71
Excav weather	m3	3.25	325	3,198	35	3,233	10,546	4.69
Excav rock	m3	7.80	780	7,818	188	8,006	25,556	11.36
Excav tunnel	m3	26.07	2,607	76,250	2,887	79,137	137,735	61.24
Trench excav	m3	2.76	276	2,913	29	2,942	9,152	4.07
Backfill	m3	2.92	292	2,975	26	3,001	9,571	4.25
Cone D, lining	m3	81.49	8,149	80,438	12,932	93,370	276,723	122.99
Cone E, wall	m3	62.07	6,207	62,638	12,778	75,416	215,274	95.68
Cone F, drain	m3	64.86	6,486	66,948	13,993	79,141	225,076	100.03
Cone H, levelling	m3	56.38	5,638	59,078	11,375	70,453	197,308	87.69
<b>Severino Access Road</b>								
Excav common/weather	m3	2.57	257	2,559	27	2,586	8,369	3.72
Excav rock	m3	7.42	742	7,424	183	7,607	24,302	10.80
Embank, 500m	m3	3.08	308	2,737	27	2,764	9,694	4.31
Embank, more than 500m	m3	3.53	353	3,208	34	3,242	11,185	4.97
Compact ground	m2	0.17	17	163	1	164	547	0.24
Sod facing	m2	0.03	3	4,622	0	4,622	4,690	2.08
Gabion	m3	62.71	6,271	36,023	2,627	32,650	173,748	77.22
Excav all, structure	m3	2.76	276	2,913	29	2,942	9,152	4.07
Backfill	m3	2.92	292	2,975	26	3,001	9,571	4.25
Free drain backfill	m3	14.34	1,434	21,533	4,333	25,866	58,131	25.84
Gravel bedding	m3	13.57	1,357	35,321	4,333	39,654	70,187	31.19
Crushed stone bed	m3	14.34	1,434	21,533	4,333	25,866	58,131	25.84
RC pipe, 600mm	m	25.15	2,515	125,884	3,798	129,682	186,270	82.79
RC pipe, 800mm	m	36.31	3,631	178,265	5,248	184,213	265,911	118.18
RC pipe, 1000mm	m	47.53	4,753	216,340	8,070	224,410	331,465	147.32
Perfo. pipe, 300mm	m	9.15	915	53,321	1,298	51,509	72,097	32.04

## Unit Price List, Package 2

August 1994

IUS\$=100Yen=2250S/.

Work Item	Unit	FC,US\$	FC,J.Yen	LC,S/.	LC,Tax	LC>Total	Total,S/.	Equiv.US\$
Free drain mat'l subdrain.	m3	14.34	1,434	21,533	4,333	25,866	58,131	25.84
Cone E.pipe wing wall	m3	57.77	5,777	58,246	13,008	71,254	201,237	89.44
Cone P.side ditch	m3	60.48	6,048	61,381	13,801	75,182	211,262	93.89
Cone H.levelling	m3	52.08	5,208	54,484	12,106	66,590	183,770	81.68
Form F1	m2	3.55	356	11,314	205	11,519	19,529	8.68
Form F3	m2	3.49	349	20,139	211	20,350	28,203	12.53
Reinforcing bar	ton	357.97	35,797	943,985	111,023	1,054,028	1,859,461	826.43
Gabion mattress	m3	62.71	6,271	39,023	2,527	32,650	173,748	77.22
Joint filler,10mm	m2	12.15	1,215	4,408	0	4,408	31,746	14.11
Bitumen coating	m2	0.03	3	3,945	41	3,986	4,054	1.80
Cone A,bridge	m3	68.07	6,807	70,138	16,024	86,162	239,320	106.36
Cone B,abutment	m3	57.77	5,777	58,246	13,008	71,254	201,237	89.44
Cone E,box culvert	m3	57.77	5,777	58,246	13,008	71,254	201,237	89.44
Cone H	m3	52.08	5,208	54,484	12,106	66,590	183,770	81.68
Rubble conc	m3	37.26	3,726	37,290	9,197	46,397	130,232	57.88
Form F1	m2	3.55	356	11,314	205	11,519	19,529	8.68
Form F2	m2	4.37	437	15,230	102	15,332	25,165	11.18
Form F3	m2	3.49	349	20,139	211	20,350	28,203	12.53
Joint filler,20mm	m2	24.31	2,431	5,776	0	5,776	60,474	26.88
Improve subgrade	m3	4.72	472	4,935	56	4,991	15,611	6.94
Subbase	m3	16.52	1,652	16,060	5,126	21,186	58,358	25.94
Trans.improve subgrade	m3	0.47	47	493	6	499	1,557	0.69
Guardrail	m	73.56	7,356	33,103	0	33,103	198,613	88.27
Warning sign	no	120.38	12,038	54,169	0	54,169	325,024	144.46
Bearing pad, fixed	no	262.42	26,242	59,044	0	59,044	649,489	288.66
Bearing pad, movable	no	262.42	26,242	59,044	0	59,044	649,489	288.66
Steel handrail	kg	1.81	181	1,057	0	1,057	5,130	2.28
PVC drain,100mm	m	12.00	1,200	2,164	0	2,164	29,239	13.02
PVC weephole,75mm	m	8.16	816	1,726	0	1,726	20,086	8.93
Dowel bar,322mm	ton	336.00	33,600	959,760	116,550	1,076,250	1,832,250	814.33
Anchor rod	kg	0.37	37	1,056	128	1,184	2,017	0.90
Cana Dulce Access Road								
Excav common/weather	m3	2.57	257	2,559	27	2,586	8,369	3.72
Excav rock	m3	7.42	742	7,424	183	7,607	24,302	10.80
Embank,500m	m3	3.08	308	2,737	27	2,764	9,694	4.31
Embank,more than 500m	m3	3.23	323	2,896	30	2,926	10,194	4.53
La Seca Access Road								
Excav common/weather	m3	2.57	257	2,559	27	2,586	8,369	3.72
Excav rock	m3	7.42	742	7,424	183	7,607	24,302	10.80
Embank,500m	m3	3.08	308	2,737	27	2,764	9,694	4.31
Embank,more than 500m	m3	3.23	323	2,896	30	2,926	10,194	4.53
Concrete,A	m3	57.16	6,716	69,263	15,734	84,997	236,107	104.94
Concrete,B	m3	56.82	5,682	57,330	12,704	70,034	197,879	87.95
Concrete,F	m3	59.58	5,958	60,514	13,512	74,026	208,681	92.48
Concrete,H	m3	51.13	5,113	53,567	11,302	65,369	180,412	80.18
Rubble concrete	m3	36.79	3,679	36,742	9,044	45,786	128,564	57.14

## Unit Price List..Package 2

August 1994  
1US\$=100Yen=225CS/.

Work Item	Unit	PC,US\$	PC,J.Yen	LC,S/.	LC,Tax	LC>Total	Total,S/.	Equiv.US\$
<b>Los Cuyuyes Access Road</b>								
Excav common/weather	m3	2.57	257	2,559	27	2,586	8,369	3.72
Excav rock	m3	7.42	742	7,424	183	7,607	24,302	10.80
Embank,500m	m3	3.06	306	2,737	27	2,764	9,694	4.31
Embank,more than 500m	m3	3.23	323	2,896	30	2,926	10,194	4.53
<b>Poza Honda Access Road</b>								
Excav common/weather	m3	2.57	257	2,559	27	2,586	8,369	3.72
Excav rock	m3	7.42	742	7,424	183	7,607	24,302	10.80
Embank,500m	m3	3.06	306	2,737	27	2,764	9,694	4.31
Embank,more than 500m	m3	3.23	323	2,896	30	2,926	10,194	4.53





E EARTHWORK (1)



Work	Unit	** FC ** (Yen)	LC (S/. )	Duty, Ta (S/. )	** LC ** (S/. )	**Total** (S/. )	Total (US\$)
Excavation, common, 500m	m3	205.42	2095.80	21.26	2117.06	6739.01	3.00
Excavation, common, 1000m	m3	221.70	2266.24	23.50	2289.74	7277.99	3.23
Excavation, common, 2000m	m3	254.21	2606.86	27.98	2634.84	8354.57	3.71
Excavation, common, 3000m	m3	287.53	2955.86	32.57	2988.43	9457.86	4.20
Excavation, common, 4000m	m3	320.48	3299.42	37.11	3336.53	10547.33	4.69
Excavation, common, 5000m	m3	352.19	3633.14	41.48	3674.62	11598.90	5.16
Excavation, common, 6000m	m3	384.71	3973.78	45.97	4019.75	12675.73	5.63
Excavation, common, 7000m	m3	417.11	4313.12	50.43	4363.55	13748.53	6.11
Excav, mudstone, weather, 500m	m3	275.49	2680.92	28.23	2709.15	8907.66	3.96
Excav, mudstone, weather, 1000m	m3	292.02	2854.01	30.51	2884.52	9454.97	4.20
Excav, mudstone, weather, 2000m	m3	324.90	3198.39	35.04	3233.43	10543.68	4.69
Excav, mudstone, weather, 3000m	m3	356.88	3533.45	39.45	3572.90	11602.70	5.16
Excav, mudstone, weather, 4000m	m3	389.48	3874.85	43.94	3918.79	12682.09	5.64
Excav, mudstone, weather, 5000m	m3	422.57	4221.45	48.50	4269.95	13777.78	6.12
Excav, mudstone, weather, 6000m	m3	455.65	4568.02	53.06	4621.08	14873.21	6.61
Excav, mudstone, weather, 7000m	m3	487.42	4900.74	57.44	4958.18	15925.13	7.08
Exc, mudstone, soft rock, 500m	m3	268.86	2592.70	28.88	2621.58	8670.93	3.85
Exc, mudstone, soft rock, 1000m	m3	287.69	2789.87	31.47	2821.34	9294.37	4.13
Exc, mudstone, soft rock, 2000m	m3	325.51	3183.64	36.37	3220.01	10543.99	4.69
Exc, mudstone, soft rock, 3000m	m3	363.39	3582.84	41.91	3624.75	11801.03	5.24
Tunnel soft rock, disp. 500m	m3	228.38	2532.68	24.86	2557.54	7696.09	3.42
Tunnel soft rock, disp. 1000m	m3	248.23	2743.52	27.45	2770.97	8356.15	3.71
Tunnel soft rock, disp. 2000m	m3	286.50	3150.08	32.44	3182.52	9628.77	4.28
Tunnel soft rock, disp. 3000m	m3	325.44	3563.66	37.52	3601.18	10923.58	4.85
Tunnel soft rock, disp. 4000m	m3	366.77	4002.71	42.92	4045.63	12297.96	5.47
Tunnel soft rock, disp. 5000m	m3	406.42	4423.90	48.09	4471.99	13616.44	6.05
Emb, mudstone, weath(C), 500m	m3	228.30	2188.63	22.79	2211.42	7348.17	3.27
Emb, mudstone, weath(C), 1000m	m3	243.21	2347.83	25.25	2373.08	7845.31	3.49
Emb, mudstone, weath(C), 2000m	m3	272.94	2659.23	29.34	2688.57	8829.72	3.92
Emb, mudstone, weath(C), 3000m	m3	302.49	2968.81	33.42	3002.23	9808.26	4.36
Emb, mudstone, weath(C), 4000m	m3	332.80	3286.28	37.59	3323.87	10811.87	4.81
Emb, mudstone, weath(C), 5000m	m3	362.08	3592.96	41.63	3634.59	11781.39	5.24
Emb, mudstone, weath(C), 6000m	m3	390.99	3895.79	45.61	3941.40	12738.68	5.66
Emb, mudstone, weath(C), 7000m	m3	420.31	4202.97	49.66	4252.63	13709.61	6.09
Exc, mudstone, soft rock, 4000m	m3	401.66	3983.68	47.18	4030.86	13068.21	5.81
Exc, mudstone, soft rock, 5000m	m3	441.20	4397.88	52.63	4450.51	14377.51	6.33
***Blasting+Hauling+ripping(1no.)***							
Exc, mudstone, soft rock, 500m	m3	723.54	7226.86	180.60	7407.46	23687.11	10.53
Exc, mudstone, soft rock, 1000m	m3	742.37	7424.03	183.19	7607.22	24310.55	10.80
Exc, mudstone, soft rock, 2000m	m3	780.19	7817.80	188.09	8005.89	25560.17	11.36
Exc, mudstone, soft rock, 3000m	m3	818.07	8217.00	193.63	8410.63	26817.21	11.92
Exc, mudstone, soft rock, 4000m	m3	856.34	8617.84	198.90	8816.74	28084.39	12.48
Exc, mudstone, soft rock, 5000m	m3	895.88	9032.04	204.35	9236.39	29393.69	13.06
Mud stone blasting	m3	366.34	4085.28	146.73	4232.00	12924.62	5.74
Explosive 50% decrease							
Consumable 50% decrease							

Work	Unit	** FC ** (Yen)	LC (S/.)	Duty, Tax (S/.)	** LC ** (S/.)	**Total** (S/.)	Total (US\$)
Mud stone, ripping only 1-shank	m3	68.34	548.88	4.99	553.87	2091.52	0.93
Embankment, mudstone, 20t tamp Embank(C)	m3	79.63	548.56	4.51	553.07	2344.75	1.04
500m	m3	307.93	2737.19	27.30	2764.49	9692.92	4.31
1000m	m3	322.84	2896.39	29.76	2926.15	10190.05	4.53
2000m	m3	352.57	3207.79	33.85	3241.64	11174.47	4.97
5000m	m3	441.71	4141.52	46.14	4187.66	14126.14	6.28
3000m	m3	382.12	3517.37	37.93	3555.30	12153.00	5.40
Backfill, 500m Embank(C), 4t vib. roller	m3	64.05	786.85	3.16	790.01	2231.14	0.99
500m haul, mudstone	m3	228.30	2188.63	22.79	2211.42	7348.17	3.27
Total	m3	292.35	2975.48	25.95	3001.43	9579.31	4.26
Poza Honda combined							
Common, 2000m, inlet, 12.5%	m3	254.21	2606.86	27.98			
Common, 500m, outlet, 87.5%	m3	205.42	2095.80	21.26			
Unit price	m3	211.52	2159.68	22.10	2181.78	6940.98	3.08
Weather, inlet, 34.6%	m3	324.90	3198.39	35.04			
Weather, outlet, 65.4%	m3	275.49	2690.92	28.25			
Unit price	m3	292.59	2859.96	30.59	2890.55	9473.83	4.21

		*FC, Yen*	LC, S/.	Tax, S/.	*LC, S/.*	Total, S/.	Total, US\$
Backfill, 30cm	m3	64.05	786.85	3.16	790.01	2231.14	0.99
Emb, mudstone, tamp 20t	m3	79.63	548.56	4.51	553.07	2344.75	1.04

		*FC, Yen*	LC, S/.	Tax, S/.	*LC, S/.*	Total, S/.	Total, US\$
**Chone Portoviejo** Fukashi Happa, Mud stone (plus rock dozing, or ripping)	m3	386.34	4085.28	146.73	4232.01	12924.66	5.74

Item No.

Work: Excavation, open, common (Hauling to spoil bank)

Remarks: 1000m<sup>3</sup>, 500m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	nd	1.703	0.00	0.00	20600.00	35081.80	0.00	0.00
Operator	nd	4.257	0.00	0.00	25600.00	108979.20	0.00	0.00
Assist operator	nd	4.257	0.00	0.00	17900.00	76200.30	0.00	0.00
Driver	nd	5.077	0.00	0.00	18100.00	91893.70	0.00	0.00
Common labor	nd	6.796	0.00	0.00	17300.00	117570.80	0.00	0.00
Subtotal				0.00		429725.80		0.00
<b>Material cost</b>								
Light oil	lit	1076.716	4.00	4306.86	353.00	380080.75	1.00	1076.72
Lubricant	lit	29.372	44.00	1292.37	4150.00	121893.80	500.00	14686.00
Grease	kg	1.151	58.00	66.76	5395.00	6209.65	650.00	748.15
Miscellaneous(3%)				169.98		15245.53		495.33
Subtotal				5835.97		523429.72		17006.19
<b>Equipment cost</b>								
Bulldozer, 21t	hr	7.874	4510.00	35511.74	21440.00	168818.56	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	14.085	3578.00	50396.13	17010.00	239585.85	0.00	0.00
Dump truck, 11t	hr	33.003	1616.00	53332.85	6816.00	224948.45	0.00	0.00
Bulldozer, 11t	hr	5.714	2050.00	11713.70	9745.00	55682.93	0.00	0.00
Miscellaneous(5%)				7547.72		34451.79		0.00
Subtotal				158502.14		723487.58		0.00
Overhead(25%)				41084.53		419160.77		4251.55
Total				205422.64		2095803.87		21257.74
Unit price(m <sup>3</sup> )				205.42		2095.80		21.26

Item No.

Work: Excavation, open, common (Hauling to spoil bank)

Remarks: 1000m<sup>3</sup>, 1000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	nd	1.703	0.00	0.00	20600.00	35081.80	0.00	0.00
Operator	nd	4.257	0.00	0.00	25600.00	108979.20	0.00	0.00
Assist operator	nd	4.257	0.00	0.00	17900.00	76209.30	0.00	0.00
Driver	nd	6.203	0.00	0.00	18100.00	112274.30	0.00	0.00
Common labor	nd	7.358	0.00	0.00	17300.00	127293.40	0.00	0.00
Subtotal				0.00		459829.00		0.00
<b>Material cost</b>								
Light oil	lit	1186.591	4.00	4746.00	353.00	418834.85	1.00	1166.50
Lubricant	lit	32.446	44.00	1427.62	4150.00	134650.90	500.00	16223.00
Grease	kg	1.297	58.00	75.23	5395.00	6997.32	650.00	843.05
Miscellaneous(3%)				187.47		16814.49		547.58
Subtotal				6436.32		577297.56		18800.13
<b>Equipment cost</b>								
Bulldozer, 21t	hr	7.874	4510.00	35511.74	21440.00	168818.56	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	14.085	3578.00	50396.13	17010.00	239585.85	0.00	0.00
Dump truck, 11t	hr	40.322	1616.00	65160.35	6816.00	274834.75	0.00	0.00
Bulldozer, 11t	hr	5.714	2050.00	11713.70	9745.00	55682.93	0.00	0.00
Miscellaneous(5%)				8139.10		36946.10		0.00
Subtotal				170921.02		775868.20		0.00
Overhead(25%)				44339.33		453248.69		4700.03
Total				221656.67		2266243.45		23500.16
Unit price(m <sup>3</sup> )				221.70		2266.24		23.50

Item No.

Work: Excavation, open, common (Hauling to spoil bank)

Remarks: 1000m<sup>3</sup>, 2000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	1.703	0.00	0.00	20600.00	35031.80	0.00	0.00
Operator	md	4.257	0.00	0.00	25600.00	108979.20	0.00	0.00
Assist operator	md	4.257	0.00	0.00	17900.00	76200.30	0.00	0.00
Driver	md	8.453	0.00	0.00	18100.00	152999.30	0.00	0.00
Common labor	md	8.484	0.00	0.00	17300.00	145773.20	0.00	0.00
Subtotal				0.00		520033.80		0.00
<b>Material cost</b>								
Light oil	lit	1405.846	4.00	5623.38	353.00	496263.64	1.00	1405.85
Lubricant	lit	38.588	44.00	1697.87	4150.00	160140.20	500.00	19294.00
Grease	kg	1.590	58.00	92.22	5395.00	8578.05	650.00	1033.50
Miscellaneous(3%)				222.40		19949.46		652.00
Subtotal				7635.88		684931.34		22385.35
<b>Equipment cost</b>								
Bulldozer, 2lt	hr	7.874	4510.00	35511.74	21449.00	168818.56	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	14.085	3578.00	50396.13	17010.00	239585.85	0.00	0.00
Dump truck, 1lt	hr	54.945	1616.00	88791.12	6815.00	374505.12	0.00	0.00
Bulldozer, 1lt	hr	5.714	2050.00	11713.70	9745.00	55682.93	0.00	0.00
Miscellaneous(5%)				9320.63		41929.62		0.00
Subtotal				195733.32		880522.08		0.00
Overhead(25%)				50842.30		521371.81		5596.34
Total				254211.51		2606859.03		27981.68
Unit price(m <sup>3</sup> )				254.21		2606.86		27.98



Item No.

Work: Excavation, open, common (hauling to spoil bank)

Remarks: 100Gm3, 3900m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	nd	1.703	0.00	0.00	20600.00	35081.80	0.00	0.00
Operator	nd	4.257	0.00	0.00	25600.00	108979.20	0.00	0.00
Assist operator	nd	4.257	0.00	0.00	17900.00	76200.39	0.00	0.00
Driver	nd	10.758	0.00	0.00	18100.00	194719.89	0.00	0.00
Common labor	nd	9.636	0.00	0.00	17300.00	166702.80	0.00	0.00
Subtotal				0.00		581683.99		0.00
<b>Material cost</b>								
Light oil	lit	1630.636	4.00	6522.54	353.00	575614.51	1.00	1630.64
Lubricant	lit	44.882	44.00	1974.81	4150.00	186260.30	500.00	22441.00
Grease	kg	1.890	58.00	109.62	5395.00	10196.55	650.00	1228.50
Miscellaneous(3%)				258.21		23182.14		759.00
Subtotal				8865.18		795233.50		26059.14
<b>Equipment cost</b>								
Bulldozer, 2lt	hr	7.874	4510.00	35511.74	21440.00	168818.56	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	14.085	3578.00	50396.13	17010.00	239585.85	0.00	0.00
Dump truck, 1lt	hr	69.931	1616.00	113008.50	6816.00	476649.70	0.00	0.00
Bulldozer, 1lt	hr	5.714	2050.00	11713.73	9745.00	55682.93	0.00	0.00
Miscellaneous(5%)				10531.50		47036.85		0.00
Subtotal				221161.57		987773.89		0.00
Overhead(25%)				57506.69		591172.82		6514.79
Total				287533.44		2955864.11		32573.93
Unit price(a3)				287.53		2955.86		32.57

Item No.

Work:Excavation,open,common(Hauling to spoil bank)

Remarks:1000m3,4000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	1.703	0.00	0.00	20600.00	35081.80	0.00	0.00
Operator	md	4.257	0.00	0.00	25600.00	108979.20	0.00	0.00
Assist operator	md	4.257	0.00	0.00	17900.00	76209.30	0.00	0.00
Driver	md	13.038	0.00	0.00	18100.00	235987.80	0.00	0.00
Common labor	md	10.706	0.00	0.00	17300.00	185213.80	0.00	0.00
Subtotal				0.00		641462.90		0.00
<b>Material cost</b>								
Light oil	lit	1852.861	4.00	7411.44	353.00	654059.93	1.00	1852.86
Lubricant	lit	51.104	44.00	2248.58	4150.00	212081.60	500.00	25552.00
Grease	kg	2.186	58.00	126.79	5395.00	11793.47	653.00	1420.90
Miscellaneous(3%)				293.60		26338.05		864.77
Subtotal				10080.41		904273.05		29690.53
<b>Equipment cost</b>								
Bulldozer,21t	hr	7.874	4510.00	35511.74	21440.00	168818.56	3.00	0.00
Tractor shovel,2.2m3	hr	14.085	3578.00	50396.13	17010.00	239585.85	0.00	0.00
Dump truck,11t	hr	84.746	1616.00	136949.54	6816.00	577628.74	0.00	0.00
Bulldozer,11t	hr	5.714	2350.00	11713.70	9745.00	55682.93	0.00	0.00
Miscellaneous(5%)				11728.56		52085.80		0.00
Subtotal				246299.66		1093801.88		0.00
Overhead(25%)				64095.02		659884.46		7422.63
Total				320475.09		3299422.29		37113.17
Unit price(m3)				320.48		3299.42		37.11

Item No.

Work: Excavation, open, common (Hauling to spoil bank)

Remarks: 1000m<sup>3</sup>, 5000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	nd	1.703	0.00	0.00	20600.00	35081.80	0.00	0.00
Operator	nd	4.257	0.00	0.00	25600.00	108979.20	0.00	0.00
Assist operator	nd	4.257	0.00	0.00	17900.00	76200.30	0.00	0.00
Driver	nd	15.232	0.00	0.00	18100.00	275699.20	0.00	0.00
Common labor	nd	11.873	0.00	0.00	17300.00	205492.90	0.00	0.00
Subtotal				0.00		701363.40		0.00
<b>Material cost</b>								
Light oil	lit	2066.821	4.00	8267.28	353.00	729587.81	1.00	2066.82
Lubricant	lit	57.095	44.00	2512.18	4150.00	236944.25	500.00	28547.50
Grease	kg	2.471	58.00	143.32	5395.00	13331.05	650.00	1606.15
Miscellaneous(3%)				327.68		29395.89		966.61
Subtotal				11250.47		1009259.00		33187.09
<b>Equipment cost</b>								
Bulldozer, 21t	hr	7.874	4510.00	35511.74	21440.00	168818.56	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	14.085	3578.00	50396.13	17010.00	239585.85	0.00	0.00
Dump truck, 11t	hr	99.010	1616.00	160000.16	6816.00	674852.16	0.00	0.00
Bulldozer, 11t	hr	5.714	2050.00	11713.70	9745.00	55682.93	0.00	0.00
Miscellaneous(5%)				12881.09		56946.98		0.00
Subtotal				270502.82		1195886.48		0.00
Overhead(25%)				70438.32		726627.22		8296.77
<b>Total</b>				<b>352191.60</b>		<b>3633136.10</b>		<b>41483.86</b>
Unit price(m <sup>3</sup> )				352.19		3633.14		41.48

Item No.

Work: Excavation, open, common (Hauling to spoil bank)

Remarks: 1000m<sup>3</sup>, 6600m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	1.703	0.00	0.00	20600.00	35081.80	0.00	0.00
Operator	md	4.257	0.00	0.00	25600.00	108979.20	0.00	0.00
Assist operator	md	4.257	0.00	0.00	17900.00	76200.30	0.00	0.00
Driver	md	17.482	0.00	0.00	18100.00	316424.20	0.00	0.00
Common labor	md	12.998	0.00	0.00	17300.00	224865.40	0.00	0.00
Subtotal				0.00		761550.90		0.00
<b>Material cost</b>								
Light oil	lit	2286.211	4.00	9144.84	353.00	807032.48	1.00	2286.21
Lubricant	lit	63.238	44.00	2782.47	4150.00	262437.70	500.00	31619.09
Grease	kg	2.764	58.00	160.31	5395.00	14911.78	650.00	1796.60
Miscellaneous(3%)				362.63		32531.46		1071.05
Subtotal				12450.26		1116913.42		36772.87
<b>Equipment cost</b>								
Bulldozer, 21t	hr	7.874	4510.00	35511.74	21440.00	168818.56	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	14.085	3578.00	50396.13	17010.00	239585.85	0.00	0.00
Dump truck, 11t	hr	113.636	1616.00	183635.78	6816.00	774542.98	0.00	0.00
Bulldozer, 11t	hr	5.714	2050.00	11713.70	9745.00	55682.93	0.00	0.00
Miscellaneous(5%)				14062.87		61931.52		0.00
Subtotal				295320.21		1300561.83		0.00
Overhead(25%)				76942.62		794756.54		9193.22
Total				384713.09		3973782.69		45966.08
Unit price(m <sup>3</sup> )				384.71		3973.78		45.97

Item No.

Work: Excavation, open, common (Hauling to spoil bank)

Remarks: 100cu3, 7000x

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	nd	1.703	0.00	0.00	20600.00	35081.80	0.00	0.00
Operator	nd	4.257	0.00	0.00	25600.00	108979.20	0.00	0.00
Assist operator	nd	4.257	0.00	0.00	17900.00	76200.30	0.00	0.00
Driver	nd	19.724	0.00	0.00	18100.00	357004.40	0.00	0.00
Common labor	nd	14.119	0.00	0.00	17300.00	244258.70	0.00	0.00
Subtotal				0.00		821524.40		0.00
<b>Material cost</b>								
Light oil	lit	2504.745	4.00	10018.98	353.00	884175.34	1.00	2504.75
Lubricant	lit	69.357	44.00	3051.71	4150.00	287831.55	500.00	34678.50
Grease	kg	3.055	58.00	177.19	5395.00	16481.73	650.00	1985.75
Miscellaneous(3%)				397.44		35654.68		1175.07
Subtotal				13645.32		1224143.27		40344.07
<b>Equipment cost</b>								
Bulldozer, 21t	hr	7.874	4510.00	35511.74	21440.00	163818.56	0.00	0.00
Tractor shovel, 2.2x3	hr	14.085	3578.00	50396.13	17010.00	239585.85	0.00	0.00
Dump truck, lit	hr	128.205	1616.00	207179.28	6815.00	873845.28	0.00	0.00
Bulldozer, 11t	hr	5.714	2050.00	11713.70	9745.00	55682.93	0.00	0.00
Miscellaneous(5%)				15240.04		66896.63		0.00
Subtotal				320040.89		1404829.25		0.00
Overhead(25%)				83421.55		862624.23		10086.02
Total				417107.76		4313121.15		50430.08
Unit price(a3)				417.11		4313.12		50.43

Item No.

Work: Excavation, open, weathered rock (Hauling to spoil bank)

Remarks: 1000m<sup>3</sup>, 500m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	nd	1.937	0.00	0.00	20600.00	39902.20	0.00	0.00
Operator	nd	4.842	0.00	0.00	25600.00	123955.20	0.00	0.00
Assist operator	nd	4.842	0.00	0.00	17900.00	86671.80	0.00	0.00
Driver	nd	5.350	0.00	0.00	18100.00	105885.00	0.00	0.00
Common labor	nd	7.767	0.00	0.00	17300.00	134369.10	0.00	0.00
Subtotal				0.00		490783.30		0.00
<b>Material cost</b>								
Light oil	lit	1349.217	4.00	5369.87	353.00	473096.60	1.00	1340.22
Lubricant	lit	39.336	44.00	1733.42	4150.00	163493.40	500.00	19698.90
Grease	kg	1.369	58.00	79.40	5395.00	7385.76	650.00	889.85
Miscellaneous(3%)				215.21		19319.27		657.84
Subtotal				7388.90		663295.03		22585.91
<b>Equipment cost</b>								
Bulldozer w/ripper, 32t	hr	8.772	7400.00	64912.80	30550.00	320616.60	0.00	0.00
Tractor shovel, 2.2x3	hr	19.608	3578.00	70157.42	17010.00	333532.08	0.00	0.00
Dump truck, 11t	hr	38.023	1616.00	61445.17	6816.00	259164.77	0.00	0.00
Bulldozer, 11t	hr	3.096	2050.00	6346.80	9745.00	30170.52	0.00	0.00
Miscellaneous(5%)				10143.11		47174.20		0.00
Subtotal				213005.30		990658.17		0.00
Overhead(25%)				55098.55		536184.12		5646.46
Total				275492.76		2680920.62		28232.39
Unit price(m <sup>3</sup> )				275.49		2680.92		25.23

Item No.

Work: Excavation, open, weathered rock (hauling to spoil bank)

Remarks: 1000m<sup>3</sup>, 1000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	1.937	0.00	0.00	20600.00	39902.20	0.00	0.00
Operator	md	4.842	0.00	0.00	25600.00	123955.20	0.00	0.00
Assist operator	md	4.842	0.00	0.00	17900.00	86671.80	0.00	0.00
Driver	md	6.993	0.00	0.00	18100.00	126573.30	0.00	0.00
Common labor	md	8.333	0.00	0.00	17300.00	144264.70	0.00	0.00
Subtotal				0.00		521367.20		0.00
<b>Material cost</b>								
Light oil	lit	1451.697	4.00	5806.79	353.00	512449.04	1.00	1451.70
Lubricant	lit	42.517	44.00	1870.75	4150.00	176445.55	500.00	21258.50
Grease	kg	1.518	58.00	88.04	5395.00	8189.61	650.00	986.70
Miscellaneous(3%)				232.97		20912.53		710.51
Subtotal				7998.55		717996.73		24407.80
<b>Equipment cost</b>								
Bulldozer w/ripper, 32t	hr	8.772	7400.00	64912.80	35559.00	320616.60	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	19.608	3578.00	70157.42	17310.00	333532.08	0.00	0.00
Dump truck, lit	hr	45.455	1616.00	73455.28	6816.00	309821.28	0.00	0.00
Bulldozer, lit	hr	3.096	2050.00	6346.80	9745.00	30170.52	0.00	0.00
Miscellaneous(5%)				10743.62		49707.02		0.00
Subtotal				225615.92		1043847.50		0.00
Overhead(25%)				58403.62		570802.86		6101.95
Total				292018.08		2854014.29		30509.75
Unit price(m <sup>3</sup> )				292.02		2854.01		30.51

Item No.

Work: Excavation, open, weathered rock (Hauling to spoil bank)

Remarks: 1000m<sup>3</sup>, 2000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	1.937	0.00	0.00	20600.00	39902.20	0.00	0.00
Operator	md	4.842	0.00	0.00	25500.00	123355.20	3.00	0.00
Assist operator	md	4.842	0.00	0.00	17900.00	86671.80	0.00	0.00
Driver	md	9.268	0.00	0.00	18100.00	167750.80	0.00	0.00
Common labor	md	3.476	0.00	0.00	17300.00	163934.80	0.00	0.00
Subtotal				0.00		582214.80		0.00
<b>Material cost</b>								
Light oil	lit	1673.487	4.00	6693.95	353.00	590740.91	1.00	1673.49
Lubricant	lit	48.727	44.00	2143.99	4150.00	202217.05	500.00	24363.50
Grease	kg	1.814	58.00	105.21	5395.00	9786.53	650.00	1179.10
Miscellaneous(3%)				268.29		24082.33		816.48
Subtotal				9211.44		826826.83		28032.57
<b>Equipment cost</b>								
Bulldozer w/ripper, 32t	hr	8.772	7400.00	64912.80	36550.00	320616.60	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	19.608	3578.00	70157.42	17010.00	333532.08	0.00	0.00
Dump truck, 11t	hr	60.241	1618.00	97349.46	6816.00	410802.66	0.00	0.00
Bulldozer, 11t	hr	3.096	2050.00	6346.80	9745.00	30170.52	0.00	0.00
Miscellaneous(5%)				11938.32		54746.09		0.00
Subtotal				250704.80		1149667.95		0.00
Overhead(25%)				64979.06		639677.39		7008.14
<b>Total</b>				<b>324895.31</b>		<b>3198386.97</b>		<b>35040.71</b>
<b>Unit price(m<sup>3</sup>)</b>				<b>324.90</b>		<b>3198.39</b>		<b>35.04</b>



Item No.

Work: Excavation, open, weathered rock (Hauling to spoil bank)

Remarks: 100Cm3, 3000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	nd	1.937	0.00	0.00	20600.00	39992.20	0.00	0.00
Operator	nd	4.842	0.00	0.00	25600.00	123955.20	0.00	0.00
Assist operator	nd	4.842	0.00	0.00	17900.00	86671.50	0.00	0.00
Driver	nd	11.481	0.00	0.00	18100.00	207836.10	0.00	0.00
Common labor	nd	10.583	0.00	0.00	17300.00	183085.90	0.00	0.00
Subtotal				0.00		641421.20		0.00
<b>Material cost</b>								
light oil	lit	1839.277	4.00	7557.11	353.00	666914.73	1.00	1889.28
Lubricant	lit	54.769	44.00	2409.84	4150.00	227291.35	500.00	27334.50
Grease	kg	2.102	58.00	121.92	5325.00	11340.29	650.00	1366.30
Miscellaneous(3%)				322.67		27166.39		919.20
Subtotal				10391.53		932712.81		31559.28
<b>Equipment cost</b>								
Bulldozer w/ripper, 32t	hr	8.772	7400.00	64912.80	36550.00	320616.60	0.00	0.00
Tractor shovel, 2.2m3	hr	19.608	3578.00	70157.42	17010.00	333532.08	0.00	0.00
Dump truck, 11t	hr	74.627	1616.00	120597.23	6816.00	508857.63	0.00	0.00
Bulldozer, 11t	hr	3.593	2050.00	6346.80	9745.00	30170.52	0.00	0.00
Miscellaneous(5%)				13100.71		59648.84		0.00
Subtotal				275114.97		1252625.67		0.00
Overhead(25%)				71376.62		706689.92		7889.82
Total				356883.12		3533449.61		39449.10
Unit price(#3)				356.88		3533.45		39.45

Item No.

Work:Excavation,open,weathered rock(Hauling to spoil bank)

Remarks:1000m3,4000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	1.937	0.00	0.00	20600.00	39902.20	0.00	0.00
Operator	md	4.842	0.00	0.00	25600.00	123955.20	0.00	0.00
Assist operator	md	4.842	0.00	0.00	17900.00	86671.80	0.00	0.00
Driver	md	13.736	0.00	0.00	18100.00	248621.60	0.00	0.00
Common labor	md	11.710	0.00	0.00	17300.00	202583.00	0.00	0.00
Subtotal				0.00		701733.80		0.00
<b>Material cost</b>								
Light oil	lit	2109.162	4.00	8436.65	353.00	744534.19	1.00	2109.16
Lubricant	lit	60.926	44.00	2680.74	4150.00	252842.90	506.00	30463.00
Grease	kg	2.395	58.00	138.91	5395.00	12921.03	650.00	1556.75
Miscellaneous(3%)				337.69		30308.94		1023.87
Subtotal				11593.99		1040607.05		35152.78
<b>Equipment cost</b>								
Bulldozer w/ripper,32t	hr	8.772	7400.00	64912.80	36550.00	320616.60	0.00	0.00
Tractor shovel,2.2m3	hr	19.608	3578.00	70157.42	17010.00	333532.08	0.00	0.00
Dump truck,1lt	hr	89.286	1616.00	144286.18	6816.00	608573.38	0.00	0.00
Bulldozer,1lt	hr	3.095	2050.00	6346.80	9745.00	30170.52	0.00	0.00
Miscellaneous(5%)				14285.16		64644.63		0.00
Subtotal				299988.36		1357537.20		0.00
Overhead(25%)				77895.59		774969.51		8788.19
Total				389477.94		3874847.57		43940.97
Unit price(m3)				389.48		3874.85		43.94

Item No.

Work: Excavation, open, weathered rock (Hauling to spoil bank)

Remarks: 100Cm3, 5000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	1.937	0.00	0.00	20600.00	39902.20	0.00	0.00
Operator	md	4.842	0.00	0.00	25600.00	123955.20	0.00	0.00
Assist operator	md	4.842	0.00	0.00	17900.00	86671.80	0.00	0.00
Driver	md	16.026	0.00	0.00	18100.00	290070.60	0.00	0.00
Common labor	md	12.855	0.00	0.00	17300.00	222391.50	0.00	0.00
Subtotal				0.00		762991.30		0.00
<b>Material cost</b>								
Light oil	lit	2332.377	4.00	9329.51	353.00	823329.08	1.00	2332.38
Lubricant	lit	67.176	44.30	2955.74	4150.00	278780.40	590.00	33588.00
Grease	kg	2.692	58.00	156.14	5395.00	14523.34	650.00	1749.80
Miscellaneous(3%)				373.24		33493.98		1130.11
Subtotal				12814.63		1150131.81		38800.28
<b>Equipment cost</b>								
Bulldozer w/ripper, 32t	hr	8.772	7400.00	64912.80	36550.00	320616.60	0.00	0.00
Tractor shovel, 2.2m3	hr	19.608	3578.00	70157.12	17010.00	333532.08	0.00	0.00
Dump truck, 11t	hr	104.167	1616.00	168333.87	6816.00	710062.27	0.00	0.00
Bulldozer, 11t	hr	3.096	2050.00	6346.80	9745.00	30170.52	0.00	0.00
Miscellaneous(5%)				15487.54		69716.07		0.00
Subtotal				325238.44		1464037.55		0.00
Overhead(25%)				84513.27		844290.16		9700.07
Total				422566.34		4221450.81		48500.35
Unit price(m3)				422.57		4221.45		48.50

Item No.

Work: Excavation, open, weathered rock (Hauling to spoil bank)

Remarks: 1000m<sup>3</sup>, 6000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	nd	1.937	0.00	0.00	20690.00	39902.20	0.00	0.00
Operator	nd	4.842	0.00	0.00	25600.00	123955.20	0.00	0.00
Assist operator	nd	4.842	0.00	0.00	17900.00	86671.80	0.00	0.00
Driver	nd	18.315	0.00	0.00	18100.00	331501.50	0.00	0.00
Common labor	nd	13.999	0.00	0.00	17300.00	242182.70	0.00	0.00
Subtotal				0.00		824213.40		0.00
<b>Material cost</b>								
Light oil	lit	2555.592	4.00	10222.37	353.00	902123.98	1.00	2555.59
Lubricant	lit	73.425	44.00	3230.74	4150.00	304717.90	500.00	36713.00
Grease	kg	2.990	58.00	173.42	5395.00	16131.05	650.00	1943.50
Miscellaneous(3%)				408.80		36689.19		1236.36
Subtotal				14035.33		1259662.11		42448.45
<b>Equipment cost</b>								
Bulldozer w/ripper, 32t	hr	8.772	7400.00	64912.80	36550.00	320616.60	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	19.608	3578.00	70157.42	17010.00	333532.08	0.00	0.00
Dump truck, 11t	hr	119.048	1616.00	192381.57	6816.00	811431.17	0.00	0.00
Bulldozer, 11t	hr	3.036	2050.00	6346.80	9745.00	30170.52	0.00	0.00
Miscellaneous(5%)				16589.93		74737.52		0.00
Subtotal				350488.52		1570537.89		0.00
Overhead(25%)				91130.96		913603.35		10612.11
Total				455654.81		4566016.75		53060.57
Unit price(m <sup>3</sup> )				455.65		4568.02		53.06

Item No.

Work: Excavation, open, weathered rock (Hauling to spoil bank)

Remarks: 1000m<sup>3</sup>, 7000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	1.937	0.00	0.00	20600.00	39962.20	0.00	0.00
Operator	md	4.842	0.00	0.00	25600.00	123955.20	0.00	0.00
Assist operator	md	4.842	0.00	0.00	17900.00	86671.80	0.00	0.00
Driver	md	20.513	0.00	0.00	18100.00	371285.30	0.00	0.00
Common labor	md	15.098	0.00	0.00	17300.00	261195.40	0.00	0.00
Subtotal				0.00		883069.90		0.00
<b>Material cost</b>								
Light oil	lit	2769.867	4.00	11079.47	353.00	977763.05	1.00	2769.87
Lubricant	lit	79.426	44.00	3494.74	4150.00	329617.90	500.00	39713.00
Grease	kg	3.276	58.00	190.01	5395.00	17674.02	650.00	2129.40
Miscellaneous(3%)				442.93		39751.65		1338.37
Subtotal				15207.15		1364806.62		45950.64
<b>Equipment cost</b>								
Bulldozer w/ripper, 32t	hr	8.772	7400.00	64912.80	36550.00	320616.60	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	19.608	3578.00	70157.42	17010.00	333532.08	0.00	0.00
Dump truck, 11t	hr	133.333	1616.00	215466.13	6816.00	908797.73	0.00	0.00
Bulldozer, 11t	hr	3.096	2050.00	6346.80	9745.00	30170.52	0.00	0.00
Miscellaneous(5%)				17844.16		79655.85		0.00
Subtotal				374727.31		1672772.77		0.00
Overhead(25%)				97483.61		980147.32		11487.66
Total				487418.07		4900736.62		57438.29
Unit price(m <sup>3</sup> )				487.42		4900.74		57.44

Item No.

Work: Excavation, open, rock (Hauling to spoil bank)

Remarks: 1000m<sup>3</sup>, 500m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	1.534	0.00	0.00	20600.00	31500.40	0.00	0.00
Operator	md	3.836	0.00	0.00	25600.00	98201.60	0.00	0.00
Assist operator	md	3.836	0.00	0.00	17900.00	68664.40	0.00	0.00
Driver	md	6.838	0.00	0.00	18100.00	123767.80	0.00	0.00
Common labor	md	7.255	0.00	0.00	17300.00	125511.50	0.00	0.00
Subtotal				0.00		447745.70		0.00
<b>Material cost</b>								
Light oil	lit	1350.448	4.00	5401.79	353.00	476708.14	1.00	1350.45
Lubricant	lit	40.348	44.00	1775.31	4150.00	167444.20	500.00	20174.00
Grease	kg	1.395	58.00	80.91	5395.00	7526.03	650.00	906.75
Miscellaneous(3%)				217.74		19550.35		672.94
Subtotal				7475.75		671228.72		23104.13
<b>Equipment cost</b>								
Bulldozer w/ripper, 32t	hr	5.988	7400.00	44311.20	36550.00	218861.40	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	21.277	3578.00	76129.11	17010.00	361921.77	0.00	0.00
Dump truck, 11t	hr	44.444	1616.00	71821.50	6816.00	302930.30	0.00	0.00
Bulldozer, 11t	hr	2.667	2050.00	5467.35	9745.00	25989.92	0.00	0.00
Miscellaneous(5%)				9826.46		45485.17		0.00
Subtotal				207615.62		955188.56		0.00
Overhead(25%)				53772.84		518540.74		5776.03
Total				268864.22		2592703.72		28880.17
Unit price(m <sup>3</sup> )				268.86		2592.70		28.88

Itea No.

Work: Excavation, open, rock (Hauling to spoil bank)

Remarks: 100Ca3, 1000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	1.534	0.00	0.00	20660.00	31600.40	0.00	0.00
Operator	md	3.836	0.00	0.00	25600.00	98201.60	0.00	0.00
Assist operator	md	3.836	0.00	0.00	17900.00	68664.40	0.00	0.00
Driver	md	8.140	0.00	0.00	18100.00	147334.00	0.00	0.00
Common labor	md	7.906	0.00	0.00	17300.00	136773.80	0.00	0.00
Subtotal				0.00		482574.20		0.00
<b>Material cost</b>								
Light oil	lit	1477.438	4.00	5909.75	353.00	521535.61	1.00	1477.44
Lubricant	lit	43.904	44.00	1931.78	4150.00	182201.60	500.00	21952.00
Grease	kg	1.564	58.00	90.71	5395.00	8437.73	650.00	1016.60
Miscellaneous(3%)				237.97		21365.25		733.38
Subtotal				8170.21		733540.24		25179.42
<b>Equipment cost</b>								
Bulldozer w/ripper, 32t	hr	5.988	7400.00	44311.20	35550.00	218861.40	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	21.277	3578.00	76129.11	17010.00	361921.77	0.00	0.00
Dump truck, 11t	hr	52.910	1616.00	85502.56	6816.00	360634.56	0.00	0.00
Bulldozer, 11t	hr	2.657	2050.00	5457.35	9745.00	25989.92	0.00	0.00
Miscellaneous(5%)				10570.51		48370.38		0.00
Subtotal				221980.73		1015778.03		0.00
Overhead(25%)				57537.73		557973.12		6294.85
<b>Total</b>				<b>287688.67</b>		<b>2789865.59</b>		<b>31474.27</b>
Unit price(m <sup>3</sup> )				287.69		2789.87		31.47

Item No.

Work:Excavation,open,rock(Hauling to spoil bank)

Remarks:1000m<sup>3</sup>,2000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	1.534	0.00	0.00	20600.00	31600.40	0.00	0.00
Operator	md	3.836	0.00	0.00	25600.00	98201.60	0.00	0.00
Assist operator	md	3.836	0.00	0.00	17900.00	66664.40	0.00	0.00
Driver	md	10.758	0.00	0.00	18100.00	194719.80	0.00	0.00
Common labor	md	9.215	0.00	0.00	17300.00	159419.50	0.00	0.00
Subtotal				0.00		552605.70		0.00
<b>Material cost</b>								
Light oil	lit	1732.738	4.00	6930.95	353.00	611656.51	1.00	1732.74
Lubricant	lit	51.053	44.00	2246.33	4150.00	211869.95	500.00	25526.50
Grease	kg	1.527	58.00	88.57	5395.00	8233.17	650.00	992.55
Miscellaneous(3%)				277.98		24952.94		847.55
Subtotal				9543.83		856717.57		29099.34
<b>Equipment cost</b>								
Bulldozer w/ripper,32t	hr	5.988	7400.00	44311.20	36550.00	218361.40	0.00	0.00
Tractor shovel,2.2m <sup>3</sup>	hr	21.277	3578.00	76123.11	17010.00	361921.77	0.00	0.00
Dump truck,11t	hr	69.930	1616.00	113006.88	6216.00	476642.88	0.00	0.00
Bulldozer,11t	hr	2.667	2050.00	5467.35	9745.00	25989.92	0.00	0.00
Miscellaneous(5%)				11945.73		54170.80		0.00
Subtotal				250860.26		1137586.76		0.00
Overhead(25%)				65101.02		636727.51		7274.84
Total				325505.11		3182637.54		58374.18
Unit price(m <sup>3</sup> )				325.51		3183.64		36.37



Item No.

Work: Excavation, open, rock (Hauling to spoil bank)

Remarks: 1000m<sup>3</sup>, 3000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	nd	1.534	0.00	0.00	20600.00	31600.40	0.00	0.00
Operator	nd	3.336	0.00	0.00	25600.00	98201.60	0.00	0.00
Assist operator	nd	3.336	0.00	0.00	17900.00	68664.40	0.00	0.00
Driver	nd	13.378	0.00	0.00	18100.00	242141.80	0.00	0.00
Common labor	nd	10.525	0.00	0.00	17300.00	182082.50	0.00	0.00
Subtotal				0.00		622690.70		0.00
<b>Material cost</b>								
Light oil	lit	1988.143	4.00	7952.57	353.00	701814.48	1.00	1988.14
Lubricant	lit	58.204	44.00	2560.98	4150.00	241546.60	500.00	29102.00
Grease	kg	2.245	58.00	130.21	5395.00	12111.78	650.00	1459.25
Miscellaneous(3%)				319.31		28664.19		976.48
Subtotal				10963.07		984137.04		33525.87
<b>Equipment cost</b>								
Bulldozer w/ripper, 32t	hr	5.588	7400.00	44311.20	35550.00	218861.40	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	21.277	3575.00	76129.11	17010.00	361921.77	0.00	0.00
Scrap truck, lit	hr	86.957	1616.00	140522.51	6816.00	592638.91	0.00	0.00
Bulldozer, lit	hr	2.667	2050.00	5467.35	9745.00	25989.92	0.00	0.00
Miscellaneous(5%)				13321.51		59373.60		0.00
Subtotal				279751.68		1259445.60		0.00
Overhead(25%)				72678.69		716568.33		8381.47
Total				313393.43		3582841.67		41907.34
Unit price(x3)				363.39		3582.84		41.91

Item No.

Work:Hauling excavated rock,tunnel/shaft

Remarks:500m3,500m

Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labopr cost</b>								
Foreman	nd	0.655	0.00	0.00	20600.00	13513.60	0.00	0.00
Operator	nd	3.282	0.00	0.00	25600.00	84019.20	0.00	0.00
Assist operator	nd	3.282	0.00	0.00	17900.00	58747.80	0.00	0.00
Driver	nd	5.233	0.00	0.00	18100.00	94717.30	0.00	0.00
Common labor	nd	2.359	0.00	0.00	17300.00	40816.70	0.00	0.00
Subtotal				0.00		291808.60		0.00
<b>Material cost</b>								
Light oil	lit	672.135	4.00	2688.54	353.00	237263.66	1.00	672.14
Lubricant	lit	16.264	44.00	715.62	4150.00	67495.60	500.00	8132.00
Grease	kg	1.307	58.00	75.81	5395.00	7051.27	650.00	849.55
Miscellaneous(3%)				104.40		9354.32		289.61
Subtotal				3584.36		321164.84		9943.30
<b>Equipment cost</b>								
Tractor shovel,1.2m3	hr	20.000	1985.00	39700.00	9037.00	180740.00	0.00	0.00
Dump truck,8t	hr	34.014	1210.00	41156.94	5507.00	187315.10	0.00	0.00
Bulldozer,11t	hr	1.333	2050.00	2732.65	9745.00	12990.09	0.00	0.00
Miscellaneous(5%)				4179.48		19052.26		0.00
Subtotal				87769.07		400097.44		0.00
Overhead(25%)				22838.36		253267.72		2485.82
Total				114191.79		1266336.60		12423.12
Unit price				228.38		2532.68		24.86

Item No.

Work: Hauling excavated rock, tunnel/shaft

Remarks: 500m<sup>3</sup>, 1000m

Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	nd	0.656	0.00	0.00	20600.00	13513.60	0.00	0.00
Operator	nd	3.282	0.00	0.00	25600.00	84619.20	0.00	0.00
Assist operator	nd	3.282	0.00	0.00	17900.00	58747.80	0.00	0.00
Driver	nd	6.154	0.00	0.00	18100.00	111387.40	0.00	0.00
Common labor	nd	2.544	0.00	0.00	17300.00	44011.20	0.00	0.00
Subtotal				0.00		311679.20		0.00
<b>Material cost</b>								
Light oil	lit	731.955	4.00	2927.98	353.00	258394.24	1.00	732.00
Lubricant	lit	18.600	44.00	722.00	4150.00	74700.00	500.00	9000.00
Grease	kg	1.427	58.00	82.77	5395.00	7698.67	650.00	927.55
Miscellaneous(3%)				114.08		10223.79		319.79
Subtotal				3316.83		351016.69		10979.33
<b>Equipment cost</b>								
Tractor shovel, 1.2m <sup>3</sup>	hr	20.000	1985.00	39700.00	8037.00	180740.39	0.00	0.00
Dump truck, 8t	hr	40.000	1210.00	48400.00	5507.00	220280.00	0.00	0.00
Bulldozer, 11t	hr	1.333	2050.00	2732.85	9745.00	12990.09	0.00	0.00
Miscellaneous(5%)				4541.63		20700.50		0.00
Subtotal				95374.28		434710.59		0.00
Overhead(25%)				24822.78		274351.62		2744.83
Total				124113.89		1371758.10		13724.16
Unit price				248.23		2743.52		27.45

Item No.  
 Work:Hauling excavated rock,tunnel/shaft  
 Remarks:500m<sup>3</sup>,2000m

Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labopr cost</b>								
Foreman	md	0.656	0.00	0.00	20600.00	13513.60	0.00	0.10
Operator	md	3.282	0.00	0.00	25600.00	84019.20	0.00	0.00
Assist operator	md	3.282	0.00	0.00	17900.00	58747.80	0.00	0.00
Driver	md	7.930	0.00	0.00	18100.00	143533.00	0.00	0.00
Common labor	md	2.899	0.00	0.00	17300.00	50152.70	0.00	0.00
Subtotal				0.00		349966.30		0.00
<b>Material cost</b>								
Light oil	lit	847.455	4.00	3389.82	353.00	299151.62	1.00	847.46
Lubricant	lit	21.348	44.00	939.31	4150.00	88594.20	500.00	10574.00
Grease	kg	1.658	58.00	96.16	5395.00	8944.91	650.00	1077.70
Miscellaneous(3%)				132.76		11900.72		377.97
Subtotal				4558.05		408591.45		12977.13
<b>Equipment cost</b>								
Tractor shovel,1.2m <sup>3</sup>	hr	20.000	1935.00	33700.00	9037.00	180740.00	0.00	0.00
Dump truck,8t	hr	51.546	1210.00	62370.66	5507.00	283863.82	9.00	0.00
Bulldozer,11t	hr	1.333	2050.00	2732.65	9745.00	12990.09	0.00	0.00
Miscellaneous(5%)				5240.17		23879.70		0.00
Subtotal				110043.48		501473.60		0.00
Overhead(25%)				28650.38		315007.84		3244.28
Total				143251.91		1575039.19		16221.41
Unit price				286.50		3150.08		32.44

Item No.

Work:Hauling excavated rock,tunnel/shaft

Remarks:500x3,300cm

Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labour cost</b>								
Foreman	nd	0.656	0.00	0.00	20600.00	13513.60	0.00	0.00
Operator	nd	3.282	0.00	0.00	25600.00	84019.20	0.00	0.00
Assist operator	nd	3.282	0.00	0.00	17900.00	58747.80	0.00	0.00
Driver	nd	9.737	0.00	0.00	18100.00	175239.70	0.00	0.00
Common labor	nd	3.260	0.00	0.00	17300.00	56398.00	0.00	0.00
Subtotal				0.00		388918.30		0.00
<b>Material cost</b>								
Light oil	lit	964.905	4.00	3859.62	353.00	340611.47	1.00	964.91
Lubricant	lit	24.754	44.00	1089.18	4150.00	102729.10	500.00	12377.00
Grease	kg	1.893	58.00	109.79	5395.00	10212.74	650.00	1230.45
Miscellaneous(3%)				151.76		13606.60		437.17
Subtotal				5210.35		467159.90		15009.53
<b>Equipment cost</b>								
Tractor shovel,1.2m <sup>3</sup>	hr	20.000	1985.00	39700.00	9037.00	180749.00	0.00	0.00
Dump truck,8t	hr	63.291	1210.00	76582.11	5507.00	348543.54	0.00	0.00
Excldozer,11t	hr	1.333	2050.00	2732.65	9745.00	12990.09	0.00	0.00
Miscellaneous(5%)				5950.74		27113.68		0.00
Subtotal				124955.50		569387.30		0.00
Overhead(25%)				32543.96		356366.36		3752.38
Total				162719.81		1781831.88		18761.91
Unit price				325.44		3563.66		37.52

Item No.  
 Work:Hauling excavated rock,tunnel/shaft  
 Remarks:500x3,400cm

Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labour cost</b>								
Foreman	md	0.656	0.00	0.00	20600.00	13513.60	0.00	0.00
Operator	md	3.282	0.00	0.00	25600.00	84019.20	0.00	0.00
Assist operator	md	3.282	0.00	0.00	17300.00	58747.80	0.00	0.00
Driver	md	11.655	0.00	0.00	18100.00	210955.50	0.00	0.00
Common labor	md	3.644	0.00	0.00	17300.00	63041.20	0.00	0.00
Subtotal				0.00		430277.30		0.00
<b>Material cost</b>								
Light oil	lit	1089.575	4.00	4358.30	353.00	384619.93	1.00	1089.58
Lubricant	lit	28.370	44.00	1248.28	4150.00	117735.50	500.00	14185.00
Grease	kg	2.142	58.00	124.24	5395.00	11556.09	650.00	1392.30
Miscellaneous(3%)				171.92		15417.35		500.01
Subtotal				5902.74		529328.91		17166.88
<b>Equipment cost</b>								
Tractor shovel,1.2m3	hr	20.000	1985.00	39700.00	9037.00	180740.00	0.00	0.00
Dump truck,8t	hr	75.758	1210.00	91667.18	5507.00	417199.31	0.00	0.00
Bulldozer,11t	hr	1.333	2050.00	2732.65	9745.00	12990.09	0.00	0.00
Miscellaneous(5%)				6704.99		30546.47		0.00
Subtotal				140804.82		641475.86		0.00
Overhead(25%)				36676.89		400270.52		4291.72
Total				183384.45		2001352.59		21458.62
Unit price				366.77		4002.71		42.92

Item No.

Work:Hauling excavated rock,tunnel/shaft

Remarks:500m<sup>3</sup>,5000m

Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
				(Yen)	(S/.)	(S/.)		(S/.)
<b>Labor cost</b>								
Foreman	ad	0.656	0.00	0.00	20600.00	13513.60	0.00	0.00
Operator	ad	3.282	0.00	0.00	25600.00	84019.20	0.00	0.00
Assist operator	ad	3.282	0.00	0.00	17900.00	58747.80	0.00	0.00
Driver	ad	13.495	0.00	0.00	18100.00	244259.50	0.00	0.00
Common labor	ad	4.012	0.00	0.00	17300.00	69407.60	0.00	0.00
Subtotal				0.00		469947.70		0.00
<b>Material cost</b>								
Light oil	lit	1299.185	4.00	4836.74	353.00	426342.31	1.00	1209.19
Lubricant	lit	31.839	44.00	1400.92	4150.00	132131.85	500.00	15919.50
Grease	kg	2.381	58.00	138.10	5395.00	12845.50	650.00	1547.65
Miscellaneous(3%)				191.27		17154.59		550.29
Subtotal				6567.03		588974.24		19236.63
<b>Equipment cost</b>								
Tractor shovel,1.2m <sup>3</sup>	hr	20.000	1985.00	39700.00	9037.00	180740.00	0.00	0.00
Dump truck,8t	hr	87.719	1210.00	106139.99	5507.00	483068.53	0.00	0.00
Buildozer,11t	hr	1.333	2050.00	2732.65	9745.00	12950.09	0.00	0.00
Miscellaneous(5%)				7428.63		35639.93		0.00
Subtotal				156001.27		710636.55		0.00
Overhead(25%)				40642.07		442390.12		4809.16
Total				203210.37		2211950.61		24045.78
Unit price				406.42		4423.90		48.09

Item No.

Work:Excavation,open,rock(Hauling to spoil bank)

Remarks:1000m3,4000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	1.534	0.00	0.00	20600.00	31600.40	0.00	0.00
Operator	md	3.836	0.00	0.00	25600.00	98201.60	0.00	0.00
Assist operator	md	3.836	0.00	0.00	17900.00	68664.40	0.00	0.00
Driver	md	16.026	0.00	0.00	18100.00	290070.60	0.00	0.00
Common labor	md	11.849	0.00	0.00	17300.00	204987.70	0.00	0.00
Subtotal				0.00		693524.70		0.00
<b>Material cost</b>								
Light oil	lit	2246.293	4.00	8985.17	353.00	792941.43	1.00	2246.29
Lubricant	lit	65.432	44.00	2879.01	4150.00	271542.80	500.00	32716.00
Grease	kg	2.589	58.00	150.16	5395.00	13967.66	650.00	1682.85
Miscellaneous(3%)				360.43		32353.56		1099.35
Subtotal				12374.77		1110805.44		37744.50
<b>Equipment cost</b>								
Bulldozer w/ripper,32t	hr	5.938	7400.00	44311.20	38550.00	218861.40	0.00	0.00
Tractor shovel,2.2m3	hr	21.277	3578.00	76129.11	17010.00	361921.77	0.00	0.00
Dump truck,11t	hr	104.167	1616.00	168333.87	6816.00	710002.27	0.00	0.00
Bulldozer,11t	hr	2.667	2050.00	5467.35	9745.00	25989.92	0.00	0.00
Miscellaneous(5%)				14712.08		65838.77		0.00
Subtotal				308953.60		1382614.12		0.00
Overhead(25%)				80332.09		796736.07		9436.12
Total				401660.47		3983680.33		47180.62
Unit price(m3)				401.66		3983.68		47.18



Item No.

Work: Excavation, open, rock (Hauling to spoil bank)

Remarks: 1000m<sup>3</sup>, 5000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	1.534	0.00	0.00	20600.00	31600.40	0.00	0.00
Operator	md	3.836	0.00	0.00	25600.00	98201.60	0.00	0.00
Assist operator	md	3.836	0.00	0.00	17900.00	68664.40	0.00	0.00
Driver	md	18.762	0.00	0.00	18100.00	339592.20	0.00	0.00
Common labor	md	13.217	0.00	0.00	17300.00	228654.10	0.00	0.00
Subtotal				0.00		766712.70		0.00
<b>Material cost</b>								
Light oil	lit	2513.053	4.00	10052.21	353.00	887107.71	1.00	2513.05
Lubricant	lit	72.901	44.00	3207.64	4150.00	302539.15	500.00	36450.50
Grease	kg	2.945	58.00	170.81	5395.00	15888.28	650.00	1914.25
Miscellaneous(3%)				402.92		36166.05		1226.33
Subtotal				13833.59		1241701.19		42104.14
<b>Equipment cost</b>								
Bulldozer w/ripper, 32t	hr	5.988	7400.00	44311.20	36550.00	219861.40	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	21.277	3578.00	76129.11	17010.00	361921.77	0.00	0.00
Dump truck, 11t	hr	121.351	1616.00	197072.82	6816.00	831218.02	0.00	0.00
Bulldozer, 11t	hr	2.667	2050.00	5467.35	9745.00	25989.92	0.00	0.00
Miscellaneous(5%)				16149.02		71899.56		0.00
Subtotal				339129.60		1509890.66		0.00
Overhead(25%)				88240.77		879576.14		10526.03
Total				441203.85		4397880.68		52630.17
Unit price(x3)				441.20		4397.88		52.63

Item No. \*\*\* Mud stone, Chone Portoviejo  
 Work: Excavation, ripping only, after blasting  
 Remarks: 1000m<sup>3</sup>, ripper 1 shank  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
				(Yen)		(S/.)		(S/.)
<b>Labor cost</b>								
Foreman	md	0.000	0.00	0.00	20600.00	0.00	0.00	0.00
Operator	md	1.054	0.00	0.00	25600.00	26982.40	0.00	0.00
Assist operator	md	1.054	0.00	0.00	17900.00	18866.60	0.00	0.00
Driver	md	0.000	0.00	0.00	18100.00	0.00	0.00	0.00
Common labor	md	0.000	0.00	0.00	17300.00	0.00	0.00	0.00
Subtotal				0.00		45849.00		0.00
<b>Material cost</b>								
Light oil	lit	273.960	4.00	1095.84	353.00	96707.88	1.00	273.96
Lubricant	lit	6.849	44.00	301.36	4150.00	28423.35	500.00	3424.50
Grease	kg	0.274	58.00	15.89	5395.00	1478.23	650.00	178.10
Miscellaneous(3%)				42.39		3798.28		116.30
Subtotal				1455.48		130407.74		3992.86
<b>Equipment cost</b>								
Bulldozer w/ripper, 32t	hr	6.849	7400.00	50682.60	36550.00	250330.95	0.00	0.00
Tractor shovel, 2.2m <sup>3</sup>	hr	0.000	3578.00	0.00	17010.00	0.00	0.00	0.00
Dump truck, lit	hr	0.000	1616.00	0.00	6816.00	0.00	0.00	0.00
Bulldozer, lit	hr	0.000	2050.00	0.00	9745.00	0.00	0.00	0.00
Miscellaneous(5%)				2534.13		12516.55		0.00
Subtotal				53216.73		262847.50		0.00
Overhead(25%)				13668.05		109776.06		998.21
Total				68340.26		548880.30		4991.07
Unit price(m <sup>3</sup> )				68.34		548.88		4.99

Item No.

Work:Hauling weathered rock material

Remarks:1000m<sup>3</sup>,500m (compact).Excluding compaction

Unit price

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labour cost</b>								
Foreman	nd	1.535	0.00	0.00	20600.00	31621.00	0.00	0.00
Operator	nd	3.838	0.00	0.00	25600.00	98252.80	0.00	0.00
Assist operator	nd	3.838	0.00	0.00	17900.00	68709.20	0.00	0.00
Driver	nd	4.636	0.00	0.00	18100.00	83368.80	0.00	0.00
Common labor	nd	6.141	0.00	0.00	17300.00	106239.30	0.00	0.00
Subtotal				0.00		388181.90		0.00
<b>Material cost</b>								
Light oil	lit	1091.131	4.00	4364.52	353.00	385169.24	1.00	1691.13
Lubricant	lit	32.439	44.00	1427.32	4150.00	134621.85	500.00	16219.50
Grease	kg	0.599	58.00	34.74	5395.00	3231.61	650.00	389.35
Miscellaneous(3%)				174.80		15690.58		531.00
Subtotal				6001.38		538713.38		18230.98
<b>Equipment cost</b>								
Bulldozer,32t 2p	hr	8.900	7400.00	59200.00	36550.00	292400.00	0.00	0.00
Tractor shovel,2.2m <sup>3</sup>	hr	16.949	3578.00	60643.52	17010.00	288332.49	0.00	0.00
Dump truck,11t	hr	29.940	1616.00	48363.34	6816.00	204071.94	0.00	0.00
Miscellaneous(5%)				8411.33		39238.68		0.00
Subtotal				176637.89		824012.21		0.00
Overhead(25%)				45659.82		437736.87		4557.75
Total				228299.69		2198634.36		22788.73
Unit price				228.30		2188.53		22.79

Item No.

Work: Hauling weathered rock material

Remarks: 1000m3, 1000m (compact), Excluding compaction

Unit price

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labopr cost</b>								
Foreman	md	1.535	0.00	0.00	20600.00	31621.00	0.00	0.00
Operator	md	3.838	0.00	0.00	25800.00	98252.80	0.00	0.00
Assist operator	md	3.838	0.00	0.00	17900.00	68760.20	0.00	0.00
Driver	md	5.635	0.00	0.00	18100.00	101993.50	0.00	0.00
Common labor	md	6.655	0.00	0.00	17300.00	115131.50	0.00	0.00
Subtotal				0.00		415699.00		0.00
<b>Material cost</b>								
Light oil	lit	1191.480	4.00	4765.92	353.00	420592.44	1.00	1191.48
Lubricant	lit	35.249	44.00	1550.96	4150.00	146283.35	500.00	17624.50
Grease	kg	1.222	58.00	70.88	5395.00	6592.69	650.00	794.30
Miscellaneous(3%)				191.63		17204.05		588.31
Subtotal				6579.38		590672.53		20198.59
<b>Equipment cost</b>								
Buildozer, 32t Rp	hr	8.000	7400.00	59200.00	36550.00	292460.00	0.00	0.00
Tractor shovel, 2.2m3	hr	16.949	3578.00	60643.52	17010.00	288302.49	0.00	0.00
Dump truck, 11t	hr	36.630	1616.00	59194.08	6816.00	249570.08	0.00	0.00
Miscellaneous(5%)				8951.38		41518.63		0.00
Subtotal				187989.48		871891.20		0.00
Overhead(25%)				48642.22		469565.68		5049.65
Total				243211.08		2347828.42		25248.24
Unit price				243.21		2347.83		25.25

Item No.

Work: Hauling weathered rock material

Remarks: 1000m<sup>3</sup>, 2000m (compact), Excluding compaction

Unit price

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labopr cost</b>								
Foreman	md	1.535	0.00	0.00	20600.00	31621.00	0.00	0.00
Operator	md	3.838	0.00	0.00	25690.00	98252.20	0.00	0.00
Assist operator	md	3.838	0.00	0.00	17900.00	68700.20	0.00	0.00
Driver	md	7.692	0.00	0.00	18100.00	139225.20	0.00	0.00
Common labor	md	7.684	0.00	0.00	12300.00	132933.20	0.00	0.00
Subtotal				0.00		470732.40		0.00
<b>Material cost</b>								
Light oil	lit	1392.931	4.00	5568.12	353.00	491386.34	1.00	1392.03
Lubricant	lit	40.864	44.00	1798.02	4150.00	169585.60	500.00	20432.00
Grease	kg	1.489	58.00	86.36	5395.00	8033.16	650.00	967.85
Miscellaneous(3%)				223.58		20070.17		683.76
Subtotal				7676.08		689075.87		23475.64
<b>Equipment cost</b>								
Bulldozer, 32t Rp	hr	8.000	7400.00	59200.00	38550.00	292400.00	0.00	9.00
Tractor shovel, 2.2m <sup>3</sup>	hr	16.349	3578.00	60643.52	17910.00	288302.49	0.00	0.00
Dump truck, 11t	hr	50.000	1616.00	80800.00	6816.00	340800.00	0.00	0.00
Miscellaneous(5%)				19032.18		46075.12		0.00
Subtotal				210675.70		967577.61		0.00
Overhead(25%)				54587.94		531846.47		5868.91
Total				272939.72		2659232.35		29344.55
Unit price				272.94		2659.23		29.34

Item No.

Work:Hauling weathered rock material

Remarks:1000m3,3000m (compact),Excluding compaction

Unit price

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labopr cost</b>								
Foreman	nd	1.535	0.00	0.00	20600.00	31521.00	0.00	0.00
Operator	nd	3.838	0.00	0.00	25600.00	38252.50	0.00	0.00
Assist operator	nd	3.833	0.00	0.00	17900.00	66706.20	0.00	0.00
Driver	nd	9.737	0.00	0.00	18100.00	176239.70	0.00	0.00
Common labor	nd	8.707	0.00	0.00	17300.00	150631.10	0.00	0.00
Subtotal				0.00		525444.80		0.00
<b>Material cost</b>								
Light oil	lit	1591.396	4.00	6365.58	353.00	561762.79	1.00	1591.40
Lubricant	lit	46.446	44.00	2043.62	4150.00	192750.90	500.00	23223.00
Grease	kg	1.755	58.00	101.79	5305.00	9468.22	650.00	1140.75
Miscellaneous(3%)				255.33		22919.46		778.65
Subtotal				8768.33		786901.37		26733.80
<b>Equipment cost</b>								
Bulldozer,32t Rp	hr	8.000	7400.00	59200.00	36550.00	292400.00	0.00	0.00
Tractor shovel,2.2m3	hr	16.949	3578.00	60643.52	17010.00	288302.49	0.00	0.00
Dump truck,11t	hr	63.291	1616.00	102278.26	6816.00	431391.46	0.00	0.00
Miscellaneous(5%)				11106.09		50604.70		0.00
Subtotal				233227.87		1062698.64		0.00
Overhead(25%)				60498.55		593761.20		6683.45
Total				302492.74		2968806.02		33417.25
Unit price				302.49		2968.81		33.42

Item No.

Work:Hauling weathered rock material

Remarks:1000m<sup>3</sup>,4000m (compact).Excluding compaction

Unit price

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labopr cost</b>								
Foreman	nd	1.535	0.00	0.00	20600.00	31621.00	0.00	0.00
Operator	nd	3.838	0.00	0.00	25600.00	93252.80	0.00	0.00
Assist operator	nd	3.838	0.00	0.00	17900.00	68700.20	0.00	0.00
Driver	nd	11.834	0.00	0.00	18100.00	214195.40	0.00	0.00
Common labor	nd	9.755	0.00	0.00	17300.00	163761.50	0.00	0.00
Subtotal				0.00		581530.90		0.00
<b>Material cost</b>								
Light oil	lit	1795.876	4.00	7183.50	353.00	633944.23	1.00	1795.88
Lubricant	lit	52.172	44.00	2295.57	4150.00	216513.80	500.00	26586.00
Grease	kg	2.927	58.00	117.57	5395.00	10935.67	650.00	1317.55
Misceilaneous(3%)				287.90		25841.81		875.98
Subtotal				9884.54		887235.50		30075.41
<b>Equipment cost</b>								
Bulldozer,32t Rp	hr	8.000	7400.00	59200.00	36550.00	292400.00	0.00	0.00
Tractor shovel,2.2m <sup>3</sup>	hr	16.949	3578.00	60643.52	17010.00	288302.49	0.00	0.00
Dump truck,11t	hr	76.923	1616.00	124307.57	6816.00	524307.17	0.00	0.00
Miscellaneous(5%)				12207.55		55250.48		0.00
Subtotal				256358.64		1160260.14		0.00
Overhead(25%)				66560.80		657256.64		7518.85
Total				332803.98		3286283.18		37594.26
Unit price				332.80		3286.28		37.59

Item No.

Work:Hauling weathered rock material

Remarks:1000m3,5000m (compact),Excluding compaction

Unit price

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (₹/.)	Unit Cost	Amount (₹/.)
<b>Labopr cost</b>								
Foreman	nd	1.535	0.00	0.00	20600.00	31621.00	0.00	0.00
Operator	nd	3.838	0.00	0.00	25600.00	98252.80	0.00	0.00
Assist operator	nd	3.838	0.00	0.00	17900.00	68700.20	0.00	0.00
Driver	nd	13.860	0.00	0.00	18100.00	250866.00	0.00	0.00
Common labor	nd	10.768	0.00	0.00	17300.00	186286.40	0.00	0.00
Subtotal				0.00		635726.40		0.00
<b>Material cost</b>								
Light oil	lit	1993.381	4.00	7973.52	353.00	703683.49	1.00	1993.38
Lubricant	lit	57.702	44.00	2538.89	4150.00	239463.30	500.00	28851.00
Grease	kg	2.291	58.00	132.88	5395.00	12359.95	650.00	1489.15
Miscellaneous(3%)				319.36		28664.60		970.01
Subtotal				10964.65		984151.34		33303.54
<b>Equipment cost</b>								
Bulldozer,32t Rp	hr	8.000	7400.00	59200.00	36550.00	292400.00	0.00	0.00
Tractor shovel,2.2m3	hr	16.949	3578.00	60643.52	17010.00	288302.49	0.00	0.00
Dump truck,11t	hr	90.090	1616.00	145585.44	6816.00	614053.44	0.00	0.00
Miscellaneous(5%)				13271.45		59737.80		0.00
Subtotal				278700.41		1254493.73		0.00
Overhead(25%)				72416.26		718592.87		8325.88
Total				362081.32		3592964.33		41629.42
Unit price				362.08		3592.96		41.63



Item No.

Work:hauling weathered rock material

Remarks:1000m<sup>3</sup>,6000m (compact).Excluding compaction

Unit price

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labopr cost</b>								
Foreman	nd	1.535	0.00	0.00	20600.00	31521.00	0.00	0.00
Operator	nd	3.838	0.00	0.00	25600.00	98252.80	0.00	0.00
Assist operator	nd	3.838	0.00	0.00	17900.00	68700.20	0.00	0.00
Driver	nd	15.860	0.00	0.00	18100.00	287066.00	0.00	0.00
Common labor	nd	11.765	0.00	0.00	17300.00	203586.40	0.00	0.00
Subtotal				0.00		689226.40		0.00
<b>Material cost</b>								
Light oil	lit	2188.426	4.00	8753.70	353.00	772514.38	1.00	2188.43
Lubricant	lit	63.163	44.00	2779.17	4150.00	262126.45	500.00	31581.50
Grease	kg	2.551	58.00	147.96	5395.00	13762.65	650.00	1658.15
Miscellaneous(3%)				350.43		31452.10		1062.84
Subtotal				12031.26		1079855.58		36490.92
<b>Equipment cost</b>								
Bulldozer,32t Rp	hr	8.000	7400.00	59200.00	36550.00	292400.00	0.00	0.00
Tractor shovel,2.2m <sup>3</sup>	hr	16.949	3578.00	60643.52	17010.00	288302.49	0.00	0.00
Dump truck,1lt	hr	103.093	1616.00	166598.29	6816.00	702681.89	0.00	0.00
Miscellaneous(5%)				14322.09		64169.22		0.00
Subtotal				300763.90		1347553.60		0.00
Overhead(25%)				78198.79		779158.89		9122.73
Total				390993.95		3895724.47		45613.65
Unit price				390.99		3895.79		45.61

Item No.

Work:Hauling weathered rock material

Remarks:1000m<sup>3</sup>,7000m (compact),Excluding compaction

Unit price

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labopr cost</b>								
Foreman	ad	1.535	0.00	0.00	20600.00	31621.00	0.00	0.00
Operator	ad	3.838	0.00	0.00	25600.00	98252.80	0.00	0.00
Assist operator	ad	3.838	0.00	0.00	17900.00	68700.20	0.00	0.00
Driver	ad	17.889	0.00	0.00	18100.00	323790.90	0.00	0.00
Common labor	ad	12.783	0.00	0.00	17300.00	221145.90	0.00	0.00
Subtotal				0.00		743510.80		0.00
<b>Material cost</b>								
Light oil	lit	2386.216	4.00	9544.86	353.00	842334.25	1.00	2386.22
Lubricant	lit	68.708	44.00	3023.15	4150.00	285138.20	500.00	34354.00
Grease	kg	2.815	58.00	163.27	5395.00	15186.93	650.00	1829.75
Miscellaneous(3%)				381.94		34279.78		1157.10
Subtotal				13113.22		1176939.15		39727.06
<b>Equipment cost</b>								
Bulldozer,32t Rp	hr	8.000	7400.00	59200.00	36550.00	292400.00	0.00	0.00
Tractor shovel,2.2m <sup>3</sup>	hr	16.949	3578.00	60643.52	17010.00	288302.49	0.00	0.00
Duap truck,11t	hr	116.279	1616.00	187906.86	6816.00	792557.66	0.00	0.00
Miscellaneous(5%)				15387.52		68663.01		0.00
Subtotal				323137.91		1441923.16		0.00
Overhead(25%)				84062.78		840593.28		9931.77
Total				420313.91		4202966.39		49658.83
Unit price				420.31		4202.97		49.66

Item No.

Work: Embankment, Chone Portoviejo

Remarks: 1000m<sup>3</sup> (compact), self, 20t (CAT)

Unit price

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty, Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	0.639	0.00	0.00	23600.00	12545.40	0.00	0.00
Operator	md	1.397	0.00	0.00	25600.00	35763.20	0.00	0.00
Assist operator	md	1.397	0.00	0.00	17800.00	25006.30	0.00	0.00
Driver	md	0.250	0.00	0.00	18100.00	4525.00	0.00	0.00
Common labor	md	1.000	0.00	0.00	17300.00	69200.00	0.00	0.00
Subtotal				0.00		147039.90		0.00
<b>Material cost</b>								
Light oil	lit	307.322	4.00	1229.29	353.00	108484.67	1.00	307.32
Lubricant	lit	5.811	44.00	255.68	4150.00	24115.65	500.00	2905.50
Grease	kg	0.448	58.00	25.98	5395.00	2416.96	650.00	291.20
Miscellaneous(3%)				45.33		4050.52		105.12
Subtotal				1556.28		139067.73		3609.14
<b>Equipment cost</b>								
Bulldozer, 2t	hr	6.493	4510.00	29283.43	2144.00	13920.99	0.00	0.00
Tamping roller, 20t, self	hr	2.681	9825.00	26340.83	43684.00	117116.80	0.00	0.00
Rammer, 100kg	day	0.000	846.00	0.00	2738.00	0.00	0.00	0.00
Vibrating roller, hand, 1	hr	2.000	602.00	1204.00	2226.00	4452.00	0.00	0.00
Tire roller, 10t	hr	1.000	1295.00	1295.00	5143.00	5143.00	0.00	0.00
Sprinkler, 5.5kl	hr	1.000	1062.00	1062.00	4833.00	4833.00	0.00	0.00
Miscellaneous(5%)				2959.26		7273.29		0.00
Subtotal				62144.52		152739.09		0.00
Overhead(25%)				15925.20		109711.70		902.29
Total				79626.00		548558.48		4511.43
Unit price				79.63		548.56		4.51

Item No.

Work: Backfill, stocked rock

Remarks: 500m<sup>3</sup> (compacted, 0.3m)

Unit price

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty, Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labor cost</b>								
Foreman	nd	0.736	0.00	0.00	20600.00	15161.60	0.00	0.00
Operator	nd	1.791	0.00	0.00	25600.00	45849.60	0.00	0.00
Assist operator	nd	1.791	0.00	0.00	17900.00	32058.90	0.00	0.00
Driver	nd	0.100	0.00	0.00	18100.00	1810.00	0.00	0.00
Common labor	nd	4.000	0.00	0.00	17300.00	69200.00	0.00	0.00
Subtotal				0.00		164080.10		0.00
<b>Material cost</b>								
Light oil	lit	95.010	4.00	380.04	353.00	33538.53	1.00	95.01
Lubricant	lit	2.016	44.00	88.70	4150.00	8366.40	500.00	1098.00
Grease	kg	0.192	58.00	11.14	5395.00	1035.84	650.00	124.80
Miscellaneous(3%)				14.40		1288.22		36.83
Subtotal				494.28		44228.99		1264.64
<b>Equipment cost</b>								
Bulldozer, 11t	hr	2.381	2050.00	4881.05	9745.00	23202.85	0.00	0.00
Vibrating roller, 4t	hr	9.259	1368.00	12666.31	6081.00	56303.98	0.00	0.00
Rammer, 100kg	day	6.000	846.00	5076.90	2738.00	16428.00	0.00	0.00
Vib. hand, 0.5t	hr	1.300	475.00	617.50	1758.00	2285.40	0.00	0.00
Sprinkler, 5.5kl	hr	0.650	1062.00	690.30	4833.00	3141.45	0.00	0.00
Miscellaneous(5%)				1196.56		5068.08		0.00
Subtotal				25127.72		106429.76		0.00
Overhead(25%)				6405.50		78684.71		316.16
Total				32027.50		393423.56		1580.81
Unit price				64.05		786.85		3.16

Item No. \*\*\*\*\* Fukashi Happa, Explosive 50%, consumable 50%  
 Work: Blasting, rock, open excavation, plus ripping  
 Remarks: 1000m<sup>3</sup>, Bench height 3m, 20m<sup>3</sup>/hr  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty, Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	nd	3.125	0.00	0.00	20600.00	64375.00	0.00	0.00
Operator	nd	6.250	0.00	0.00	25600.00	160000.00	0.00	0.00
Assist operator	nd	6.250	0.00	0.00	17900.00	111875.00	0.00	0.00
Powder man	nd	10.000	0.00	0.00	17300.00	173000.00	0.00	0.00
Driller	nd	2.500	0.00	0.00	17300.00	43250.00	0.00	0.00
Common labor	nd	18.750	0.00	0.00	17300.00	324375.00	0.00	0.00
Subtotal				0.00		876875.00		0.00
<b>Material cost</b>								
Dynamite	kg	15.000	0.00	0.00	8343.00	125145.00	810.00	12150.00
ANFO	kg	135.000	0.00	0.00	1854.00	250290.00	180.00	24300.00
Detonator	No	158.730	0.00	0.00	4017.00	637618.41	390.00	61904.70
Cross bit, 65mm	No	0.926	43442.00	40227.29	48672.00	45255.47	0.00	0.00
Rod, 3m	No	0.695	52430.00	36438.85	58984.00	40993.88	0.00	0.00
Shank rod	No	0.463	39590.00	18330.17	44539.00	20621.56	0.00	0.00
Sleeve	No	0.463	10593.00	4904.56	11917.00	5517.57	0.00	0.00
Cross bit, 36mm	No	0.250	7383.00	1845.75	8306.00	2076.50	0.00	0.00
Taper rod, 22mm, 2m	No	0.250	9737.00	2434.25	10954.00	2738.50	0.00	0.00
Light oil	lit	850.000	4.00	3400.00	353.00	300050.00	1.00	850.00
Lubricant	lit	27.500	44.00	1210.00	4150.00	114125.00	500.00	13750.00
Grease	kg	1.550	58.00	89.90	5395.00	8362.25	650.00	1007.50
Miscellaneous(3%)				3266.42		46583.82		3418.87
Subtotal				112147.19		1599377.96		117381.07
<b>Equipment cost</b>								
Crawler drill, 10m <sup>3</sup> /min	hr	50.000	2007.00	100350.00	5223.00	411150.00	0.00	0.00
Air compressor, 13.5m <sup>3</sup> /m	day	6.250	13143.00	82143.75	52185.00	326162.50	0.00	0.00
Leg hammer, 30kg	day	1.250	1308.00	1635.00	2699.00	3373.75	0.00	0.00
Air compressor, 5m <sup>3</sup> /min	day	0.625	5468.00	3417.50	21710.00	13569.75	0.00	0.00
Miscellaneous(5%)				9377.31		37712.75		0.00
Subtotal				196923.56		791967.75		0.00
Overhead(25%)				77267.69		817055.18		29345.27
Total				386338.45		4085275.89		146726.33
Unit price(m <sup>3</sup> )				386.34		4085.28		146.73

F EARTHWORK (2)



	Unit	**FC** (Yen)	LC (S/.)	Duty, Ta (S/.)	**LC** (S/.)	Total (S/.)	Total (US\$)
Removal of topsoil, 200mm	m3	214.34	2032.21	21.33	2053.54	6876.19	3.06
Removal of topsoil, 500mm	m3	226.99	2155.64	23.07	2178.71	7285.99	3.24
Removal of topsoil, 300mm	m3	64.88	580.74	4.09	584.83	2044.63	0.91
Compact in situ subgrade, embankment	m2	57.77	542.51	2.57	545.08	1844.91	0.82
Improved subgrade material, embankment, 10km borrow	m3	17.33	162.72	0.77	163.49	553.42	0.25
Sod facing	m2	471.62	4934.96	56.49	4991.45	15602.90	6.93
Turfing	m2	3.05	496.58	0.02	496.60	565.22	0.25
Asphalt surfase	m3	0.00	4125.25	0.00	4125.25	4125.25	1.83
Prime coat	lit	1730.98	130813.16	14249.07	145062.23	184609.28	81.78
Subbase	m3	2.68	191.51	21.07	212.58	272.88	0.12
	m3	1651.73	16059.67	5126.60	21186.27	58350.20	25.93

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Package 1

Daule Peripa-Esperanza

Subbase, Conguillo access	m3	2124.23	20615.92	6645.35	27261.27	75056.45	33.36
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Item No.  
 Removal of topsoil  
 Remarks: 200m, 1000 m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labor cost</b>								
Foreman	nd	2.782	0.00	0.00	20600.00	57359.20	0.00	0.00
Operator	nd	4.595	0.00	0.00	25600.00	117632.00	0.00	0.00
Assist. operator	nd	4.595	0.00	0.00	17900.00	82250.50	0.00	0.00
Driver	nd	4.719	0.00	0.00	18100.00	85413.90	0.00	0.00
Common labor	nd	6.955	0.00	0.00	17300.00	120321.50	0.00	0.00
Sub total				0.00		462927.10		0.00
<b>Material</b>								
Light oil	lit	1111.103	4.00	4444.41	353.00	392219.36	1.00	1111.10
Lubricant	lit	29.377	44.00	1292.59	4150.00	0.00	500.00	14638.50
Grease	kg	1.182	58.00	68.56	5395.00	0.00	650.00	768.30
Miscellaneous				174.17		11766.58		497.04
Sub total				5979.72		403985.94		17064.94
<b>Equipment</b>								
Bulldozer, 21t	hr	10.638	4510.00	47977.38	21440.00	223078.72	0.00	0.00
T. shovel, 2.3 m3	hr	13.514	3578.00	48353.09	17010.00	229873.14	0.00	0.00
Dump truck, 11t	hr	30.675	1616.00	49570.80	6816.00	209080.80	0.00	0.00
Bulldozer, 11t	hr	5.714	2050.00	11713.70	9745.00	55682.93	0.00	0.00
Miscellaneous				7880.75		36135.78		0.00
Sub total				165495.72		758851.37		0.00
Overhead				42868.86		406441.10		4266.24
Total				214344.30		2032205.51		21331.18
Unit Cost				214.34		2032.21		21.33

Item No.  
 Removal of topsoil  
 Remarks:500m,1000 a3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	2.957	0.00	0.00	20600.00	60914.20	0.00	0.00
Operator	md	4.595	0.00	0.00	25600.00	117632.00	0.00	0.00
Assist. operator	md	4.595	0.00	0.00	17900.00	82250.50	0.00	0.00
Driver	md	5.594	0.00	0.00	18100.00	101251.40	0.00	0.00
Common labor	md	7.392	0.00	0.00	17300.00	127881.60	0.00	0.00
Sub total				0.00		489929.70		0.00
<b>Material</b>								
Light oil	lit	1196.438	4.00	4785.75	353.00	422342.61	1.00	1196.44
Lubricant	lit	31.766	44.00	1397.70	4150.00	0.00	500.00	15883.00
Grease	kg	1.296	58.00	75.17	5395.00	0.00	650.00	842.40
Miscellaneous				187.76		12670.28		537.66
Sub total				6446.38		435012.89		18459.49
<b>Equipment</b>								
Bulldozer,2lt	hr	10.638	4510.00	47977.38	21440.00	228078.72	0.00	0.00
T.shovel,2.3 m3	hr	13.514	3578.00	48353.09	17010.00	229873.14	0.00	0.00
Dump truck,1lt	hr	36.364	1616.00	58764.22	6816.00	247857.02	0.00	0.00
Bulldozer,1lt	hr	5.714	2050.00	11713.70	9745.00	55682.93	0.00	0.00
Miscellaneous				8340.42		38074.59		0.00
Sub total				175148.82		793566.40		0.00
Overhead				45398.80		431127.25		4614.37
Total				226994.09		2155636.25		23074.37
Unit Cost				226.99		2155.64		23.07

Item No.

Removal of topsoil

Remarks: 30m Bulldozer, 500 m<sup>3</sup>

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor Cost</b>								
Foreman	md	0.327	0.00	0.00	20600.00	6736.20	0.00	0.00
Operator	md	0.818	0.00	0.00	25600.00	20940.80	0.00	0.00
Assist. operator	md	0.818	0.00	0.00	17900.00	14642.20	0.00	0.00
Common labor	md	0.818	0.00	0.00	17300.00	14151.40	0.00	0.00
Sub total			0.00	0.00		56470.60		0.00
<b>Material</b>								
Light oil	lit	154.251	4.00	617.00	353.00	54450.60	1.00	154.25
Lubricant	lit	2.860	44.00	117.64	4150.00	0.00	500.00	1330.00
Grease	kg	0.160	58.00	9.23	5395.00	0.00	650.00	104.00
Miscellaneous				22.30		1633.52		47.65
Sub total				765.62		56084.12		1635.90
<b>Equipment</b>								
Bulldozer, 2lt	hr	5.319	4510.00	23988.69	21440.00	114039.36	0.00	0.00
Miscellaneous				1199.43		5701.97		0.00
Sub total				25188.12		119741.33		0.00
Overhead				6488.44		58074.01		408.97
Total				32442.19		290370.06		2044.87
Unit Cost				64.88		580.74		4.09

Item No.

Compact in situ subgrade, embankment

Remarks: 500 m<sup>3</sup>, 1667 m<sup>2</sup>

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labor cost</b>								
Foreman	nd	0.494	0.00	3.00	20600.00	10176.40	0.00	0.00
Operator	nd	1.235	0.00	0.00	25600.00	31616.00	0.00	0.00
Assist. operator	nd	1.235	0.00	0.00	17300.00	22106.50	0.00	0.00
Common labor	nd	1.235	0.00	0.00	17300.00	21365.50	0.00	0.00
Sub total				0.00		85264.40		0.00
<b>Material</b>								
Light oil	lit	65.530	4.00	262.12	353.00	23132.09	1.00	65.53
Lubricant	lit	1.647	44.00	72.47	4150.00	6835.05	500.00	823.50
Grease	kg	0.169	58.00	9.80	5395.00	911.76	650.00	109.85
Miscellaneous				10.33		926.37		29.97
Sub total				354.72		31805.26		1028.85
<b>Equipment</b>								
Grader, 3.7 m	hr	3.049	2644.00	8061.56	12040.00	36709.96	0.00	0.00
Tire roller, 20t	hr	2.604	1647.00	4288.79	6538.00	17024.95	0.00	0.00
Vib. roller, 10t	hr	2.380	3316.00	9320.08	17412.00	41440.56	0.00	0.00
Miscellaneous				1083.52		4758.77		0.00
Sub total				22753.95		99934.25		0.00
Overhead				5777.17		54250.98		257.21
Total				28885.83		271254.88		1286.06
Unit Cost				57.77		542.51		2.57
Unit( m <sup>2</sup> )				17.33		162.72		0.77

Item No.

Improved subgrade material, embankment

Remarks: 500 m<sup>3</sup>, (ave 10 km from borrow)

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	3.078	0.00	0.00	20600.00	63406.80	0.00	0.00
Operator	md	2.122	0.00	0.00	25600.00	54323.20	0.00	0.00
Assist. operator	md	2.122	0.00	0.00	17900.00	37983.80	0.00	0.00
Driver	md	11.148	0.00	0.00	18100.00	201778.80	0.00	0.00
Common labor	md	7.696	0.00	0.00	17300.00	133140.80	0.00	0.00
Sub total				0.00		490633.40		0.00
<b>Material</b>								
Light oil	lit	1412.298	4.00	5649.19	353.00	498541.19	1.00	1412.30
Lubricant	lit	33.823	44.00	1508.21	4150.00	161115.45	500.00	19411.50
Grease	kg	1.714	58.00	99.41	5395.00	9247.03	650.00	1114.10
Miscellaneous				223.70		20067.11		658.14
Sub total				7680.52		588970.78		22596.03
<b>Equipment</b>								
Bulldozer, 21t	hr	6.329	4510.00	28543.79	21440.00	135693.76	0.00	0.00
T. shovel, 2.3 m <sup>3</sup>	hr	7.463	3578.00	26792.61	17010.00	126945.63	0.00	0.00
Dump truck, 11t	hr	72.464	1616.00	117101.82	6916.00	493914.62	0.00	0.00
Bulldozer, 11t	hr	0.000	2050.00	0.00	9745.00	0.00	0.00	0.00
Miscellaneous				8617.41		37827.70		0.00
Sub total				180965.64		794381.71		0.00
Overhead				47161.54		493496.47		5649.01
Total				235807.70		2467482.37		28245.04
Unit Cost				471.62		4934.96		56.49

Item No.  
 Sod fasing  
 Remarks: 1 #2  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labor</b>								
Foreman	md	0.002	0.00	0.00	20600.00	41.20	0.00	0.00
Skilled labor	md	0.003	0.00	0.00	20900.00	62.70	0.00	0.00
Common labor	md	0.016	0.00	0.00	17300.00	276.80	0.00	0.00
Sub total				0.00		380.70		0.00
<b>Material</b>								
Gasoline	lit	0.015	6.00	0.09	581.00	8.72	1.00	0.02
Miscellaneous				0.00		0.26		0.00
Sub total				0.09		8.98		0.02
<b>Equipment</b>								
Compactor, 90kg	day	0.003	744.00	2.23	2410.00	7.23	0.00	0.00
Miscellaneous				0.11		0.36		0.00
Sub total				2.34		7.59		0.00
Overhead				0.61		99.32		0.00
Total				3.05		486.58		0.02
Unit Cost				3.05		486.58		0.02

Item No.

Turfing

Remarks: 1 m2

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor								
Foreman	md	0.007	0.00	0.00	20600.00	144.20	0.00	0.00
Skilled labor	md	0.015	0.00	0.00	20900.00	313.50	0.00	0.00
Common labor	md	0.075	0.00	0.00	17300.00	1297.50	0.00	0.00
Sub total				0.00		1755.20		0.00
Material								
Turf	m2	0.500	0.00	0.00	3000.00	1500.00	0.00	0.00
Fertilizer	kg	0.600		0.00		0.00		0.00
Miscellaneous				0.00		45.00		0.00
Sub total				0.00		1545.00		0.00
Overhead				0.00		825.05		0.00
Total				0.00		4125.25		0.00

Item No.  
 Asphalt surface  
 Remarks: 5cm, 100 #2  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
				(Yen)		(S/.)		(S/.)
<b>Labor</b>								
Foreman	nd	0.018	0.00	0.00	20600.00	370.80	0.00	0.00
Operator	ND	0.088	0.00	0.00	25600.00	2252.80	0.00	0.00
Assist operator	nd	0.088	0.00	0.00	17900.00	1575.20	0.00	0.00
Pave worker	nd	1.500	0.00	0.00	19000.00	28500.00	0.00	0.00
Common worker	nd	1.500	0.00	0.00	17300.00	25950.00	0.00	0.00
Sub total				0.00		58648.80		0.00
<b>Material</b>								
Asphalt mixture **	ton	11.750	428.00	5029.00	38546.00	452915.50	4818.00	56611.50
Emulsion	lit	20.000	1.00	20.00	131.00	2620.00	16.00	320.00
Light oil	lit	3.440	4.00	13.76	353.00	1214.32	1.00	3.44
Lubricant	lit	0.086	44.00	3.78	4150.00	356.90	500.00	43.00
Grease	kg	0.011	58.00	0.64	5395.00	59.35	650.00	7.15
Miscellaneous				1.15		127.52		11.21
Sub total				5068.33		457293.58		56996.30
<b>Equipment</b>								
Macadam roller	hr	0.125	1882.00	235.25	7471.00	933.88	0.00	0.00
Tire roller	hr	0.139	1647.00	228.93	6538.00	908.78	0.00	0.00
Tandem roller	hr	0.125	1281.00	160.13	5087.00	635.88	0.00	0.00
Finisher	hr	0.185	5947.00	1100.20	23612.00	4368.22	0.00	0.00
Engine spray	day	0.060	712.00	42.72	1923.00	115.38	0.00	0.00
Miscellaneous				88.36		348.11		0.00
Sub total				1855.58		7310.24		0.00
Overhead				1730.98		130813.16		14249.07
Total				8554.89		654065.78		71245.37
Unit Cost				86.55		6540.66		712.45
Unit(1 #3)				1730.98		130813.16		14249.07



Item No.

Prime coat

Remarks:1000 m2,800 lit

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor</b>								
Foreman	md	0.031	0.00	0.00	20600.00	638.60	0.00	0.00
Operator	md	0.046	0.00	0.00	25600.00	1177.60	0.00	0.00
Assist operator	md	0.046	0.00	0.00	17900.00	823.40	0.00	0.00
Pave worker	md	0.062	0.00	0.00	19000.00	1178.00	0.00	0.00
Common labor	md	0.154	0.00	0.00	17300.00	2664.20	0.00	0.00
Sub total				0.00		6481.80		0.00
<b>Material</b>								
Asphalt emulsion	lit	816.000	1.00	816.00	131.00	106896.00	16.00	13056.00
Light oil	lit	1.800	4.00	7.20	353.00	635.40	1.00	1.80
Lubricant	lit	0.045	44.00	1.98	4150.00	186.75	500.00	22.50
Grease	kg	0.010	58.00	0.58	5395.00	53.95	650.00	6.50
Gasoline	lit	2.960	6.00	17.76	581.00	1719.76	1.00	2.96
Kelosine	lit	1.280	0.60	0.60	0.00	0.00	0.00	0.00
Miscellaneous				25.31		3284.76		392.69
Sub total				868.83		112776.62		13482.45
<b>Equipment</b>								
Distributor,4000 l	hr	0.300	2550.00	765.00	10124.00	3637.20	0.00	0.00
Engine spray,200 l	day	0.060	712.00	42.72	1923.00	115.38	0.00	0.00
Miscellaneous				40.39		157.63		0.00
Sub total				848.11		3310.21		0.00
Overhead				429.23		30642.16		3370.61
Total				2146.16		153210.78		16853.07
Unit Cost				2.15		153.21		16.85
Unit( 1 lit)				2.68		191.51		21.07

Item No.  
 Subbase(Crusher-run)  
 Remarks:100 m2,20 m3,1.35m3/m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
				(Yen)		(S/.)		(S/.)
<b>Labor</b>								
Foreman	ad	0.027	0.09	0.00	20600.00	555.20	0.00	0.00
Operator	ad	0.062	0.00	0.00	25600.00	1587.20	0.00	0.00
Assist operator	ad	0.062	0.00	0.00	17900.00	1139.80	0.00	0.00
Driver	ad	0.009	0.00	0.00	18100.00	162.90	0.00	0.00
Common labor	ad	0.133	0.00	0.00	17300.00	2300.90	0.00	0.00
Sub total				0.00		5717.00		0.00
<b>Material</b>								
Crusher, graded **	m3	27.000	944.00	25488.00	9105.00	245835.00	3035.00	81945.00
Light oil	lit	2.384	4.00	9.54	353.00	841.55	1.00	2.38
Lubricant	lit	0.136	44.00	5.98	4150.00	564.40	500.00	66.00
Grease	kg	0.012	58.00	0.70	5395.00	64.74	650.00	7.80
Miscellaneous				0.49		44.12		2.35
Sub total				25504.70		247349.81		82025.53
<b>Equipment</b>								
Motor grader	hr	0.115	2644.00	304.06	12040.00	1384.60	0.00	0.00
Macadam roller	hr	0.152	1882.00	286.06	7471.00	1135.59	0.00	0.00
Tire roller	hr	0.138	1647.00	227.29	6538.00	902.24	0.00	0.00
Sprinkler	hr	0.058	1062.00	61.60	4833.00	290.31	0.00	0.00
Miscellaneous				43.95		185.14		0.00
Sub total				922.96		3887.89		0.00
Overhead				6606.91		64238.66		20506.38
Total				33034.57		321193.38		102531.91
Unit Cost				1651.73		16059.67		5126.60

Item No.

Subbase(Crusher-run), Package 1, Conguillo access road

Remarks: 100 m<sup>2</sup>, 20 m<sup>3</sup>, 1.35m<sup>3</sup>/m<sup>3</sup>

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labor</b>								
Foreman	md	0.027	0.00	0.00	20600.00	556.20	0.00	0.00
Operator	md	0.062	0.00	0.00	25600.00	1587.20	0.00	0.00
Assist operator	md	0.062	0.00	0.00	17900.00	1109.80	0.00	0.00
Driver	md	0.009	0.00	0.00	18100.00	162.90	0.00	0.00
Common labor	md	0.133	0.00	0.00	17300.00	2390.90	0.00	0.00
Sub total				0.00		5717.00		0.00
<b>Material</b>								
Crusher, graded **	m <sup>3</sup>	27.000	1224.00	33048.00	11835.00	318735.00	3935.00	106245.00
Light oil	lit	2.384	4.00	9.54	353.00	841.55	1.00	2.38
Lubricant	lit	0.136	44.00	5.98	4150.00	564.40	500.00	68.00
Grease	kg	0.012	58.00	0.70	5395.00	64.74	650.00	7.80
Miscellaneous				0.49		44.12		2.35
Sub total				33064.70		320249.81		106325.53
<b>Equipment</b>								
Motor grader	hr	0.115	2644.00	304.06	12040.00	1384.60	0.00	0.00
Macadam roller	hr	0.152	1882.00	286.06	7471.00	1135.59	0.00	0.00
Tire roller	hr	0.138	1647.00	227.29	6538.00	902.24	0.00	0.00
Sprinkler	hr	0.058	1062.00	61.60	4833.00	280.31	0.00	0.00
Miscellaneous				43.95		185.14		0.00
Sub total				922.96		3887.89		0.00
Overhead				8496.91		82463.68		26581.38
Total				42484.57		412318.38		132906.91
Unit Cost				2124.23		20615.92		6645.35

G EARTHWORK (3)



Work	Unit	** PC ** (Yen)	LC (S/.)	Duty, Tax (S/.)	** LC ** (S/.)	Total (S/.)	Total (US\$)
Backfill by hand, sand & gravel	m3	1357.07	16082.88	4332.84	20415.72	50949.80	22.64
Compaction, rammer	m3	77.02	5450.36	0.44	5450.80	7183.75	3.19
Gravel surface	m3	1413.24	30326.58	4332.76	34659.34	66457.24	29.54
Gravel bedding	m3	1357.07	35320.75	4332.84	39653.59	70187.67	31.19
Sand bedding	m3	1357.07	35320.75	4332.84	39653.59	70187.67	31.19
Exc trench and drainage							
Backhoe 0.2m3	m3	92.17	944.89	7.79	952.68	3026.51	1.35
Exc trench, 100cm	m3	276.40	2913.40	28.99	2942.39	9161.39	4.07
Trench cut, rock, 0.2m3 backhoe	m3	280.66	22310.63	669.10	22979.73	29294.58	13.02
**Package 1**							
Backfill by hand, sand & gravel	m3	1735.60	19732.94	5549.52	25282.46	64333.46	28.59
Gravel surface	m3	1791.77	33976.65	5549.45	39526.10	79840.93	35.48
Gravel bedding	m3	1735.60	38970.82	5549.52	44520.34	83571.34	37.14
Sand bedding	m3	1735.60	38970.82	5549.52	44520.34	83571.34	37.14
Sand and gravel, package 1	m3	1434.09	21533.23	4333.27	25866.50	58133.53	25.84
Sand and gravel							
Rammer							
Sand and gravel, package 2	m3	1812.62	25183.30	5549.96	30733.26	71517.21	31.79
Sand and gravel							
Rammer							

Item No.

Work: Backfill by hand, sand & gravel

Remarks: 1m3 (concrete aggregate, drain, bedding)

Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	nd	0.007	0.00	0.00	20600.00	144.20	0.00	0.00
Skilled labor	nd	0.014	0.00	0.00	20900.00	232.60	0.00	0.00
Common labor	nd	0.114	0.00	0.00	17300.00	1972.20	0.00	0.00
Subtotal				0.00		2409.00		0.00
<b>Material cost</b>								
Sand and gravel****	m3	1.050	997.00	1046.85	9615.00	10095.75	3205.00	3365.25
Gasoline	lit	0.060	6.00	0.36	581.00	34.86	1.00	0.06
Miscellaneous(3%)				31.42		303.92		100.96
Subtotal				1078.63		10434.53		3466.27
<b>Equipment cost</b>								
Compactor, 90kg	day	0.009	744.00	6.70	2410.00	21.69	0.00	0.00
Miscellaneous(5%)				0.33		1.08		0.00
Subtotal				7.03		22.77		0.00
Overhead(25%)				271.41		3216.58		866.57
<b>Total</b>				<b>1357.07</b>		<b>16082.88</b>		<b>4332.84</b>

Item No.

Work: Compaction by hand

Remarks: 1m3, rammer

Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Labopr cost								
Foreman	ad	0.007	0.00	0.00	20600.00	144.20	0.00	
Skilled labor	ad	0.100	0.00	0.00	20900.00	2090.00	0.00	
Common labor	ad	0.100	0.00	0.00	17300.00	1730.00	0.00	
Subtotal				0.00		3964.20	0.00	
Material cost								
Gasoline	lit	0.340	6.00	2.04	581.00	197.54	1.00	
Miscellaneous(3%)				0.06		5.93	0.01	
Subtotal				2.10		203.47	0.35	
Equipment cost								
Rammer	day	0.067	846.00	56.68	2738.00	163.45	0.00	
Miscellaneous(5%)				2.83		9.17	0.00	
Subtotal				59.52		192.62	0.00	
Overhead(25%)				15.40		1090.07	0.09	
Total				77.02		5450.36	0.44	



Item No.

Work: Gravel surface

Remarks: 1m3

Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Labour cost								
Foreman	no	0.050	0.00	0.00	29600.00	1030.00	0.00	
Skilled labor	no	0.120	0.00	0.00	20900.00	2508.00	0.00	
Common labor	no	0.587	0.00	0.00	17300.00	10155.10	0.00	
Subtotal				0.00		13693.10	0.00	
Material cost								
Gravel****	m3	1.050	997.00	1046.85	3615.00	10095.75	3205.00	
Miscellaneous(3%)				31.41		302.87	100.96	
Subtotal				1078.26		10398.62	3466.21	
Equipment cost								
Compactor, 90kg	day	0.067	744.00	49.85	2410.00	161.47	0.00	
Miscellaneous(5%)				2.49		8.07	0.00	
Subtotal				52.34		169.54	0.00	
Overhead(25%)				282.85		6065.32	866.55	
Total				1413.24		30326.58	4332.76	

Item No.

Work: Gravel bedding by hand

Remarks: 1m<sup>3</sup> Conc. aggregate

Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labor cost</b>								
Foreman	nd	0.065	0.00	0.00	29600.00	1339.00	0.00	0.00
Skilled labor	nd	0.156	0.00	0.00	20900.00	3260.40	0.00	0.00
Common labor	nd	0.763	0.00	0.00	17300.00	13199.90	0.00	0.00
Subtotal				0.00		17799.30		0.00
<b>Material cost</b>								
Sand and gravel****	m <sup>3</sup>	1.050	997.00	1046.85	9615.00	10095.75	3205.00	3365.25
Gasoline	lit	0.060	6.00	0.36	581.00	34.86	1.00	0.06
Miscellaneous(3%)				31.42		303.92		100.96
Subtotal				1078.63		10434.53		3466.27
<b>Equipment cost</b>								
Compactor, 90kg	day	0.009	744.00	6.70	2410.00	21.69	0.00	0.00
Miscellaneous(5%)				0.33		1.08		0.00
Subtotal				7.03		22.77		0.00
Overhead(25%)				271.41		7064.15		866.57
Total				1357.07		35320.75		4332.84

Item No.  
 Work: Sand bedding  
 Remarks: 1m3, Conc. aggregate  
 Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labour cost</b>								
Foreman	md	0.065	0.00	0.00	20600.00	1339.00	0.00	0.00
Skilled labor	md	0.156	0.00	0.00	20900.00	3260.40	0.00	0.00
Common labor	md	0.753	0.00	0.00	17300.00	13199.90	0.00	0.00
Subtotal				0.00		17799.30		0.00
<b>Material cost</b>								
Sand and gravel*****	m3	1.950	997.00	1046.85	9615.00	10695.75	3205.00	3365.25
Gasoline	lit	0.069	6.00	9.36	581.00	34.86	1.00	0.06
Miscellaneous(3%)				31.42		303.92		100.96
Subtotal				1078.63		10434.53		3466.27
<b>Equipment cost</b>								
Compactor, 90kg	day	0.009	744.00	6.70	2410.00	21.69	0.00	0.00
Miscellaneous(5%)				0.33		1.08		0.00
Subtotal				7.03		22.77		0.00
Overhead(25%)				271.41		7064.15		866.57
<b>Total</b>				<b>1357.07</b>		<b>35320.75</b>		<b>4332.84</b>

Item No.  
 Work: Sod facing w/hand  
 Remarks: 102  
 Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labopr cost								
Foreman	ad	0.003	0.00	0.00	20600.00	61.80	0.00	0.00
Skilled labor	ad	0.065	0.00	0.00	20900.00	104.50	0.00	0.00
Common labor	ad	0.024	0.00	0.00	17300.00	415.20	0.00	0.00
Subtotal				0.00		581.50		0.00
Overhead(25%)				0.00		145.38		0.00
Total				0.00		726.88		0.00

Itea No.

Work:Excavation,trench and drainage

Remarks:10m<sup>3</sup>,backhoe 0.2m<sup>3</sup>

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	0.001	0.00	0.00	20600.00	20.60	0.00	0.00
Operator	md	0.067	0.00	0.00	25600.00	1715.20	0.00	0.00
Assist operator	md	0.000	0.00	0.00	17300.00	0.00	0.00	0.00
Common labor	md	0.067	0.00	0.00	17300.00	1159.10	0.00	0.00
Subtotal				0.00		2894.90		0.00
<b>Material cost</b>								
Light oil	lit	2.418	4.00	9.67	353.00	853.55	1.00	2.42
Lubricant	lit	0.098	44.00	4.31	4150.00	406.70	500.00	49.00
Grease	kg	0.014	58.00	0.81	5395.00	75.53	650.00	9.10
Miscellaneous(3%)				0.44		40.07		1.82
Subtotal				15.24		1375.86		62.33
<b>Equipment cost</b>								
Backhoe,0.2m <sup>3</sup>	hr	0.465	1470.00	687.74	6735.00	3131.78	0.00	0.00
Miscellaneous(5%)				34.39		156.59		0.00
Subtotal				722.12		3288.36		0.00
Overhead(25%)				184.34		1889.78		15.58
Total				921.70		9448.90		77.92
Unit price				92.17		944.89		7.79

Item No.

Work: Trench excavation including transportation

Remarks: 500m3, 1000m

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labor cost</b>								
Foreman	md	2.128	0.00	0.00	20600.00	43836.80	0.00	0.00
Operator	md	3.398	0.00	0.00	25600.00	86988.80	0.00	0.00
Assist operator	md	3.398	0.00	0.00	17900.00	60824.36	0.00	0.00
Driver	md	3.846	0.00	0.00	18100.00	69612.60	0.00	0.00
Common labor	md	5.321	0.00	0.00	17300.00	92053.30	0.00	0.00
Subtotal				0.00		353315.70		0.00
<b>Material cost</b>								
Light oil	lit	648.627	4.00	2594.51	353.00	228965.33	1.00	618.63
Lubricant	lit	19.242	44.00	846.65	4150.00	79854.30	500.00	9621.00
Grease	kg	1.519	58.00	88.10	5395.00	8195.01	650.00	987.35
Miscellaneous(3%)				105.88		9510.44		337.71
Subtotal				3635.14		326525.08		11594.69
<b>Equipment cost</b>								
Bulldozer, 21t	hr	0.000	4510.00	0.00	21440.00	0.00	0.00	0.00
Backhoe, 0.6m3	hr	19.231	2890.00	55577.59	13736.00	264157.02	0.00	0.00
Dump truck, 11t	hr	25.000	1616.00	40400.00	6816.00	170400.00	0.00	0.00
Bulldozer, 11t	hr	2.357	2050.00	5856.85	9745.00	27841.47	0.00	0.00
Miscellaneous(5%)				5091.72		23119.92		0.00
Subtotal				105926.16		485518.41		0.00
Overhead(25%)				27640.32		291339.60		2898.67
Total				138201.62		1456698.98		14493.36
Unit price(m3)				276.40		2913.40		28.99

Item No.

Work: Trench cut, rock excavation

Remarks: 10m3, 0.2m3 backhoe

Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labour cost</b>								
Foreman	nd	0.051	0.00	0.00	20800.00	1050.63	0.00	0.00
Driller	nd	3.000	0.00	0.00	17300.00	51900.00	0.00	0.00
Powder operator	nd	1.000	0.00	0.00	17300.00	17300.00	0.00	0.00
Operator	nd	0.084	0.00	0.00	25600.00	2150.40	0.00	0.00
Common labor	nd	2.084	0.00	0.00	17300.00	36053.20	0.00	0.00
Subtotal				0.00		108454.20		0.00
<b>Material cost</b>								
Taper rod, 22mm, 2m	No	0.050	9737.00	486.85	10954.00	547.70	0.00	0.00
Cross bit, 36mm	No	0.050	7383.00	369.15	8306.00	415.30	0.00	0.00
Dynamite	kg	1.000	0.00	0.00	8343.00	8343.00	810.00	810.00
Detonator	No	10.000	0.00	0.00	4017.00	40170.00	390.00	3900.00
Light oil	lit	27.381	4.00	109.52	353.00	9665.49	1.00	27.38
Lubricant	lit	0.893	44.00	39.29	4150.00	3705.95	500.00	446.50
Grease	kg	0.020	58.00	1.16	5395.00	107.90	650.00	13.00
Miscellaneous(3%)				30.18		1888.66		155.91
Subtotal				1036.16		64844.00		5352.79
<b>Equipment cost</b>								
Jackhammer, 30kg	day	0.070	1000.00	70.00	2063.00	144.41	0.00	0.00
Air compressor, 7m3/min	day	0.030	7408.00	222.24	29413.00	882.39	0.00	0.00
Backhoe, 0.2m3	hr	0.581	1459.00	859.30	6735.00	3912.04	0.00	0.00
Miscellaneous(5%)				57.58		246.99		0.00
Subtotal				1209.12		5186.83		0.00
Overhead(25%)				561.32		44621.26		1338.20
<b>Total</b>				<b>2806.59</b>		<b>223106.29</b>		<b>6690.93</b>
<b>Unit price(m3)</b>				<b>280.66</b>		<b>22310.63</b>		<b>669.10</b>

Item No.

Work: Backfill by hand, sand & gravel

Remarks: 1m3 (concrete aggregate, drain, bedding)

Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labour cost								
Foreman	md	0.007	0.00	0.00	20600.00	144.20	0.00	0.00
Skilled labor	md	0.014	0.00	0.00	20900.00	292.60	0.00	0.00
Common labor	md	0.114	0.00	0.00	17300.00	1972.20	0.00	0.00
Subtotal				0.00		2409.00		0.00
Material cost								
Sand and gravel*****	m3	1.050	1277.00	1340.85	12315.00	12930.75	4105.00	4310.25
Gasoline	lit	0.060	6.00	6.36	581.00	34.86	1.00	0.06
Miscellaneous(3%)				40.24		388.97		129.31
Subtotal				1381.45		13354.58		4439.62
Equipment cost								
Compactor, 90kg	day	0.009	744.00	6.70	2410.00	21.69	0.00	0.00
Miscellaneous(5%)				9.33		1.98		0.00
Subtotal				7.03		22.77		0.00
Overhead(25%)				347.12		3945.59		1109.90
Total				1735.60		19732.94		5549.52



Item No.  
 Work: Gravel surface  
 Remarks: 1m3  
 Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labopr cost</b>								
Foreman	md	0.050	0.00	0.00	20600.00	1030.00	0.00	0.00
Skilled labor	md	0.120	0.00	0.00	20900.00	2508.00	0.00	0.00
Common labor	md	0.587	0.00	0.00	17300.00	10155.19	0.00	0.00
Subtotal				0.00		13693.10		0.00
<b>Material cost</b>								
Gravel****	m3	1.050	1277.00	1340.85	12315.00	12930.75	4105.00	4310.25
Miscellaneous(3%)				40.23		387.92		129.31
Subtotal				1381.08		13318.67		4439.56
<b>Equipment cost</b>								
Compactor, 90kg	day	0.067	744.00	49.85	2410.00	161.47	0.00	0.00
Miscellaneous(5%)				2.49		8.07		0.00
Subtotal				52.34		169.54		0.00
Overhead(25%)				358.35		6795.33		1109.89
<b>Total</b>				<b>1791.77</b>		<b>33976.65</b>		<b>5549.45</b>

Item No.  
 Work: Gravel bedding by hand  
 Remarks: 1m3, Conc. aggregate  
 Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labour cost</b>								
Foreman	md	0.065	0.00	0.00	20600.00	1339.00	0.00	0.00
Skilled labor	md	0.156	0.00	0.00	20900.00	3260.40	0.00	0.00
Common labor	md	0.763	0.00	0.00	17300.00	13199.90	0.00	0.00
Subtotal				0.00		17799.30		0.00
<b>Material cost</b>								
Sand and gravel****	m3	1.050	1277.00	1340.85	12315.00	12930.75	4105.00	4310.25
Gasoline	lit	0.660	6.00	0.36	581.00	24.86	1.90	0.06
Miscellaneous(3%)				40.24		388.97		129.31
Subtotal				1381.45		13354.58		4439.62
<b>Equipment cost</b>								
Compactor, 90kg	day	0.009	744.00	6.70	2410.00	21.69	0.00	0.00
Miscellaneous(5%)				0.33		1.08		0.00
Subtotal				7.03		22.77		0.00
Overhead(25%)				347.12		7794.16		1109.90
<b>Total</b>				<b>1735.60</b>		<b>38970.82</b>		<b>5549.52</b>

Item No.  
 Work: Sand bedding  
 Remarks: 1m3, Conc. aggregate  
 Unit price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labour cost</b>								
Foreman	nd	0.065	0.00	0.00	20600.00	1339.00	0.00	0.00
Skilled labor	nd	0.156	0.00	0.00	20900.00	3260.40	0.00	0.00
Common labor	nd	0.763	0.00	0.00	17300.00	13199.90	0.00	0.00
Subtotal				0.00		17799.30		0.00
<b>Material cost</b>								
Sand and gravel*****	m3	1.050	1277.00	1340.85	12315.00	12930.75	4105.00	4310.25
Gasoline	lit	0.060	6.00	0.36	581.00	34.36	1.00	0.06
Miscellaneous(3%)				40.24		388.97		129.31
Subtotal				1381.45		13354.58		4439.62
<b>Equipment cost</b>								
Compactor, 90kg	day	0.009	744.00	6.70	2410.00	21.69	0.00	0.00
Miscellaneous(5%)				0.33		1.08		0.00
Subtotal				7.03		22.77		0.00
Overhead(25%)				347.12		7794.16		1109.90
<b>Total</b>				<b>1735.60</b>		<b>38970.82</b>		<b>5549.52</b>

H EARTHWORK (4)



Work	Unit	** FC ** (Yen)	LC (S/.)	Duty, Tax (S/.)	** LC ** (S/.)	Total (S/.)	Total (US\$)
Clearing	#2	14.19	213.21	0.70	213.91	533.19	0.24
Land levelling	#2	14.79	164.33	1.20	165.53	498.31	0.22

Item No.  
 Work: Clearing and stripping  
 Remarks: 500m2  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)-	Unit Cost	Amount (S/.)
<b>Labor cost</b>								
Foreman	md	0.040	0.00	0.00	20600.00	824.00	0.00	0.00
Operator	md	0.200	0.00	0.00	25600.00	5120.00	0.00	0.00
Assist operator	md	0.200	0.00	0.00	17900.00	3580.00	0.00	0.00
Common labor	md	2.000	0.00	0.00	17300.00	34600.00	0.00	0.00
Subtotal				0.00		44124.00		0.00
<b>Material cost</b>								
Light oil	lit	35.647	4.00	142.59	353.00	12583.39	1.00	35.65
Lubricant	lit	0.329	44.00	14.48	4150.00	1365.35	500.00	164.50
Grease	kg	0.110	58.00	6.38	5395.00	593.45	650.00	71.50
Miscellaneous(3%)				4.90		436.27		8.15
Subtotal				163.35		14978.46		279.80
<b>Equipment cost</b>								
Bulldozer, 21t	hr	1.163	4510.00	5245.13	21440.00	24934.72	0.00	0.00
Miscellaneous(5%)				262.26		1246.74		0.00
Subtotal				5507.39		26181.46		0.00
Overhead(25%)				1418.93		21320.98		69.95
Total				7094.67		106604.89		349.75
Unit price(m2)				14.19		213.21		0.70

Item No.  
 Work: Land levelling  
 Remarks: 100m2  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
				(Yen)		(S/.)		(S/.)
<b>Labor cost</b>								
Foreman	nd	0.006	0.00	0.90	20660.00	123.60	0.00	0.00
Operator	nd	0.057	0.00	0.00	25660.00	1459.20	0.00	0.00
Assist operator	nd	0.057	0.00	0.30	17900.00	1020.30	0.00	0.00
Common labor	nd	0.086	0.00	0.00	17300.00	1487.80	0.00	0.00
Subtotal				0.00		4090.90		0.00
<b>Material cost</b>								
Light oil	lit	7.960	4.00	31.84	353.00	2809.88	1.00	7.96
Lubricant	lit	0.160	44.00	7.04	4150.00	664.00	500.00	80.00
Grease	kg	0.008	58.00	0.46	5395.00	43.16	650.00	5.20
Miscellaneous(3%)				1.18		105.51		2.79
Subtotal				40.52		3622.55		95.95
<b>Equipment cost</b>								
Bulldozer, 15t	hr	0.400	2721.00	1088.40	12935.00	5174.00	0.00	0.00
Miscellaneous(5%)				54.42		258.70		0.00
Subtotal				1142.82		5432.70		0.00
Overhead(25%)				295.84		3286.54		23.99
Total				1479.18		16432.69		119.94
Unit price(m2)				14.79		164.33		1.20





I CONCRETE WORK (1)



	Unit	** FC ** (Yen)	LC (S/.)	Duty, Tax (S/.)	** LC ** (S/.)	Total (S/.)	Total (US\$)
<b>**Daule-Esperanza**</b>							
Concrete, A, 20mm	m3	5532.22	58969.17	16941.06	75910.23	200385.18	89.06
Concrete, B, 40mm	m3	4848.23	51065.35	14938.35	66003.70	175088.88	77.82
Concrete, C, 20mm	m3	4673.66	48988.87	14435.77	63424.64	168581.99	74.93
Concrete, D, 40mm	m3	4741.47	49773.60	14634.15	64407.75	171090.83	76.04
Concrete, E, 40mm	m3	4517.28	47219.44	13972.32	61191.76	162830.56	72.37
Concrete, F, 20mm	m3	4783.25	50307.83	14749.03	65056.86	172679.99	76.75
Concrete, G, 40mm	m3	3888.31	42432.18	12846.60	55278.78	142765.76	63.45
Concrete, H, 20mm	m3	3947.34	43450.34	13067.83	56518.17	145333.32	64.59
Concrete A, 20mm, 3km, pump	m3	6742.09	71514.14	17019.90	88534.04	240231.07	106.77
Concrete A, 20mm, 3km, bucket	m3	7117.70	73129.08	17023.31	90152.39	250300.64	111.24
Concrete A, 20mm, 3km, excl. place	m3	6424.61	67597.59	17002.92	84600.51	229154.24	101.85
Concrete B, 40mm, 3km, pump	m3	6058.10	63610.32	15017.19	78627.51	214934.76	95.53
Concrete B, 40mm, 3km, bucket	m3	6433.71	65225.26	15020.60	80245.86	225004.34	100.00
Concrete B, 40mm, 3km, excl. place	m3	5740.62	59693.77	15000.21	74693.98	203857.93	90.60
Concrete C, 20mm, 3km, pump	m3	5883.53	61533.84	14514.61	76048.45	208427.88	92.63
Concrete C, 20mm, 3km, bucket	m3	6259.14	63148.78	14518.02	77666.80	218497.45	97.11
Concrete C, 20mm, 3km, excl. place	m3	5566.05	57617.29	14497.63	72114.92	197351.05	87.71
Concrete D, 40mm, 3km, pump	m3	5951.34	62318.57	14712.99	77031.56	210936.71	93.75
Concrete D, 40mm, 3km, bucket	m3	6326.95	63933.51	14716.40	78649.91	221006.29	98.23
Concrete D, 40mm, 3km, excl. place	m3	5633.86	58402.02	14696.01	73098.03	198859.88	88.83
Concrete E, 40mm, 3km, pump	m3	5727.15	59764.41	14051.16	73815.57	202676.45	90.08
Concrete E, 40mm, 3km, bucket	m3	6102.76	61379.35	14954.57	75433.92	212746.02	94.55
Concrete E, 40mm, 3km, excl. place	m3	5409.67	55847.88	14034.18	69882.04	191599.62	85.16
Concrete F, 20mm, 3km, pump	m3	5993.12	62852.80	14827.87	77660.67	212525.87	94.46
Concrete F, 20mm, 3km, bucket	m3	6368.73	64467.74	14831.28	79299.02	222595.45	93.93
Concrete F, 20mm, 3km, excl. place	m3	5675.64	58936.25	14810.89	73747.14	201449.04	89.53
Concrete G, 40mm, 3km, pump	m3	5091.18	54977.15	12925.44	67902.59	182454.14	81.09
Concrete G, 20mm, 3km, bucket	m3	5466.79	56592.09	12928.85	69520.94	192523.72	85.57
Concrete G, 20mm, 3km, excl. place	m3	4773.70	51060.60	12908.46	63969.06	171377.31	76.17
Concrete H, 20mm, 3km, pump	m3	5157.21	55995.31	13146.67	69141.98	185179.21	82.30
Concrete H, 20mm, 3km, bucket	m3	5532.82	57610.25	13150.08	70760.33	195248.78	86.78
Concrete H, 20mm, 3km, excl. place	m3	4839.73	52078.76	13129.63	65208.45	174102.38	77.38
Concrete A, 20mm, 1km, pump	m3	6556.59	69603.08	16999.52	86602.60	234125.88	104.06
Concrete A, 20mm, 1km, bucket	m3	6932.20	71218.02	17002.93	88220.95	244195.45	108.53
Concrete A, 20mm, 1km, excl. place	m3	6239.11	65686.53	16982.54	82669.07	223049.05	99.13
Concrete B, 40mm, 1km, pump	m3	5872.60	61699.26	14996.81	76696.07	208829.57	92.81
Concrete B, 40mm, 1km, bucket	m3	6248.21	63314.20	15000.22	78314.42	218899.15	97.29
Concrete B, 40mm, 1km, excl. place	m3	5555.12	57782.71	14979.83	72762.54	197752.74	87.89
Concrete C, 20mm, 1km, pump	m3	5698.03	59622.78	14494.23	74117.01	202322.69	89.92
Concrete C, 20mm, 1km, bucket	m3	6073.64	61237.72	14497.64	75735.36	212392.26	94.40
Concrete C, 20mm, 1km, excl. place	m3	5380.55	55706.23	14477.25	70183.48	191245.86	85.60
Concrete D, 40mm, 1km, pump	m3	5765.84	60407.51	14692.61	75100.12	204831.52	91.04
Concrete D, 40mm, 1km, bucket	m3	6141.45	62022.45	14696.02	76718.47	214901.10	95.51
Concrete D, 40mm, 1km, excl. place	m3	5448.36	56490.96	14675.63	71166.59	193754.69	86.11
Concrete E, 40mm, 1km, pump	m3	5541.65	57853.35	14030.78	71884.13	196571.26	87.37
Concrete E, 40mm, 1km, bucket	m3	5917.26	59468.29	14034.19	73502.48	206640.83	91.84
Concrete E, 40mm, 1km, excl. place	m3	5224.17	53936.80	14013.80	67950.60	185494.43	82.44
Concrete F, 20mm, 1km, pump	m3	5807.62	60941.74	14807.49	75749.23	206420.68	91.74
Concrete F, 20mm, 1km, bucket	m3	6183.23	62556.68	14810.90	77367.58	216490.26	96.22
Concrete F, 20mm, 1km, excl. place	m3	5490.14	57025.19	14790.51	71815.70	195343.85	86.82
Concrete G, 40mm, 1km, pump	m3	4905.68	53066.09	12905.06	65971.15	176348.95	78.38

	Unit	** FC ** (Yen)	LC (S/.)	Duty, Tax (S/.)	** LC ** (S/.)	Total (S/.)	Total (US\$)
<b>**Daule-Esperanza**</b>							
Concrete G, 20mm, 1km, bucket	m3	5281.29	54681.03	12908.47	67589.50	186418.53	82.85
Concrete G, 20mm, 1km, excl. place	m3	4588.20	49149.54	12888.08	62037.62	165272.12	73.45
Concrete H, 20mm, 1km, pump	m3	4971.71	54084.25	13126.29	67210.54	179074.02	79.59
Concrete H, 20mm, 1km, bucket	m3	5347.32	55699.19	13129.70	68828.89	189143.59	84.06
Concrete H, 20mm, 1km, excl. place	m3	4654.23	50167.70	13109.31	63277.01	167997.19	74.67
Concrete A, 20mm, 6km, pump	m3	7020.32	74380.71	17050.45	91431.16	249388.36	110.84
Concrete A, 20mm, 6km, bucket	m3	7395.93	75995.65	17053.86	93049.51	259457.94	115.31
Concrete A, 20mm, 6km, excl. place	m3	6702.84	70464.16	17033.47	87497.63	238311.53	105.92
Concrete B, 40mm, 6km, pump	m3	6336.33	66476.89	15047.74	81524.63	224092.06	99.60
Concrete B, 40mm, 6km, bucket	m3	6711.94	68091.83	15051.15	83142.98	234161.63	104.07
Concrete B, 40mm, 6km, excl. place	m3	6018.85	62560.34	15030.76	77591.10	213015.23	94.67
Concrete C, 20mm, 6km, pump	m3	6161.76	64400.41	14545.16	78945.57	217585.17	96.70
Concrete C, 20mm, 6km, bucket	m3	6537.37	66015.35	14548.57	80563.92	227654.75	101.18
Concrete C, 20mm, 6km, excl. place	m3	5844.28	60483.86	14528.18	75012.04	206508.34	91.78
Concrete D, 40mm, 6km, pump	m3	6229.57	65185.14	14743.54	79928.68	220094.01	97.82
Concrete D, 40mm, 6km, bucket	m3	6605.18	66800.08	14746.95	81547.03	230163.58	102.29
Concrete D, 40mm, 6km, excl. place	m3	5912.09	61268.59	14726.56	75995.15	209017.18	92.90
Concrete E, 40mm, 6km, pump	m3	6005.38	62630.98	14081.71	76712.69	211833.74	94.15
Concrete E, 40mm, 6km, bucket	m3	6380.99	64245.92	14085.12	78331.04	221903.32	98.62
Concrete E, 40mm, 6km, excl. place	m3	5687.90	58714.43	14064.73	72779.16	200756.91	89.23
Concrete F, 20mm, 6km, pump	m3	6271.35	65719.37	14858.42	80577.79	221683.17	98.53
Concrete F, 20mm, 6km, bucket	m3	6646.96	67334.31	14861.83	82196.14	231752.74	103.00
Concrete F, 20mm, 6km, excl. place	m3	5953.87	61802.82	14841.44	76644.26	210606.34	93.60
Concrete G, 40mm, 6km, pump	m3	5369.41	57843.72	12955.99	70799.71	191611.44	85.16
Concrete G, 20mm, 6km, bucket	m3	5745.02	59458.66	12959.40	72418.06	201881.01	89.64
Concrete G, 20mm, 6km, excl. place	m3	5051.93	53927.17	12939.01	66866.18	180534.61	80.24
Concrete H, 20mm, 6km, pump	m3	5435.44	58861.88	13177.22	72039.10	194336.50	86.37
Concrete H, 20mm, 6km, bucket	m3	5811.05	60476.82	13180.63	73657.45	204406.08	90.85
Concrete H, 20mm, 6km, excl. place	m3	5117.96	54945.33	13160.24	68105.57	183259.67	81.45

\*\*\*\*Daule Peripa-Esperanza Tunnel\*\*\*\*

Item No.

Work:Concret type A,20mm

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost								
Portland cement	ton	0.430	4969.00	2136.67	65360.00	28104.80	17200.00	7396.00
Aggregate, fine***	ton	0.711	903.00	642.03	8710.00	6192.81	2904.00	2064.74
Aggregate, coarse***	ton	1.138	1011.00	1150.52	9745.00	11089.81	3249.00	3697.36
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	1.075	342.00	367.65	385.00	413.88	0.00	0.00
Miscellaneous(3%)				128.91		1374.04		394.74
Subtotal				4425.78		47175.33		13552.85
Overhead				1106.44		11793.83		3388.21
Total				5532.22		58969.17		16941.06

Item No.

Work:Concret type B,40mm

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost								
Portland cement	ton	0.330	4969.00	1639.77	65360.00	21568.80	17200.00	5676.00
Aggregate, fine***	ton	0.771	903.00	696.21	8710.00	6715.41	2904.00	2238.98
Aggregate, coarse***	ton	1.135	1011.00	1147.49	9745.00	11060.58	3249.00	3637.62
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.825	342.00	282.15	385.00	317.63	0.00	0.00
Miscellaneous(3%)				112.97		1189.87		348.08
Subtotal				3378.59		40852.28		11950.68
Overhead				969.65		10213.07		2987.67
Total				4348.23		51065.35		14938.35

Item No.  
 Work:Concret type C,20mm  
 Remarks:1m<sup>3</sup>  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost							
Portland cement	ton	0.300	4969.00	1490.70	65360.00	19608.00	17200.00
Aggregate,fine***	ton	0.727	903.00	656.48	8710.00	6332.17	2904.00
Aggregate,coarse***	ton	1.213	1011.00	1226.34	9745.00	11820.69	3249.00
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00
Water reducing agent	kg	0.750	342.00	256.50	385.00	288.75	0.00
Miscellaneous(3%)				108.90		1141.49	336.37
Subtotal				3738.92		39191.09	11548.61
Overhead				934.73		9797.77	2887.15
Total				4673.66		48988.87	14435.77

Item No.  
 Work:Concret type D,40mm  
 Remarks:1m<sup>3</sup>  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost							
Portland cement	ton	0.310	4969.00	1540.39	65360.00	20261.60	17200.00
Aggregate,fine***	ton	0.713	903.00	643.84	8710.00	6210.23	2904.00
Aggregate,coarse***	ton	1.220	1011.00	1233.42	9745.00	11888.90	3249.00
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00
Water reducing agent	kg	0.775	342.00	265.05	385.00	298.38	0.00
Miscellaneous(3%)				110.48		1159.77	340.99
Subtotal				3793.18		39818.88	11707.32
Overhead				948.29		9954.72	2926.83
Total				4741.47		49773.60	14634.15

Item No.  
 Work:Concret type E,40mm  
 Remarks:1m<sup>3</sup>  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost							
Portland cement	ton	0.280	4969.00	1391.32	65360.00	18300.80	17200.00
Aggregate,fine***	ton	0.745	903.00	672.74	8710.00	6488.95	2904.00
Aggregate,coarse***	ton	1.192	1011.00	1205.11	9745.00	11616.04	3249.00
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00
Water reducing agent	kg	0.700	342.00	239.40	385.00	269.50	0.00
Miscellaneous(3%)				105.26		1100.26	325.57
Subtotal				3613.82		37775.55	11177.86
Overhead				903.46		9443.89	2794.46
Total				4517.28		47219.44	13972.32

Item No.  
 Work: Concret type F, 20mm  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Material cost								
Portland cement	ton	0.320	4969.00	1590.08	65360.00	20915.20	17200.00	5504.00
Aggregate, fine***	ton	0.774	903.00	698.92	8710.00	6741.54	2904.00	2247.70
Aggregate, coarse***	ton	1.140	1011.00	1152.54	9745.00	11109.30	3249.00	3763.86
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.800	342.00	273.60	385.00	308.00	0.00	0.00
Miscellaneous(3%)				111.45		1172.22		343.67
Subtotal				3826.60		40246.26		11799.22
Overhead				956.65		10061.57		2949.81
Total				4783.25		50307.83		14749.03

Item No.  
 Work: Concret type G, 40mm  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Material cost								
Portland cement	ton	0.220	4969.00	1093.18	65360.00	14379.20	17200.00	3784.00
Aggregate, fine***	ton	0.806	903.00	727.82	8710.00	7020.26	2904.00	2340.62
Aggregate, coarse***	ton	1.186	1011.00	1199.05	9745.00	11557.57	3249.00	3853.31
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.000	342.00	0.00	385.00	0.00	0.00	0.00
Miscellaneous(3%)				90.60		988.71		299.34
Subtotal				3110.65		33945.74		10277.28
Overhead				777.66		8486.44		2569.32
Total				3888.31		42432.18		12846.60

Item No.  
 Work: Concret type H, 20mm  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Material cost								
Portland cement	ton	0.240	4969.00	1192.56	65360.00	15686.40	17200.00	4128.00
Aggregate, fine***	ton	0.740	903.00	668.22	8710.00	6445.40	2904.00	2148.96
Aggregate, coarse***	ton	1.192	1011.00	1205.11	9745.00	11616.04	3249.00	3872.81
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.000	342.00	0.00	385.00	0.00	0.00	0.00
Miscellaneous(3%)				91.98		1012.44		304.49
Subtotal				3157.87		34760.28		10454.26
Overhead				789.47		8690.07		2613.57
Total				3947.34		43450.34		13067.83



Item No.

Work:Concrete,A,20mm,3000m

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		5532.22		58969.17	16941.06	
Mixing	m3	1.000		475.03		4328.28	16.02	
Transport,3000m	m3	1.000		417.36		4300.14	45.84	
Placing,pump	m3	1.000		317.48		3916.55	16.98	
Total				6742.09		71514.14	17019.90	
Placing,bucket	m3	1.000		693.09		5531.49	20.39	
Total				7117.70		73129.08	17023.31	
**Conc.Mix.Transp.	m3	1.000		6424.61		67597.59	17002.92	

Item No.

Work:Concrete,B,40mm,3000m

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4848.23		51065.35	14938.35	
Mixing	m3	1.000		475.03		4328.28	16.02	
Transport,3000m	m3	1.000		417.36		4300.14	45.84	
Placing	m3	1.000		317.48		3916.55	16.98	
Total				6058.10		63610.32	15017.19	
Placing,bucket	m3	1.000		693.09		5531.49	20.39	
Total				6433.71		65225.26	15020.60	
**Conc.Mix.Transp.	m3	1.000		5740.62		59693.77	15000.21	

Item No.

Work:Concrete,C,20mm,3000m

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4673.66		48988.87	14435.77	
Mixing	m3	1.000		475.03		4328.28	16.02	
Transport,3000m	m3	1.000		417.36		4300.14	45.84	
Placing	m3	1.000		317.48		3916.55	16.98	
Total				5883.53		61533.84	14514.61	
Placing,bucket	m3	1.000		693.09		5531.49	20.39	
Total				6259.14		63148.78	14518.02	
**Conc.Mix.Transp.	m3	1.000		5566.05		57617.29	14497.63	

Item No.  
 Work:Concrete,D,40mm,3000m  
 Remarks:1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4741.47		49773.60		14634.15
Mixing	m3	1.000		475.03		4328.28		16.02
Transport,3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5951.34		62318.57		14712.99
Placing,bucket	m3	1.000		693.09		5531.49		20.39
Total				6326.95		63933.51		14716.40
**Conc.Mix.Transp.	m3	1.000		5633.86		58402.02		14696.01

Item No.  
 Work:Concrete,E,40mm,3000m  
 Remarks:1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4517.28		47219.44		13972.32
Mixing	m3	1.000		475.03		4328.28		16.02
Transport,3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5727.15		59764.41		14051.16
Placing,bucket	m3	1.000		693.09		5531.49		20.39
Total				6102.76		61379.35		14054.57
**Conc.Mix.Transp.	m3	1.000		5409.67		55847.86		14034.18

Item No.  
 Work:Concrete,F,20mm,3000m  
 Remarks:1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4783.25		50307.83		14749.03
Mixing	m3	1.000		475.03		4328.28		16.02
Transport,3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5993.12		62852.80		14827.37
Placing,bucket	m3	1.000		693.09		5531.49		20.39
Total				6368.73		64467.74		14831.28
**Conc.Mix.Transp.	m3	1.000		5675.64		58936.25		14810.89

Item No.

Work: Concrete, G, 40mm, 3000m

Remarks: 1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3881.31		42432.18		12846.60
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5091.18		54977.15		12925.44
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5466.79		56592.09		12928.85
**Conc. Mix. Transp.	m3	1.000		4773.70		51060.60		12908.46

Item No.

Work: Concrete, H, 20mm, 3000m

Remarks: 1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3947.34		43450.34		13067.83
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5157.21		55995.31		13146.67
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5532.82		57610.25		13150.08
**Conc. Mix. Transp.	m3	1.000		4839.73		52078.76		13129.69

Item No.  
 Work: Concrete, A, 20mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		5532.22		58969.17		16941.06
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 1000m	m3	1.000		231.86		2389.08		25.46
Placing, pump	m3	1.000		317.48		3916.55		16.98
Total				6556.59		69603.08		16999.52
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6932.20		71218.02		17002.93
**Conc. Mix. Transp.	m3	1.000		6239.11		65686.53		16982.54

Item No.  
 Work: Concrete, B, 40mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4848.23		51065.35		14938.35
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 1000m	m3	1.000		231.86		2389.08		25.46
Placing	m3	1.000		317.48		3916.55		16.98
Total				5872.60		61699.26		14996.81
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6248.21		63314.20		15000.22
**Conc. Mix. Transp.	m3	1.000		5555.12		57782.71		14979.83

Item No.  
 Work: Concrete, C, 20mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4673.66		46988.87		14435.77
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 1000m	m3	1.000		231.86		2389.08		25.46
Placing	m3	1.000		317.48		3916.55		16.98
Total				5698.03		59622.78		14494.23
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6073.64		61237.72		14497.64
**Conc. Mix. Transp.	m3	1.000		5380.55		55706.23		14477.25

Item No.  
 Work: Concrete, D, 40mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3 1.000		4741.47		49773.60		14634.15
Mixing	m3 1.000		475.03		4328.28		16.02
Transport, 1000m	m3 1.000		231.86		2389.08		25.46
Placing	m3 1.000		317.48		3916.55		16.98
Total			5765.84		60407.51		14692.61
Placing, bucket	m3 1.000		693.09		5531.49		20.39
Total			6141.45		62022.45		14696.02
**Conc. Mix. Transp.	m3 1.000		5448.36		56490.96		14675.63

Item No.  
 Work: Concrete, E, 40mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3 1.000		4517.28		47219.44		13972.32
Mixing	m3 1.000		475.03		4328.28		16.02
Transport, 1000m	m3 1.000		231.86		2389.08		25.46
Placing	m3 1.000		317.48		3916.55		16.98
Total			5541.65		57853.35		14030.78
Placing, bucket	m3 1.000		693.09		5531.49		20.39
Total			5917.26		59468.29		14034.19
**Conc. Mix. Transp.	m3 1.000		5224.17		53936.80		14013.80

Item No.  
 Work: Concrete, F, 20mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3 1.000		4783.25		50307.83		14749.03
Mixing	m3 1.000		475.03		4328.28		16.02
Transport, 1000m	m3 1.000		231.86		2389.08		25.46
Placing	m3 1.000		317.48		3916.55		16.98
Total			5807.62		60941.74		14807.49
Placing, bucket	m3 1.000		693.09		5531.49		20.39
Total			6183.23		62556.68		14810.90
**Conc. Mix. Transp.	m3 1.000		5490.14		57025.19		14790.51

Item No.  
 Work:Concrete,G,40mm,1000m  
 Remarks:1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3881.31		42432.18		12846.60
Mixing	m3	1.000		475.03		4328.28		16.02
Transport,1000m	m3	1.000		231.86		2389.08		25.46
Placing	m3	1.000		317.48		3916.55		16.98
Total				4905.68		53066.09		12905.06
Placing,bucket	m3	1.000		693.09		5531.49		20.39
Total				5281.29		54681.03		12908.47
**Conc.Mix.Transp.	m3	1.000		4588.20		49149.54		12888.08

Work:Concrete,H,20mm,1000m  
 Remarks:1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3947.34		43450.34		13067.83
Mixing	m3	1.000		475.03		4328.28		16.02
Transport,1000m	m3	1.000		231.86		2389.08		25.46
Placing	m3	1.000		317.48		3916.55		16.98
Total				4971.71		54084.25		13126.29
Placing,bucket	m3	1.000		693.09		5531.49		20.39
Total				5347.32		55699.19		13129.70
**Conc.Mix.Transp.	m3	1.000		4654.23		50167.70		13109.31

Item No.

Work: Concrete, A, 20mm, 6000m

Remarks: 1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		5532.22		58969.17	16941.06	
Mixing	m3	1.000		475.03		4328.28	16.02	
Transport, 6000m	m3	1.000		695.59		7166.71	76.39	
Placing, pump	m3	1.000		317.48		3916.55	16.98	
Total				7020.32		74380.71	17050.45	
Placing, bucket	m3	1.000		693.09		5531.49	20.39	
Total				7395.93		75995.65	17053.86	
**Conc. Mix. Transp.	m3	1.000		6702.84		70464.16	17033.47	

Item No.

Work: Concrete, B, 40mm, 6000m

Remarks: 1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4848.23		51065.35	14938.35	
Mixing	m3	1.000		475.03		4328.28	16.02	
Transport, 6000m	m3	1.000		695.59		7166.71	76.39	
Placing	m3	1.000		317.48		3916.55	16.98	
Total				6336.33		66476.89	15047.74	
Placing, bucket	m3	1.000		693.09		5531.49	20.39	
Total				6711.94		68091.83	15051.15	
**Conc. Mix. Transp.	m3	1.000		6018.85		62560.34	15030.76	

Item No.

Work: Concrete, C, 20mm, 6000m

Remarks: 1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4673.66		48988.87	14435.77	
Mixing	m3	1.000		475.03		4328.28	16.02	
Transport, 6000m	m3	1.000		695.59		7166.71	76.39	
Placing	m3	1.000		317.48		3916.55	16.98	
Total				6161.76		64400.41	14545.16	
Placing, bucket	m3	1.000		693.09		5531.49	20.39	
Total				6537.37		66015.35	14548.57	
**Conc. Mix. Transp.	m3	1.000		5844.28		60483.86	14528.18	

Item No.  
 Work:Concrete,D,40mm,6000m  
 Remarks:1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4741.47		49773.60		14634.15
Mixing	m3	1.000		475.03		4328.28		16.02
Transport,6000m	m3	1.000		695.59		7166.71		76.39
Placing	m3	1.000		317.48		3916.55		16.98
Total				6229.57		65185.14		14743.54
Placing,bucket	m3	1.000		693.09		5531.49		20.39
Total				6605.18		66800.08		14746.95
**Conc.Mix.Transp.	m3	1.000		5912.03		61268.59		14726.56

Item No.  
 Work:Concrete,E,40mm,6000m  
 Remarks:1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4517.28		47219.44		13972.32
Mixing	m3	1.000		475.03		4328.28		16.02
Transport,6000m	m3	1.000		695.59		7166.71		76.39
Placing	m3	1.000		317.48		3916.55		16.98
Total				6005.38		62630.98		14081.71
Placing,bucket	m3	1.000		693.09		5531.49		20.39
Total				6380.99		64245.92		14085.12
**Conc.Mix.Transp.	m3	1.000		5687.90		58714.43		14064.73

Item No.  
 Work:Concrete,F,20mm,6000m  
 Remarks:1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4783.25		50307.83		14749.03
Mixing	m3	1.000		475.03		4328.28		16.02
Transport,6000m	m3	1.000		695.59		7166.71		76.39
Placing	m3	1.000		317.48		3916.55		16.98
Total				6271.35		65719.37		14858.42
Placing,bucket	m3	1.000		693.09		5531.49		20.39
Total				6645.96		67334.31		14851.83
**Conc.Mix.Transp.	m3	1.000		5953.87		61802.82		14841.44



Item No.

Work: Concrete, G, 40mm, 6000m

Remarks: 1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3881.31		42432.18		12846.60
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 6000m	m3	1.000		695.59		7166.71		76.39
Placing	m3	1.000		317.48		3916.55		16.98
Total				5369.41		57843.72		12955.99
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5745.02		59458.66		12959.40
**Conc. Mix. Transp.	m3	1.000		5051.93		53927.17		12939.01

Work: Concrete, H, 20mm, 6000m

Remarks: 1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3947.34		43450.34		13067.83
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 6000m	m3	1.000		695.59		7166.71		76.39
Placing	m3	1.000		317.48		3916.55		16.98
Total				5435.44		58861.88		13177.22
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5811.05		60476.82		13180.63
**Conc. Mix. Transp.	m3	1.000		5117.96		54945.33		13160.24

J CONCRETE WORK (2)



**Pump Sta, Open Channel**	Unit	** FC *	LC	Duty, Tax	** LC **	Total	Total
		(Yen)	(S/.)	(S/.)	(S/.)	(S/.)	(US\$)
Concrete A, 20mm	m3	5221.46	55978.01	15942.12	71920.13	189402.98	84.18
Concrete B, 40mm	m3	4528.97	47991.74	13911.84	61903.58	163805.41	72.80
Concrete C, 20mm	m3	4347.06	45845.63	13386.04	59231.67	157040.52	69.80
Concrete D, 40mm	m3	4415.74	46638.79	13587.25	60226.04	159580.19	70.92
Concrete E, 40mm	m3	4191.73	44085.96	12925.85	57011.81	151325.74	67.26
Concrete F, 20mm	m3	4462.63	47221.26	13718.20	60939.46	161348.64	71.71
Concrete G, 40mm	m3	3554.64	39219.94	11773.79	50993.73	130973.13	58.21
Concrete H, 20mm	m3	3622.54	40324.17	12023.79	52347.96	133855.11	59.49
Concrete A, 20mm, 3kn, pump	m3	6431.33	68522.98	16020.96	84543.94	229248.87	101.89
Concrete A, 20mm, 3kn, bucket	m3	6806.94	70137.92	16024.37	86162.29	239318.44	106.36
Concrete A, 20mm, 3kn, excl. place	m3	6113.85	64606.43	16003.98	80610.41	218172.04	96.97
Concrete B, 40mm, 3kn, pump	m3	5738.84	60536.71	13990.68	74527.39	203651.29	90.51
Concrete B, 40mm, 3kn, bucket	m3	6114.45	62151.65	13994.09	76145.74	213720.87	94.99
Concrete B, 40mm, 3kn, excl. place	m3	5421.36	56620.16	13973.70	70593.86	192574.46	85.59
Concrete C, 20mm, 3kn, pump	m3	5556.93	58390.60	13464.88	71855.48	196896.41	87.51
Concrete C, 20mm, 3kn, bucket	m3	5932.54	60005.54	13468.29	73473.83	206955.98	91.98
Concrete C, 20mm, 3kn, excl. place	m3	5239.45	54474.05	13447.90	67921.95	185809.58	82.58
Concrete D, 40mm, 3kn, pump	m3	5625.61	59183.76	13666.09	72849.85	199426.08	88.63
Concrete D, 40mm, 3kn, bucket	m3	6001.22	60798.70	13669.50	74468.20	209495.65	93.11
Concrete D, 40mm, 3kn, excl. place	m3	5308.13	55267.21	13649.11	68916.32	188349.25	83.71
Concrete E, 40mm, 3kn, pump	m3	5401.60	56630.93	13004.69	69635.62	191171.62	84.97
Concrete E, 40mm, 3kn, bucket	m3	5777.21	58245.87	13008.10	71253.97	201241.20	89.44
Concrete E, 40mm, 3kn, excl. place	m3	5084.12	52714.38	12987.71	65702.09	180094.79	80.04
Concrete F, 20mm, 3kn, pump	m3	5672.50	59766.23	13797.04	73563.27	201194.52	89.42
Concrete F, 20mm, 3kn, bucket	m3	6048.11	61391.17	13800.45	75181.62	211264.10	93.90
Concrete F, 20mm, 3kn, excl. place	m3	5355.02	55849.68	13780.06	69629.74	190117.69	84.50
Concrete G, 40mm, 3kn, pump	m3	4764.51	51764.91	11852.63	63617.54	170819.02	75.92
Concrete G, 20mm, 3kn, bucket	m3	5140.12	53379.85	11856.04	65235.89	180888.59	80.39
Concrete G, 20mm, 3kn, excl. place	m3	4447.03	47848.36	11835.65	59684.01	159742.19	71.00
Concrete H, 20mm, 3kn, pump	m3	4832.41	52869.14	12102.63	64971.77	173701.00	77.20
Concrete H, 20mm, 3kn, bucket	m3	5208.02	54484.08	12106.04	66590.12	183770.57	81.68
Concrete H, 20mm, 3kn, excl. place	m3	4514.93	48952.59	12085.65	61038.24	162624.17	72.28
Concrete A, 20mm, 2kn, pump	m3	6340.03	67582.66	16010.94	83593.60	226244.28	100.55
Concrete A, 20mm, 2kn, bucket	m3	6715.64	69197.60	16014.35	85211.95	236313.85	105.03
Concrete A, 20mm, 2kn, excl. place	m3	6022.55	63666.11	15993.96	79660.07	215167.45	95.63
Concrete B, 40mm, 2kn, pump	m3	5647.54	59596.39	13980.66	73577.05	200646.70	89.18
Concrete B, 40mm, 2kn, bucket	m3	6023.15	61211.33	13984.07	75195.40	210716.28	93.65
Concrete B, 40mm, 2kn, excl. place	m3	5330.06	55679.84	13963.68	69643.52	189569.87	84.25
Concrete C, 20mm, 2kn, pump	m3	5465.63	57450.28	13454.86	70905.14	193881.82	86.17
Concrete C, 20mm, 2kn, bucket	m3	5841.24	59065.22	13458.27	72523.49	203951.39	90.65
Concrete C, 20mm, 2kn, excl. place	m3	5148.15	53533.73	13437.88	66971.61	182804.99	81.25
Concrete D, 40mm, 2kn, pump	m3	5534.31	58243.44	13656.07	71899.51	196421.49	87.30
Concrete D, 40mm, 2kn, bucket	m3	5909.92	59858.38	13659.48	73517.86	206491.06	91.77
Concrete D, 40mm, 2kn, excl. place	m3	5216.83	54326.89	13639.09	67965.98	185344.66	82.38
Concrete E, 40mm, 2kn, pump	m3	5310.30	55690.61	12994.67	68685.28	188167.03	83.63
Concrete E, 40mm, 2kn, bucket	m3	5685.91	57305.55	12998.08	70303.63	198236.61	88.11
Concrete E, 40mm, 2kn, excl. place	m3	4992.82	51774.06	12977.69	64751.75	177090.20	78.71
Concrete F, 20mm, 2kn, pump	m3	5581.20	58825.91	13787.02	72612.93	198189.93	88.08
Concrete F, 20mm, 2kn, bucket	m3	5956.81	60440.85	13790.43	74231.28	208259.51	92.56
Concrete F, 20mm, 2kn, excl. place	m3	5263.72	54909.36	13770.04	68679.40	187113.10	83.16

	Unit	** FC *	LC	Duty Tax	** LC **	Total	Total
		(Ven)	(S/.)	(S/.)	(S/.)	(S/.)	(US\$)
<b>**Pump Sta, Open Channel**</b>							
Concrete G, 40mm, 2kn, pump	m3	4673.21	50824.59	11842.61	62667.20	167814.43	74.58
Concrete G, 20mm, 2kn, bucket	m3	5048.82	52439.53	11846.02	64285.55	177884.00	79.06
Concrete G, 20mm, 2kn, excl. place	m3	4355.73	46908.04	11825.63	58733.67	156737.60	69.66
Concrete H, 20mm, 2kn, pump	m3	4741.11	51928.82	12092.61	64021.43	170696.41	75.87
Concrete H, 20mm, 2kn, bucket	m3	5116.72	53543.76	12096.02	65639.78	180765.98	80.34
Concrete H, 20mm, 2kn, excl. place	m3	4423.63	48012.27	12075.63	60087.90	159619.58	70.94
Concrete A, 20mm, 1kn, pump	m3	6245.83	66611.92	16000.58	82612.50	223143.68	99.17
Concrete A, 20mm, 1kn, bucket	m3	6621.44	68226.86	16003.99	84230.85	233213.25	103.85
Concrete A, 20mm, 1kn, excl. place	m3	5928.35	62695.37	15983.60	78678.97	212066.85	94.25
Concrete B, 40mm, 1kn, pump	m3	5553.34	58625.65	13970.30	72595.95	197546.10	87.80
Concrete B, 40mm, 1kn, bucket	m3	5928.95	60240.59	13973.71	74214.30	207615.68	92.27
Concrete B, 40mm, 1kn, excl. place	m3	5235.86	54709.10	13953.32	68662.42	186469.27	82.88
Concrete C, 20mm, 1kn, pump	m3	5371.43	56479.54	13444.50	69924.04	190781.22	84.79
Concrete C, 20mm, 1kn, bucket	m3	5747.04	58094.48	13447.91	71542.39	200850.79	89.27
Concrete C, 20mm, 1kn, excl. place	m3	5053.95	52562.99	13427.52	65990.51	179704.39	79.87
Concrete D, 40mm, 1kn, pump	m3	5440.11	57272.70	13645.71	70918.41	193320.89	85.92
Concrete D, 40mm, 1kn, bucket	m3	5815.72	58887.84	13649.12	72536.76	203390.46	90.40
Concrete D, 40mm, 1kn, excl. place	m3	5122.63	53356.15	13628.73	66984.88	182244.06	81.00
Concrete E, 40mm, 1kn, pump	m3	5216.10	54719.87	12984.31	67704.18	185066.43	82.25
Concrete E, 40mm, 1kn, bucket	m3	5591.71	56334.81	12987.72	69322.53	195136.01	86.73
Concrete E, 40mm, 1kn, excl. place	m3	4898.62	50803.32	12967.33	63770.65	173989.60	77.33
Concrete F, 20mm, 1kn, pump	m3	5487.00	57855.17	13776.66	71631.83	195089.33	86.71
Concrete F, 20mm, 1kn, bucket	m3	5862.61	59470.11	13780.07	73250.18	205158.91	91.18
Concrete F, 20mm, 1kn, excl. place	m3	5169.52	53938.62	13759.68	67698.30	184012.50	81.78
Concrete G, 40mm, 1kn, pump	m3	4579.01	49853.85	11832.25	61686.10	164713.83	73.21
Concrete G, 20mm, 1kn, bucket	m3	4954.62	51468.79	11835.66	63304.45	174783.40	77.68
Concrete G, 20mm, 1kn, excl. place	m3	4261.53	45937.30	11815.27	57752.57	153637.00	68.28
Concrete H, 20mm, 1kn, pump	m3	4646.91	50958.08	12082.25	63040.33	167595.81	74.49
Concrete H, 20mm, 1kn, bucket	m3	5022.52	52573.02	12085.66	64658.68	177665.38	78.96
Concrete H, 20mm, 1kn, excl. place	m3	4329.43	47041.53	12065.27	59106.80	156518.98	69.56

\*\*\*\*Pumping Station,Open channel\*\*\*\*

Item No.

Work:Concret type A,20ma

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost								
Portland cement	ton	0.430	4969.00	2136.67	65360.00	28104.80	17200.00	7396.00
Aggregate, fine***	ton	0.711	786.00	558.85	7576.00	5386.54	2525.00	1735.28
Aggregate, coarse***	ton	1.138	872.00	992.34	8412.00	9572.86	2804.00	3190.95
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	1.075	342.00	367.65	385.90	413.88	0.00	0.00
Miscellaneous(3%)				121.67		1304.34		371.47
Subtotal				4177.17		44782.41		12753.69
Overhead				1044.29		11195.60		3188.42
Total				5221.46		55978.01		15942.12

Item No.

Work:Concret type B,40mm

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost								
Portland cement	ton	0.330	4969.00	1639.77	65360.00	21568.80	17200.00	5676.00
Aggregate, fine***	ton	0.771	786.00	606.01	7576.00	5841.10	2525.00	1946.78
Aggregate, coarse***	ton	1.135	872.00	989.72	8412.00	9547.62	2804.00	3182.54
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.825	342.00	282.15	385.00	317.63	0.00	0.00
Miscellaneous(3%)				105.53		1118.25		324.16
Subtotal				3623.18		38393.40		11129.47
Overhead				905.79		9598.35		2782.37
Total				4528.97		47991.74		13911.84

Item No.  
 Work:Concret type C,20mm  
 Remarks:1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost							
Portland cement	ton 0.300	4969.00	1490.70	65360.00	19608.00	17200.00	5160.00
Aggregate, fine***	ton 0.727	786.00	571.42	7576.00	5507.75	2525.00	1835.68
Aggregate, coarse***	ton 1.213	872.00	1057.74	8412.00	10203.76	2804.00	3401.25
Air-entraining agent	kg 0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg 0.750	342.00	256.50	385.00	288.75	0.00	0.00
Miscellaneous(3%)			101.29		1068.25		311.91
Subtotal			3477.65		36676.51		10708.83
Overhead			869.41		9169.13		2677.21
Total			4347.06		45845.63		13386.04

Item No.  
 Work:Concret type D,40mm  
 Remarks:1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost							
Portland cement	ton 0.310	4969.00	1540.39	65360.00	20261.60	17200.00	5332.00
Aggregate, fine***	ton 0.713	786.00	580.42	7576.00	5401.69	2525.00	1800.33
Aggregate, coarse***	ton 1.220	872.00	1063.84	8412.00	10262.64	2804.00	3420.88
Air-entraining agent	kg 0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg 0.775	342.00	265.05	385.00	298.38	0.00	0.00
Miscellaneous(3%)			102.89		1086.73		316.60
Subtotal			3532.59		37311.03		10869.80
Overhead			883.15		9327.76		2717.45
Total			4415.74		46638.79		13587.25

Item No.  
 Work:Concret type E,40mm  
 Remarks:1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost							
Portland cement	ton 0.280	4969.00	1391.32	65360.00	18300.80	17200.00	4816.00
Aggregate, fine***	ton 0.745	786.00	585.57	7576.00	5644.12	2525.00	1881.13
Aggregate, coarse***	ton 1.192	872.00	1039.42	8412.00	10027.10	2804.00	3342.37
Air-entraining agent	kg 0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg 0.700	342.00	239.40	385.00	269.50	0.00	0.00
Miscellaneous(3%)			97.67		1027.25		301.18
Subtotal			3353.39		35268.77		10340.68
Overhead			838.35		8817.19		2585.17
Total			4191.73		44085.96		12925.85

Item No.  
 Work:Concret type F,20mm  
 Remarks:1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Material cost								
Portland cement	ton	0.320	4969.00	1590.08	65360.00	20915.20	17200.00	5504.00
Aggregate, fine***	ton	0.774	786.00	608.36	7576.00	5863.82	2525.00	1954.35
Aggregate, coarse***	ton	1.140	872.00	994.08	8412.00	9589.68	2804.00	3196.56
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.800	342.00	273.60	385.00	308.00	0.00	0.00
Miscellaneous(3%)				103.98		1100.30		319.65
Subtotal				3570.11		37777.01		10974.56
Overhead				892.53		9444.25		2743.64
Total				4462.63		47221.26		13718.20

Item No.  
 Work:Concret type G,40mm  
 Remarks:1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Material cost								
Portland cement	ton	0.220	4969.00	1093.18	65360.00	14379.20	17200.00	3784.00
Aggregate, fine***	ton	0.806	786.00	633.52	7576.00	6106.26	2525.00	2035.15
Aggregate, coarse***	ton	1.186	872.00	1034.19	8412.00	9976.63	2804.00	3325.54
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.000	342.00	0.00	385.00	0.00	0.00	0.00
Miscellaneous(3%)				82.83		913.86		274.34
Subtotal				2843.71		31375.95		9419.03
Overhead				710.93		7843.99		2354.76
Total				3554.64		39219.94		11773.79

Item No.  
 Work:Concret type H,20mm  
 Remarks:1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Material cost								
Portland cement	ton	0.240	4969.00	1192.56	65360.00	15686.40	17200.00	4128.00
Aggregate, fine***	ton	0.740	786.00	581.64	7576.00	5606.24	2525.00	1868.50
Aggregate, coarse***	ton	1.192	872.00	1039.42	8412.00	10027.10	2804.00	3342.37
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.000	342.00	0.00	385.00	0.00	0.00	0.00
Miscellaneous(3%)				84.41		939.59		280.17
Subtotal				2898.03		32259.34		9819.03
Overhead				724.51		8064.83		2404.76
Total				3622.54		40324.17		12023.79



Item No.  
 Work: Concrete, A, 20mm, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		5221.46		55978.01		15942.12
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing, pump	m3	1.000		317.48		3916.55		16.98
Total				6431.33		68522.98		16020.96
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6806.94		70137.92		16024.37
**Conc. Mix. Transp.	m3	1.000		6113.85		64606.43		16003.98

Item No.  
 Work: Concrete, B, 40mm, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4528.97		47991.74		13911.84
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5738.84		66536.71		13990.68
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6114.45		62151.65		13994.09
**Conc. Mix. Transp.	m3	1.000		5421.36		56620.16		13973.70

Item No.  
 Work: Concrete, C, 20mm, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4347.06		45845.63		13386.04
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5556.93		58390.60		13464.88
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5932.54		60005.54		13468.29
**Conc. Mix. Transp.	m3	1.000		5239.45		54474.05		13447.90

Item No.  
 Work: Concrete, D, 40mm, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4415.74		46638.79		13587.25
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5625.61		59183.76		13666.09
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6001.22		60798.70		13669.50
**Conc. Mix. Transp.	m3	1.000		5308.13		55267.21		13649.11

Item No.  
 Work: Concrete, E, 40mm, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4191.73		44085.96		12925.85
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5401.60		56630.93		13004.69
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5777.21		58245.87		13008.10
**Conc. Mix. Transp.	m3	1.000		5084.12		52714.38		12987.71

Item No.  
 Work: Concrete, F, 20mm, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4462.63		47221.26		13718.20
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5672.50		59766.23		13797.04
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6048.11		61381.17		13800.45
**Conc. Mix. Transp.	m3	1.000		5355.02		55849.68		13780.06

Item No.  
 Work: Concrete, G, 40mm, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3554.64		39219.94		11773.79
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				4764.51		51764.91		11852.63
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5140.12		53379.85		11856.04
**Conc. Mix. Transp.	m3	1.000		4447.03		47848.36		11835.65

Item No.  
 Work: Concrete, H, 20mm, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3622.54		40324.17		12023.79
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				4832.41		52869.14		12102.63
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5208.02		54484.08		12106.04
**Conc. Mix. Transp.	m3	1.000		4514.93		48952.59		12085.65

Item No.  
 Work: Concrete, A, 20mm, 2000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3 1.000		5221.46		55978.01		15942.12
Mixing	m3 1.000		475.03		4328.28		16.02
Transport, 2000m	m3 1.000		326.06		3359.82		35.82
Placing, pump	m3 1.000		317.48		3916.55		16.98
Total			6340.03		67582.66		16010.94
Placing, bucket	m3 1.000		693.09		5531.49		20.39
Total			6715.64		69197.60		16014.35
**Conc. Mix. Transp.	m3 1.000		6022.55		63666.11		15993.96

Item No.  
 Work: Concrete, B, 40mm, 2000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3 1.000		4528.97		47991.74		13911.84
Mixing	m3 1.000		475.03		4328.28		16.02
Transport, 2000m	m3 1.000		326.06		3359.82		35.82
Placing	m3 1.000		317.48		3916.55		16.98
Total			5647.54		59596.39		13980.66
Placing, bucket	m3 1.000		693.09		5531.49		20.39
Total			6023.15		61211.33		13984.07
**Conc. Mix. Transp.	m3 1.000		5330.06		55579.84		13963.68

Item No.  
 Work: Concrete, C, 20mm, 2000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3 1.000		4347.06		45845.63		13386.04
Mixing	m3 1.000		475.03		4328.28		16.02
Transport, 2000m	m3 1.000		326.06		3359.82		35.82
Placing	m3 1.000		317.48		3916.55		16.98
Total			5465.63		57450.28		13454.86
Placing, bucket	m3 1.000		693.09		5531.49		20.39
Total			5841.24		59065.22		13458.27
**Conc. Mix. Transp.	m3 1.000		5148.15		53533.73		13437.88

Item No.

Work: Concrete, D, 40mm, 2000m

Remarks: 1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4415.74		46638.79		13587.25
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 2000m	m3	1.000		326.06		3359.82		35.82
Placing	m3	1.000		317.48		3916.55		16.98
Total				5534.31		58243.44		13656.07
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5909.92		59858.38		13659.48
**Conc. Mix. Transp.	m3	1.000		5216.83		54326.89		13639.09

Item No.

Work: Concrete, E, 40mm, 2000m

Remarks: 1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4191.73		44085.96		12925.85
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 2000m	m3	1.000		326.06		3359.82		35.82
Placing	m3	1.000		317.48		3916.55		16.98
Total				5310.30		55690.61		12994.67
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5685.91		57305.55		12998.08
**Conc. Mix. Transp.	m3	1.000		4992.82		51774.06		12977.69

Item No.

Work: Concrete, F, 20mm, 2000m

Remarks: 1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4462.63		47221.26		13718.20
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 2000m	m3	1.000		326.06		3359.82		35.82
Placing	m3	1.000		317.48		3916.55		16.98
Total				5581.20		58825.91		13787.02
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5956.81		60440.85		13790.43
**Conc. Mix. Transp.	m3	1.000		5263.72		54909.36		13770.04

Item No.  
 Work: Concrete, G, 40mm, 2000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3554.64		39219.94		11773.79
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 2000m	m3	1.000		326.06		3359.82		35.82
Placing	m3	1.000		317.48		3916.55		16.98
Total				4673.21		50824.59		11842.61
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5048.82		52439.53		11846.02
**Conc. Mix. Transp.	m3	1.000		4355.73		46908.04		11825.63

Work: Concrete, H, 20mm, 2000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3622.54		40324.17		12023.79
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 2000m	m3	1.000		326.06		3359.82		35.82
Placing	m3	1.000		317.48		3916.55		16.98
Total				4741.11		51928.82		12092.61
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5116.72		53543.76		12096.02
**Conc. Mix. Transp.	m3	1.000		4423.63		48012.27		12075.63

Item No.  
 Work: Concrete, A, 20mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		5221.46		55978.01		15942.12
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 1000m	m3	1.000		231.86		2389.08		25.46
Placing, puap	m3	1.000		317.48		3916.55		16.98
Total				6245.83		66611.92		16000.58
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6621.44		68226.86		16003.99
**Conc. Mix. Transp.	m3	1.000		5928.35		62695.37		15983.60

Item No.  
 Work: Concrete, B, 40mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4528.97		47991.74		13911.84
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 1000m	m3	1.000		231.86		2389.08		25.46
Placing	m3	1.000		317.48		3916.55		16.98
Total				5553.34		58625.65		13970.30
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5928.95		60240.59		13973.71
**Conc. Mix. Transp.	m3	1.000		5235.86		54709.10		13953.32

Item No.  
 Work: Concrete, C, 20mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4347.06		45845.63		13386.04
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 1000m	m3	1.000		231.86		2389.08		25.46
Placing	m3	1.000		317.48		3916.55		16.98
Total				5371.43		56479.54		13444.50
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5747.64		58094.48		13447.91
**Conc. Mix. Transp.	m3	1.000		5953.95		52562.99		13427.52

Item No.  
 Work: Concrete, D, 40mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	#3	1.000		4415.74		46638.79		13587.25
Mixing	#3	1.000		475.03		4328.28		16.02
Transport, 1000m	#3	1.000		231.86		2389.08		25.46
Placing	#3	1.000		317.48		3916.55		16.98
Total				5440.11		57272.70		13645.71
Placing, bucket	#3	1.000		693.09		5531.49		20.39
Total				5815.72		58887.64		13649.12
**Conc. Mix. Transp.	#3	1.000		5122.63		53356.15		13628.73

Item No.  
 Work: Concrete, E, 40mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	#3	1.000		4191.73		44085.96		12925.85
Mixing	#3	1.000		475.03		4328.28		16.02
Transport, 1000m	#3	1.000		231.86		2389.08		25.46
Placing	#3	1.000		317.48		3916.55		16.98
Total				5216.10		54719.87		12984.31
Placing, bucket	#3	1.000		693.09		5531.49		20.39
Total				5591.71		56334.31		12987.72
**Conc. Mix. Transp.	#3	1.000		4898.62		50803.32		12967.33

Item No.  
 Work: Concrete, F, 20mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	#3	1.000		4462.63		47221.26		13718.20
Mixing	#3	1.000		475.03		4328.28		16.02
Transport, 1000m	#3	1.000		231.86		2389.08		25.46
Placing	#3	1.000		317.48		3916.55		16.98
Total				5487.00		57855.17		13776.66
Placing, bucket	#3	1.000		693.09		5531.49		20.39
Total				5862.61		59470.11		13780.07
**Conc. Mix. Transp.	#3	1.000		5169.52		53938.62		13759.68



Item No.

Work: Concrete, G, 40mm, 1000m

Remarks: 1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3554.64		39219.94		11773.79
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 1000m	m3	1.000		231.86		2389.08		25.46
Placing	m3	1.000		317.48		3916.55		16.98
Total				4579.01		49853.85		11832.25
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				4954.62		51468.79		11835.66
**Conc. Mix. Transp.	m3	1.000		4261.53		45937.30		11815.27

Work: Concrete, H, 20mm, 1000m

Remarks: 1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3622.54		40324.17		12023.79
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 1000m	m3	1.000		231.86		2389.08		25.46
Placing	m3	1.000		317.48		3916.55		16.98
Total				4646.91		50958.08		12082.25
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5022.52		52573.02		12085.66
**Conc. Mix. Transp.	m3	1.000		4329.43		47041.53		12065.27

K CONCRETE WORK (3)



	Unit	** FC *	LC	Duty, Tax	** LC **	Total	Total
**Esperanza-Poza Honda**		(Yen)	(S/.)	(S/.)	(S/.)	(S/.)	(US\$)
Concrete, A, 20mm	m3	5130.43	55103.27	15651.63	70754.90	186189.58	82.75
Concrete, B, 40mm	m3	4439.06	47128.23	13625.15	60753.38	160632.23	71.39
Concrete, C, 20mm	m3	4249.60	44938.79	13074.91	57983.70	153599.70	68.27
Concrete, D, 40mm	m3	4317.45	45693.91	13273.43	58967.34	156109.97	69.38
Concrete, E, 40mm	m3	4096.39	43169.75	12621.59	55791.34	147960.12	65.76
Concrete, F, 20mm	m3	4372.32	46353.88	13430.22	59784.10	158161.30	70.29
Concrete, G, 40mm	m3	3460.70	38317.67	11474.24	49791.91	127657.66	56.74
Concrete, H, 20mm	m3	3527.13	39407.23	11719.29	51126.52	130486.95	57.99
Concrete A, 20mm, 3km, pump	m3	6340.30	67648.24	15730.47	83378.71	226035.46	100.46
Concrete A, 20mm, 3km, bucket	m3	6715.91	69263.18	15733.88	84997.06	236105.04	104.94
Concrete A, 20mm, 3km, excl. place	m3	6022.82	63731.69	15713.49	79445.18	214958.63	95.54
Concrete B, 40mm, 3km, pump	m3	5648.93	59673.20	13703.99	73377.19	200478.12	89.16
Concrete B, 40mm, 3km, bucket	m3	6024.54	61288.14	13707.40	74995.54	210547.69	93.58
Concrete B, 40mm, 3km, excl. place	m3	5331.45	55756.65	13687.01	69443.66	189401.29	84.18
Concrete C, 20mm, 3km, pump	m3	5459.47	57453.76	13153.75	70607.51	193445.59	85.98
Concrete C, 20mm, 3km, bucket	m3	5835.08	59068.70	13157.16	72225.86	203515.16	90.45
Concrete C, 20mm, 3km, excl. place	m3	5141.99	53537.21	13136.77	66673.98	182368.76	81.05
Concrete D, 40mm, 3km, pump	m3	5527.32	58238.88	13352.27	71591.15	195955.85	87.09
Concrete D, 40mm, 3km, bucket	m3	5902.93	59853.82	13355.68	73209.50	206025.43	91.57
Concrete D, 40mm, 3km, excl. place	m3	5209.84	54322.33	13335.29	67657.62	184879.02	82.17
Concrete E, 40mm, 3km, pump	m3	5306.26	55714.72	12700.43	68415.15	187806.00	83.47
Concrete E, 40mm, 3km, bucket	m3	5681.87	57329.66	12703.84	70033.50	197875.58	87.94
Concrete E, 40mm, 3km, excl. place	m3	4988.78	51798.17	12683.45	64481.62	176729.17	78.55
Concrete F, 20mm, 3km, pump	m3	5582.19	58898.85	13509.06	72407.91	198007.19	88.00
Concrete F, 20mm, 3km, bucket	m3	5957.80	60513.79	13512.47	74026.26	208076.76	92.48
Concrete F, 20mm, 3km, excl. place	m3	5264.71	54982.30	13492.08	68474.38	186930.36	83.08
Concrete G, 40mm, 3km, pump	m3	4670.57	50862.64	11553.08	62415.72	167503.55	74.45
Concrete G, 20mm, 3km, bucket	m3	5046.18	52477.58	11556.49	64034.07	177573.12	78.92
Concrete G, 20mm, 3km, excl. place	m3	4353.09	46946.09	11536.10	58482.19	156426.72	69.52
Concrete H, 20mm, 3km, pump	m3	4737.00	51952.00	11798.13	63750.13	170332.63	75.70
Concrete H, 20mm, 3km, bucket	m3	5112.61	53557.14	11801.54	65368.68	180402.41	80.18
Concrete H, 20mm, 3km, excl. place	m3	4419.52	48035.65	11781.15	59816.80	159256.00	70.78
Concrete A, 20mm, 4km, pump	m3	6444.64	68723.88	15741.92	84465.80	229470.20	101.99
Concrete A, 20mm, 4km, bucket	m3	6820.25	70338.82	15745.33	86084.15	239539.78	106.46
Concrete A, 20mm, 4km, excl. place	m3	6127.16	64807.33	15724.94	80532.27	218393.37	97.06
Concrete B, 40mm, 4km, pump	m3	5753.27	60748.84	13715.44	74464.28	203912.86	90.63
Concrete B, 40mm, 4km, bucket	m3	6128.88	62363.78	13718.85	76082.63	213992.43	95.10
Concrete B, 40mm, 4km, excl. place	m3	5435.79	56832.29	13698.46	70530.75	192836.03	85.70
Concrete C, 20mm, 4km, pump	m3	5563.81	58529.40	13165.20	71694.60	196880.33	87.50
Concrete C, 20mm, 4km, bucket	m3	5939.42	60144.34	13168.61	73312.95	206949.90	91.98
Concrete C, 20mm, 4km, excl. place	m3	5246.33	54612.85	13148.22	67761.07	185803.50	82.58
Concrete D, 40mm, 4km, pump	m3	5631.66	59314.52	13363.72	72678.24	199390.59	88.62
Concrete D, 40mm, 4km, bucket	m3	6007.27	60929.46	13367.13	74296.59	209460.17	93.09
Concrete D, 40mm, 4km, excl. place	m3	5314.18	55397.97	13346.74	68744.71	188313.76	83.70
Concrete E, 40mm, 4km, pump	m3	5410.60	56790.36	12711.88	69502.24	191240.74	85.00
Concrete E, 40mm, 4km, bucket	m3	5785.21	58405.30	12715.29	71120.59	201310.32	89.47
Concrete E, 40mm, 4km, excl. place	m3	5093.12	52873.81	12694.90	65568.71	180163.91	80.07
Concrete F, 20mm, 4km, pump	m3	5686.53	59974.49	13520.51	73495.00	201441.93	89.53
Concrete F, 20mm, 4km, bucket	m3	6062.14	61589.43	13523.92	75113.35	211511.50	94.01
Concrete F, 20mm, 4km, excl. place	m3	5369.05	56057.94	13503.53	69561.47	190365.10	84.61

	Unit	** FC * (Ven)	LC (S/.)	Duty, Tax (S/.)	** LC ** (S/.)	Total (S/.)	Total (US\$)
<b>**Esperanza-Poza Honda**</b>							
Concrete G, 46mm, 4km, pump	m3	4774.91	51938.28	11564.53	63502.81	170938.29	75.97
Concrete G, 30mm, 4km, bucket	m3	5150.52	53553.22	11567.94	65121.16	181007.86	80.45
Concrete G, 20mm, 4km, excl. place	m3	4457.43	48021.73	11547.55	59569.28	159861.46	71.05
Concrete H, 20mm, 4km, pump	m3	4841.34	53027.84	11809.58	64837.42	173767.57	77.23
Concrete H, 20mm, 4km, bucket	m3	5216.95	54642.78	11812.99	66455.77	183337.15	81.71
Concrete H, 20mm, 4km, excl. place	m3	4523.86	49111.29	11792.60	60903.89	162690.74	72.31

\*\*\*\*La Esperanza-Poza Honda Tunnel\*\*\*\*

Item No.

Work:Concret type A,20mm

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost								
Portland cement	ton	0.430	4969.00	2136.67	65360.00	28104.80	17200.00	7396.00
Aggregate, fine***	ton	0.711	797.00	566.67	7688.00	5466.17	2563.00	1822.29
Aggregate, coarse***	ton	1.138	803.00	913.81	7745.00	8313.81	2582.00	2938.32
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	1.075	342.00	367.65	385.00	413.88	0.00	0.00
Miscellaneous(3%)				119.54		1283.96		364.70
Subtotal				4104.35		44082.61		12521.31
Overhead				1026.09		11020.65		3130.33
Total				5130.43		55103.27		15651.63

Item No.

Work:Concret type B,40mm

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost								
Portland cement	ton	0.330	4969.00	1639.77	65360.00	21568.80	17200.00	5676.00
Aggregate, fine***	ton	0.771	797.00	614.49	7688.00	5927.45	2563.00	1976.07
Aggregate, coarse***	ton	1.135	803.00	911.41	7745.00	8790.58	2582.00	2930.57
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.825	342.00	282.15	385.00	317.63	0.00	0.00
Miscellaneous(3%)				103.43		1098.13		317.48
Subtotal				3551.25		37702.58		10900.12
Overhead				887.81		9425.65		2725.03
Total				4439.06		47128.23		13625.15

Item No.  
 Work:Concret type C,20mm  
 Remarks:1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost							
Portland cement	ton	0.300	4969.00	1490.70	65360.00	19608.00	17200.00
Aggregate, fine***	ton	0.727	797.00	579.42	7688.00	5589.18	2563.00
Aggregate, coarse***	ton	1.213	803.00	974.04	7745.00	9394.69	2582.00
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00
Water reducing agent	kg	0.750	342.00	256.50	385.00	288.75	0.00
Miscellaneous(3%)				99.02		1046.42	
Subtotal				3399.68		35927.03	
Overhead				849.92		8981.76	
Total				4249.60		44908.79	

Item No.  
 Work:Concret type D,40mm  
 Remarks:1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost							
Portland cement	ton	0.310	4969.00	1540.39	65360.00	20261.60	17200.00
Aggregate, fine***	ton	0.713	797.00	568.26	7688.00	5481.54	2563.00
Aggregate, coarse***	ton	1.220	803.00	979.66	7745.00	9448.90	2582.00
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00
Water reducing agent	kg	0.775	342.00	265.05	385.00	298.38	0.00
Miscellaneous(3%)				100.60		1084.71	
Subtotal				3453.96		36555.13	
Overhead				863.49		9138.78	
Total				4317.45		45693.91	

Item No.  
 Work:Concret type E,40mm  
 Remarks:1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost							
Portland cement	ton	0.280	4969.00	1391.32	65360.00	18300.80	17200.00
Aggregate, fine***	ton	0.745	797.00	593.77	7688.00	5727.56	2563.00
Aggregate, coarse***	ton	1.192	803.00	957.18	7745.00	9232.04	2582.00
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00
Water reducing agent	kg	0.700	342.00	239.40	385.00	269.50	0.00
Miscellaneous(3%)				95.45		1005.90	
Subtotal				3277.11		34535.80	
Overhead				819.28		8633.95	
Total				4096.39		43169.75	

Item No.  
 Work:Concret type F,20mm  
 Remarks:1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax		
		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount	
Material cost								
Portland cement	ton	0.320	4969.00	1590.08	65360.00	20915.20	17200.00	5504.00
Aggregate, fine***	ton	0.774	797.00	616.88	7688.00	5950.51	2563.00	1983.76
Aggregate, coarse***	ton	1.140	803.00	915.42	7745.00	8829.30	2582.00	2943.48
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.800	342.00	273.60	385.00	308.00	0.00	0.00
Miscellaneous(3%)				101.88		1080.09		312.94
Subtotal				3497.86		37083.10		10744.18
Overhead				874.46		9270.78		2686.04
Total				4372.32		46353.88		13430.22

Item No.  
 Work:Concret type G,40mm  
 Remarks:1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax		
		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount	
Material cost								
Portland cement	ton	0.220	4969.00	1093.18	65360.00	14379.20	17200.00	3784.00
Aggregate, fine***	ton	0.806	797.00	642.38	7688.00	6195.53	2563.00	2065.78
Aggregate, coarse***	ton	1.186	803.00	952.36	7745.00	9185.57	2582.00	3062.25
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.000	342.00	0.00	385.00	0.00	0.00	0.00
Miscellaneous(3%)				80.64		892.84		267.36
Subtotal				2768.56		30654.14		9179.39
Overhead				692.14		7663.53		2294.85
Total				3460.70		38317.67		11474.24

Item No.  
 Work:Concret type H,20mm  
 Remarks:1m3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax		
		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount	
Material cost								
Portland cement	ton	0.240	4969.00	1192.56	65360.00	15686.40	17200.00	4128.00
Aggregate, fine***	ton	0.740	797.00	589.78	7688.00	5689.12	2563.00	1896.62
Aggregate, coarse***	ton	1.192	803.00	957.18	7745.00	9232.04	2582.00	3077.74
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.000	342.00	0.00	385.00	0.00	0.00	0.00
Miscellaneous(3%)				82.19		918.23		273.07
Subtotal				2821.70		31525.79		9375.43
Overhead				705.43		7881.45		2343.86
Total				3527.13		39407.23		11719.29



Item No.  
 Work: Concrete, A, 20mm, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		5130.43		55103.27		15651.63
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing, pump	m3	1.000		317.48		3916.55		16.98
Total				6340.30		67648.24		15730.47
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6715.91		69263.18		15733.88
**Conc. Mix. Transp.	m3	1.000		6022.82		63731.69		15713.49

Item No.  
 Work: Concrete, B, 40mm, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4439.06		47128.23		13625.15
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5648.93		59673.20		13703.99
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6024.54		61288.14		13707.40
**Conc. Mix. Transp.	m3	1.000		5331.45		55756.65		13687.01

Item No.  
 Work: Concrete, C, 20mm, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4249.60		44908.79		13074.91
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5459.47		57453.76		13153.75
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5835.08		58068.70		13157.16
**Conc. Mix. Transp.	m3	1.000		5141.99		53537.21		13136.77

Item No.  
 Work: Concrete, D, 40mm, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4317.45		45693.91		13273.43
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5527.32		58238.88		13352.27
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5902.93		59853.82		13355.68
**Conc. Mix. Transp.	m3	1.000		5209.84		54322.33		13335.29

Item No.  
 Work: Concrete, E, 40mm, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4096.39		43169.75		12621.59
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5306.26		55714.72		12700.43
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5681.87		57329.66		12703.84
**Conc. Mix. Transp.	m3	1.000		4988.78		51798.17		12683.45

Item No.  
 Work: Concrete, F, 20mm, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4372.32		46353.88		13430.22
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				5582.19		58898.85		13509.06
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5957.80		60513.78		13512.47
**Conc. Mix. Transp.	m3	1.000		5264.71		54982.30		13492.08

Item No.  
 Work: Concrete, 6.40m, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3460.70		38317.67		11474.24
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				4670.57		50862.64		11553.08
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5046.18		52477.58		11556.49
**Conc. Mix. Transp.	m3	1.000		4353.09		46946.09		11536.10

Item No.  
 Work: Concrete, H, 20m, 3000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3527.13		39407.23		11719.29
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 3000m	m3	1.000		417.36		4300.14		45.84
Placing	m3	1.000		317.48		3916.55		16.98
Total				4737.00		51952.20		11798.13
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5112.61		53567.14		11801.54
**Conc. Mix. Transp.	m3	1.000		4419.52		48035.65		11781.15

Item No.  
 Work: Concrete, A, 20mm, 4000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		5130.43		55103.27		15651.63
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 4000m	m3	1.000		521.70		5375.78		57.29
Placing, pump	m3	1.000		317.48		3916.55		16.98
Total				6444.64		68723.88		15741.92
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6820.25		70338.82		15745.33
**Conc. Mix. Transp.	m3	1.000		6127.16		64807.33		15724.94

Item No.  
 Work: Concrete, B, 40mm, 4000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4439.06		47128.23		13625.15
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 4000m	m3	1.000		521.70		5375.78		57.29
Placing	m3	1.000		317.48		3916.55		16.98
Total				5753.27		60748.84		13715.44
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6128.88		62363.78		13718.85
**Conc. Mix. Transp.	m3	1.000		5435.79		56832.29		13698.46

Item No.  
 Work: Concrete, C, 20mm, 4000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4249.60		44908.79		13074.91
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 4000m	m3	1.000		521.70		5375.78		57.29
Placing	m3	1.000		317.48		3916.55		16.98
Total				5563.81		58529.40		13165.20
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5939.42		60144.34		13168.61
**Conc. Mix. Transp.	m3	1.000		5246.33		54612.85		13148.22

Item No.

Work:Concrete, D, 40mm, 4000m

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4317.45		45693.91		13273.43
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 4000m	m3	1.000		521.70		5375.78		57.29
Placing	m3	1.000		317.48		3916.55		16.98
Total				5631.66		59314.52		13363.72
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6007.27		60929.46		13367.13
**Conc. Mix. Transp.	m3	1.000		5314.18		55397.97		13346.74

Item No.

Work:Concrete, E, 40mm, 4000m

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4096.39		43169.75		12621.59
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 4000m	m3	1.000		521.70		5375.78		57.29
Placing	m3	1.000		317.48		3916.55		16.98
Total				5410.60		56790.36		12711.88
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5786.21		58405.30		12715.29
**Conc. Mix. Transp.	m3	1.000		5093.12		52873.81		12694.90

Item No.

Work:Concrete, F, 20mm, 4000m

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4372.32		46353.88		13430.22
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 4000m	m3	1.000		521.70		5375.78		57.29
Placing	m3	1.000		317.48		3916.55		16.98
Total				5686.53		59974.49		13520.51
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6062.14		61589.43		13523.92
**Conc. Mix. Transp.	m3	1.000		5369.05		56057.94		13503.53

Item No.  
 Work: Concrete, G, 40mm, 4000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3460.70		38317.67		11474.24
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 4000m	m3	1.000		521.70		5375.78		57.29
Placing	m3	1.000		317.48		3916.55		16.98
Total				4774.91		51938.28		11564.53
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5150.52		53553.22		11567.94
**Conc. Mix. Transp.	m3	1.000		4457.43		48021.73		11547.55

Work: Concrete, H, 20mm, 4000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3527.13		39407.23		11719.29
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 4000m	m3	1.000		521.70		5375.78		57.29
Placing	m3	1.000		317.48		3916.55		16.98
Total				4841.34		53027.84		11809.58
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5216.95		54642.78		11812.99
**Conc. Mix. Transp.	m3	1.000		4523.86		49111.29		11792.60



L CONCRETE WORK (4)





	Unit	** FC *	LC	Duty, Tax	** LC **	Total	Total
**Poza Honda-Mancha Grande**		(Yen)	(S/.)	(S/.)	(S/.)	(S/.)	(US\$)
Concrete, A, 20mm	m3	4981.73	53664.26	15171.66	68835.92	180924.85	80.41
Concrete, B, 40mm	m3	4286.61	45652.71	13132.98	58785.69	155234.42	68.99
Concrete, C, 20mm	m3	4093.16	43395.05	12570.01	55965.06	148061.16	65.80
Concrete, D, 40mm	m3	4161.34	44183.29	12769.58	56952.87	150583.02	66.93
Concrete, E, 40mm	m3	3940.62	41662.29	12118.79	53781.08	142445.03	63.31
Concrete, F, 20mm	m3	4219.23	44872.11	12935.97	57808.08	152740.76	67.88
Concrete, G, 40mm	m3	3301.37	36775.62	10959.87	47735.49	122016.32	54.23
Concrete, H, 20mm	m3	3371.69	37903.03	11217.58	49120.61	124983.64	55.55
Concrete A, 20mm, 1km, pump	m3	6066.10	64298.17	15230.12	79528.29	214665.54	95.41
Concrete A, 20mm, 1km, bucket	m3	6381.71	65913.11	15233.53	81146.64	224735.12	99.88
Concrete A, 20mm, 1km, excl. place	m3	5688.62	60381.62	15213.14	75594.76	203588.71	90.48
Concrete B, 40mm, 1km, pump	m3	5310.98	56286.62	13191.44	69478.06	188975.11	83.99
Concrete B, 40mm, 1km, bucket	m3	5686.59	57901.56	13194.85	71096.41	199044.69	88.46
Concrete B, 40mm, 1km, excl. place	m3	4993.50	52370.07	13174.46	65544.53	177898.28	79.07
Concrete C, 20mm, 1km, pump	m3	5117.53	54028.96	12628.47	66657.43	181801.86	80.80
Concrete C, 20mm, 1km, bucket	m3	5493.14	55643.90	12631.88	68275.78	191871.43	85.28
Concrete C, 20mm, 1km, excl. place	m3	4800.05	50112.41	12611.49	62723.90	170725.03	75.88
Concrete D, 40mm, 1km, pump	m3	5185.71	54817.20	12828.04	67645.24	184323.72	81.92
Concrete D, 40mm, 1km, bucket	m3	5561.32	56432.14	12831.45	69263.59	194393.29	86.40
Concrete D, 40mm, 1km, excl. place	m3	4868.23	50900.65	12811.06	63711.71	173246.89	77.00
Concrete E, 40mm, 1km, pump	m3	4964.99	52296.20	12177.25	64473.45	176185.73	78.30
Concrete E, 40mm, 1km, bucket	m3	5340.60	53911.14	12180.66	66091.80	186255.30	82.78
Concrete E, 40mm, 1km, excl. place	m3	4647.51	48379.65	12160.27	60539.92	165108.90	73.38
Concrete F, 20mm, 1km, pump	m3	5243.60	55566.02	12994.43	68500.45	186481.45	82.88
Concrete F, 20mm, 1km, bucket	m3	5619.21	57120.96	12997.84	70118.80	196551.03	87.36
Concrete F, 20mm, 1km, excl. place	m3	4926.12	51589.47	12977.45	64566.92	175404.62	77.96
Concrete G, 40mm, 1km, pump	m3	4325.74	47409.53	11018.33	58427.86	155757.01	69.23
Concrete G, 20mm, 1km, bucket	m3	4701.35	49024.47	11021.74	60046.21	165826.59	73.70
Concrete G, 20mm, 1km, excl. place	m3	4008.26	43492.98	11001.35	54494.33	144680.18	64.30
Concrete H, 20mm, 1km, pump	m3	4396.06	48536.94	11276.04	59812.98	158724.33	70.54
Concrete H, 20mm, 1km, bucket	m3	4771.67	50151.88	11279.45	61431.33	168793.91	75.02
Concrete H, 20mm, 1km, excl. place	m3	4078.58	44620.39	11259.06	55879.45	147647.50	65.62
Concrete A, 20mm, 10km, pump	m3	6872.52	73224.78	15325.28	88550.06	243181.76	108.08
Concrete A, 20mm, 10km, bucket	m3	7248.13	74839.72	15328.69	90168.41	253251.34	112.56
Concrete A, 20mm, 10km, excl. place	m3	6555.04	69308.23	15308.30	84616.53	232104.93	103.16
Concrete B, 40mm, 10km, pump	m3	6177.40	65213.23	13286.60	78499.83	217491.33	96.66
Concrete B, 40mm, 10km, bucket	m3	6553.01	66828.17	13290.01	80118.18	227560.91	101.14
Concrete B, 40mm, 10km, excl. place	m3	5859.92	61296.68	13269.62	74566.30	206414.50	91.74
Concrete C, 20mm, 10km, pump	m3	5983.95	62955.57	12723.63	75679.20	210318.08	93.47
Concrete C, 20mm, 10km, bucket	m3	6359.56	64570.51	12727.04	77297.55	220387.65	97.95
Concrete C, 20mm, 10km, excl. place	m3	5666.47	59039.62	12706.65	71745.67	199241.25	88.55
Concrete D, 40mm, 10km, pump	m3	6052.13	63743.81	12923.20	76667.01	212839.94	94.60
Concrete D, 40mm, 10km, bucket	m3	6427.74	65358.75	12926.61	78285.36	222909.51	99.07
Concrete D, 40mm, 10km, excl. place	m3	5734.65	59827.26	12906.22	72733.48	201763.11	89.67
Concrete E, 40mm, 10km, pump	m3	5831.41	61222.81	12775.21	73998.02	205204.75	91.20
Concrete E, 40mm, 10km, bucket	m3	6207.02	62837.75	12778.62	75616.37	215274.32	95.68
Concrete E, 40mm, 10km, excl. place	m3	5513.93	57306.26	12758.23	70064.49	194127.92	86.28
Concrete F, 20mm, 10km, pump	m3	6110.02	64432.63	13089.59	77522.22	214997.67	95.55
Concrete F, 20mm, 10km, bucket	m3	6485.63	66047.57	13093.00	79140.57	225067.25	100.03
Concrete F, 20mm, 10km, excl. place	m3	5792.54	60516.08	13072.61	73588.69	203920.84	90.63

	Unit	** FC *	LC	Duty, Tax	** LC **	Total	Total
		(Yen)	(S/.)	(S/.)	(S/.)	(S/.)	(US\$)
<b>**Poza Honda-Mancha Grande**</b>							
Concrete G, 40mm, 10km, pump	m3	5192.16	56336.14	11113.49	67449.63	184273.23	81.90
Concrete G, 20mm, 10km, bucket	m3	5567.77	57951.08	11116.90	69067.98	194342.81	86.37
Concrete G, 20mm, 10km, excl. plac	m3	4874.68	52419.59	11096.51	63516.10	173196.40	76.98
Concrete H, 20mm, 10km, pump	m3	5262.48	57463.55	11371.20	68834.75	187240.55	83.22
Concrete H, 20mm, 10km, bucket	m3	5638.09	59078.49	11374.61	70453.10	197310.13	87.69
Concrete H, 20mm, 10km, excl. plac	m3	4945.00	53547.00	11354.22	64901.22	176163.72	78.29

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Average, 1km and 10km

Concrete E, wall

10 km	m3	6207.00	62838.00	12778.00			
1 km	m3	5341.00	53911.00	12181.00			
Average	m3	5774.00	58374.00	12480.00	70854.00	200769.00	89.23

Concrete F, drain

10 km	m3	6486.00	66048.00	13093.00			
1 km	m3	5619.00	57121.00	12938.00			
Average	m3	6053.00	61585.00	13045.00	74630.00	210822.50	93.70

Concrete H, levelling

10 km	m3	5638.00	59078.00	11375.00			
1 km	m3	4772.00	50152.00	11279.00			
Average	m3	5205.00	54615.00	11327.00	65942.00	183054.50	81.36

\*\*\*\*Poza Honda-Mancha Grande Tunnel\*\*\*\*

Item No.

Work:Concret type A,20mm

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost								
Portland cement	ton	0.430	4969.00	2136.67	65360.00	28104.80	17200.00	7396.00
Aggregate, fine***	ton	0.711	745.00	529.70	7182.00	5106.40	2394.00	1702.13
Aggregate, coarse***	ton	1.138	734.00	835.29	7079.00	8055.90	2360.00	2685.68
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	1.075	342.00	367.65	385.00	413.88	0.00	0.60
Miscellaneous(3%)				116.08		1250.43		353.51
Subtotal				3985.39		42931.41		12137.33
Overhead				996.35		10732.85		3034.33
Total				4981.73		53664.26		15171.66

Item No.

Work:Concret type B,40mm

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost								
Portland ceant	ton	0.330	4969.00	1639.77	65360.00	21568.80	17200.00	5676.00
Aggregate, fine***	ton	0.771	745.00	574.40	7182.00	5537.32	2394.00	1845.77
Aggregate, coarse***	ton	1.135	734.00	833.09	7079.00	8034.67	2360.00	2678.60
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.825	342.00	282.15	385.00	317.63	0.00	0.00
Miscellaneous(3%)				99.88		1063.75		306.01
Subtotal				3429.29		36522.16		10506.39
Overhead				857.32		9130.54		2626.60
Total				4286.61		45652.71		13132.98

Item No.

Work:Concret type C,20mm

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost								
Portland cement	ton	0.300	4969.00	1490.70	65360.00	19608.00	17200.00	5160.00
Aggregate, fine***	ton	0.727	745.00	541.62	7182.00	5221.31	2394.00	1740.44
Aggregate, coarse***	ton	1.213	734.00	890.34	7079.00	8586.83	2360.00	2862.68
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.750	342.00	256.50	385.00	288.75	0.00	0.00
Miscellaneous(3%)				95.37		1011.15		292.89
Subtotal				3274.53		34716.04		10056.01
Overhead				818.63		8679.01		2514.00
Total				4093.16		43395.05		12570.01

Item No.

Work:Concret type D,40mm

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost								
Portland cement	ton	0.310	4969.00	1540.39	65360.00	20261.60	17200.00	5332.00
Aggregate, fine***	ton	0.713	745.00	531.19	7182.00	5120.77	2394.00	1706.92
Aggregate, coarse***	ton	1.220	734.00	895.48	7079.00	8636.38	2360.00	2879.20
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.775	342.00	265.05	385.00	298.38	0.00	0.00
Miscellaneous(3%)				96.96		1029.51		297.54
Subtotal				3329.07		35346.63		10215.67
Overhead				832.27		8836.66		2553.92
Total				4161.34		44183.29		12769.58

Item No.

Work:Concret type E,40mm

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount (Yen)	Unit Cost	Amount (S/.)	Unit Cost	Amount (S/.)
Material cost								
Portland cement	ton	0.280	4969.00	1391.32	65360.00	18300.80	17200.00	4816.00
Aggregate, fine***	ton	0.745	745.00	555.03	7182.00	5350.59	2394.00	1783.53
Aggregate, coarse***	ton	1.192	734.00	874.93	7079.00	8438.17	2360.00	2813.12
Air-entraining agent	kg	0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg	0.700	342.00	239.40	385.00	269.50	0.00	0.00
Miscellaneous(3%)				91.82		970.77		282.38
Subtotal				3152.49		33329.83		9695.03
Overhead				788.12		8332.46		2423.76
Total				3940.62		41662.29		12118.79

Item No.  
 Work:Concret type F,20mm  
 Remarks:lm3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Material cost							
Portland cement	ton 0.320	4969.00	1590.08	65360.00	20915.20	17200.00	5504.00
Aggregate, fine***	ton 0.774	745.00	576.63	7182.00	5558.87	2394.00	1852.96
Aggregate, coarse***	ton 1.140	734.00	836.76	7079.00	8070.06	2360.00	2690.40
Air-entraining agent	kg 0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg 0.800	342.00	273.60	385.00	308.00	0.00	0.00
Miscellaneous(3%)			98.31		1045.56		301.42
Subtotal			3375.38		35897.69		10348.78
Overhead			843.85		8974.42		2587.19
Total			4219.23		44872.11		12935.97

Item No.  
 Work:Concret type G,40mm  
 Remarks:lm3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Material cost							
Portland cement	ton 0.220	4969.00	1093.18	65360.00	14379.20	17200.00	3784.00
Aggregate, fine***	ton 0.806	745.00	600.47	7182.00	5788.69	2334.00	1929.56
Aggregate, coarse***	ton 1.186	734.00	870.52	7079.00	8395.69	2360.00	2798.96
Air-entraining agent	kg 0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg 0.000	342.00	0.00	385.00	0.00	0.00	0.00
Miscellaneous(3%)			76.93		856.91		255.38
Subtotal			2641.10		29420.49		8767.90
Overhead			660.27		7355.12		2191.97
Total			3301.37		36775.62		10959.87

Item No.  
 Work:Concret type H,20mm  
 Remarks:lm3  
 Unit Price:

Description	Unit Quantity	Foreign Currency		Local Currency		Duty & Tax	
		Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Material cost							
Portland cement	ton 0.240	4969.00	1192.56	65360.00	15685.40	17200.00	4128.00
Aggregate, fine***	ton 0.740	745.00	551.30	7182.00	5314.68	2394.00	1771.56
Aggregate, coarse***	ton 1.192	734.00	874.93	7079.00	8438.17	2360.00	2813.12
Air-entraining agent	kg 0.000	257.00	0.00	289.00	0.00	0.00	0.00
Water reducing agent	kg 0.000	342.00	0.00	385.00	0.00	0.00	0.00
Miscellaneous(3%)			78.56		883.18		261.38
Subtotal			2697.35		30322.43		8974.06
Overhead			674.34		7580.61		2243.52
Total			3371.69		37903.03		11217.58

Item No.

Work:Concrete,A,20mm,1000m

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4981.73		53664.26		15171.66
Mixing	m3	1.000		475.03		4328.28		16.02
Transport,1000m	m3	1.000		231.86		2389.08		25.46
Placing,pump	m3	1.000		317.48		3916.55		16.98
Total				6006.10		64298.17		15230.12
Placing,bucket	m3	1.000		693.09		5531.49		20.39
Total				6381.71		65913.11		15233.53
**Conc.Mix.Transp.	m3	1.000		5688.62		60381.62		15213.14

Item No.

Work:Concrete,B,40mm,1000m

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4286.61		45652.71		13132.98
Mixing	m3	1.000		475.03		4328.28		16.02
Transport,1000m	m3	1.000		231.86		2389.08		25.46
Placing	m3	1.000		317.48		3916.55		16.98
Total				5310.98		56286.62		13191.44
Placing,bucket	m3	1.000		693.09		5531.49		20.39
Total				5686.59		57901.56		13194.85
**Conc.Mix.Transp.	m3	1.000		4993.50		52370.07		13174.46

Item No.

Work:Concrete,C,20mm,1000m

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4093.16		43395.05		12570.01
Mixing	m3	1.000		475.03		4328.28		16.02
Transport,1000m	m3	1.000		231.86		2389.08		25.46
Placing	m3	1.000		317.48		3916.55		16.98
Total				5117.53		54028.96		12628.47
Placing,bucket	m3	1.000		693.09		5531.49		20.39
Total				5493.14		55643.90		12631.88
**Conc.Mix.Transp.	m3	1.000		4800.05		50112.41		12611.49

Item No.  
 Work: Concrete, D, 40mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4161.34		44183.29		12769.58
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 1000m	m3	1.000		231.86		2389.08		25.46
Placing	m3	1.000		317.48		3916.55		16.98
Total				5185.71		54817.20		12828.04
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5561.32		56432.14		12831.45
**Conc. Mix. Transp.	m3	1.000		4868.23		50900.65		12811.06

Item No.  
 Work: Concrete, E, 40mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3940.62		41662.29		12118.79
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 1000m	m3	1.000		231.86		2389.08		25.46
Placing	m3	1.000		317.48		3916.55		16.98
Total				4964.99		52296.20		12177.25
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5340.60		53911.14		12180.66
**Conc. Mix. Transp.	m3	1.000		4647.51		48379.65		12160.27

Item No.  
 Work: Concrete, F, 20mm, 1000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4219.23		44872.11		12935.97
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 1000m	m3	1.000		231.86		2389.08		25.46
Placing	m3	1.000		317.48		3916.55		16.98
Total				5243.60		55506.02		12994.43
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				5619.21		57120.96		12997.84
**Conc. Mix. Transp.	m3	1.000		4926.12		51589.47		12977.45



Item No.

Work:Concrete,G,40m,1000m

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3301.37		36775.62	10959.87	
Mixing	m3	1.000		475.03		4328.28	16.02	
Transport,1000m	m3	1.000		231.86		2389.08	25.46	
Placing	m3	1.000		317.48		3916.55	16.98	
Total				4325.74		47409.53	11018.33	
Placing,bucket	m3	1.000		693.09		5531.49	20.39	
Total				4701.35		49024.47	11021.74	
**Conc.Mix.Transp.	m3	1.000		4008.26		43492.98	11001.35	

Work:Concrete,H,20m,1000m

Remarks:1m3

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3371.69		37903.03	11217.58	
Mixing	m3	1.000		475.03		4328.28	16.02	
Transport,1000m	m3	1.000		231.86		2389.08	25.46	
Placing	m3	1.000		317.48		3916.55	16.98	
Total				4396.06		48536.94	11276.04	
Placing,bucket	m3	1.000		693.09		5531.49	20.39	
Total				4771.67		50151.88	11279.45	
**Conc.Mix.Transp.	m3	1.000		4078.58		44620.39	11259.06	

Item No.  
 Work: Concrete, A, 20mm, 10000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4981.73		53664.26		15171.66
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 10000m	m3	1.000		1098.28		11315.69		120.62
Placing, pump	m3	1.000		317.48		3916.55		16.98
Total				6872.52		73224.78		15325.28
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				7248.13		74839.72		15328.69
**Conc. Mix. Transp.	m3	1.000		6555.04		69308.23		15308.30

Item No.  
 Work: Concrete, B, 40mm, 10000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4286.61		45652.71		13132.98
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 10000m	m3	1.000		1098.28		11315.69		120.62
Placing	m3	1.000		317.48		3916.55		16.98
Total				6177.40		65213.23		13286.60
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6553.01		66828.17		13290.01
**Conc. Mix. Transp.	m3	1.000		5859.92		61296.68		13269.62

Item No.  
 Work: Concrete, C, 20mm, 10000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4093.16		43395.05		12570.01
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 10000m	m3	1.000		1098.28		11315.69		120.62
Placing	m3	1.000		317.48		3916.55		16.98
Total				5983.95		62955.57		12723.63
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6359.56		64570.51		12727.04
**Conc. Mix. Transp.	m3	1.000		5666.47		59039.02		12706.65

Item No.  
 Work: Concrete, D, 40mm, 10000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4161.34		44183.29		12769.58
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 10000m	m3	1.000		1098.28		11315.69		120.62
Placing	m3	1.000		317.48		3916.55		16.98
Total				6052.13		63743.81		12923.20
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6427.74		65358.75		12926.61
**Conc. Mix. Transp.	m3	1.000		5734.65		59827.26		12906.22

Item No.  
 Work: Concrete, E, 40mm, 10000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3940.62		41662.29		12621.59
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 10000m	m3	1.000		1098.28		11315.69		120.62
Placing	m3	1.000		317.48		3916.55		16.98
Total				5831.41		61223.81		12775.21
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6207.02		62837.75		12778.62
**Conc. Mix. Transp.	m3	1.000		5513.93		57306.26		12758.23

Item No.  
 Work: Concrete, F, 20mm, 10000m  
 Remarks: 1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		4219.23		44872.11		12935.97
Mixing	m3	1.000		475.03		4328.28		16.02
Transport, 10000m	m3	1.000		1098.28		11315.69		120.62
Placing	m3	1.000		317.48		3916.55		16.98
Total				6110.02		64432.63		13089.59
Placing, bucket	m3	1.000		693.09		5531.49		20.39
Total				6485.63		66047.57		13093.00
**Conc. Mix. Transp.	m3	1.000		5792.54		60516.08		13072.61

Item No.  
 Work:Concrete,G,40mm,10000m  
 Remarks:1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3301.37		36775.62		10959.87
Mixing	m3	1.000		475.03		4328.28		16.02
Transport,10000m	m3	1.000		1098.28		11315.69		120.62
Placing	m3	1.000		317.48		3916.55		16.98
Total				5192.16		56336.14		11113.49
Placing,bucket	m3	1.000		693.09		5531.49		20.39
Total				5567.77		57951.08		11116.90
**Conc.Mix.Transp.	m3	1.000		4874.68		52419.59		11096.51

Work:Concrete,H,20mm,10000m  
 Remarks:1m3  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Concrete	m3	1.000		3371.69		37903.03		11217.58
Mixing	m3	1.000		475.03		4328.28		16.02
Transport,10000m	m3	1.000		1098.28		11315.69		120.62
Placing	m3	1.000		317.48		3916.55		16.98
Total				5262.48		57463.55		11371.20
Placing,bucket	m3	1.000		693.09		5531.49		20.39
Total				5638.09		59078.49		11374.61
**Conc.Mix.Transp.	m3	1.000		4945.00		53547.00		11354.22



M CONCRETE WORK (5)



	Unit	** FC *	LC	Duty.Tax	** LC **	Total	Total
		(yen)	(S/.)	(S/.)	(S/.)	(S/.)	(US\$)
Electric,200KVA	kwh	8.97	370.05	10.20	380.25	582.08	0.26
exclude OH	kwh	7.18	296.04	8.16	304.20	465.75	0.21
Electric,300KVA	kwh	8.80	332.25	9.68	341.93	539.93	0.24
exclude OH	kwh	7.04	265.80	7.74	273.54	431.94	0.19
Elect.average of 200/300	kwh	7.11	280.92	7.95	288.87	448.85	0.20
Concrete plant,0.75m3*2	m3	475.03	4328.29	16.02	4344.31	15032.49	6.68
Carry concrete,1000m	m3	231.66	2389.08	25.46	2414.54	7631.39	3.39
Carry concrete,2000m	m3	326.06	3359.82	35.82	3395.64	10731.99	4.77
Carry concrete,4000m	m3	521.70	5375.78	57.29	5433.07	17171.32	7.63
Carry concrete,5000m	m3	613.77	6324.57	67.41	6391.98	20201.81	8.98
Placing concrete,pump,45m3/hr	m3	317.48	3916.55	16.89	3933.44	11076.74	4.92
Placing concrete,1m3 bucket	m3	693.09	5531.49	20.39	5551.88	21146.41	9.40
Form,F1	m2	355.72	11313.83	204.71	11518.54	19522.24	8.68
Form,F3,F4	m2	408.18	25378.54	289.69	25668.23	34852.28	15.49
Form,F2	m2	436.99	15230.44	102.36	15332.80	25165.08	11.18
Form,F2,F3	m2	348.79	20139.67	210.51	20350.18	29197.96	12.53
Form,wall,F1	m2	350.64	15428.91	138.41	15567.32	23455.72	10.43
Form,ditch,pit,F1	m2	24.66	15001.14	277.46	15278.60	15833.45	7.04
Waterstop,A 300	m	3361.66	9091.39	0.00	9091.39	84728.74	37.66
Waterstop,B 200	m	1722.68	7247.69	0.00	7247.69	46007.99	20.45
Joint filler,10mm	m2	1215.34	4408.00	0.00	4408.00	31753.15	14.11
Joint filler,20mm	m2	2430.67	5776.09	0.00	5776.09	60466.17	26.87
Mortar,1:1	m3	8269.48	149596.50	28319.53	177916.03	363979.33	161.77
exclude OH	m3	6615.59	119677.20	22655.62	142332.82	291183.60	129.41
Mortar,1:2	m3	6166.97	116681.88	20960.44	137642.32	276399.15	122.84
exclude OH	m3	4933.58	93345.50	16768.35	110113.85	221119.40	98.28
Carry concrete,3000m	m3	417.36	4300.14	45.84	4345.98	13736.58	6.11
Carry concrete,10000m	m3	1098.28	11315.69	120.62	11436.31	36147.61	16.07
Carry concrete,6000m	m3	695.59	7166.71	76.39	7243.10	22893.88	10.18
Waterstop,C 150	m	1363.46	6843.41	0.00	6843.41	37521.26	16.66
Reinforcement,with crane	ton	35797.19	943005.14	111022.73	1054027.87	1859464.65	826.43
Formwork,open channel	m2	1220.78	16706.11	914.22	17620.33	45087.88	20.04



Item No.

Work:Electric

Remarks:1440kwh,diesel generator,200KVA,160\*10h\*0.9=1440

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Foreman	md	0.020	0.00	0.00	20600.00	412.00	0.00	0.00
Operator	md	1.900	0.00	0.00	20500.00	20500.00	0.00	0.00
Assist operator	md	1.000	0.00	0.00	17900.00	17900.00	0.00	0.00
Electrician	md	0.500	0.00	0.00	25700.00	12850.00	0.00	0.00
Common labor	md	2.000	0.00	0.00	17300.00	34600.00	0.00	0.00
Subtotal(*1.785)				0.00		153977.67		0.00
Material cost								
Fuel,260HP	lit	416.000	4.00	1664.00	353.00	146848.00	1.00	416.00
Lubricant	lit	20.800	44.00	915.20	4150.00	86320.00	500.00	10400.00
Grease	kg	0.910	58.00	52.78	5395.00	4909.45	650.00	591.50
Miscellaneous(3%)				78.96		7142.32		342.23
Subtotal				2710.94		245219.77		11749.73
Equipment cost								
Generator,200KVA	day	1.000	7264.00	7264.00	25895.00	25895.00	0.00	0.00
Miscellaneous(5%)				363.20		1290.25		0.00
Subtotal				7627.20		27095.25		0.00
Overhead				2584.53		105573.17		2937.43
Total				12922.67		532865.87		14687.16
Unit price				8.97		370.05		10.20
Unit price(exclude OH)				7.18		296.04		8.16

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Unit,average,200KVA/300KVA Refer to Unit Price List  
(FC),(LC)

Item No.

Work: Electric

Remarks: 2160kwh, diesel generator, 300KVA, 240\*10h\*0.9=2160

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Foreman	nd	0.020	0.00	0.00	20600.00	412.00	0.00	0.00
Operator	nd	1.000	0.00	0.00	20500.00	20500.00	9.00	0.00
Assist operator	nd	1.000	0.00	0.00	17900.00	17900.00	0.00	0.00
Electrician	nd	0.500	0.00	0.00	25700.00	12850.00	0.00	0.00
Common labor	nd	3.000	0.00	0.00	17300.00	51900.00	0.00	0.00
Subtotal(*1.785)				0.00		184858.17		0.00
Material cost								
Fuel, 370HP	lit	592.000	4.00	2368.00	353.00	208976.00	1.00	592.00
Lubricant	lit	29.600	44.00	1302.40	4150.00	122840.00	500.00	14800.00
Grease	kg	1.295	58.00	75.11	5395.00	6986.53	650.00	841.75
Miscellaneous(3%)				112.37		10164.08		487.01
Subtotal				3857.88		348966.60		16720.76
Equipment cost								
Generator, 300KVA	day	1.000	10806.00	10806.00	38391.00	38391.00	0.00	0.00
Miscellaneous(5%)				540.30		1919.55		0.00
Subtotal				11346.30		40310.55		0.00
Overhead				3801.04		143533.83		4180.19
Total				19005.22		717669.15		20900.95
Unit price				8.80		332.25		9.68
Unit price(exclude OH)				7.04		265.80		7.74

Item No.

Work: Concrete plant, 0.75m<sup>3</sup>\*2

Remarks: 234m<sup>3</sup>/day

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
Labor cost								
Foreman A	md	1.000	0.00	0.00	24700.00	24700.00	0.00	0.00
Foreman B	md	1.000	0.00	0.00	20600.00	20600.00	0.00	0.00
Operator	md	2.000	0.00	0.00	22900.00	45800.00	0.00	0.00
Assist operator	md	2.000	0.00	0.00	17900.00	35800.00	0.00	0.00
Mechanic	md	1.000	0.00	0.00	25700.00	25700.00	0.00	0.00
Electrician	md	1.000	0.00	0.00	25700.00	25700.00	0.00	0.00
Common labor	md	10.000	0.00	0.00	17300.00	173000.00	0.00	0.00
Subtotal				0.00		351300.00		0.00
Material cost								
Electric***	kwh	364.000	7.00	2548.00	281.00	102284.00	8.00	2912.00
Miscellaneous(3%)				76.44		3068.52		87.36
Subtotal				2624.44		105352.52		2999.36
Equipment cost								
Concrete plant, 0.75m <sup>3</sup> *2	hr	6.500	12070.00	78455.00	49455.00	321457.50	0.00	0.00
Miscellaneous(10%)				7845.50		32145.75		0.00
Subtotal				86300.50		353603.25		0.00
Overhead				22231.24		202563.94		749.84
Total				111156.18		1012819.71		3749.20
Unit price				475.03		4328.29		16.02

Item No.  
 Work: Carrying concrete  
 Remarks: 100m<sup>3</sup>, 1000m  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labor cost</b>								
Foreman	ad	0.171	0.00	0.00	20600.00	3522.60	0.00	0.00
Driver	ad	1.709	0.00	0.00	18100.00	30932.90	0.00	0.00
Subtotal				0.00		34455.50		0.00
<b>Material cost</b>								
Light oil	lit	166.665	4.00	666.66	353.00	58832.75	1.00	166.67
Lubricant	lit	3.333	44.00	146.65	4150.00	13831.95	500.00	1666.50
Grease	kg	0.222	58.00	12.88	5395.00	1197.69	650.00	144.30
Miscellaneous(3%)				24.79		2215.87		59.32
Subtotal				850.97		76078.26		2036.79
<b>Equipment cost</b>								
Agitator truck, 3.2m <sup>3</sup>	hr	11.111	1517.00	16855.39	6908.00	76754.79	0.00	0.00
Miscellaneous(5%)				842.77		3837.74		0.00
Subtotal				17698.16		80592.53		0.00
Overhead				4637.28		47781.57		509.20
Total				23186.41		238907.85		2545.99
Unit price				231.86		2389.08		25.46

Item No.  
 Work: Carrying concrete  
 Remarks: 10m3, 2000m  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labor cost</b>								
Foreman	nd	0.240	0.00	0.00	20600.00	4944.00	0.00	0.00
Driver	nd	2.404	0.00	0.00	18100.00	43512.40	0.00	0.00
Subtotal				0.00		48456.40		0.00
<b>Material cost</b>								
Light oil	lit	234.375	4.00	937.50	353.00	82734.38	1.00	234.38
Lubricant	lit	4.688	44.00	206.27	4150.00	19455.20	500.00	2344.00
Grease	kg	0.313	58.00	18.15	5395.00	1688.64	650.00	203.45
Miscellaneous(3%)				34.86		3116.35		83.45
Subtotal				1196.78		106994.56		2865.28
<b>Equipment cost</b>								
Agitator truck, 3.2m3	hr	15.625	1517.00	23703.13	6908.00	107937.50	0.00	0.00
Miscellaneous(5%)				1185.16		5396.88		0.00
Subtotal				24888.28		113334.38		0.00
Overhead				6521.27		67196.33		716.32
Total				32606.33		335981.66		3581.60
Unit price				326.06		3359.82		35.82

Item No.  
 Work: Carrying concrete  
 Remarks: 100m<sup>3</sup>, 4000m  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labor cost</b>								
Foreman	ad	0.385	0.00	0.00	20600.00	7931.00	0.00	0.00
Driver	ad	3.846	0.00	0.00	18160.00	69612.60	0.00	0.00
Subtotal				0.00		77543.60		0.00
<b>Material cost</b>								
Light oil	lit	375.000	4.00	1500.00	353.00	132375.00	1.00	375.00
Lubricant	lit	7.500	44.00	330.00	4150.00	31125.00	500.00	3750.00
Grease	kg	0.500	58.00	29.00	5395.00	2697.50	650.00	325.00
Miscellaneous(3%)				55.77		4985.93		133.50
Subtotal				1914.77		171183.43		4583.50
<b>Equipment cost</b>								
Agitator truck, 3.2m <sup>3</sup>	hr	25.000	1517.00	37925.00	6908.00	172700.00	0.00	0.00
Miscellaneous(5%)				1896.25		8635.00		0.00
Subtotal				39821.25		181335.00		0.00
Overhead				10434.01		107515.51		1145.88
Total				52170.03		537577.53		5729.38
Unit price				521.70		5375.78		57.29

Item No.  
 Work: Carrying concrete  
 Remarks: 100m3, 5000m  
 Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labor cost</b>								
Foreman	nd	0.453	0.00	0.00	20600.00	9331.80	0.00	0.00
Driver	nd	4.525	0.00	0.00	18100.00	81902.50	0.00	0.00
Subtotal				0.00		91234.30		0.00
<b>Material cost</b>								
Light oil	lit	441.180	4.00	1764.72	353.00	155736.54	1.00	441.18
Lubricant	lit	8.824	44.00	388.26	4150.00	36619.60	500.00	4412.00
Grease	kg	0.588	58.00	34.10	5395.00	3172.26	650.00	382.20
Miscellaneous(3%)				65.61		5865.85		157.06
Subtotal				2252.69		201394.25		5392.44
<b>Equipment cost</b>								
Agitator truck, 3.2m3	hr	29.412	1517.00	44618.00	6908.00	203178.10	0.00	0.00
Miscellaneous(5%)				2230.90		10158.90		0.00
Subtotal				46848.90		213337.00		0.00
Overhead				12275.40		126491.39		1348.11
Total				61377.00		632456.94		6740.55
Unit price				613.77		6324.57		67.41

Item No.

Work:Placing concrete by concrete pump

Remarks:100m<sup>3</sup>,conc pump car 45m<sup>3</sup>/hr

Unit Price:

Description	Unit	Quantity	Foreign Currency		Local Currency		Duty & Tax	
			Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
<b>Labor cost</b>								
Foreman	md	0.244	0.00	0.00	20600.00	5026.40	0.00	0.00
Operator	md	0.610	0.00	0.00	25600.00	15616.00	0.00	0.00
Assist operator	md	0.610	0.00	0.00	17900.00	10919.00	0.00	0.00
Concrete worker	md	4.000	0.00	0.00	19000.00	76000.00	0.00	0.00
Common labor	md	2.000	0.00	0.00	17300.00	34600.00	0.00	0.00
Subtotal				0.00		142161.40		0.00
<b>Material cost</b>								
Light oil	lit	91.264	4.00	365.06	353.00	32216.19	1.00	91.26
Lubricant	lit	1.984	44.00	87.30	4150.00	8233.60	500.00	992.00
Grease	kg	0.119	58.00	6.90	5395.00	642.01	650.00	77.35
Electric***	kwh	4.762	7.00	33.33	281.00	1338.12	8.00	38.10
Miscellaneous(3%)				14.78		1272.90		35.96
Subtotal				507.37		43702.82		1234.67
<b>Equipment cost</b>								
Conc.pump car.45m <sup>3</sup> /hr	hr	3.968	4923.00	19534.46	22414.00	88938.75	0.00	0.00
Vibrator,45mm	day	4.000	493.00	1972.00	1331.00	5324.00	0.00	0.00
Miscellaneous(5%)				1075.32		4713.14		0.00
Subtotal				22581.79		98975.89		0.00
Overhead				5772.29		71210.03		308.67
Total				28861.44		356050.13		1543.34
Unit price				288.61		3560.50		15.43
Prepa,Pipe install etc. 10 % up				317.48		3916.55		16.98