	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Pipe culvert 1219 mm	Pay Item No. (BOQ)	2H-0503
Quantity Item	Lean concrete	Unit	V. Ž

Volume of lean concrete was computed by multiplying section area by actual length.

References, Calculation Base and Revisions

See the item of excavation and disposed is 45/min.

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	D _{in} (m)	D _{out} (m)	t (m)	<u>G</u>	Yin (m)	Yout	H	L	Lac	Vex	Vcs	VIc	Vbf	Cmpct
1 CP-1	0.457	0.584	0.064	(m) 5.55	(m) 3,599	(m) 3,545	(m) 2.312	(m) 17	(m) 16.6	(m3) 67	(m3)	(m3)	(m3)	(m2)
2 CP-2	0.457	0.584	0.064	5.487	3.543	3.505	2.297	20	19.6	78	1.46	1.47 1.74	60 70	48,1 56,5
3 CP-3	0.457	0.584	0.064	5.437	3.503	3.431	2.304	35	34.6	139	3.04	3.06	124	100
4 CP-4	0.457	0.584	0,064	5,537	3.429	3.391	2.461	20	19.6	88	1.72	1.74	80	59.7
5 ICP-4-1 6 ICP-5	0.457	0.584	0.064	5.487	3.469	3.431	2.371	20	19.6	83	1.72	1.74	75	58
7 CP-5-1	0.457 0.457	0,584 0.584	0.064	5.637	3.389	3.257	2.648	70	69.6	352	6.1	6.16	321	225
8 CP-7	0.457	0.584	0.064	5.637 5.682	3.405 2.891	3.391 2.824	2.573	8	7.6	37	0.67	0.68	34	24
9 CP-8-1	0.457	0.584	0.064	5.507	2.955	2.824	3.158 2.951	35 68	34.6 67.6	237	3.04	3.06	222	129.5
10 CP-8-1-1	0.457	0.584	0.064	5.55	3.019	2.957	2.896	30	29.6	41.1 175	5.93 2.6	5,98 2.62	381 162	239
11 CP-8-2	0.457	0.584	0.064	5.507	2.995	2.957	2.865	20	19.6	114	1.72	1,74	106	103.1 67.7
12 CP-8-2-1	0.457	0.584	0.064	5.555	3.021	2.997	2.88	10	9.6	56	0.85	0.85	52	33.3
13 CP-8-3	0.457	0.584	0.064	5,507	3.069	2.997	2.808	35	34.6	194	3.04	3.06	179	117.4
14 CP-8-4 15 DP-1	0.457 0.457	0.584	0.064	5.507	3,095	3.071	2.758	10	9.6	52	0.85	0.85	48	32.1
16 DP-2	0.457	0.584 0.584	0.064	5.875 5.35	4.997 3.347	4.253 3.249	1.584	129.19	128.79	281	11.29	11.39	224	279.3
17 DP-3	0.457	0.584	0.064	5.27	3.245	3.226	2.386 2.368	20.82 24.13	20.42	87	1.79	1.81	78	60,7
18 DP-4-1	0.457	0.584	0.064	5.34	3.247	3.226	2.437	21.75	23.73 21.35	100 94	2.08 1.88	2.1	90	70.1
19 DP-7-1	0.457	0.584	0.064	5.17	2.883	2.868	2.628	18.25	17.85	90	1.57	1.89 1.58	85 82	64.5 57.4
20 DP-9-1	0.457	0.584	0.064	5.015	2.746	2.543	2.704	150	149.6	784	13.11	13.23	718	491.9
21 DP-9-2	0.457	0.584	0.064	5.01	2.764	2.748	2,588	18.25	17.85	87	1.57	1.58	79	56.7
22 EP-1 23 EP-2	0.457	0.584	0.064	6.015	4.097	4.003	2.299	20	19.6	79	1.72	1.74	71	56.6
24 EP-2-1	0.457 0.457	0.584 0.584	0.064	5.78	3.997	3.596	2.317	81.47	81.07	328	7.11	7.17	292	235.2
25 EP-4-3	0.457	0.584	0.064	5.97 5.785	4.008 4.887	4.003	2,298 1,587	9.1	142.00	35	0.77	0.77	32	25.1
26 EP-4-4	0.457	0.584	0.064	6.195	4.887	4,176	1.584	142.69 22	142.29 21.6	312	12.47	12.58	249	309
27 EP-5-2	0.457	0.584	0.064	5.22	3.211	3.205	2.346	9.1	8.7	48 36	0.77	1.91 0.77	39	46.9 25.5
Total								1,070		4450	92.5	93.3	3990	3080
1 AP-1	0.04	0.755	0.5											2000
2 AP-2	0.61	0.762	0.076	5.522	2.644	2.61	3.311	20	19.6	157	2.69	3.01	143	79.9
3 AP-3	0.61 0.61	0.762 0.762	0.076	5.427 5.332	2.606 2.528	2.532	3.274	40	39.6	312	5.44	6.07	283	159.9
4 AP~4	0.61	0.762	0.076	5.232	2.328	2.484	3.242 3.251	26 85.78	25.6	198	3.52	3.92	179	102.6
5 AP-5-1	0.61	0.762	0.076	5.132	2.358	2.309	3,214	26	85.38 25.6	663 195	11.72 3.52	13.08	600	342.7
6 AP-6-1	0.61	0.762	0.076	4.928	2.182	2.138	3.184	26	25.6	192	3.52	3.92 3.92	176 173	101.8 101.1
7 AP-6-2	0.61	0.762	0.076	4.928	2.207	2.186	3.147	12.35	12.25	91	1.69	1.88	82	47.9
8 AP-7-1	0,61	0.762	0.076	4.711	1.997	1.952	3,152	26	25.6	189	3.52	3.92	170	100.2
9 BP-1-1 10 BP-2-1	0.61	0.762	0.076	5.332	2.129	2.085	3.641	26	25.6	241	3.52	3.92	222	112.8
11 BP-3-1	0.61 0.61	0.762	0.076	5.132	1.958	1.914	3.612	26	25.6	238	3.52	3.92	219	112
12 CP-11-1	0.61	0.762	0.076	4.928 5.132	1.782 2.579	1.738 2.535	3.584 2.991	26	25.6	235	3.52	3.92	216	111.3
13 CP-12-1	0.61	0.762	0.076	4.928	2.447	2,403	2.919	26 26	25.6 25.6	173 167	3.52 3.52	3.92	154	96.1
14 CP-13-1	0.61	0.762	0.076	4.711	1.64	1.596	3.509	26	25.6	227	3.52	3.92 3.92	148 208	94.3 109.4
15 CP-6	0.61	0.762	0.076	5.747	3.255	3.193	2.939	30	29.6	195	4.06	4.54	173	109.4
16 CP-8	0.61	0.762	0.076	5.42	2.82	2.754	3,049	35	34.6	242	4.75	5.3	216	131.9
17 CP-9 18 DP-4	0.61	0.762	0.076	5.332	2.75	2.706	3.02	26	25.6	176	3.52	3.92	157	96.9
19 DP-5-1	0.61	0.762 0.762	0.076	5.34	3.225	3.066	2.61	160	159.6	862	21.9	24.44	743	538.2
20 EP-3	0.61	0.762	0.076	5.34 5.46	3.087 3.59	3.066	2.679 2.42	21.75 55.01	21.35	121	2.93	3.27	105	73.5
21 EP-4	0.61	0.762	0.076	5.275	3.314	3.184	2.442	27,3	54.61 26.9	261 131	7,5 3.69	8.37	221	173.8
22 IEP-4-1	0.61	0.762	0.076	5.33	3.506	3.499	2.243	9.1	8.7	37	1.2	4.12 1.34	111 31	86.2 26.2
23 EP-4-2	0.61	0.762	0.076	5.38	4.172	4.008	1.706	5.43	5.03	14	0.69	0.78	11	12.5
24 IEP-5-1	0.61	0.762	0.076	5.22	3.201	3.184	2.443	15.3	14.9	73	2.05	2.29	62	47.8
Total								810		5390	110	122	4810	2970
1 AP5	0.762	0.94	0.089	5.03	2.309	2.138	3.265	87.49	87.09	720	1474	107		
2 BP-1	0.762	0.94	0.089	5.232	2.081	1.914	3.693	85.78	85.38	732 879	14.74 14.45	19.7 19.31	637 786	366.3
Total							2.000	174	99.00	1620	29.2	39.1	1430	395.6 762
1.40.0	0.04												1100	,,,,,,,
1 AP-6 2 BP-2	0.914	1.118	0.102	4.82	2.134	1.952	3.269	93.6	93.2	839	18.76	28.14	701	408.9
3 CP-10	0.914	1.118 1.118	0.102 0.102	5.03	1.91	1.739	3.697	87.49	87.09	956	17.53	26.3	827	419.4
4 DP-5	0.914	1.118	0.102	5.232 4.983	2.702 3.065	2.535 3.039	3.105 2.423	85.78 37.88	85.38	708	17.19	25.78	581	360.6
5 DP-6	0.914	1.118	0.102	4.898	3.036	2.868	2.423	85.88	37.48 85.48	212 488	7.55 17.21	11.32	156	132.8
6 .DP~7	0.914	1.118	0.102	5.145	2.865	2.722	2.843	150	149.6	1081	30.11	25.81 45.17	361 859	304 592.6
7 DP-8	0.914	1.118	0.102	5.069	2.719	2.543	2.93	90	89.6	679	18.04	27.06	546	362.8
8 DP-8-1 9 EP-5	0.914	1.118	0.102	4.872	2.9	2.722	2.553	90	89.6	548	18.04	27.06	415	329
9 EP~5 Total	0.914	1.118	0.102	5.055	3.179	2.872	2.521	145	144.6	868	29.1	43.66	653	526.2
10(0)				· 				866		6380	174	261	5100	3440
1 BP-3	1.219	1.473	0.127	4.82	1.735	1.599	3.74	93,6	93.2	1166	27.46	46.55	020	100 -
2 BP-4	1.219	1.473	0.127	4.711	1.595	1.564	3.718	20	19.6	243	5.78	9.79	933 194	485.9
3 8P-5-1	1.219	1.473	0.127	4.711	1.573	1.564	3.729	6	5.6	70	1.65	2.8	56	101.8 29.2
4 CP-11 5 CP-12	1.219	1.473	0.127	5.03	2.531	2.403	3.15	87.49	87.09	837	25.66	43.5	619	402.7
6 DP~10	1.219	1.473 1.473	0.127	4.82	2.399	2.217	3.099	93.6	93.2	873	27.46	46.55	640	426.2
7 DP-9	1.219	1.473	0.127 0.127	4.778 4.932	2.284	2.101	3.172	90.6	90.2	876	26.58	45.05	650	419
8 EP-6	1.219	1.473	0.127	4.89	2.869	2.812	3.105 2.636	130.5 58	130.1 57.6	1223	38.33	64.98	898	595.6
Total						~.012	2.030	580	37.0	424 5720	16.97 170	28.77	280	236.7
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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Pipe calvert 1219 mm	Pay item No. (BOQ)	24-0504
Quantity Item	Installation drainage sure	Unit	W
Calculation Procedu			
Length o	f drainage pipe was conjuted	d for sipe au	lvert (2:9 mm.

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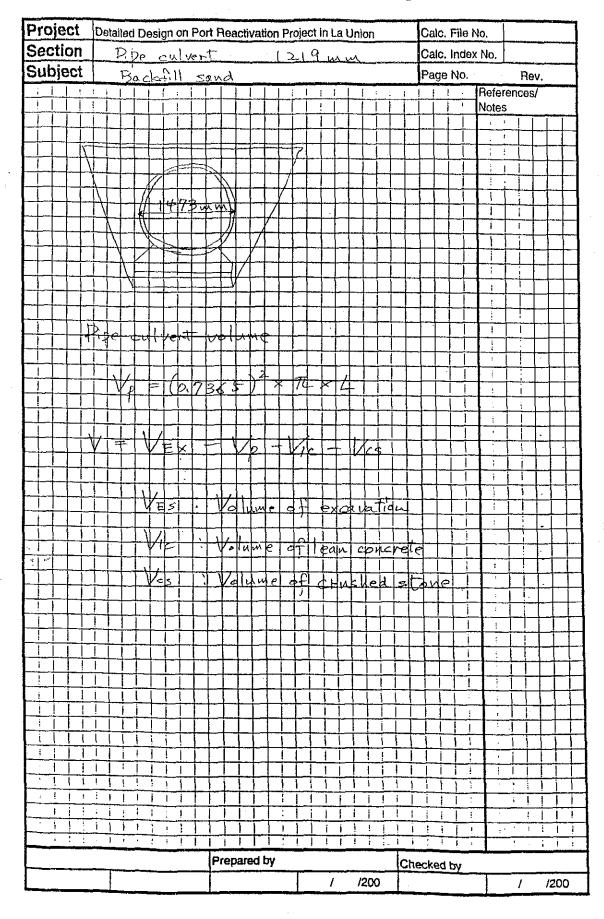
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1 ICP-1	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m3)	(m3)	(m3)	(m3)	(m2)
2 CP-2	0.457	0.584 0.584	0.064	5.55	3.599	3,545	2.312	17	16.6	67	1.46	1.47	60	48.1
3 OP-3	0.457	0.584	0.064 0.064	5.487 5.437	3.543 3.503	3.505 3.431	2.297 2,304	20 35	19.6 34.6	78 139	1,72 3,04	1.74	70	56.5
4 CP-4	0.457	0.584	0.064	5.537	3.429	3.391	2.461	20	19.6	88	1.72	3.06 1.74	124 80	100 59,7
5 CP-4-1	0.457	0.584	0.064	5.487	3.469	3,431	2.371	20	19,6	83	1.72	1.74	75	58
6 CP-5	0.457	0.584	0.064	5.637	3.389	3.257	2.648	70	69.6	352	6.1	6.16	321	225
7 CP-5-1 8 CP-7	0.457	0.584	0.064	5.637	3,405	3.391	2.573	8	7.6	37	0.67	0.68	34	24
9 CP-8-1	0.457 0.457	0.584	0.064	5,682	2.891	2.824	3.158	35	34.6	237	3.04	3.06	222	129,5
10 CP-8-1-1	0.457	0.584	0.064	5,507 5,55	2.955 3.019	2.824 2.957	2.951 2.896	68 30	67.6 29.6	411 175	5.93	5,98	381	239
11 CP-8-2	0.457	0.584	0.064	5.507	2.995	2.957	2.865	20	19.6	114	2.6 1.72	2,62 1,74	162 106	103.1 67.7
12 CP-8-2-1	0.457	0.584	0.064	5,555	3.021	2.997	2.88	10	9.6	56	0.85	0.85	52	33.3
13 CP-8-3	0.457	0.584	0.064	5.507	3,069	2.997	2.808	35	34.6	194	3.04	3.06	179	117.4
14 CP-8-4 15 DP-1	0.457	0.584	0.064	5.507	3.095	3.071	2.758	10	9.6	52	0.85	0.85	48	32.1
16 IDP-2	0.457 0.457	0.584 0.584	0.064	5,875 5,35	4.997 3.347	4.253 3.249	1.584 2.386	129.19 20.82	128.79	281	11.29	11.39	224	279,3
17 DP-3	0.457	0.584	0.064	5,27	3.245	3.226	2.368	24.13	20.42 23.73	87 100	1.79 2.08	1.81 2.1	78 90	60.7 70.1
18 DP-4-1	0.457	0.584	0.064	5,34	3.247	3.226	2.437	21.75	21.35	94	1.88	1.89	85	64.5
19 DP-7-1	0.457	0.584	0.064	5.17	2.883	2.868	2.628	18,25	17.85	90	1.57	1.58	82	57.4
20 DP-9-1	0.457	0.584	0.064	5.015	2.746	2.543	2.704	150	149.6	784	13.11	13.23	718	491.9
21 DP-9-2 22 EP-1	0.457 0.457	0.584	0.064	5.01	2.764	2.748	2.588	18.25	17.85	87	1.57	1.58	79	56.7
23 EP-2	0.457	0.584	0.064	6.015 5.78	4.097 3,997	4.003 3.596	2.299 2.317	20 81.47	19.6 81.07	79	1.72	1.74	71	56.6
24 EP-2-1	0.457	0.584	0.064	5.97	4.008	4.003	2.298	9.1	8.7	328 35	7.11 0.77	7.17	292	235.2
25 EP-4-3	0.457	0.584	0.064	5.785	4.887	4.176	1.587	142.69	142.29	312	12.47	0.77 12.58	32 249	25.1 309
26 EP-4-4	0.457	0.584	0.064	6.195	4.997	4.893	1.584	22	21.6	48	1.9	1.91	39	46.9
27 EP-5-2	0.457	0.584	0.064	5.22	3.211	3.205	2.346	9.1	8.7	36	0.77	0.77	33	25.5
Total	ļ							1,070		4450	92.5	93.3	3990	3080
1 AP-1	0.61	0.762	0.076	5.522	2.644	2.61	3.311	20	19.6	157	260	0.01	140	
2 AP-2	0.61	0.762	0.076	5.427	2.606	2.532	3.274	40	39.6	312	2.69 5.44	3.01 6.07	143 283	79.9 159.9
3 AP-3	0.61	0.762	0.076	5.332	2.528	2.484	3.242	26	25.6	198	3.52	3.92	179	102.6
4 AP-4	0.61	0.762	0.076	5.232	2.48	2.313	3.251	85.78	85.38	663	11.72	13.08	600	342.7
5 AP-5-1 6 AP-6-1	0.61 0.61	0.762	0.076	5.132	2.358	2.309	3.214	26	25.6	195	3.52	3.92	176	101.8
7 AP-6-2	0.61	0.762 0.762	0.076	4.928 4.928	2.182 2.207	2.138 2.186	3.184 3.147	26 12.65	25.6	192	3.52	3,92	173	101.1
8 AP-7-1	0.61	0.762	0.076	4.711	1.997	1.952	3.152	26	12.25 25.6	91 189	1.69 3.52	1.88 3.92	82 170	47,9
9 BP-1-1	0.61	0.762	0.076	5.332	2.129	2.085	3.641	26	25.6	241	3.52	3.92	222	100.2 112.8
10 BP-2-1	0.61	0.762	0.076	5.132	1.958	1.914	3.612	26	25.6	238	3.52	3.92	219	112
11 BP-3-1 12 CP-11-1	0.61	0.762	0.076	4.928	1.782	1.738	3.584	26	25.6	235	3.52	3.92	216	111.3
13 CP-12-1	0.61	0.762 0.762	0.076	5.132	2.579	2.535	2.991	26	25.6	173	3.52	3.92	154	96.1
14 CP-13-1	0.61	0.762	0.076	4.928 4.711	2.447 1.64	2.403 1.596	2.919 3.509	26 26	25.6 25.6	167	3.52	3.92	148	94.3
15 ICP-6	0.61	0.762	0.076	5.747	3.255	3.193	2.939	30	29.6	227 195	3.52 4.06	3.92 4.54	208 173	109,4 109,6
16 CP-8	0.61	0.762	0.076	5.42	2.82	2.754	3,049	35	34.6	242	4.75	5.3	216	131.9
17 CP-9 18 DP-4	0.61	0.762	0.076	5.332	2.75	2,706	3.02	26	25.6	176	3.52	3.92	157	96.9
19 IDP-5-1	0.61	0.762 0.762	0.076	5.34	3.225	3.066	2.61	160	159.6	862	21.9	24.44	743	538.2
20 EP-3	0.61	0.762	0.076	5.34 5.46	3.087 3.59	3.066 3.321	2.679 2.42	21.75 55.01	21.35 54.61	121	2.93	3.27	105	73.5
21 EP-4	0.61	0.762	0.076	5.275	3.314	3.184	2.442	27.3	26.9	261 131	7.5 3.69	8.37 4.12	221 111	173.8 86.2
22 EP-4-1	0.61	0.762	0.076	5.33	3.50€	3.499	2.243	9.1	8.7	37	1.2	1.34	31	26.2
23 EP-4-2	0,61	0.762	0.076	5.38	4.172	4.008	1.706	5.43	5.03	14	0.69	0.78	11	12.5
24 !EP-5-1 Total	0.61	0.762	0,076	5.22	3.201	3.184	2.443	15.3	14.9	73	2.05	2.29	62	47.8
1 Otal								810		5390	110	122	4810	2970
1 AP-5	0.762	0.94	0.089	5.03	2.309	2.138	3.265	87.49	87.09	732	14.74	19.7	637	366.3
2 BP-1	0.762	0.94	0.089	5.232	2.081	1.914	3.693	85.78	85.38	879	14.45	19.31	786	395.6
Total								174		1620	29.2	39.1	1430	762
1 AP-6	0.914	1.118	0.102	4.02	2 124	1050	2000	00.0	- 55.5					
2 BP-2	0.914	1.118	0.102	4.82 5.03	2.134 1.91	1.952	3.269 3.697	93.6 87.49	93.2 87.09	839	18.76	28.14	701	408.9
3 CP-10	0.914	1.118	0.102	5.232	2.702	2.535	3.105	85.78	85.38	956 708	17.53 17.19	26.3 25.78	827 581	419.4 360.6
4 DP-5	0.914	1.118	0.102	4.983	3.065	3.039	2.423	37.88	37.48	212	7.55	11.32	156	132.8
5 DP-6 6 DP-7	0.914	1.118	0.102	4.898	3.036	2.868	2.438	85.88	85.48	488	17.21	25.81	361	304
6 DP-7 7 DP-8	0.914	1.118	0.102	5.145	2.865	2.722	2.843	150	149.6	1081	30.11	45.17	859	592.6
8 DP-8-1	0.914	1.118	0.102	5.069 4.872	2.719	2.543 2.722	2.93 2.553	90 90	89.6	679	18.04	27.06	546	362.8
9 EP-5	0.914	1.118	0.102	5.055	3.179	2.872	2.521	145	89.6 144.6	548 868	18.04 29.1	27.06 43.66	415 653	329 528.2
Total								866	., 7.0	6380	174	43.00 261	5100	526.2 3440
1 .BP-3	1010	4 470											-100	3110
2 :BP-4	1.219 1.219	1.473	0.127	4.82	1,735	1.599	3.74	93.6	93.2	1166	27.46	46.55	933	485.9
3 BP-5-1	1.219	1.473	0.127 0.127	4.711	1.595 1.573	1.564 1.564	3.718 3.729	20	19.6	243	5.78	9.79	194	101.8
4 -CP-11	1.219	1.473	0.127	5.03	2.531	2.403	3.129	87.49	5.6 87.09	70 837	1.65	2.8	56	29.2
5 CP-12	1.219	1,473	0.127	4.82	2.399	2.217	3.099	93.6	93.2	873	25.66 27.46	43.5 46.55	619 640	402.7 426.2
6 DP-10	1.219	1.473	0.127	4.778	2.284	2.101	3.172	90.6	90.2	876	26.58	45.05	650	420.2
7 DP-9 8 EP-6	1.219	1.473	0.127	4.932	2.539	2.288	3.105	130.5	130.1	1223	38.33	64.98	898	595.6
Total	1.219	1.473	0.127	4.89	2.869	2.812	2,636	58	57.6	424	16.97	28.77	280	236.7
							· · · · · · · · · · · · · · · · · · ·	[580]		5720	170	288	4270	2700
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	QUANTITY (CALCULATION C	OVER SHEE	T	
Project		Port Reactivation Project on Province	Project Code	JC.	i N004/2N00
Work Section Title	Pro calvert	1219 mm	Pay Item No. (BC	00) 2 <i>†</i>	1-050501
Quantity Item	BASEFILL SAI	d	Unit		m ³
Calculation Procedu	re Applied				
		nd was compa			
Waras pro	t sulvert ve	lume, som c	rich r ve	lung	
crushed s	store volume		•		
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References. Calcula	tion Base and Revisio	<u>-</u> ons			
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NIPPON KOEI CÒ, LTD,

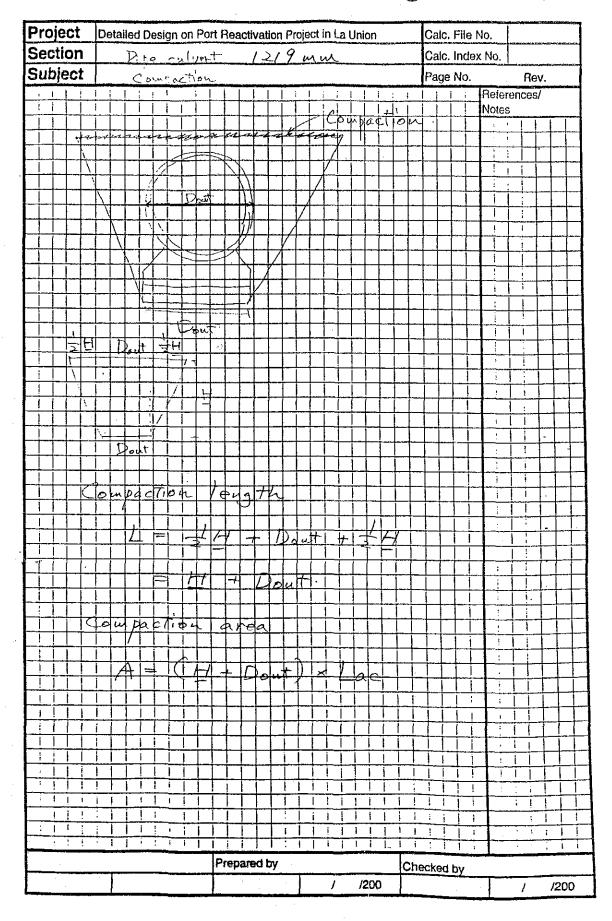


		D _n	<u> </u>		~~~	~~									
L		(m)	D _{out} (m)	(m)	<u>G</u> (m)	Y _{in} (m)	Y _{out}	(m)	L, (m)	Lac (m)	Vex (m3)	Vos (m3)	VIc (m3)	Vbf (m3)	Cmpct
1 CP-		0.457	0,584	0.064	5.55	3.599	3.545	2.312	17	16.6	67	1.46	1.47	(m3) +	(m2) 48.1
2 CP-		0.457	0,584	0.064	5.487	3.543	3.505	2.297	20	19.6	78	1.72	1.74	70	56.5
3 CP-		0.457	0,584	0.064	5.437	3.503	3.431	2.304	35	34.6	139	3.04	3.06	124	100
	-4-1	0.457 0.457	0.584 0.584	0.064	5.537 5.487	3.429 3.469	3.391 3.431	2.461	20	19.6	88	1.72	1.74	80	59.7
6 CP-		0.457	0.584	0.064	5.637	3.389	3.257	2.371 2.648	20 70	19.6 69.6	83 352	1.72	1.74	75	58
	-5-1	0.457	0.584	0.064	5.637	3.405	3.391	2.573		7.6	37	6.1 0.67	6.16 0.68	321 34	225
8 CP-	-7	0.457	0.584	0.064	5.682	2.891	2.824	3.158	35	34.6	237	3.04	3,06	222	24 129.5
	-8-1	0.457	0.584	0.064	5.507	2.955	2.824	2.951	68	67.6	411	5.93	5.98	381	239
	-8-1-1	0.457	0.584	0.064	5,55	3.019	2.957	2.896_	30	29.6	175	2.6	2.62	182	103.1
	-8-2 -8-2-1	0.457	0.584	0.054	5,507	2.995	2.957	2.865	20_	19,6	114	1.72	1.74	106	67.7
	-8-2-1 -8-3	0.457 0.457	0.584	0.064	5.555 5.507	3.021	2.997	2.88	10	9.6	56	0.85	0.85	52	33.3
	-8-4	0.457	0.584	0.064	5.507	3.095	2.997 3.071	2.808 2.758	35 10	34.6 9.6	194 52	3.04	3,06	179_	117.4
15 DP-		0.457	0.584	0.064	5.875	4.997	4.253	1.584	129.19	128.79	281	0.85 11,29	0.85 11.39	48 224	32.1 279.3
16 DP-		0.457	0.584	0.064	5.35	3.347	3.249	2.386	20.82	20.42	87	1.79	1.81	78	60.7
17 DP-		0.457	0.584	0.064	5.27	3.245	3.226	2.368	24.13	23.73	100	2.08	2.1	90	70.1
18 DP-		0.457	0.584	0.064	5.34	3.247	3.226	2.437	21.75	21.35	94	1,88	1.89	85	64.5
	-7-1 -9-1	0.457 0.457	0.584 0.584	0.064 0.064	5.17 5.015	2.883 2.746	2.868	2.628	18.25	17.85	90	1.57	1.58	82	57.4
21 OP-		0.457	0.584	0.064	5.01	2.764	2.543 2.748	2.704	150 18.25	149.6 17.85	784	13.11	13.23	718	491.9
22 EP-		0.457	0.584	0.064	6.015	4.097	4.003	2.299	20	19.6	87 79	1.57 1.72	<u>1.58</u>	79	56.7
23 EP-		0.457	0.584	0.064	5.78	3.997	3.596	2.317	81.47	81.07	328	7.11	7.17	71 292	56.6 235.2
24 EP-		0.457	0.584	0.064	5.97	4.008	4.003	2.298	9.1	8.7	35	0.77	0.77	32	25.1
25 EP-		0.457	0.584	0.064	5.785	4.887	4.176	1.587	142.69	142.29	312	12.47	12.58	249	309
26 EP- 27 EP-		0.457	0.584	0.064	6.195	4.997	4.893	1.584	22	21.6	48	1.9	1,91	39	46.9
Total		0.457	0,584	0.064	5.22	3,211	3.205	2.346	9.1	8.7	36	0.77	0.77	33	25.5
100	<u>~</u>								1,070		4450	92.5	93.3	3990	3080
1 AP-	-1	0,61	0.762	0.076	5.522	2.644	2.61	3.311	20	19.6	157	2.69	3.01	143	79.9
2 AP-		0,61	0.762	0.076	5.427	2.606	2.532	3.274	40	39.6	312	5.44	6.07	283	159.9
3 AP-		0.61	0.762	0.076	5.332	2,528	2.484	3.242	26	25.6	198	3.52	3,92	179	102.6
4 AP-		0.61	0.762	0.076	5.232	2.48	2.313	3.251	85.78	85.38	663	11.72	13.08	600	342.7
	-6-1	0.61 0.61	0.762	0.076	5.132 4.928	2.358	2.309	3.214	26	25.6	195	3.52	3.92	176	101.8
7 AP-		0.61	0.762	0.076	4.928	2.182 2.207	2.138 2.186	3.184 3.147	26 12.65	25.6 12.25	192 91	3.52	3.92	173	101.1
8 AP-		0.61	0.762	0.076	4.711	1.997	1.952	3.152	26	25.6	189	1.69 3.52	1.88 3.92	82 170	47.9
9 BP-		0.61	0.762	0.076	5.332	2.129	2.085	3.641	26	25.6	241	3.52	3.92	222	100.2 112.8
10 BP-		0.61	0.762	0.076	5.132	1.958	1.914	3.612	26	25.6	238	3.52	3.92	219	112
	3-1	0.61	0.762	0.076	4.928	1.782	1.738	3.584	26	25.6	235	3.52	3.92	216	111.3
12 CP-	12-1	0.61	0.762	0.076	5.132 4.928	2.579 2.447	2.535	2.991	26	25.6	173	3.52	3.92	154	96.1
14 CP-		0.61	0.762	0.076	4.711	1.64	2.403 1.596	2.919 3.509	26 26	25.6 25.6	167 227	3.52	3.92	148	94.3
15 CP-		0.61	0.762	0.076	5.747	3.255	3.193	2.939	30	29.6	195	3.52 4.06	3,92 4.54	208	109.4 109.6
16 CP-		. 0.61	0.762	0.076	5.42	2.82	2.754	3.049	35	34.6	242	4.75	5.3	216	131.9
17 CP-		9:61	0.762	0.076	5.332	2.75	2.706	3.02	26	25.6	176	3.52	3.92	157	96.9
18 IDP-		0.61	0.762	0.076	5.34	3.225	3.066	2.61	160	159.6	862	21.9	24.44	743	538.2
19 DP- 20 EP-		0.61 0.61	0.762	0.076	5.34 5.46	3.087	3.066	2.679	21.75	21.35	121	2.93	3.27	105	73.5
21 EP-		0.61	0.762	0.076	5.275	3.59 3.314	3.321 3.184	2.42	55.01 27.3	54.61 26.9	261	7.5	8.37	221	173.8
22 EP-		0.61	0.762	0.076	5.33	3.506	3.499	2.243	9.1	8.7	131 37	3.69 1.2	4.12 1.34	<u>111</u> 31	86.2 26.2
23 EP-	4-2	0,61	0.762	0.076	5.38	4.172	4.008	1.706	5.43	5.03	14	0.69	0.78	11	12.5
24 EP-		0.61	0.762	0.076	5.22	3.201	3.184	2.443	15.3	14.9	73	2.05	2.29	62	47.8
Tota	al								810		5390	110	122	4810	2970
1 AP-		0.762	0.04	0.000	5.00	0.000	0.100	0.005	07.40						
2 BP-		0.762	0.94	0.089	5.03 5.232	2.309	2.138 1.914	3.265 3.693	87.49 85.78	87.09 85.38	732 879	14.74	19.7	637	366.3
Tota			_	2.000	V.LUL.	۷.00۱	1.014	5.033	174	00.30	1620	14.45 29.2	19.31 39.1	786	395.6
		·									1020	23.2	J3.1	1430	762
1 AP-		0.914	1.118	0.102	4.82	2.134	1.952	3.269	93.6	93.2	839	18.76	28.14	701	408.9
2 BP-		0.914	1.118	0.102	5.03	1.91	1.739	3.697	87.49	87.09	956	17.53	26.3	827	419.4
3 CP-		0.914	1.118	0.102	5.232	2.702	2.535	3.105	85.78	85.38	708	17.19	25.78	581	360.6
5 DP-		0.914	1.118	0.102	4.983 4.898	3.065	3.039 2.868	2.423	37.88	37.48	212	7.55	11.32	156	132.8
6 DP		0.914	1.118	0.102	5.145	2.865	2.722	2.438 2.843	85.88 150	85.48 149.6	488 1081	17.21	25.81	361	304
7 DP-		0.914	1.118	0.102	5.069	2.719	2.543	2.93	90	89.6	679	30.11 18.04	45.17 27.06	859 546	592.6
8 DP-		0.914	1.118	0.102	4.872	2.9	2.722	2.553	90	89.6	548	18.04	27.06	546 415	362.8 329
9 EP-		0.914	1.118	0.102	5.055	3.179	2.872	2.521	145	144.6	868	29,1	43.66	653	526.2
Tota	al	:							866		6380	174	261	5100	3440
1 BP-	3	1.219	1.473	0.127	4.82	1.735	1.500	0.74			4455				
2 BP-		1.219	1.473	0.127	4.82	1.595	1.599 1.564	3.74 3.718	93.6	93.2	1166	27.46	46.55	933	485.9
3 .BP~	-5-1	1,219	1.473	0.127	4.711	1.573	1.564	3.729	20 6	19.6 5.6	243 70	5.78	9.79	194	101.8
4 CP-	-11	1.219	1.473	0.127	5.03	2.531	2.403	3.15	87.49	87.09	837	1.65 25.66	2.8	56	29.2
5 CP-		1.219	1.473	0.127	4.82	2.399	2.217	3.099	93.6	93.2	873	27.46	43.5 46.55	619 640	402.7 426.2
6 DP-		1.219	1.473	0.127	4.778	2.284	2.101	3.172	90.6	90.2	876	26.58	45.05	650	420.2
7 DP- 8 EP-		1.219	1.473	0.127	4.932	2.539	2.288	3.105	130.5	130.1	1223	38.33	64.98	898	595.6
Tota		1.219	1.473	0.127	4.89	2.869	2.812	2.636	58	57.6	424	16.97	28.77	280	236.7
1								· · · ·	580		5720	170	288	4270	

QUANTITY CALCULATION COVER SHEET											
Project Detailed Design on Port Reactivation Project In La Union Province Project Code JC1N004/2N001											
Work Section Title	Pipe culvert	1219mm	Pay Item No. (BOQ)	2H-050302							
Quantity Item	Compaction		Unit	w ²							
Calculation Procedu	· — · · — ·										
Avea of	compaction was	computed by	wealtiplying co	outoclience							
_	actual length	•	, ,	1							

See the Item of excavation and disposal of 85% min

Rev	Prepa	ared	No. of	Che	cked	Revi	ewed	Superseded
	by	Date	Pages	by	Date	by	Date	by Calc No.
0	Kaila Garia 🕍			Hr. Jnuma		Mr. Ando		
1								
2								
3								



Pipe Culvert樂計

	D _{in}	D _{out}	t	<u>G</u>	Yin	Yout	<u>Н</u>	L.	Lac	Vex	Vos	Vic	Vbf	Cmpot
	(m)	(m)	(m)	(m)	_(m)	(m)	(m)	(m)	(m)	(m3)	(m3)	(m3)	(m3)	(m2)
1 CP-1	0.457	0.584	0.064	5.55	3.599	3,545	2.312	17_	16.6	67	1.46	1.47	60	48.1
2 GP-2 3 GP-3	0.457 0.457	0.584 0.584	0.064	5.487 5.437	3.543 3.503	3.505 3.431	2,297 2,304	20 35	19,6 34.6	78 139	1.72 3.04	1.74	70	56.5
4 CP-4	0.457	0.584	0.064	5.537	3.429	3,391	2,304	20	19.6	88	1.72	3.06 1.74	124 80	100 59.7
5 CP-4-1	0.457	0.584	0.064	5.487	3.469	3.431	2.371	20	19.6	83	1.72	1.74	75	58
6 CP-5	0.457	0,584	0.064	5.637	3.389	3.257	2.648	70	69,6	352	6.1	6,16	321	225
7 CP-5-1	0.457	0.584	0.064	5.637	3.405	3.391	2.573	8	7.6	37	0.67	0.68	34	24
8 CP-7	0,457	0.584	0.064	5.682	2.891	2.824	3.158	35	34.6	237	3.04	3.06	222	129.5
9 CP-8-1	0.457	0,584	0.064	5.507	2.955	2.824	2.951	68	67.6	411	5.93	5,98	381	239
10 CP-8-1-1		0.584	0,064	5.55	3.019	2.957	2.896	30	29.6	175	2.6	2.62	162	103.1
11 CP-8-2 12 CP-8-2-1	0,457	0.584	0,064	5,507	2.995	2.957	2.865	20	19.6	114	1.72	1.74	106	67.7
12 CP-8-2-1 13 CP-8-3	0.457 0.457	0,584 0.584	0.064	5.555 5.507	3.021	2.997 2.997	2.88	10 35	9.6	56	0.85 3.04	0,85	52	33.3
14 CP-8-4	0.457	0.584	0.064	5.507	3.095	3.071	2.758	10	34.6 9.6	194 52	0.85	3.06 0.85	179 48	117.4 32.1
15 DP-1	0.457	0.584	0.064	5,875	4.997	4.253	1,584	129.19	128.79	281	11.29	11.39	224	279.3
16 DP-2	0.457	0.584	0.064	5.35	3.347	3.249	2.386	20.82	20.42	87	1.79	1.81	78	60.7
17 DP-3	0.457	0.584	0.064	5.27	3.245	3.226	2.368	24.13	23.73	100	2.08	2.1	90	70.1
18 DP-4-1	0.457	0.584	0.064	5.34	3.247	3.226	2.437	21.75	21.35	94	1.88	1.89	85	64.5
19 DP-7-1	0.457	0.584	0.064	5.17	2.883	2.868	2.628	18.25	17.85	90	1.57	1.58	82	57.4
20 DP-9-1	0.457	0.584	0.064	5.015	2.746	2.543	2.704	150	149.6	784	13.11	13.23	718	491.9
21 DP-9-2	0.457	0.584	0.064	5.01	2.764	2.748	2.588	18.25	17,85	87	1.57	1.58	79	56.7
22 EP-1 23 EP-2	0.457	0.584	0.064	6.015	4.097	4.003	2.299	20	19.6	79	1.72	1.74	71	56.6
23 EP-2 24 EP-2-1	0.457 0.457	0.584	0.064	5.78 5.97	3.997 4.008	3.596 4.003	2.317	81.47 9.1	81.07 8.7	328 35	7.11 0.77	7.17 0.77	292 32	235.2 25.1
25 EP-4-3	0.457	0.584	0.064	5.785	4.887	4.176	1.587	142.69	142,29	312	12.47	12.58	249	309
26 EP-4-4	0.457	0.584	0.064	6.195	4.997	4.893	1.584	22	21.6	48	1,9	1,91	39	46.9
27 EP-5-2	0.457	0.584	0.064	5.22	3.211	3.205	2.346	9.1	8.7	36	0.77	0.77	33	25.5
Total								1,070		4450	92.5	93.3	3990	3080
												·		
1 AP-1	0,61	0.762	0.076	5.522	2.644	2.61	3.311	20	19.6	157	2.69	3.01	143	79.9
2 AP-2	0.61	0.762	0.076	5.427	2.606	2.532	3.274	40	39.6	312	5.44	6.07	283	159.9
3 AP-3 4 AP-4	0.61	0,762	0.076	5.332	2.528	2.484	3.242	26	25.6	198	3.52	3.92	179	102.6
5 AP-5-1	0.61	0.762	0.076	5.132	2.48	2.313	3,251 3,214	85.78 26	85.38 25.6	663 195	11.72 3.52	13.08 3.92	600 176	342.7 101.8
6 AP-6-1	0.61	0.762	0.076	4.928	2.182	2.138	3.184	26	25.6	192	3.52	3.92	173	101.0
7 AP-6-2	0,61	0.762	0,076	4.928	2.207	2.186	3.147	12.65	12.25	91	1.69	1.88	82	47.9
8 AP-7-1	0.61	0.762	0.076	4.711	1.997	1.952	3.152	26	25.6	189	3.52	3.92	170	100.2
9 BP-1-1	0.61	0.762	0.076	5.332	2.129	2.085	3.641	26	25.6	241	3.52	3.92	222	112.8
10 BP~2~1	0.61	0.762	0.076	5.132	1.958	1.914	3.612	26	25.6	238	3.52	3.92	219	112
11 BP-3-1	0.61	0.762	0.076	4.928	1.782	1.738	3.584	26	25.6	235	3.52	3.92	216	111.3
12 CP-11-1	0.61	0.762	0.076	5.132	2.579	2.535	2.991	26	25.6	173	3.52	3.92	154	96.1
13 CP-12-1 14 CP-13-1	0.61	0.762	0.076	4.928	2.447	2.403	2.919	26	25.6	167	3.52	3.92	148	94.3
14 CP-13-1 15 CP-6	0.61	0.762 0.762	0.076	4.711 5.747	1.64 3.255	1.596 3.193	3.509 2.939	26 30	25.6 29.6	227	3.52 4.06	3.92	208	109.4
16 CP-8	0.61	0.762	0.076	5.42	2.82	2.754	3.049	35	34.6	195 242	4.75	4.54 5.3	<u>173</u> 216	109.6
17 CP-9	0.61	0.762	0.076	5.332	2.75	2.706	3.02	26	25.6	176	3.52	3.92	157	96.9
18 DP-4	0,61	0.762	0,076	5.34	3.225	3.066	2.61	160	159.6	862	21.9	24.44	743	538.2
19 DP-5-1	0.61	0.762	0.076	5.34	3.087	3.066	2.679	21.75	21.35	121	2.93	3.27	105	73.5
20 EP-3	0.61	0.762	0.076	5.46	3.59	3.321	2.42	55.01	54.61	261	7.5	8.37	221	173.8
21 EP-4	0.61	0.762	0.076	5.275	3.314	3.184	2.442	27.3	26.9	131	3.69	4.12	111	86.2
22 EP-4-1	0.61	0.762	0.076	5.33	3.506	3.499	2.243	9.1	8.7	37	1.2	1.34	31	26.2
23 EP-4-2 24 EP-5-1	0.61	0.762 0.762	0.076	5.38	4,172	4.008	1.706	5.43	5.03	14	0.69	0.78	11	12.5
Total	0.01	0.702	0,070	5.22	3.201	3.184	2.443	15.3 810	14.9	73 5390	2.05 110	2.29 122	62 4810	47.8 2970
								310		2330	110	164	7010	2370
1 AP~5	0.762	0.94	0.089	5.03	2.309	2.138	3.265	87.49	87.09	732	14.74	19.7	637	366.3
2 BP-1	0.762	0.94	0.089	5.232	2.081	1.914	3.693	85.78	85.38	879	14.45	19.31	786	395.6
Total								174		1620	29.2	39.1	1430	762
1 45 6		1 1 4 4 0	0.100	400	0.101	1.050	0.000				10.75			
1 AP-6 2 BP-2	0.914	1.118	0.102	4.82 5.03	2.134	1.952	3.269	93.6	93.2	839	18.76	28.14	701	408.9
3 CP-10	0.914	1.118	0.102	5.232	1.91 2.702	1.739 2.535	3.697 3.105	87.49 85.78	87.09 85.38	956 708	17.53 17.19	26,3 25,78	827 581	419.4 360.6
4 DP-5	0.914	1.118	0.102	4.983	3.065	3.039	2.423	37.88	37.48	212	7.55	11.32	156	132.8
5 DP-6	0.914	1.118	0.102	4.898	3.036	2.868	2.438	85.88	85.48	488	17.21	25.81	361	304
6 DP-7	0.914	1.118	0.102	5.145	2.865	2.722	2.843	150	149.6	1081	30.11	45.17	859	592.6
7 DP-8	0.914	1.118	0.102	5.069	2.719	2.543	2.93	90	89.6	679	18.04	27.06	548	362.8
8 DP-8-1	0.914	1.118	0.102	4.872	2.9	2.722	2.553	90	89.6	548	18.04	27.06	415	329
9 (EP-5	0.914	1.118	0.102	5.055	3.179	2.872	2.521	145	144.6	868	29.1	43.66	653	526.2
Total								866		6380	174	261	5100	3440
1 BP-3	1.219	1.473	0.127	4.82	1.735	1.599	3.74	93.6	93.2	1166	27.46	46.55	933	485.9
2 BP-4	1.219	1.473	0.127	4.711	1.595	1.564	3.718	20	19.6	243	5.78	9.79	194	485.9 101.8
3 BP-5-1	1.219	1.473	0.127	4.711	1.573	1.564	3.729	6	5.6	70	1.65	2.8	56	29.2
4 CP-11	1.219	1.473	0.127	5.03	2.531	2.403	3.15	87.49	87.09	837	25.66	43.5	619	402.7
5 CP-12	1.219	1.473	0.127	4.82	2.399	2.217	3.099	93.6	93.2	873	27.46	46.55	640	426.2
6 DP-10	1.219	1.473	0.127	4.778	2.284	2.101	3.172	90.6	90.2	876	26.58	45.05	650	419
7 DP-9	1,219	1.473	0.127	4.932	2.539	2.288	3.105	130,5	130.1	1223	38.33	64,98	898	595.6
8 EP-6	1.219	1.473	0.127	4.89	2.869	2.812	2.636	58	57.6	424	16.97	28.77	280	236.7
1Total	 							580		5720	170	288	4270	2700
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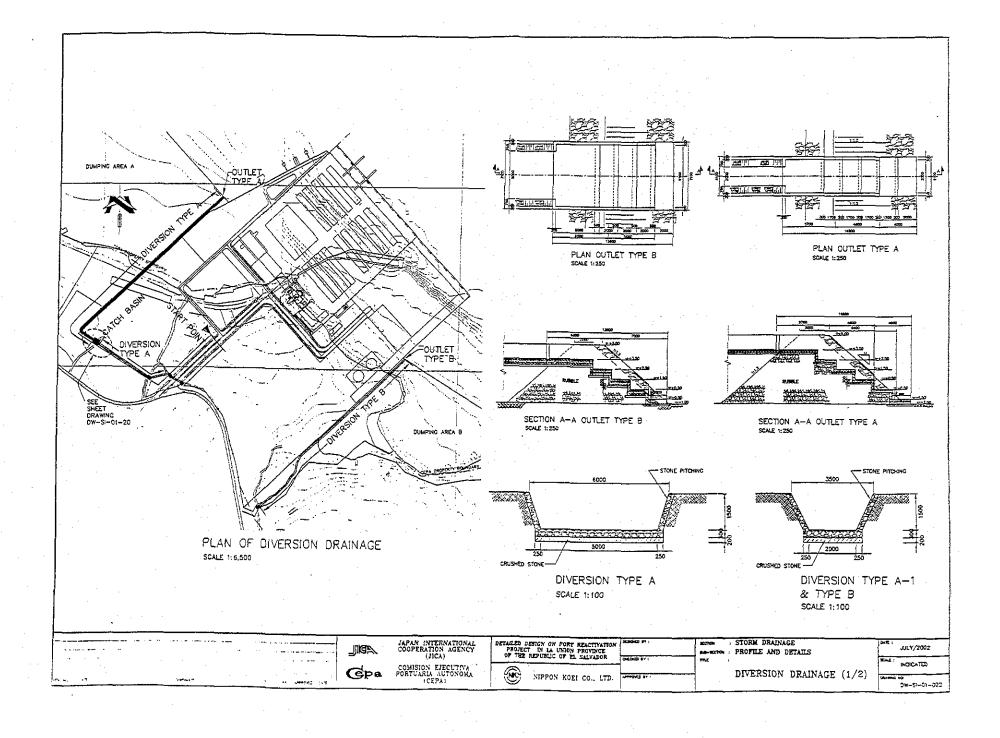
	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Diversion canal type A	Pay Item No. (BOQ)	2H-0601
Quantity Item	Excavation and Disposal	Unit	M ₃

Volume of excavation was computed by multiplying section area by length.

References. Calculation Base and Revisions

DW-S1-01-022

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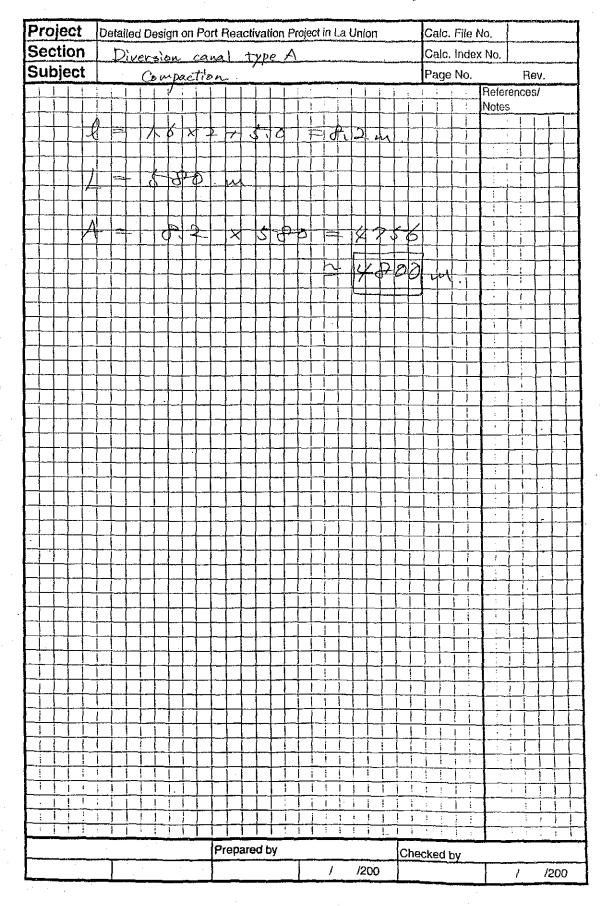


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	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Diversion canal type A	Pay Item No. (BOQ)	2H-060201
Quantity Item	Compaction	Unit	m'-
Calculation Procedu	re Applied		
Avod at	compaction was commented by		
Area of	compaction was computed by	y multiplying o	ection leigta
bu loust	-)		

References, Calculation Ba	ase and Revisions
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	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Diversion canal type A	Pay Item No. (BOQ)	24-060202
Quantity Item	Clay	Unit	m^3

Volume of clay was computed by multiplying compution area by thickness,

References, Calculation Base and Revisions

See the item of execution and disposal (2H-0601)

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	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Diversion canal type A	Pay Item No. (BOQ)	24-060203
Quantity Item	Rubble	បnit	m ³

Volume of rubble was computed by multiplying section area by length.

References, Calculation Base and Revisions

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	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Diversion canal type A	Pay Item No. (BOQ)	2H-060204
Quantity Item	Nasonny rement	Unit	M ₃ .

Volume of majorry cement was computed by multiplying section area by length.

References, Calculation Base and Revisions

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	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Outlet type A	Pay Item No. (BOQ)	2H-060302
Quantity Item	Compaction	Unit	W.Z

Airea of compaction for outlet type A was computed by multiplying compaction length by width.

References, Calculation Base and Revisions

See the item of excavation and disposal (2H-6601).

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Work Section Title	Outlet type A	Pay Item No. (BOQ)	2H-060303
Quantity Item	Clay	Unit	m ³
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See the item of excavation and disposal (2H-0601)

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	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Outlet type A	Pay Item No. (BOQ)	2H-060304
Quantity Item	Rubble	Unit	w ₃

Volume of rubble for outlet type A was computed by multiplying section area by width.

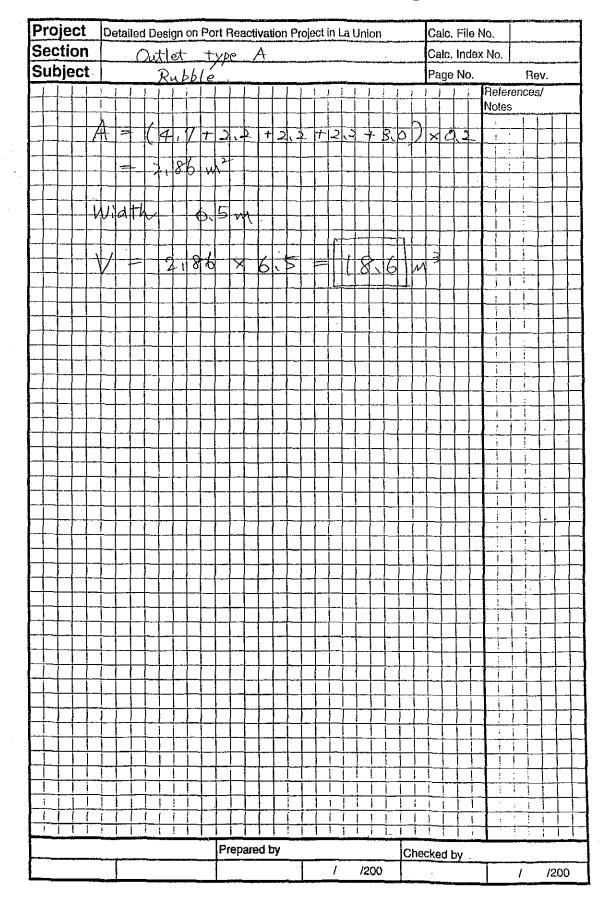
References, Calculation Base and Revisions

See the item of excavation and disposal (==-0601).

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	QUANTITY CALCULATION O	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Outlet type A	Pay Item No. (BOQ)	2H-066305
Quantity Item	Masonny cement	Unit	m³ ·

Volume of masonry cement for outlet type A was computed by multiplying section area by thickness.

References, Calculation Base and Revisions

See the item of excavation and disposal.
(24-0601)

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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	ection Title Canal Branch type / -: Pay Item No. (BOQ) 2H-0604.01		
Quantity Item			JC1N004/2N00

Volume of excustion was computed by multiplying section area by leveth.

References, Calculation Base and Revisions

See the item of excavation and disposal (2H - 0601)

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Quantity Item		Unit	2

Area of compaction was computed by multiplying section length

References, Calculation Base and Revisions

See the item of excavation and disposal.

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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Canal Branch type A -1	Pay Item No. (BOQ)	2H-060403
Quantity Item	Clay	Unit	м3 .

Volume of clay was computed by multiplying compaction area by thickness.

References, Calculation Base and Revisions

See the Item of excavation and disposal.

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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Canal Branch type A-1	Pay Item No. (BOQ)	2H-060404
Quantity Item	Rubble	Unit	M3

Volume of rubble was computed by multiplying section area by length.

References, Calculation Base and Revisions

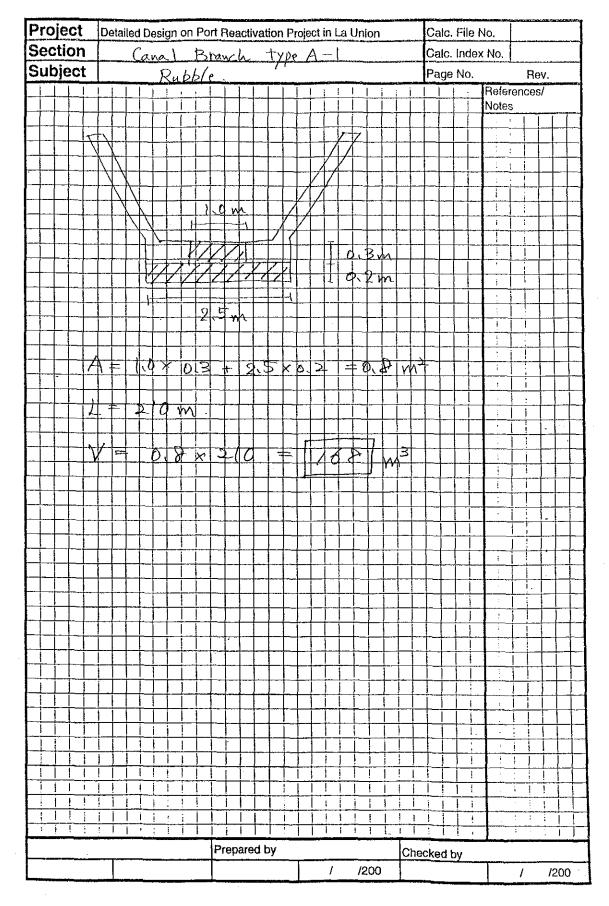
See the item of excavation and disposal.

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	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Canal Branch Type A-1	Pay Item No. (BOQ)	2H-060405
Quantity Item	Masonny cement	Unit	M3 .

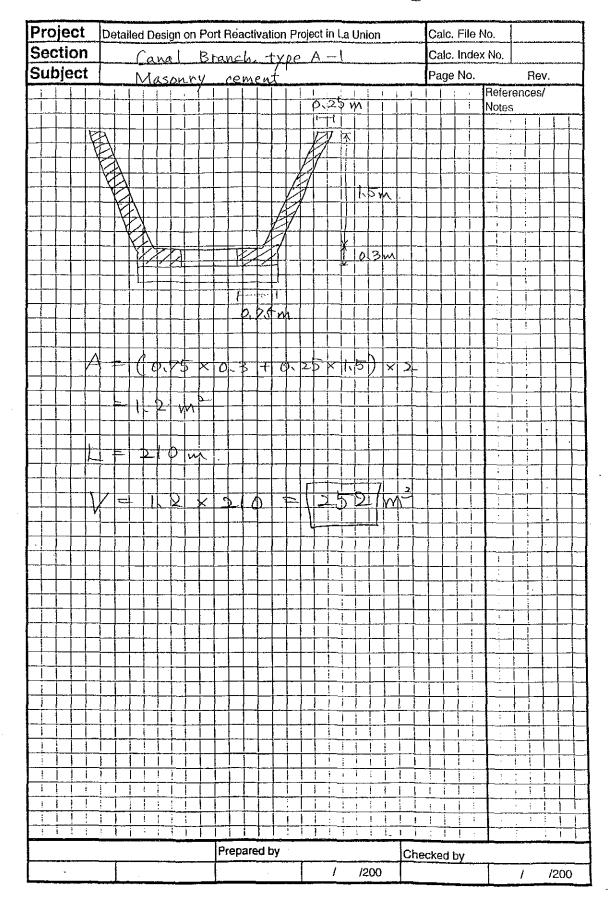
Volume of masonry cement was computed by multiplying section area by length.

References, Calculation Base and Revisions

See the item of excavation and disposal.

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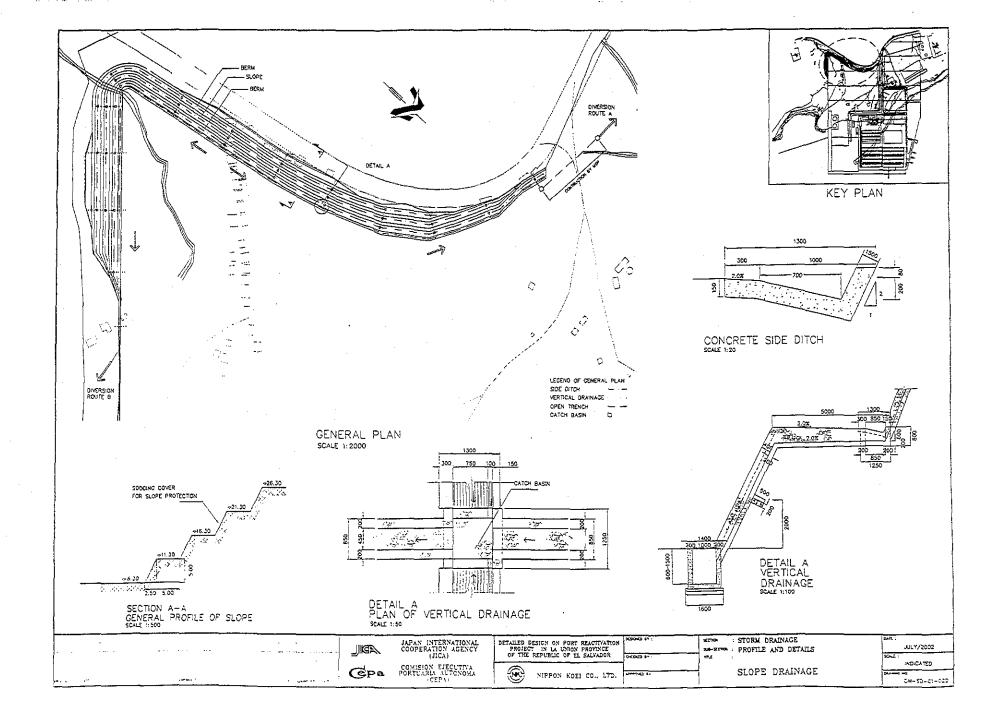
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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Utype ditch (A-2)	Pay Item No. (BOQ)	2H-060501
Quantity Item	Excavation and Disposal	Unit	. _М 3

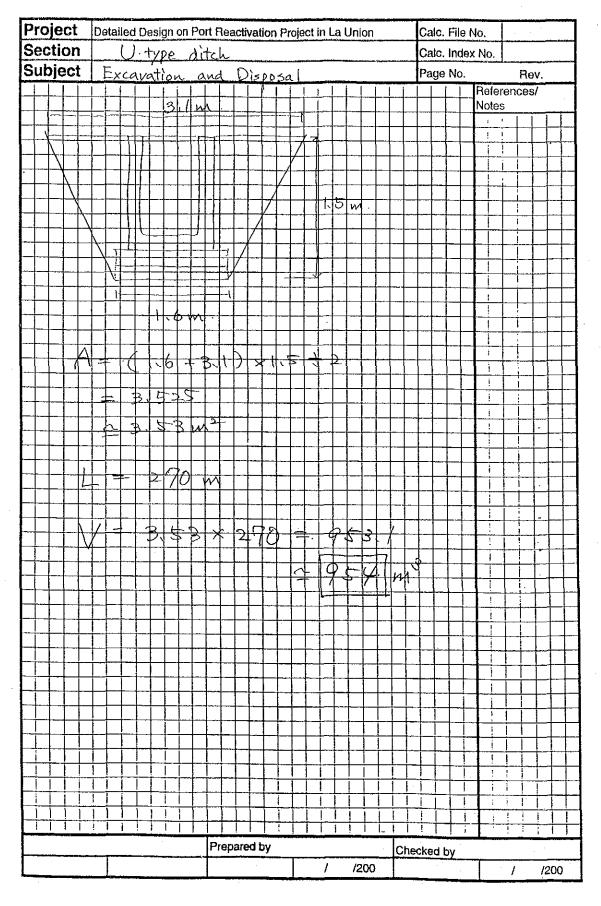
Volume of excaution for U type ditch was computed by multiplying sectional area by the length

References, Calculation Base and Revisions

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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Utype ditch (A-2)	Pay Item No. (BOQ)	2H-060502
Quantity Item	Compaction	Unit	W [±]

Area of compaction for U type ditch was computed by multiplying width by length.

References, Calculation Base and Revisions

See the item of excavation and disposal of Otypedick.

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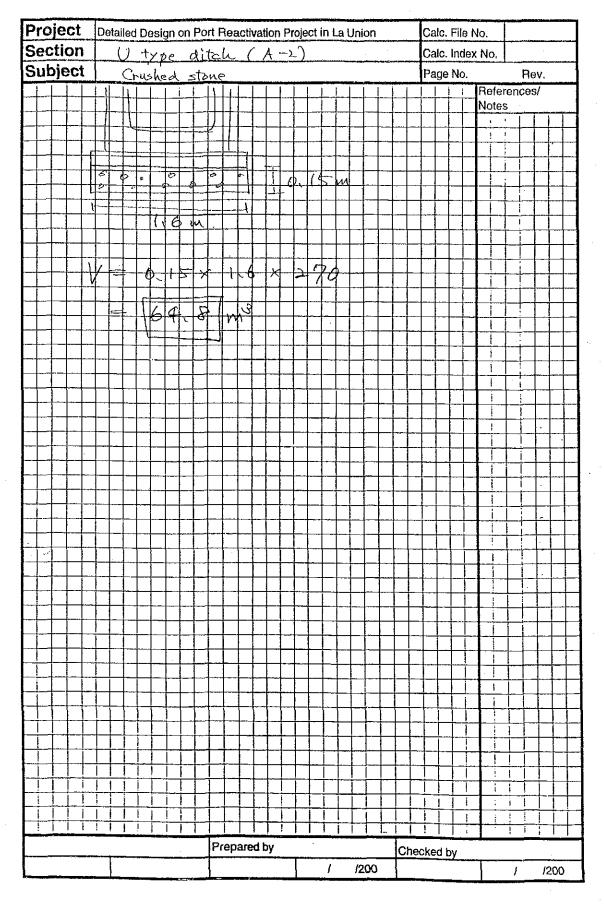
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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	U type altah (A-2)	Pay Item No. (BOQ)	2H-060503
Quantity Item	Crushed stone	Unit	м ³ .

Volume of crushed stone was computed by multiplying section area by the length.

References, Calculation Base and Revisions

See the item of excavation and disposal of 0 type ditch. (2H-0605)

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QUANTITY CALCULATION COVER SHEET									
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001						
Work Section Title	U type ditch (A-2)	Pay Item No. (BOQ)	2H - 060504						
Quantity Item	Lean concrete	Unit	₩ <u>3</u> .						
Calculation Procedu									
Volume o	I lean concrete was com	puted by wall	Atry Ing						
section	I area by the length.								

References, Calculation Base and Revisions

See the item of excavation and disposal of Dipolicial (2H-0605)

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QUANTITY CALCULATION COVER SHEET									
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001						
Work Section Title	U type ditch (A-2)	Pay Item No. (BOQ)	2H-060505						
Quantity Item	Form	Unit	m² ·						

Area of form for U type ditch was computed by multiplying sectional length by the length.

References, Calculation Base and Revisions

See the item of excavation and disposal of Otype ditch.

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	QUANTITY CALCULATION COVER SHEET										
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001								
Work Section Title	U type ditch (A-2)	Pay Item No. (BOQ)	2H-060506								
Quantity Item	Reinforcement	Unit	F9 .								

Weight of reinforcement was computed by multiplying unit weight by the length. (Excel)

References, Calculation Base and Revisions

See the item of excavation and disposal of Utype ditch. (2H-0605)

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No.	D	L (m)	Qty	W/bar (kg)	W (kg)	Remarks
Diversion	(per lm)	:				
A1	D13	3.20	5	3.184	15.92	
A2	D13	1.00	17	0.995	16.92	
				total/m	32.84	
			L=270m	total	8,870	
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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001										
Work Section Title	U type ditch (A-2)	Pay Item No. (BOQ)	2H-060507										
Quantity Item	Concrete	Unit	W ₃										

Concrete volume was computed by multiplying sectional area by the length.

References, Calculation Base and Revisions

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