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APPENDIX

Table A.I Washwater Consumption for Automobile

in Service Station No.I

Name of the Service Station DAO RACHAWAT

Meter No.00662/2514

(การจราจร)

Date	Time	Meter (m. ³)	Water Used in 3 hrs. (m. ³)	Water Used per day (m. ³)	Remark	
Sat., 8 th .	12.00 am.	1.27	-		* = Minimum	
Feb., 75	03.00 pm.	4.84	3.57		** = Maximum	
	06.00 pm.	10.04	5.20			
	09.00 pm.	14.82	4.78			
	12.00 pm.	19.35	4.53	18.08		
Sun., 9 th .	03.00 am.	23.18	3.83			
Feb., 75	06.00 am.	29.09	5.91			
	09.00 am.	33.39	4.30			
	12.00 am.	39.22	5.83			
	03.00 pm.	44.24	5.02			
	06.00 pm.	48.66	4.42			
	09.00 pm.	53.94	5.28			
	12.00 pm.	59.04	5.10	39.69		
	03.00 am.	63.46	4.42			
Mon., 10 th .	06.00 am.	68.37	4.91			
Feb., 75	09.00 am.	73.70	5.33			
	12.00 am.	79.79	6.09			
	03.00 pm.	85.72	5.93			
	06.00 pm.	91.92	6.20			
	09.00 pm.	96.89	4.97			
	12.00 pm.	101.28	4.39	42.24		
	Tue., 11 th .	03.00 am.	105.25	3.97		
	Feb., 75	06.00 am.	109.68	4.43		
09.00 am.		114.74	5.06			
12.00 am.		120.95	** 6.21			
03.00 pm.		126.28	5.33			
06.00 pm.		132.48	6.20			
09.00 pm.		137.64	5.16			
12.00 pm.		142.35	4.71	41.07		

Table A.I (Continued)

Date	Time	Meter (m. ³)	Water Used in 3 hrs. (m. ³)	Water Used per day (m. ³)	Remark
Wed., 12 th .	03.00 am.	145.46	3.11		
Feb., 75	06.00 am.	149.63	4.17		
	09.00 am.	154.48	4.85		
	12.00 am.	159.72	5.24		
	03.00 pm.	164.18	4.46		
	06.00 pm.	170.24	6.06		
	09.00 pm.	175.83	5.59		
	12.00 pm.	180.60	4.77	38.25	
Thu., 13 th .	03.00 am.	184.54	3.94		
Feb., 75	06.00 am.	189.07	4.53		
	09.00 am.	193.81	4.74		
	12.00 am.	198.82	5.01		
	03.00 pm.	203.29	4.47		
	06.00 pm.	208.34	5.05		
	09.00 pm.	212.72	4.38		
	12.00 pm.	216.20	3.48	35.60	
Fri., 14 th .	03.00 am.	220.13	3.93		
Feb., 75	06.00 am.	223.36	3.23		
	09.00 am.	227.33	3.97		
	12.00 am.	232.54	5.21		
	03.00 pm.	237.02	4.48		
	06.00 pm.	243.10	6.08		
	09.00 pm.	248.00	4.90		
	12.00 pm.	252.03	4.03	35.83	
Sat., 15 th .	03.00 am.	257.40	5.37		
Feb., 75	06.00 am.	260.57	3.17		
	09.00 am.	266.25	5.68		
	12.00 am.	272.44	6.19		
	03.00 pm.	277.13	4.69		
	06.00 pm.	283.30	6.17		
	09.00 pm.	287.33	4.03		
	12.00 pm.	290.65	3.32	38.62	

Table A.I (Continued)

Date	Time	Meter (m ³)	Water Used in 3 hrs. (m ³)	Water Used per day (m ³)	Remark
Sun., 16 th .	03.00 am.	294.84	4.19		
Feb., 75	06.00 am.	298.89	4.05		
	09.00 am.	303.85	4.96		
	12.00 am.	309.13	5.28		
	03.00 pm.	314.58	5.45		
	06.00 pm.	320.74	6.16		
	09.00 pm.	325.76	5.02		
	12.00 pm.	330.17	4.41	39.52	
	Mon., 17 th .	03.00 am.	334.24	4.07	
Feb., 75	06.00 am.	337.64	3.40		
	09.00 am.	342.34	4.70		
	12.00 am.	347.56	5.22		
	03.00 pm.	353.18	5.62		
	06.00 pm.	359.22	6.04		
	09.00 pm.	364.20	4.98		
	12.00 pm.	369.36	5.16	39.19	
	Tue., 18 th .	03.00 am.	374.21	4.85	
Feb., 75	06.00 am.	377.28	3.07		
	09.00 am.	382.43	5.15		
	12.00 am.	387.40	4.97		
	03.00 pm.	391.32	3.92		
	06.00 pm.	397.07	5.75		
	09.00 pm.	401.77	4.70		
	12.00 pm.	406.64	4.87	37.28	
	Wed., 19 th .	03.00 am.	410.06	3.42	
Feb., 75	06.00 am.	413.34	3.28		
	09.00 am.	418.58	5.24		
	12.00 am.	424.13	5.55		
	03.00 pm.	429.05	4.92		
	06.00 pm.	434.72	5.67		
	09.00 pm.	439.07	4.35		
	12.00 pm.	441.65	2.58	35.01	

Table A.I (Continued)

Date	Time	Meter (m ³)	Water Used in 3 hrs. (m ³)	Water Used per day (m ³)	Remark
Thu., 20 th .	03.00 am.	444.66	3.01		
Feb., 75	06.00 am.	448.26	3.60		
	09.00 am.	453.04	4.78		
	12.00 am.	456.11	3.07		
	03.00 pm.	461.55	5.44		
	06.00 pm.	466.10	4.55		
	09.00 pm.	471.25	5.15		
	12.00 pm.	473.25	2.00	*31.60	
	Fri., 21 st .	03.00 am.	479.06	5.91	
Feb., 75	06.00 am.	483.17	4.11		
	09.00 am.	487.74	4.57		
	12.00 am.	492.25	4.51		
	03.00 pm.	497.30	5.05		
	06.00 pm.	501.93	4.63		
	09.00 pm.	508.05	6.12		
	12.00 pm.	512.51	4.46	39.26	
	Sat., 22 nd .	03.00 am.	516.74	4.23	
Feb., 75	06.00 am.	519.54	2.80		
	09.00 am.	523.41	3.87		
	12.00 am.	527.33	3.92		
	03.00 pm.	532.61	5.28		
	06.00 pm.	538.59	5.98		
	09.00 pm.	541.26	2.67		
	12.00 pm.	546.38	5.12	33.87	
	Sun., 23 rd .	03.00 am.	550.58	4.20	
Feb., 75	06.00 am.	553.58	3.00		
	09.00 am.	558.44	4.86		
	12.00 am.	563.38	4.94		
	03.00 pm.	567.89	4.51		
	06.00 pm.	573.95	6.06		
	09.00 pm.	578.04	4.09		
	12.00 pm.	581.44	3.40	35.06	

Table A.I. (Continued)

Date	Time	Meter (m ³)	Water Used in 3 hrs. (m ³)	Water Used per day (m ³)	Remark
Mon., 24 th .	03.00 am.	584.08	2.64		
Feb., 75	06.00 am.	587.38	3.30		
	09.00 am.	592.16	4.78		
	12.00 am.	597.65	5.49		
	03.00 pm.	603.68	6.03		
	06.00 pm.	609.15	5.47		
	09.00 pm.	613.49	4.34		
	12.00 pm.	618.38	4.89	36.94	
Tue., 25 th .	03.00 am.	623.17	4.79		
Feb., 75	06.00 am.	628.00	4.83		
	09.00 am.	629.89	* 1.89		
	12.00 am.	635.77	5.88		
	03.00 pm.	639.14	3.37		
	06.00 pm.	644.25	5.11		
	09.00 pm.	649.04	4.79		
	12.00 pm.	653.58	4.54	35.20	
Wed., 26 th .	03.00 am.	657.27	3.69		
Feb., 75	06.00 am.	661.20	3.93		
	09.00 am.	666.03	4.83		
	12.00 am.	671.28	5.25		
	03.00 pm.	676.71	5.43		
	06.00 pm.	682.73	6.02		
	09.00 pm.	687.21	4.48		
	12.00 pm.	690.85	3.64	37.27	
Thu., 27 th .	03.00 am.	694.01	3.16		
Feb., 75	06.00 am.	698.92	4.91		
	09.00 am.	703.66	4.74		
	12.00 am.	708.90	5.24		
	03.00 pm.	714.39	5.49		
	06.00 pm.	720.49	6.10		
	09.00 pm.	725.35	4.86		
	12.00 pm.	729.58	4.23	38.73	

Date	Time	Meter (m ³)	Water Used in 3 hrs. (m ³)	Water Used per day (m ³)	Remark
Fri., 28 th .	03.00 am.	733.51	3.93		
Feb., 75	06.00 am.	738.19	4.68		
	09.00 am.	742.95	4.76		
	12.00 am.	748.36	5.41		
	03.00 pm.	753.73	5.37		
	06.00 pm.	759.66	5.93		
	09.00 pm.	764.49	4.83		
	12.00 pm.	769.30	4.81	39.72	
Sat., 1 st .	03.00 am.	773.28	3.98		
Mar., 75	06.00 am.	778.25	4.97		
	09.00 am.	782.81	4.56		
	12.00 am.	788.43	5.62		
	03.00 pm.	794.19	5.76		
	06.00 pm.	800.13	5.94		
	09.00 pm.	803.95	3.82		
	12.00 pm.	807.66	3.71	38.36	
Sun., 2 nd .	03.00 am.	811.55	3.89		
Mar., 75	06.00 am.	816.18	4.63		
	09.00 am.	821.01	4.83		
	12.00 am.	826.13	5.12		
	03.00 pm.	830.16	4.03		
	06.00 pm.	835.78	5.62		
	09.00 pm.	839.92	4.14		
	12.00 pm.	843.07	3.15	35.41	
Mon., 3 rd .	03.00 am.	847.05	3.98		
Mar., 75	06.00 am.	850.90	3.85		
	09.00 am.	855.32	4.42		
	12.00 am.	859.97	4.65		
	03.00 pm.	864.94	4.97		
	06.00 pm.	870.82	5.88		
	09.00 pm.	874.28	3.46		
	12.00 pm.	877.55	3.27	34.48	

Table A.I (Continued)

Date	Time	Meter (m. ³)	Water Used in 3 hrs. (m. ³)	Water Used per day (m. ³)	Remark
Tue., 4 th .	03.00 am.	881.33	3.78		
Mar., 75	06.00 am.	886.03	4.70		
	09.00 am.	891.30	5.27		
	12.00 am.	897.08	5.78		
	03.00 pm.	902.98	5.90		
	06.00 pm.	908.11	6.13		
	09.00 pm.	913.36	4.25		
	12.00 pm.	918.02	4.66	40.47	
	Wed., 5 th .	03.00 am.	921.63	3.61	
Mar., 75	06.00 am.	926.68	5.05		
	09.00 am.	932.07	5.39		
	12.00 am.	937.94	5.87		
	03.00 pm.	943.75	5.81		
	06.00 pm.	949.92	6.17		
	09.00 pm.	955.54	5.62		
	12.00 pm.	959.36	3.82	41.34	
	Thu., 6 th .	03.00 am.	962.77	3.41	
Mar., 75	06.00 am.	965.78	3.01		
	09.00 am.	970.69	4.91		
	12.00 am.	976.29	5.60		
	03.00 pm.	981.89	5.60		
	06.00 pm.	987.93	6.04		
	09.00 pm.	992.95	5.02		
	12.00 pm.	997.62	4.67	38.26	
	Fri., 7 th .	03.00 am.	1002.34	4.72	
Mar., 75	06.00 am.	1006.88	4.54		
	09.00 am.	1010.64	3.76		
	12.00 am.	1015.08	4.44		
	03.00 pm.	1020.82	5.74		
	06.00 pm.	1026.65	5.83		
	09.00 pm.	1031.49	4.84		
	12.00 pm.	1034.98	3.49	37.36	

Table A.I (Continued)

Date	Time	Meter (m ³)	Water Used in 3 hrs. (m ³)	Water Used per day (m ³)	Remark
Sat., 8 th .	03.00 am.	I040.19	5.21		
Mar., 75	06.00 am.	I044.07	3.88		
	09.00 am.	I048.05	3.98		
	12.00 am.	I051.52	3.47		
	03.00 pm.	I056.76	5.24		
	06.00 pm.	I062.76	6.00		
	09.00 pm.	I067.23	4.47		
	12.00 pm.	I071.51	4.28	36.53	
	Sun., 9 th .	03.00 am.	I075.88	4.37	
Mar., 75	06.00 am.	I080.76	4.88		
	09.00 am.	I086.14	5.38		
	12.00 am.	I091.87	5.73		
	03.00 pm.	I097.96	6.09		
	06.00 pm.	II04.08	6.12		
	09.00 pm.	II08.87	4.79		
	12.00 pm.	III3.48	4.61	41.97	
	Mon., 10 th .	03.00 am.	III7.82	4.34	
Mar., 75	06.00 am.	II22.75	4.93		
	09.00 am.	II27.95	5.20		
	12.00 am.	II33.36	5.41		
	03.00 pm.	II38.89	5.53		
	06.00 pm.	II44.85	5.96		
	09.00 pm.	II48.70	3.85		
	12.00 pm.	II51.92	3.22	38.44	
	Tue., 11 th .	03.00 am.	II55.86	3.94	
Mar., 75	06.00 am.	II59.73	3.87		
	09.00 am.	II64.57	4.84		
	12.00 am.	II69.91	5.34		
	03.00 pm.	II74.87	4.96		
	06.00 pm.	II80.12	5.25		
	09.00 pm.	II84.80	4.68		
	12.00 pm.	II87.04	2.24	35.12	



Table A. I (Continued)

Date	Time	Meter (m ³)	Water Used in 3 hrs. (m ³)	Water Used per day (m ³)	Remark
Wed., 12 th .	03.00 am.	1190.15	3.11		
Mar., 75	06.00 am.	1192.77	2.62		
	09.00 am.	1197.29	4.52		
	12.00 am.	1202.87	5.58		
	03.00 pm.	1208.33	5.46		
	06.00 pm.	1213.95	5.62		
	09.00 pm.	1217.83	3.88		
	12.00 pm.	1221.87	4.04	34.83	
Thu., 13 th .	03.00 am.	1226.34	4.47		
Mar., 75	06.00 am.	1233.31	3.97		
	09.00 am.	1234.17	3.86		
	12.00 am.	1239.07	4.90		
	03.00 pm.	1242.77	3.70		
	06.00 pm.	1248.29	5.52		
	09.00 pm.	1252.90	4.61		
	12.00 pm.	1256.89	3.99	35.02	
Fri., 14 th .	03.00 am.	1260.79	3.90		
Mar., 75	06.00 am.	1264.92	4.13		
	09.00 am.	1270.85	5.93		
	12.00 am.	1275.92	5.07		
	03.00 pm.	1281.26	5.34		
	06.00 pm.	1287.36	6.10		
	09.00 pm.	1292.80	5.44		
	12.00 pm.	1297.12	4.32	40.23	
Sat., 15 th .	03.00 am.	1302.36	5.24		
Mar., 75	06.00 am.	1306.15	3.79		
	09.00 am.	1310.76	4.61		
	12.00 am.	1316.18	5.42		
	03.00 pm.	1321.92	5.74		
	06.00 pm.	1326.57	4.65		
	09.00 pm.	1331.85	5.28		
	12.00 pm.	1335.36	3.51	38.24	

Table A.I (Continued)

Date	Time	Meter (m ³)	Water Used in 3 hrs. (m ³)	Water Used per day (m ³)	Remark
Sun., 16 th .	03.00 am.	1340.06	4.70		
Mar., 75	06.00 am.	1344.67	4.61		
	09.00 am.	1349.86	5.19		
	12.00 am.	1355.88	6.02		
	03.00 pm.	1361.87	5.99		
	06.00 pm.	1366.59	4.72		
	09.00 pm.	1370.54	3.95		
	12.00 pm.	1374.82	4.28	39.46	
	Mon., 17 th .	03.00 am.	1380.18	5.36	
Mar., 75	06.00 am.	1385.26	5.08		
	09.00 am.	1390.26	5.00		
	12.00 am.	1395.44	5.18		
	03.00 pm.	1401.29	5.85		
	06.00 pm.	1407.37	6.08		
	09.00 pm.	1413.02	5.65		
	12.00 pm.	1417.68	4.66	42.86	
	Tue., 18 th .	03.00 am.	1420.72	3.04	
Mar., 75	06.00 am.	1425.26	4.54		
	09.00 am.	1430.46	5.20		
	12.00 am.	1433.58	3.12		
	03.00 pm.	1437.28	3.70		
	06.00 pm.	1433.03	5.75		
	09.00 pm.	1446.91	3.88		
	12.00 pm.	1451.31	4.40	33.63	
	Wed., 19 th .	03.00 am.	1456.31	5.00	
Mar., 75	06.00 am.	1461.74	5.43		
	09.00 am.	1466.70	4.96		
	12.00 am.	1471.73	5.03		
	03.00 pm.	1477.34	5.61		
	06.00 pm.	1483.27	5.93		
	09.00 pm.	1487.75	4.48		
	12.00 pm.	1492.59	4.84	41.28	

Table A.I (Continued)

Date	Time	Meter (m ³)	Water Used in 3 hrs. (m ³)	Water Used per day (m ³)	Remark
Thu., 20 th .	03.00 am.	I496.92	4.33		
Mar., 75	06.00 am.	I501.04	4.12		
	09.00 am.	I507.06	6.02		
	12.00 am.	I512.78	5.72		
	03.00 pm.	I518.15	5.37		
	06.00 pm.	I524.27	6.12		
	09.00 pm.	I528.13	3.86		
	12.00 pm.	I532.01	3.88	39.42	
	Fri., 21 st .	03.00 am.	I536.17	4.16	
Mar., 75	06.00 am.	I541.69	5.52		
	09.00 am.	I544.84	3.15		
	12.00 am.	I548.98	4.14		
	03.00 pm.	I553.98	5.00		
	06.00 pm.	I559.50	5.52		
	09.00 pm.	I563.65	4.15		
	12.00 pm.	I565.99	2.34	33.98	
	Sat., 22 nd .	03.00 am.	I569.16	3.17	
Mar., 75	06.00 am.	I573.15	3.99		
	09.00 am.	I579.05	5.90		
	12.00 am.	I584.32	5.27		
	03.00 pm.	I590.41	6.09		
	06.00 pm.	I596.52	6.11		
	09.00 pm.	I601.42	4.90		
	12.00 pm.	I606.54	5.12	40.55	
	Sun., 23 rd .	03.00 am.	I610.65	4.11	
Mar., 75	06.00 am.	I615.15	4.50		
	09.00 am.	I620.46	5.31		
	12.00 am.	I625.68	5.22		
	03.00 pm.	I629.92	4.24		
	06.00 pm.	I635.65	5.73		
	09.00 pm.	I639.94	4.29		
	12.00 pm.	I642.63	2.69	36.09	

Date	Time	Meter (m ³)	Water Used in 3 hrs (m ³)	Water Used per day (m ³)	Remark
Mon., 24 th .	03.00 am.	I645.72	3.09		
Mar., 75	06.00 am.	I648.92	3.20		
	09.00 am.	I651.64	2.72		
	12.00 am.	I656.46	4.82		
	03.00 pm.	I660.55	4.09		
	06.00 pm.	I666.48	5.93		
	09.00 pm.	I671.85	5.37		
	12.00 pm.	I675.99	4.14	33.36	
	Tue., 25 th .	03.00 am.	I680.21	4.22	
Mar., 75	06.00 am.	I684.86	4.65		
	09.00 am.	I690.24	5.38		
	12.00 am.	I695.93.	5.69		
	03.00 pm.	I699.52	4.09		
	06.00 pm.	I705.74	5.72		
	09.00 pm.	I710.18	4.44		
	12.00 pm.	I715.65	5.47	39.66	
	Wed., 26 th .	03.00 am.	I720.14	4.49	
Mar., 75	06.00 am.	I725.88	5.74		
	09.00 am.	I731.35	5.47		
	12.00 am.	I737.54	6.19		
	03.00 pm.	I743.53	5.99		
	06.00 pm.	I748.65	5.12		
	09.00 pm.	I752.81	4.16		
	12.00 pm.	I757.64	4.83	41.99	
	Thu., 27 th .	03.00 am.	I762.61	4.97	
Mar., 75	06.00 am.	I767.75	5.14		
	09.00 am.	I772.86	5.11		
	12.00 am.	I778.43	5.57		
	03.00 pm.	I783.82	5.39		
	06.00 pm.	I789.33	5.51		
	09.00 pm.	I793.35	4.02		
	12.00 pm.	I797.09	3.74	39.45	

Table A.I (Continued)

Date	Time	Meter (m ³)	Water Used in 3 hrs. (m ³)	Water Used per day (m ³)	Remark
Fri., 28 th .	03.00 am.	I802.38	5.29		
Mar., 75	06.00 am.	I804.94	2.56		
	09.00 am.	I809.69	4.75		
	12.00 am.	I814.30	4.61		
	03.00 pm.	I820.31	6.01		
	06.00 pm.	I826.01	5.70		
	09.00 pm.	I830.31	4.30		
	12.00 pm.	I834.70	4.39	37.61	
Sat., 29 th .	03.00 am.	I839.22	4.52		
Mar., 75	06.00 am.	I843.59	4.37		
	09.00 am.	I848.54	4.95		
	12.00 am.	I853.26	4.72		
	03.00 pm.	I858.29	5.03		
	06.00 pm.	I864.28	5.99		
	09.00 pm.	I868.60	4.32		
	12.00 pm.	I872.34	3.74	37.64	
Sun., 30 th .	03.00 am.	I876.28	3.94		
Mar., 75	06.00 am.	I880.42	4.14		
	09.00 am.	I886.12	5.70		
	12.00 am.	I890.42	4.30		
	03.00 pm.	I895.45	5.03		
	06.00 pm.	I901.26	5.81		
	09.00 pm.	I904.55	3.29		
	12.00 pm.	I909.28	4.73	36.94	
Mon., 31 st .	03.00 am.	I913.37	4.09		
Mar., 75	06.00 am.	I916.96	3.59		
	09.00 am.	I921.63	4.67		
	12.00 am.	I927.16	5.53		
	03.00 pm.	I932.98	5.82		
	06.00 pm.	I939.11	6.13		
	09.00 pm.	I944.23	5.12		
	12.00 pm.	I948.10	3.87	38.82	

Table A.I (Continued)

Date	Time	Meter (m. ³)	Water Used in 3 hrs. (m. ³)	Water Used per day (m. ³)	Remark
Tue., 1 st .	03.00 am.	1951.56	3.46		
Apr., 75	06.00 am	1956.06	4.50		
	09.00 am.	1960.88	4.82		
	12.00 am.	1966.06	5.18		
	03.00 pm,	1971.87	5.81		
	06.00 pm,	1978.06	6.19		
	09.00 pm,	1982.98	4.92		
	12.00 pm.	1988.22	5.24	40.12	
	Wed., 2 nd .	03.00 am.	1993.00	4.78	
Apr., 75	06.00 am.	1998.03	5.03		
	09.00 am.	2003.53	5.50		
	12.00 am.	2009.24	5.71		
	03.00 pm.	2015.32	6.08		
	06.00 pm.	2021.50	6.18		
	09.00 pm.	2027.44	5.94		
	12.00 pm.	2032.44	5.00	** 44.22	
Thu., 3 rd .	03.00 am.	2036.32	3.88		
Apr., 75	06.00 am.	2040.97	4.65		
	09.00 am.	2045.52	4.55		
	12.00 am.	2050.79	5.27		
	03.00 pm.	2056.13	5.34		
	06.00 pm.	2062.25	6.12		
	09.00 pm.	2067.04	4.79		
	12.00 pm.	2072.00	4.96	39.56	
	Fri., 4 th .	03.00 am.	2076.63	4.63	
Apr., 75	06.00 am.	2081.71	5.08		
	09.00 am.	2087.42	5.71		
	12.00 am.	2093.44	6.02		
	03.00 pm.	2099.56	6.12		
	06.00 pm.	2105.47	5.91		
	09.00 pm.	2111.23	5.76		
	12.00 pm.	2115.40	4.17	43.40	

Date	Time	Meter (m. ³)	Water Used in 3 hrs. (m. ³)	Water Used per day (m. ³)	Remark
Sat., 5 th . Apr., 75	03.00 am.	2120.32	4.92		<u>=====</u> Total water used in 59 days = 2256.16m. ³ Average water used = 38.24 m ³ /day
	06.00 am.	2125.57	5.25		
	09.00 am.	2130.44	4.87		
	12.00 am.	2135.60	5.16		
	03.00 pm.	2141.38	5.78		
	06.00 pm.	2147.52	6.14		
	09.00 pm.	2152.28	4.76		
	12.00 pm.	2156.62	4.34	41.22	
Sun., 6 th . Apr., 75	03.00 am.	2161.04	4.42		
	06.00 am.	2165.87	4.83		
	09.00 am.	2170.88	5.01		
	12.00 am.	2176.06	5.18		
	03.00 pm.	2181.75	5.69		
	06.00 pm.	2187.78	6.03		
	09.00 pm.	2192.49	4.71		
	12.00 pm.	2196.95	4.46	40.33	
Mon., 7 th . Apr., 75	03.00 am.	2201.15	4.20		
	06.00 am.	2206.06	4.91		
	09.00 am.	2211.86	5.80		
	12.00 am.	2217.92	6.06		
	03.00 pm.	2223.64	5.72		
	06.00 pm.	2229.66	6.02		
	09.00 pm.	2234.20	4.54		
	12.00 pm.	2238.06	3.86	41.11	
Tue., 8 th . Apr., 75	03.00 am.	2242.49	4.43		
	06.00 am.	2246.27	3.78		
	09.00 am.	2250.85	4.58		
	12.00 am.	2255.62	4.77		
	03.00 pm.	2261.13	5.51		
	06.00 pm.	2267.12	5.99		
	09.00 pm.	2271.37	4.25		
	12.00 pm.	2275.51	4.14	37.45	

Table A.2 Washwater Consumption for Automobile in the Service Station No.2

Name of the Service Station P. SAPAN LUENG Meter No. OI643/2514 (1)
(พ.สะพานหลวง) OI666/2514 (2)

Date	Time	Meter 1		Meter 2		Total	Total	Remark
		Meter (m. ³)	Water Used in 6 hrs. (m. ³)	Meter (m. ³)	Water Used in 6 hrs. (m. ³)	Water Used in 6 hrs. (m. ³)	Water Used per day (m. ³)	
Sat., 8 th .	03.00 pm.	3387.61	-	2943.86	-	-		
Feb., 75	09.00 pm.	3398.32	10.71	2953.49	9.63	20.34	20.34	* = Minimum
Sun., 9 th .	03.00 am.	3407.41	9.09	2961.78	8.29	17.38		**= Maximum
Feb., 75	09.00 am.	3417.65	10.24	2970.14	8.36	18.60		
	03.00 pm.	3428.59	10.94	2980.42	10.28	21.22		
	09.00 pm.	3439.49	10.90	2990.54	10.12	21.02	78.22	
Mon., 10 th .	03.00 am.	3448.16	8.67	2999.08	8.54	17.21		
Feb., 75	09.00 am.	3458.00	9.84	3008.04	8.96	18.80		
	03.00 pm.	3468.87	10.87	3019.42	11.38	22.25		
	09.00 pm.	3479.61	10.74	3030.67	11.25	21.99	80.25	
Tue., 11 th .	03.00 am.	3488.27	8.66	3038.48	7.81	16.47		
Feb., 75	09.00 am.	3498.69	10.42	3047.16	8.68	19.10		
	03.00 pm.	3510.47	11.78	3056.72	9.56	21.34		
	09.00 pm.	3521.03	10.56	3067.43	10.71	21.27	78.18	
Wed., 12 th .	03.00 am.	3530.62	9.59	3075.91	8.48	18.07		
Feb., 75	09.00 am.	3541.41	10.79	3084.51	8.60	19.39		
	03.00 pm.	3553.05	11.64	3095.33	10.82	22.46		
	09.00 pm.	3564.13	11.08	3106.60	11.27	22.35	82.27	

Table A.2 (Continued)

Date	Time	Meter 1		Meter 2		Total	Total	Remark
		Meter (m ³)	Water Used in 6 hrs. (m ³)	Meter (m ³)	Water Used in 6 hrs. (m ³)	Water Used in 6 hrs. (m ³)	Water Used per day (m ³)	
Thu., 13 th .	03.00 am.	3572.46	8.33	3113.63	7.03	15.36		
Feb., 75	09.00 am.	3581.66	9.20	3122.01	8.38	17.58		
	03.00 pm.	3592.65	10.99	3131.33	9.32	20.31		
	09.00 pm.	3603.76	11.11	3139.98	8.65	19.76	73.01	
	Fri., 14 th .	03.00 am.	3611.78	8.02	3148.23	8.25	16.27	
Feb., 75	09.00 am.	3622.31	10.53	3156.82	8.59	19.12		
	03.00 pm.	3634.10	11.79	3167.22	10.40	22.19		
	09.00 pm.	3646.22	12.12	3177.24	10.02	22.14	79.72	
	Sat., 15 th .	03.00 am.	3654.43	8.21	3185.77	8.53	16.74	
Feb., 75	09.00 am.	3664.32	9.89	3195.08	9.31	19.20		
	03.00 pm.	3674.68	10.36	3204.54	9.46	19.82		
	09.00 pm.	3685.69	11.01	3214.61	10.07	21.08	76.84	
	Sun., 16 th .	03.00 am.	3693.22	7.53	3219.62	5.01	12.54	
Feb., 75	09.00 am.	3701.30	8.08	3228.00	8.38	16.46		
	03.00 pm.	3711.56	10.26	3236.51	8.51	18.77		
	09.00 pm.	3722.63	11.07	3246.13	9.62	20.69	68.46	

Table A. 2 (Continued)

Date	Time	Meter 1		Meter 2		Total Water Used in 6 hrs. (m ³)	Total Water Used per day (m ³)	Remark
		Meter (m ³)	Water Used in 6 hrs. (m ³)	Meter (m ³)	Water Used in 6 hrs. (m ³)			
Mon., 17 th . Feb., 75	03.00 am.	3731.44	8.81	3254.73	8.60	17.41		
	09.00 am.	3741.68	10.24	3263.74	9.01	19.25		
	03.00 pm.	3754.50	11.82	3274.37	10.63	22.45		
	09.00 pm.	3765.67	11.17	3285.41	11.04	22.21	81.32	
Tue., 18 th . Feb., 75	03.00 am.	3773.06	7.39	3293.35	7.94	15.33		
	09.00 am.	3782.71	9.65	3302.24	8.89	18.54		
	03.00 pm.	3792.71	10.00	3312.97	10.73	20.73		
	09.00 pm.	3803.67	10.96	3323.42	10.45	21.41	76.01	
Wed., 19 th . Feb., 75	03.00 am.	3811.55	7.88	3330.84	7.42	15.30		
	09.00 am.	3820.57	9.02	3340.09	9.25	18.27		
	03.00 pm.	3830.05	9.48	3349.79	9.70	19.18		
	09.00 pm.	3841.40	11.35	3359.22	9.43	20.78	73.53	
Thu., 20 th . Feb., 75	03.00 am.	3850.01	8.61	3367.18	7.96	16.57		
	09.00 am.	3859.90	9.89	3374.38	7.20	17.09		
	03.00 pm.	3870.91	11.01	3384.33	9.95	20.96		
	09.00 pm.	3880.60	9.69	3395.31	10.98	20.67	75.29	

Table A.2 (Continued)

Date	Time	Meter 1		Meter 2		Total Water Used in 6 hrs. (m ³)	Total Water Used per day (m ³)	Remark
		Meter (m ³)	Water Used in 6 hrs. (m.)	Meter (m ³)	Water Used in 6 hrs. (m ³)			
Fri., 21 st .	03.00 am.	3889.34	8.74	3404.00	8.69	17.43		
Feb., 75	09.00 am.	3898.78	9.44	3412.85	8.85	18.29		
	03.00 pm.	3909.56	10.78	3423.73	10.88	21.66		
	09.00 pm.	3920.22	10.66	3433.93	10.20	20.86	78.24	
	Sat., 22 nd .	03.00 am.	3928.32	8.10	3441.16	7.23	15.33	
Feb., 75	09.00 am.	3937.47	9.15	3450.56	9.40	18.55		
	03.00 pm.	3948.85	11.38	3460.09	9.53	20.91		
	09.00 pm.	3958.61	9.76	3469.72	9.63	19.39	74.18	
	Sun., 23 rd .	03.00 am.	3965.94	7.33	3476.55	6.83	14.16	
Feb., 75	09.00 am.	3975.21	9.27	3485.41	8.86	18.13		
	03.00 pm.	3985.89	10.68	3494.78	9.37	20.05		
	09.00 pm.	3996.39	10.50	3504.69	9.91	20.41	72.75	
	Mon., 24 th .	03.00 am.	4005.68	9.29	3513.52	8.83	18.12	
Feb., 75	09.00 am.	4015.96	10.28	3523.42	9.90	20.18		
	03.00 pm.	4027.27	11.31	3534.65	11.23	22.54		
	09.00 pm.	4038.18	10.91	3546.01	11.36	22.27	**83.11	

Table A. 2 (Continued)

Date	Time	Meter 1		Meter 2		Total Water Used in 6 hrs. (m ³)	Total Water Used per day (m ³)	Remark
		Meter (m ³)	Water Used in 6 hrs. (m ³)	Meter (m ³)	Water Used in 6 hrs. (m ³)			
Tue., 25 th .	03.00 am.	4046.39	8.21	3553.26	7.25	15.46		
Feb., 75	09.00 am.	4054.69	8.30	3561.53	8.27	16.57		
	03.00 pm.	4064.87	10.18	3571.15	9.62	19.80		
	09.00 pm.	4075.54	10.67	3580.49	9.34	20.01	71.84	
Wed., 26 th .	03.00 am.	4084.28	8.74	3588.75	8.26	17.00		
Feb., 75	09.00 am.	4093.88	9.60	3597.46	8.71	18.31		
	03.00 pm.	4104.35	10.47	3606.55	9.09	19.56		
	09.00 pm.	4115.54	11.19	3616.68	10.13	21.32	76.19	
Thu., 27 th .	03.00 am.	4124.47	8.93	3624.18	7.50	16.43		
Feb., 75	09.00 am.	4134.17	9.70	3632.04	7.86	17.56		
	03.00 pm.	4145.02	10.85	3641.49	9.45	20.30		
	09.00 pm.	4155.23	10.21	3651.64	10.15	20.35	74.64	
Fri., 28 th .	03.00 am.	4164.10	8.87	3660.04	8.40	17.27		
Feb., 75	09.00 am.	4173.44	9.34	3668.95	8.91	18.25		
	03.00 pm.	4185.12	11.68	3679.65	10.70	22.38		
	09.00 pm.	4196.49	11.37	3689.96	10.31	21.68	79.58	

Table A.2 (Continued)

Date	Time	Meter 1		Meter 2		Total Water Used in 6 hrs. (m ³)	Total Water Used per day (m ³)	Remark
		Meter (m ³)	Water Used in 6 hrs. (m ³)	Meter (m ³)	Water Used in 6 hrs. (m ³)			
Sat., 1 st .	03.00 am.	4204.17	7.68	3696.46	6.50	14.18		
Mar., 75	09.00 am.	4213.49	9.32	3705.13	8.67	17.99		
	03.00 pm.	4223.69	10.20	3714.27	9.14	19.34		
	09.00 pm.	4234.75	11.06	3723.94	9.67	20.73	72.24	
	Sun., 2 nd .	03.00 am.	4240.91	6.16	3729.23	5.29	* 11.45	
Mar., 75	09.00 am.	4249.15	8.24	3735.93	6.70	14.94		
	03.00 pm.	4258.23	9.08	3744.84	8.91	17.99		
	09.00 pm.	4268.38	10.15	3756.14	11.30	21.45	* 65.83	
	Mon., 3 rd .	03.00 am.	4277.09	8.71	3763.71	7.57	16.28	
Mar., 75	09.00 am.	4285.80	10.25	3772.73	9.02	19.27		
	03.00 pm.	4287.34	10.96	3782.78	10.05	21.01		
	09.00 pm.	4296.87	9.53	3794.18	11.40	20.93	77.49	
	Tue., 4 th .	03.00 am.	4304.43	7.56	3801.41	7.23	14.79	
Mar., 75	09.00 am.	4313.21	8.78	3809.03	7.62	16.40		
	03.00 pm.	4323.82	10.61	3819.61	10.58	21.19		
	09.00 pm.	4335.31	11.49	3830.01	10.40	21.89	74.27	

Table A.2 (Continued)

Date	Time	Meter 1		Meter 2		Total Water Used in 6 hrs. (m ³)	Total Water Used per day (m ³)	Remark
		Meter (m ³)	Water Used in 6 hrs. (m ³)	Meter (m ³)	Water Used in 6 hrs. (m ³)			
Wed., 5 th .	03.00 am.	4342.21	6.90	3835.74	5.73	12.63		
Mar., 75	09.00 am.	4350.13	7.92	3844.17	8.43	16.35		
	03.00 pm.	4361.08	10.95	3855.25	11.08	22.03		
	09.00 pm.	4370.89	9.81	3865.35	10.10	19.91	70.92	
	Thu., 6 th .	03.00 am.	4379.11	8.22	3871.73	6.38	14.60	
Mar., 75	09.00 am.	4389.17	10.06	3880.24	8.51	18.57		
	03.00 pm.	4399.58	10.41	3890.54	10.30	20.71		
	09.00 pm.	4411.12	11.54	3900.47	9.93	21.47	75.35	
	Fri., 7 th .	03.00 am.	4420.45	9.33	3909.43	8.96	18.29	
Mar., 75	09.00 am.	4431.35	10.90	3918.89	9.46	20.36		
	03.00 pm.	4442.74	11.39	3929.08	10.19	21.58		
	09.00 pm.	4453.36	10.62	3940.80	11.72	22.34	82.57	
	Sat., 8 th .	03.00 am.	4461.90	8.54	3948.97	8.17	16.71	
Mar., 75	09.00 am.	4470.90	9.00	3957.84	8.87	17.87		
	03.00 pm.	4481.12	10.22	3966.44	8.60	18.82		
	09.00 pm.	4491.98	10.86	3975.82	9.38	20.24	73.64	

Table A.2 (Continued)

Date	Time	Meter 1		Meter 2		Total Water Used in 6 hrs. (m ³)	Total Water Used per day (m ³)	Remark
		Meter (m ³)	Water Used in 6 hrs. (m ³)	Meter (m ³)	Water Used in 6 hrs. (m ³)			
Sun., 9 th .	03.00 am.	4499.21	7.23	3982.57	6.75	13.98		
Mar., 75	09.00 am.	4508.08	8.87	3990.78	8.21	17.08		
	03.00 pm.	4518.08	10.00	3999.82	9.04	19.04		
	09.00 pm.	4528.02	9.94	4009.69	9.87	19.81	69.91	
Mon., 10 th .	03.00 am.	4536.47	8.45	4017.53	7.84	16.29		
Mar., 75	09.00 am.	4546.44	9.97	4026.89	9.36	19.33		
	03.00 pm.	4558.12	11.68	4037.23	10.34	22.02		
	09.00 pm.	4568.48	10.36	4047.32	10.09	20.45	78.09	
Tue., 11 th .	03.00 am.	4575.46	6.98	4054.36	7.04	14.02		
Mar., 75	09.00 am.	4583.65	8.19	4063.13	8.77	16.96		
	03.00 pm.	4594.46	10.81	4071.99	8.86	19.67		
	09.00 pm.	4604.82	10.36	4082.73	10.74	21.10	71.75	
Wed., 12 th .	03.00 am.	4612.75	7.93	4089.87	7.14	15.07		
Mar., 75	09.00 am.	4621.81	9.06	4098.22	8.35	17.41		
.	03.00 pm.	4632.97	11.16	4108.51	10.29	21.45		
	09.00 pm.	4642.18	9.21	4117.94	9.43	18.64	72.57	

Table A. 2 (Continued)

Date	Time	Meter 1		Meter 2		Total Water Used in 6 hrs. (m ³)	Total Water Used per day (m ³)	Remark
		Meter (m ³)	Water Used in 6 hrs. (m ³)	Meter (m ³)	Water Used in 6 hrs. (m ³)			
Thu., 13 th .	03.00 am.	4649.53	7.35	4125.68	7.74	15.09		
Mar., 75	09.00 am.	4659.29	9.76	4133.85	8.17	17.93		
	03.00 pm.	4670.18	10.89	4143.99	10.14	21.03		
	09.00 pm.	4681.65	11.47	4153.20	9.21	20.68	74.73	
Fri., 14 th .	03.00 am.	4690.30	8.65	4161.69	8.49	17.14		
Mar., 75	09.00 am.	4700.62	10.32	4170.69	9.00	19.32		
	03.00 pm.	4712.45	11.83	4180.75	10.06	21.89		
	09.00 pm.	4723.48	11.03	4189.98	9.23	20.26	78.61	
Sat., 15 th .	03.00 am.	4731.12	7.64	4196.91	6.93	14.57		
Mar., 75	09.00 am.	4739.71	8.59	4205.07	8.16	16.75		
	03.00 pm.	4750.37	10.66	4215.32	10.25	20.91		
	09.00 pm.	4759.38	9.01	4224.56	9.24	18.25	70.48	
Sun., 16 th .	03.00 am.	4767.44	8.06	4232.50	7.94	16.00		
Mar., 75	09.00 am.	4776.33	8.89	4241.56	9.06	17.95		
	03.00 pm.	4787.27	10.94	4251.48	9.92	20.86		
	09.00 pm.	4797.02	9.75	4260.86	9.38	19.13	73.94	

Table A. 2 (Continued)

Date	Time	Meter 1		Meter 2		Total	Total	Remarks
		Meter (m ³)	Water Used in 6 hrs. (m ³)	Meter (m ³)	Water Used in 6 hrs. (m ³)	Water Used in 6 hrs. (m ³)	Water Used per day . (m ³)	
Mon., 17 th .	03.00 am.	4804.94	7.92	4268.25	7.39	15.31		
Mar., 75	09.00 am.	4814.37	9.43	4276.78	8.53	17.96		
	03.00 pm.	4824.75	10.38	4287.38	10.60	20.98		
	09.00 pm.	4836.02	11.27	4297.12	9.74	21.01	75.26	
Tue., 18 th .	03.00 am.	4844.15	8.13	4304.87	7.75	15.88		
Mar., 75	09.00 am.	4853.12	8.97	4314.25	9.38	18.35		
	03.00 pm.	4864.58	11.46	4324.52	10.27	21.73		
	09.00 pm.	4875.19	10.61	4334.12	9.60	20.21	76.17	
Wed., 19 th .	03.00 am.	4883.87	8.68	4342.88	8.76	17.44		
Mar., 75	09.00 am.	4893.62	9.75	4352.75	9.87	19.62		
	03.00 pm.	4905.21	11.59	4363.19	10.44	22.03		
	09.00 pm.	4916.59	11.38	4374.11	10.92	22.30	81.39	
Thu., 20 th .	03.00 am.	4924.06	7.47	4380.37	6.26	13.73		
Mar., 75	09.00 am.	4933.01	8.95	4388.20	7.83	16.78		
	03.00 pm.	4942.11	9.10	4398.17	9.97	19.07		
	09.00 pm.	4951.69	9.58	4406.93	8.76	18.34	67.92	

Table A.2 (Continued)

Date	Time	Meter 1		Meter 2		Total Water Used in 6 hrs. (m ³)	Total Water Used per day (m ³)	Remark
		Meter (m ³)	Water Used in 6 hrs. (m ³)	Meter (m ³)	Water Used in 6 hrs. (m ³)			
Fri., 21 st .	03.00 am.	4959.85	8.16	4414.83	7.90	16.06		
Mar., 75	09.00 am.	4969.07	9.22	4423.08	8.25	17.47		
	03.00 pm.	4979.13	10.06	4433.02	9.94	20.00		
	09.00 pm.	4989.64	10.51	4442.49	9.47	19.98	73.51	
	Sat., 22 nd .	03.00 am.	4998.03	8.39	4451.23	8.74	17.13	
Mar., 75	09.00 am.	5008.34	10.31	4461.61	10.38	20.69		
	03.00 pm.	5019.61	11.27	4472.47	10.86	22.13		
	09.00 pm.	5030.04	10.43	4481.55	9.08	19.51	79.46	
	Sun., 23 rd .	03.00 am.	5037.03	6.99	4488.05	6.50	13.49	
Mar., 75	09.00 am.	5045.58	8.55	4496.01	7.96	16.51		
	03.00 pm.	5055.70	10.12	4506.09	10.08	20.20		
	09.00 pm.	5066.32	10.62	4515.55	9.46	20.08	70.28	
	Mon., 24 th .	03.00 am.	5074.50	8.18	4522.80	7.25	15.43	
Mar., 75	09.00 am.	5083.94	9.44	4530.86	8.06	17.50		
	03.00 pm.	5095.09	11.15	4541.18	10.32	21.47		
	09.00 pm.	5106.01	10.92	4550.56	9.38	20.30	74.70	

Table A.2 (Continued)

Date	Time	Meter 1		Meter 2		Total	Total	Remark
		Meter (m ³)	Water Used in 6 hrs. (m ³)	Meter (m ³)	Water Used in 6 hrs. (m ³)	Water Used in 6 hrs. (m ³)	Water Used per day (m ³)	
Tue., 25 th .	03.00 am.	5115.82	9.81	4559.05	8.49	18.30		
Mar., 75	09.00 am.	5126.04	10.22	4568.79	9.74	19.96		
	03.00 pm.	5136.63	10.59	4580.09	11.30	21.89		
	09.00 pm.	5148.37	11.74	4590.26	10.17	21.91	82.06	
	Wed., 26 th .	03.00 am.	5157.10	8.73	4598.18	7.92	16.65	
Mar., 75	09.00 am.	5166.71	9.61	4607.03	8.85	18.46		
	03.00 pm.	5177.78	11.07	4617.24	10.21	21.28		
	09.00 pm.	5189.34	11.56	4626.92	9.68	21.24	77.63	
	Thu., 27 th .	03.00 am.	5197.19	7.85	4634.25	7.33	15.18	
Mar., 75	09.00 am.	5206.31	9.12	4644.03	9.78	18.90		
	03.00 pm.	5217.21	10.90	4654.27	10.24	21.14		
	09.00 pm.	5227.68	10.47	4663.92	9.65	20.12	75.34	
	Fri., 28 th .	03.00 am.	5236.61	8.93	4672.22	8.30	17.23	
Mar., 75	09.00 am.	5246.09	9.48	4681.39	9.17	18.65		
	03.00 pm.	5257.61	10.62	4692.72	11.33	21.95		
	09.00 pm.	5267.91	11.20	4702.93	10.21	21.41	79.24	

Table A.2 (Continued)

Date	Time	Meter 1		Meter 2		Total Water Used in 6 hrs. (m ³)	Total Water Used per day (m ³)	Remark
		Meter (m ³)	Water Used in 6 hrs. (m ³)	Meter (m ³)	Water Used in 6 hrs. (m ³)			
Sat., 29 th .	03.00 am.	5275.78	7.87	4710.98	8.05	15.92		
Mar., 75	09.00 am.	5285.04	9.26	4719.50	8.52	17.78		
	03.00 pm.	5296.17	11.13	4730.22	10.72	21.85		
	09.00 pm.	5306.71	10.54	4740.56	10.34	20.88	76.43	
	Sun., 30 th .	03.00 am.	5314.13	7.42	4747.85	7.29	14.71	
Mar., 75	09.00 am.	5322.51	8.38	4756.37	8.52	16.90		
	03.00 pm.	5333.77	11.26	4766.02	9.65	20.91		
	09.00 pm.	5343.65	9.88	4775.97	9.95	19.83	72.35	
	Mon., 31 st .	03.00 am.	5352.91	9.26	4784.40	8.43	17.69	
Mar., 75	09.00 am.	5362.92	10.01	4794.01	9.61	19.62		
	03.00 pm.	5372.95	10.03	4805.40	11.39	21.42		
	09.00 pm.	5384.87	11.92	4815.53	10.13	22.05	80.78	
	Tue., 1 st .	03.00 am.	5393.52	8.65	4823.29	7.76	16.41	
Apr., 75	09.00 am.	5402.85	9.33	4831.68	8.39	17.72		
	03.00 pm.	5414.03	11.18	4842.59	10.91	22.09	**	
	09.00 pm.	5424.33	10.30	4853.89	11.30	21.60	77.82	

Table A.2 (Continued)

Date	Time	Meter 1		Meter 2		Total	Total	Remark
		Meter (m ³)	Water Used in 6 hrs. (m ³)	Meter (m ³)	Water Used in 6 hrs. (m ³)	Water Used in 6 hrs (m ³)	Water Used per day (m ³)	
Wed., 2 nd .	03.00 am.	5431.09	6.76	4859.78	5.89	12.65		
Apr., 75	09.00 am.	5440.06	8.97	4867.70	7.92	16.89		
	03.00 pm.	5450.45	10.39	4878.32	10.62	21.01		
	09.00 pm.	5460.24	9.79	4887.87	9.55	19.34	69.89	
	Thu., 3 rd .	03.00 am.	5466.62	6.38	4894.92	7.05	13.43	
Apr., 75	09.00 am.	5475.57	8.95	4902.96	8.04	16.99		
	03.00 pm.	5485.50	9.93	4913.60	10.64	20.57		
	09.00 pm.	5496.33	10.83	4923.29	9.69	20.52	71.51	
	Fri., 4 th .	03.00 am.	5504.25	7.92	4930.59	7.30	15.22	
Apr., 75	09.00 am.	5513.26	9.01	4940.12	9.53	18.54		
	03.00 pm.	5524.90	11.64	4950.06	9.94	21.58		
	09.00 pm.	5534.59	9.69	4960.99	10.93	20.62	75.96	
	Sat., 5 th .	03.00 am.	5542.57	7.98	4967.73	6.74	14.72	
Apr., 75	09.00 am.	5551.78	9.21	4975.59	7.86	17.07		
	03.00 pm.	5563.17	11.39	4986.39	10.80	22.19		
	09.00 pm.	5573.61	10.44	4995.42	9.03	19.47	73.45	

Table A.2 (Continued)

Date	Time	Meter 1		Meter 2		Total	Total	Remark
		Meter (m. ³)	Water Used in 6 hrs. (m. ³)	Meter (m. ³)	Water Used in 6 hrs. (m. ³)	Water Used in 6 hrs. (m. ³)	Water Used per day (m. ³)	
Sun., 6 th .	03.00 am.	5580.29	6.68	5002.54	7.12	13.80		
Apr., 75	09.00 am.	5588.45	8.16	5010.99	8.45	16.61		
	03.00 pm.	5598.10	9.65	5021.84	10.85	20.50		
	09.00 pm.	5608.81	10.71	5030.91	9.07	19.78	70.69	
	Mon., 7 th .	03.00 am.	5617.65	8.84	5038.98	8.07	16.91	
Apr., 75	09.00 am.	5627.61	9.96	5049.37	10.39	20.35		
	03.00 pm.	5639.12	11.51	5060.20	10.83	22.34		
	09.00 pm.	5650.09	10.97	5071.46	11.26	22.23	81.83	
	Tue., 8 th .	03.00 am.	5657.32	7.23	5079.05	7.59	14.82	
Apr., 75	09.00 am.	5666.58	9.26	5088.13	9.08	18.34		
	03.00 pm.	5677.11	10.53	5097.56	9.43	19.96		
	09.00 pm.	5688.11	11.00	5108.40	10.84	21.84	74.96	
	Wed., 9 th .	03.00 am.	5697.27	9.16	5116.60	8.20	17.36	
Apr., 75	09.00 am.	5707.71	10.44	5125.92	9.32	19.76		
	03.00 pm.	5718.74	11.03	5136.33	10.41	21.44		
	09.00 pm.	5729.97	11.23	5145.68	9.35	20.58	79.14	
	<p>Note. Total Water Used in 60 days = 4532.95 m.³ Average Water Used = 75.549 m.³/day</p>							



Table A.3 Washwater Consumption for Automobile
in Service Station No.3

Name of the Service Station RUAM CHAROEN BORIKARN Meter No.01696/2514
(รวมเจริญบริการ)

Date	Time	Meter (m ³)	Water Used in 12 hrs. (m ³)	Water Used per day (m ³)	Remark
Sat., 8 th . Feb., 75	06.00 pm.	339.1	-	-	* = Minimum
Sun., 9 th . Feb., 75	06.00 am.	356.2	17.1		** = Maximum
Feb., 75	06.00 pm.	382.4	26.2	43.3	
Mon., 10 th . Feb., 75	06.00 am.	393.6	11.2		
Feb., 75	06.00 pm.	422.3	28.7	39.9	
Tue., 11 th . Feb., 75	06.00 am.	436.5	14.2		
Feb., 75	06.00 pm.	458.6	22.1	36.3	
Wed., 12 th . Feb., 75	06.00 am.	473.2	14.6		
Feb., 75	06.00 pm.	496.4	23.2	37.8	
Thu., 13 th . Feb., 75	06.00 am.	508.8	12.4		
Feb., 75	06.00 pm.	529.8	21.0	33.4	
Fri., 14 th . Feb., 75	06.00 am.	546.1	16.3		
Feb., 75	06.00 pm.	571.2	25.1	41.4	
Sat., 15 th . Feb., 75	06.00 am.	591.9	20.7		
Feb., 75	06.00 pm.	615.4	23.5	44.2	
Sun., 16 th . Feb., 75	06.00 am.	627.6	12.2		
Feb., 75	06.00 pm.	654.3	26.7	38.9	
Mon., 17 th . Feb., 75	06.00 am.	669.5	15.2		
Feb., 75	06.00 pm.	690.9	21.4	36.6	
Tue., 18 th . Feb., 75	06.00 am.	705.4	14.5		
Feb., 75	06.00 pm.	725.6	20.2	34.7	
Wed., 19 th . Feb., 75	06.00 am.	741.8	16.2		
Feb., 75	06.00 pm.	764.2	22.4	38.6	
Thu., 20 th . Feb., 75	06.00 am.	779.5	15.3		
Feb., 75	06.00 pm.	800.2	20.7	36.0	
Fri., 21 st . Feb., 75	06.00 am.	813.6	13.4		
Feb., 75	06.00 pm.	832.8	19.2	32.6	

Table A.3 (Continued)

Date	Time	Meter (m ³)	Water Used in 12 hrs. (m ³)	Water Used per day (m ³)	Remark
Sat., 22 nd .	06.00 am.	848.4	15.6		
Feb., 75	06.00 pm.	873.2	24.8	40.4	
Sun., 23 rd .	06.00 am.	889.4	16.2		
Feb., 75	06.00 pm.	914.1	24.7	40.9	
Mon., 24 th .	06.00 am.	928.6	14.5		
Feb., 75	06.00 pm.	956.5	27.9	42.4	
Tue., 25 th .	06.00 am.	970.5	14.0		
Feb., 75	06.00 pm.	994.9	24.4	38.4	
Wed., 26 th .	06.00 am.	1010.2	15.3		
Feb., 75	06.00 pm.	1034.0	23.8	39.1	
Thu., 27 th .	06.00 am.	1049.0	15.0		
Feb., 75	06.00 pm.	1073.1	24.1	39.1	
Fri., 28 th .	06.00 am.	1087.9	14.8		
Feb., 75	06.00 pm.	1112.7	24.8	39.6	
Sat., 1 st .	06.00 am.	1126.1	13.4		
Mar., 75	06.00 pm.	1154.1	23.0	41.4	
Sun., 2 nd .	06.00 am.	1168.9	14.8		
Mar., 75	06.00 pm.	1197.7	28.8	43.6	
Mon., 3 rd .	06.00 am.	1212.7	15.0		
Mar., 75	06.00 pm.	1241.8	29.1	44.1	
Tue., 4 th .	06.00 am.	1250.8	9.0		
Mar., 75	06.00 pm.	1276.5	25.7	34.7	
Wed., 5 th .	06.00 am.	1293.2	16.7		
Mar., 75	06.00 pm.	1313.5	20.3	37.0	
Thu., 6 th .	06.00 am.	1332.6	19.1		
Mar., 75	06.00 pm.	1351.6	19.0	38.1	
Fri., 7 th .	06.00 am.	1368.9	17.3		
Mar., 75	06.00 pm.	1391.0	22.1	39.4	

Table A.3 (Continued)

Date	Time	Meter (m ³)	Water Used in 12 hrs. (m ³)	Water Used per day (m ³)	Remark
Sat., 8 th .	06.00 am.	1407.0	16.0		
Mar., 75	06.00 pm.	1434.0	27.0	43.00	
Sun., 9 th .	06.00 am.	1449.2	15.2		
Mar., 75	06.00 pm.	1472.0	22.8	38.0	
Mon., 10 th .	06.00 am.	1491.4	19.4		
Mar., 75	06.00 pm.	1515.3	23.9	43.3	
Tue., 11 th .	06.00 am.	1529.1	13.8		
Mar., 75	06.00 pm.	1552.1	23.0	36.8	
Wed., 12 th .	06.00 am.	1567.1	15.0		
Mar., 75	06.00 pm.	1595.2	28.1	43.1	
Thu., 13 th .	06.00 am.	1610.0	14.8		
Mar., 75	06.00 pm.	1633.8	23.8	38.6	
Fri., 14 th .	06.00 am.	1649.8	16.0		
Mar., 75	06.00 pm.	1674.6	24.8	40.8	
Sat., 15 th .	06.00 am.	1692.4	17.8		
Mar., 75	06.00 pm.	1715.4	23.0	40.8	
Sun., 16 th .	06.00 am.	1729.5	14.1		
Mar., 75	06.00 pm.	1755.7	26.2	40.3	
Mon., 17 th .	06.00 am.	1772.8	17.1		
Mar., 75	06.00 pm.	1800.8	28.0	45.1	
Tue., 18 th .	06.00 am.	1818.8	18.0		
Mar., 75	06.00 pm.	1842.6	23.8	41.8	
Wed., 19 th .	06.00 am.	1859.0	16.4		
Mar., 75	06.00 pm.	1881.6	22.6	39.0	
Thu., 20 th .	06.00 am.	1895.9	14.3		
Mar., 75	06.00 pm.	1916.1	20.2	34.5	
Fri., 21 st .	06.00 am.	1931.2	15.1		
Mar., 75	06.00 pm.	1960.6	29.4	44.5	

Table A.3 (Continued)

Date	Time	Meter (m ³)	Water Used in 12 hrs. (m ³)	Water Used per day (m ³)	Remark
Sat., 22 nd .	06.00 am.	1977.5	16.9		
Mar., 75	06.00 pm.	2006.4	28.9	45.8	
Sun., 23 rd .	06.00 am.	2022.7	16.3		
Mar., 75	06.00 pm.	2051.0	28.3	44.6	
Mon., 24 th .	06.00 am.	2067.1	16.1		
Mar., 75	06.00 pm.	2096.7	29.6	45.7	
Tue., 25 th .	06.00 am.	2110.0	13.3		
Mar., 75	06.00 pm.	2136.5	26.5	39.8	
Wed., 26 th .	06.00 am.	2146.0	9.5		
Mar., 75	06.00 pm.	2166.8	20.8	30.3	
Thu., 27 th .	06.00 am.	2180.1	13.3		
Mar., 75	06.00 pm.	2202.1	22.0	35.3	
Fri., 28 th .	06.00 am.	2218.4	16.3		
Mar., 75	06.00 pm.	2248.1	** 29.7	* 46.0	
Sat., 29 th .	06.00 am.	2262.3	14.2		
Mar., 75	06.00 pm.	2289.1	26.8	41.0	
Sun., 30 th .	06.00 am.	2304.9	15.8		
Mar., 75	06.00 pm.	2329.6	24.7	40.5	
Mon., 31 st .	06.00 am.	2342.4	12.8		
Mar., 75	06.00 pm.	2368.1	25.7	38.5	
Tue., 1 st .	06.00 am.	2376.0	* 7.9		
Apr., 75	06.00 pm.	2397.0	21.0	* 28.9	
Wed., 2 nd .	06.00 am.	2412.4	15.4		
Apr., 75	06.00 pm.	2428.7	16.3	31.7	
Thu., 3 rd .	06.00 am.	2444.6	15.9		
Apr., 75	06.00 pm.	2469.1	24.5	40.4	
Fri., 4 th .	06.00 am.	2481.5	12.4		
Apr., 75	06.00 pm.	2506.1	24.6	37.0	

Table A.3 (Continued)

Date	Time	Meter (m ³)	Water Used in 12 hrs. (m ³)	Water Used per day (m ³)	Remark
Sat., 5 th .	06.00 am.	2521.9	15.8		
Apr., 75	06.00 pm.	2547.3	25.4	41.2	
Sun., 6 th .	06.00 am.	2561.2	13.9		
Apr., 75	06.00 pm.	2586.4	25.2	39.1	
Mon., 7 th .	06.00 am.	2603.1	16.7		
Apr., 75	06.00 pm.	2627.2	24.1	40.8	
Tue., 8 th .	06.00 am.	2640.6	13.4		
Apr., 75	06.00 pm.	2664.1	23.5	36.9	
Wed., 9 th .	06.00 am.	2679.5	15.4		
Apr., 75					

Note. Total Water Used in 59 days = 2325 m³
Average Water Used = 39.407 m³/day.

Table A.4 Washwater Consumption for Automobile
in Service Station No. 4

Name of the Service Station MAHACHAI SERVICE Meter No. 00610/2514
(มหาชัยเซอวิซ)

Date	Time	Meter (m ³)	Water Used per day (m ³)	Remark
Sat., 8 th . Feb., 75	06.00 pm.	3610.94	-	* = Minimum
Sun., 9 th . Feb., 75	06.00 pm.	3639.67	28.73	** = Maximum
Mon., 10 th . Feb., 75	06.00 pm.	3671.36	31.69	
Tue., 11 th . Feb., 75	06.00 pm.	3695.62	24.26	
Wed., 12 th . Feb., 75	06.00 pm.	3717.70	22.08	
Thu., 13 th . Feb., 75	06.00 pm.	3738.97	21.27	
Fri., 14 th . Feb., 75	06.00 pm.	3764.16	25.19	
Sat., 15 th . Feb., 75	06.00 pm.	3793.40	29.24	
Sun., 16 th . Feb., 75	06.00 pm.	3820.91	27.51	
Mon., 17 th . Feb., 75	06.00 pm.	3851.03	30.12	

Table A. 4 (Continued)

Date	Time	Meter (m ³)	Water Used per day (m ³)	Remark
Tue., 18 th . Feb., 75	06.00 pm.	3874.50	23.47	
Wed., 19 th . Feb., 75	06.00 pm.	3899.35	24.85	
Thu., 20 th . Feb., 75	06.00 pm.	3920.48	*21.13	
Fri., 21 st . Feb., 75	06.00 pm.	3948.53	28.05	
Sat., 22 nd . Feb., 75	06.00 pm.	3976.05	27.52	
Sun., 23 rd . Feb., 75	06.00 pm.	4002.99	26.94	
Mon., 24 th . Feb., 75	06.00 pm.	4033.21	30.22	
Tue., 25 th . Feb., 75	06.00 pm.	4055.86	22.65	
Wed., 26 th . Feb., 75	06.00 pm.	4080.45	24.59	
Thu., 27 th . Feb., 75	06.00 pm.	4104.15	23.70	
Fri., 28 th . Feb., 75	06.00 pm.	4132.06	27.91	

Table A. 4(Continued)

Date	Time	Meter (m ³)	Water Used per day (m ³)	Remark
Sat., 1 st . Mar., 75	06.00 pm.	4163.31	31.25	
Sun., 2 nd . Mar., 75	06.00 pm.	4188.39	25.08	
Mon., 3 rd . Mar., 75	06.00 pm.	4216.25	27.86	
Tue., 4 th . Mar., 75	06.00 pm.	4242.92	26.67	
Wed., 5 th . Mar., 75	06.00 pm.	4269.02	26.10	
Thu., 6 th . Mar., 75	06.00 pm.	4293.45	24.43	
Fri., 7 th . Mar., 75	06.00 pm.	4318.79	25.34	
Sat., 8 th . Mar., 75	06.00 pm.	4342.30	23.51	
Sun., 9 th . Mar., 75	06.00 pm.	4370.05	27.75	
Mon., 10 th . Mar., 75	06.00 pm.	4400.43	30.38	
Tue., 11 th . Mar., 75	06.00 pm.	4429.60	29.17	

Table A.4 (Continued)

Date	Time	Meter (m ³)	Water Used per day (m ³)	Remark
Wed., 12 th . Mar., 75	06.00 pm.	4453.68	24.08	
Thu., 13 th . Mar., 75	06.00 pm.	4482.37	28.69	
Fri., 14 th . Mar., 75	06.00 pm.	4507.89	25.52	
Sat., 15 th . Mar., 75	06.00 pm.	4534.73	26.84	
Sun., 16 th . Mar., 75	06.00 pm.	4559.54	24.81	
Mon., 17 th . Mar., 75	06.00 pm.	4589.66	30.12	
Tue., 18 th . Mar., 75	06.00 pm.	4613.01	23.35	
Wed., 19 th . Mar., 75	06.00 pm.	4637.58	24.57	
Thu., 20 th . Mar., 75	06.00 pm.	4664.78	27.20	
Fri., 21 st . Mar., 75	06.00 pm.	4693.10	28.32	
Sat., 22 nd . Mar., 75	06.00 pm.	4723.20	30.10	

Table A.4 (Continued)

Date	Time	Meter (m ³)	Water Used per day (m ³)	Remark
Sun., 23 rd . Mar., 75	06.00 pm.	4748.51	25.31	
Mon., 24 th . Mar., 75	06.00 pm.	4780.37	** 31.86	
Tue., 25 th . Mar., 75	06.00 pm.	4805.56	25.19	
Wed., 26 th . Mar., 75	06.00 pm.	4830.22	24.66	
Thu., 27 th . Mar., 75	06.00 pm.	4856.93	26.71	
Fri., 28 th . Mar., 75	06.00 pm.	4882.91	25.98	
Sat., 29 th . Mar., 75	06.00 pm.	4909.35	26.44	
Sun., 30 th . Mar., 75	06.00 pm.	4939.73	30.38	
Mon., 31 st . Mar., 75	06.00 pm.	4969.48	29.75	
Tue., 1 st . Apr., 75	06.00 pm.	4997.12	27.64	
Wed., 2 nd . Apr., 75	06.00 pm.	5021.25	24.13	

Table A.4 (Continued)

Date	Time	Meter (m ³)	Water Used per day (m ³)	Remark
Thu., 3 rd . Apr., 75	06.00 pm.	5042.43	21.18	
Fri., 4 th . Apr., 75	06.00 pm.	5066.35	23.92	
Sat., 5 th . Apr., 75	06.00 pm.	5095.74	29.39	
Sun., 6 th . Apr., 75	06.00 pm.	5122.04	26.30	
Mon., 7 th . Apr., 75	06.00 pm.	5152.04	30.00	
Tue., 8 th . Apr., 75	06.00 pm.	5174.47	22.43	
Wed., 9 th . Apr., 75	06.00 pm.	5200.18	25.71	
<p>Note. Total Water Used in 60 days = 1589.24 m³ Average Water Used = 26.487 m³/day</p>				

APPENDIX B.

Sample of Calculations : Production CostsReclamation System, capacity 80 m³/dayBasis 16 hr/day operation
 30 day/monthCapital Cost :

Piping system for water supply (45 ₱/m X 60 m)	= 2,700 ₱
Raw water tank	= 16,950 ₱
Filter Tank	= 16,350 ₱
Centrifugal pump (2@ 3,000 ₱)	= 6,000 ₱
Pipeline and Underdrain	= 3,000 ₱
Gravel (50₱/bag X 27 bags)	= 1,350 ₱
Transportation cost of BRH (67₱/m ³ X 3.2 m ³)	= <u>215 ₱</u>
Total capital cost	= <u>46,565 ₱</u>

Investment at each end of the 10th year

Piping system for water supply	= 2,700 ₱
Centrifugal pump	= 6,000 ₱
Pipeline and Underdrain	= <u>3,000 ₱</u>
Total investment at each end of the 10th year	= <u>11,700 ₱</u>

Operating Cost

Water supply charge (85 m ³ /month)	= 125 ₱/month
BRH (67 ₱/ m ³ X 0.67 m ³ /month)	= 85 ₱/month
Electric power for pump (180 unit/month)	= 195 ₱/month
Lubrication (5 times/month @ 1₱ each lubrication)	= 5 ₱/month
Maintenance (1% of Capital Cost)/12	= <u>40 ₱/month</u>
Total variable cost	= <u>410 ₱/month</u>

$$\begin{aligned} \text{Fixed cost: labour for cleansing} &= 200 \text{ } \text{₹/month} \\ \text{Thus total Operating cost} &= 410 + 200 = 610 \text{ } \text{₹/month} \end{aligned}$$

Amortization of equipment (repayment of borrowed capital)

$$\begin{aligned} \text{Total capital cost} &= 46,565 \text{ } \text{₹} \\ \text{Money to be borrowed} &= 46,565 \text{ } \text{"} \end{aligned}$$

$$\begin{aligned} \text{Basis : } n \text{ for concrete tank} &= 30 \text{ yrs} \\ n \text{ for pump, piping system and} & \\ \text{underdrain} &= 10 \text{ yrs} \\ i = \text{interest rate} &= 8\% \end{aligned}$$

$$\begin{aligned} \text{Present worth value, } P &= P_0 + P_{10} (\text{pwf}')_{n=10}^{i=8\%} + P_{20} (\text{pwf}')_{n=20}^{i=8\%} \\ &= 46,565 + 11,700(0.4632) + 11,700(0.2145) \\ &= 54,494.09 \text{ } \text{₹} \end{aligned}$$

$$\begin{aligned} \text{Amortization cost, } R &= P (\text{crf})_{n=30}^{i=8\%} \\ &= 54,494.09 (0.08883) \\ &= 4,840.71 \text{ } \text{₹/yr} \\ &= 4,840.71/12 \text{ } \text{₹/month} \\ &= 403.39 \text{ } \text{"} \end{aligned}$$

$$\begin{aligned} \text{Thus total monthly cost} &= 610 + 403.39 \\ &= 1,013.39 \text{ } \text{₹} \end{aligned}$$

$$\begin{aligned} \text{Annual cost} &= 1,013.39 \times 12 \\ &= 12,161 \text{ } \text{₹} \end{aligned}$$

$$\begin{aligned} \text{Water production} &= 80 \text{ m}^3/\text{day} \times 30 \text{ day/month} \times 12 \text{ months} \\ &= 28,800 \text{ } \text{m}^3/\text{yr} \end{aligned}$$

$$\begin{aligned} \text{Thus unit production cost} &= 12,161/28,800 \\ &= 0.42 \text{ } \text{₹/m}^3 \end{aligned}$$

Unit production cost of G₁₀₀ higher than R

$$= \frac{(\text{Unit production cost of G}_{100} \text{ minus of R})}{\text{Unit production of R}} \times 100$$

$$= \frac{(0.86 - 0.42)}{0.42} \times 100$$

$$= 104.76 \%$$

Sample of Calculations : Sensitivity Analysis

a) Equipment life V.S. Total unit production cost

Total capital cost = 46,565 ₹

Thus money to be borrowed = 46,565 ₹

Reclamation system : Capacity $80 \text{ m}^3/\text{day}$, $i = 8\%$

Equipment life (year)	Amortization Cost $\text{₹}/\text{yr}$
5	$46,565(\text{crf})_{n=5}^{i=8\%} = 46,565 \times 0.25046 = 11,662.67$
10	$46,565(\text{crf})_{n=10}^{i=8\%} = 46,565 \times 0.14903 = 6,939.58$
20	$\left[46,565 + 11,700(\text{pwf}')_{n=10}^{i=8\%} \right] (\text{crf})_{n=20}^{i=8\%}$ $= (46,565 + 11,700 \times 0.4632) \times 0.10185 = 5,294.62$
30	$\left[46,565 + 11,700(\text{pwf}')_{n=10}^{i=8\%} + 11,700(\text{pwf}')_{n=20}^{i=8\%} \right] (\text{crf})_{n=30}^{i=8\%}$ $= (46,565 + 11,700 \times 0.4632 + 11,700 \times 0.2145) \times 0.08883$ $= 4,840.71$

For 5 years; amortization cost = 11,662.67/12

= 971.89 $\text{₹}/\text{month}$

Operating Cost = 610 $\text{₹}/\text{month}$

Thus Total monthly cost = $971.89 + 610 = 1,581.89 \text{ ₹}/\text{month}$

Water production = $80 \text{ m}^3/\text{day} \times 30 \text{ day}/\text{month}$

= $2,400 \text{ m}^3/\text{month}$

Thus total unit production cost = $1,581.89/2,400$

= 0.66 $\text{₹}/\text{m}^3$

b) % operation V.S. Total unit production costReclamation system : Capacity $80 \text{ m}^3/\text{day}$ $i = 8\%$ $n = 30 \text{ yrs.}$

% operation	Total variable cost, P/month
100	410
80	328
60	246
40	164
20	82

For 60% operation;

Total variable cost = 246 P/month

Monthly fixed cost

= Amortization cost + Labour cost

= 403.39 + 200

= 603.39 P/month

Thus total monthly cost

= 246 + 603.39

= 849.39 P/month

Production of water

= $(80 \text{ m}^3/\text{day} \times 30 \text{ day/month}) \times 0.6$ = $80 \times 30 \times 0.6$ = 1,440 m^3/month Thus total unit production cost = $849.39/1,440$ = 0.59 P/m^3

c) Maintenance cost V.S. Total unit production costReclamation system : Capacity $80 \text{ m}^3/\text{day}$ $i = 8\%$ $n = 30 \text{ yrs.}$

Annual maintenance cost, % of capital cost	Maintenance cost $\text{₱}/\text{month}$
1	$0.01 \times 46,565/12 = 40$
2	$0.02 \times 46,565/12 = 80$
3	$0.03 \times 46,565/12 = 120$
4	$0.04 \times 46,565/12 = 160$
5	$0.05 \times 46,565/12 = 200$

For 5% of Capital Cost;

Maintenance Cost = 200 $\text{₱}/\text{month}$ Amortization Cost = $4,840.71/12$
= 403.39 "

Operating cost without maintenance = 570 "

Total cost without maintenance = $403.39 + 570 = 973.39$ "Thus total monthly cost = $973.39 + 200 = 1,173.39$ "Water production = $80 \text{ m}^3/\text{day} \times 30 \text{ day}/\text{month}$
= $2,400 \text{ m}^3/\text{month}$ Thus total unit production cost = $1,173.39/2,400$
= 0.49 $\text{₱}/\text{m}^3$

d) % interest rate V.S. Total unit production cost

Reclamation system : Capacity 80 m³/day
n = 30 yrs.

i, %	Amortization cost, ₪/yr.
4	$\left[(46,565 + 11,700 (\text{pwf}')_{n=10}^{i=4\%} + 11,700 (\text{pwf}')_{n=20}^{i=4\%} \right] (\text{crf})_{n=30}^{i=4\%}$ $= (46,565 + 11,700 \times 0.6756 + 11,700 \times 0.4654) \times 0.05783$ $= 3,115.56$
6	$\left[(46,565 + 11,700 (\text{pwf}')_{n=10}^{i=6\%} + 11,700 (\text{pwf}')_{n=20}^{i=6\%} \right] (\text{crf})_{n=30}^{i=6\%}$ $= (46,565 + 11,700 \times 0.5584 + 11,700 \times 0.3118) \times 0.07265$ $= 4,122.62$
8	4,840.71
10	$\left[(46,565 + 11,700 (\text{pwf}')_{n=10}^{i=10\%} + 11,700 (\text{pwf}')_{n=20}^{i=10\%} \right] (\text{crf})_{n=30}^{i=10\%}$ $= (46,565 + 11,700 \times 0.3855 + 11,700 \times 0.1486) \times 0.10608$ $= 5,602.51$
12	$\left[(46,565 + 11,700 (\text{pwf}')_{n=10}^{i=12\%} + 11,700 (\text{pwf}')_{n=20}^{i=12\%} \right] (\text{crf})_{n=30}^{i=12\%}$ $= (46,565 + 11,700 \times 0.322 + 11,700 \times 0.1037) \times 0.12414$ $= 6,398.88$

For i=12% ; amortization cost = 6,398.88/12 = 533.24 ₪/month
operating cost = 610 ₪/month
Thus total monthly cost = 533.24 + 610 = 1,143.24 ₪/month
Water production = 2,400 m³/month
Thus Total unit production cost = 1,143.24/2,400
= 0.48 ₪/m³

Sample of Calculations : Break EvenReclamation System : Capacity $80 \text{ m}^3/\text{day}$ a) Based on total production cost

Total monthly production 100%	=	$80 \text{ m}^3/\text{day} \times 30 \text{ day/month}$
	=	$2,400 \text{ m}^3/\text{month}$
Total monthly variable cost	=	410 ¢/month
Thus unit variable cost	=	$410/2,400 = 0.171 \text{ ¢/m}^3$
Monthly fixed cost	=	Amortization cost + Labour cost
	=	$403.39 + 200 = 603.39 \text{ ¢/month}$
Thus unit fixed cost	=	$603.39/2,400 = 0.251 \text{ ¢/m}^3$
At 100% Capacity break-even	=	$0.171 + 0.251 = 0.42 \text{ ¢}$
At 75% Capacity break-even	=	$0.171 + 0.251/0.75 = 0.51 \text{ ¢/m}^3$
At 50% Capacity break-even	=	$0.171 + 0.251/0.5 = 0.67 \text{ ¢}$
At 25% Capacity break-even	=	$0.171 + 0.251/0.25 = 1.18 \text{ ¢}$

b) Based on operating cost only

From above, unit variable cost	=	0.171 ¢/m^3
unit labour cost	=	$200/2,400 = 0.083 \text{ ¢}$
At 100% Capacity break-even	=	$0.171 + 0.083 = 0.25 \text{ ¢}$
At 75% Capacity break-even	=	$0.171 + 0.083/0.75 = 0.28 \text{ ¢/m}^3$
At 50% Capacity break-even	=	$0.171 + 0.083/0.5 = 0.34 \text{ ¢}$
At 25% Capacity break-even	=	$0.171 + 0.083/0.25 = 0.50 \text{ ¢}$

VITA

The author, Mr. Somsak Ekvetchavit, was born on April 16, 1949 at Bangkok, Thailand. He received a bachelor degree in civil engineering from Chulalongkorn University in 1970. He then, worked with the Construction Division, Public Works Department as a civil engineer responsible for design and construction supervision. He took his postgraduate study in Sanitary Engineering at Graduate School, Chulalongkorn University. Presently, he is working with the Bureau of Public Utility and Environment, Office of Policy and Planning, Ministry of Interior.

