

Industrial AREA M10 & M9																Abstract of Length		
Sr. No.	Name of Sewer	Length of Sewer	Waste water	Pipe Size	Slope	Length	Fall	Formation Level		Invert Level		Lowest at junction	Depth		Avg Depth	Sewer Pipe Line 250 mm i/d	Sewer Pipe Line 300 mm i/d	Vent shaft
								Upper end	Lower end	Upper end	Lower end		Upper end	Lower end				
		mtr.	Kld	mm.		Mtrs.	Mtrs.	Mtrs.	Mtrs.	Mtrs.	Mtrs.	Mtrs.	Mtrs.	Mtrs.	Mtrs.	Length	Length	
1	4	5	6	6	7	8	9	11	12	13	14	15	16	17	18	8		
						Col D	Col 5/Col 17											
			401															
1	A71-A70	197	37.53	300	700	197	0.28	230.250	230.000	229.050	228.769		1.20	1.23	1.22		197	
2	A70-A69	47	8.95	300	700	47	0.07	230.000	230.100	228.769	228.701		1.23	1.40	1.31		47	
3	A56-A69	234	44.58	300	200	234	1.17	231.250	230.100	230.050	228.880		1.20	1.22	1.21		234	
4	A69-A67	170	32.38	300	700	170	0.24	230.100	230.400	228.701	228.459		1.40	1.94	1.67		170	
5	A68-A67	41	7.81	300	700	41	0.06	230.300	230.400	229.100	229.041		1.20	1.36	1.28		41	
6	A67-A59	128	24.38	300	700	128	0.18	230.400	230.700	228.459	228.276		1.94	2.42	2.18		128	
7	A58-A57	370	70.48	300	700	370	0.53	231.350	231.150	230.150	229.621		1.20	1.53	1.36		370	
8	A53-A57	61	11.62	300	300	61	0.20	231.340	231.150	230.140	229.937		1.20	1.21	1.21		61	
9	A57-A59	115	21.91	300	700	115	0.16	231.150	230.700	229.621	229.457		1.53	1.24	1.39		115	
10	A59-A60	148	28.19	300	700	148	0.21	230.700	230.850	228.276	228.064		2.42	2.79	2.60		148	
11	A67-A64	125	23.81	300	700	125	0.18	230.400	230.500	229.200	229.021		1.20	1.48	1.34		125	
12	A65-A64	41	7.81	300	700	41	0.06	230.350	230.500	229.150	229.091		1.20	1.41	1.30		41	
13	A64-A60	128	24.38	300	700	128	0.18	230.500	230.850	229.021	228.839		1.48	2.01	1.74		128	
14	A60-A61	122	23.24	300	700	122	0.17	230.850	231.100	228.064	227.890		2.79	3.21	3.00		122	
15	A63-A62	25	4.76	300	700	25	0.04	230.600	230.500	229.400	229.364		1.20	1.14	1.17		25	
16	A62-A61	133	25.34	300	700	133	0.19	230.500	231.100	229.364	229.174		1.14	1.93	1.53		133	1
17	A61-ETP	22	4.19	300	700	22	0.03	231.100	230.250	227.890	227.859		3.21	2.39	2.80		22	
		2107	401.379															
		1826																
18	A13-A13	74	26.40	250	500	74	0.15	232.812	232.878	231.612	231.464		1.20	1.41	1.31	74		
19	A17-A17	168	59.93	250	500	168	0.34	233.015	232.878	231.815	231.479		1.20	1.40	1.30	168		

20	A17-A11	46	16.41	250	500	46	0.09	232.878	233.500	231.464	231.372		1.41	2.13	1.77	46		
21	A16-A14	269	95.96	250	240	269	1.12	233.900	232.775	232.700	231.579		1.20	1.20	1.20	269		
22	A14-A'13	38	13.56	250	500	38	0.08	232.775	232.812	231.579	231.503		1.20	1.31	1.25	38		
23	A'13-A12	46	16.41	250	500	46	0.09	232.812	233.500	231.503	231.411		1.31	2.09	1.70	46		
24	A12-A11	86	30.68	250	500	86	0.17	233.500	233.500	231.411	231.239		2.09	2.26	2.17	86		
25	A11-A10	48	17.12	250	500	48	0.10	233.500	233.750	231.239	231.143		2.26	2.61	2.43	48		
			0.00															
26	A2-A3	37	13.20	250	500	37	0.07	233.650	233.700	232.450	232.376		1.20	1.32	1.26	37		
27	A3-A8	139	49.59	250	500	139	0.28	233.700	233.840	232.376	232.098		1.32	1.74	1.53	139		
28	A5-A22	183	65.28	250	500	183	0.37	232.500	233.750	231.300	230.934		1.20	2.82	2.01	183		
29	A6-A5	24	8.56	250	500	24	0.05	233.800	233.750	232.600	232.552		1.20	1.20	1.20	24		
30	A5-A4	45	16.05	250	500	45	0.09	233.750	233.700	230.934	230.844		2.82	2.86	2.84	45		
31	A1-A4	76	27.11	250	500	76	0.15	233.600	233.700	232.400	232.248		1.20	1.45	1.33	76		
32	A4-A7	93	33.18	250	500	93	0.19	233.700	233.800	230.844	230.658		2.86	3.14	3.00	93		
33	A21-A7	94	33.53	250	500	94	0.19	233.015	233.800	231.815	231.627		1.20	2.17	1.69	94		
34	A7-A8	42	14.98	250	500	42	0.08	233.800	233.840	230.658	230.574		3.14	3.27	3.20	42		
35	A8-A9	75	26.75	250	500	75	0.15	233.840	233.750	230.574	230.424		3.27	3.33	3.30	75		
36	A20-A19	120	42.81	250	500	120	0.24	233.400	233.550	232.200	231.960		1.20	1.59	1.40	120		1
37	A19-A18	43	15.34	250	500	43	0.09	232.918	233.550	231.718	231.632		1.20	1.92	1.56	43		
38	A9-A19	47	16.77	250	500	47	0.09	233.550	233.750	232.350	232.256		1.20	1.49	1.35	47		
39	A9-A10	57	20.33	250	500	57	0.11	233.750	233.750	230.424	230.310		3.33	3.44	3.38	57		
40	A10-STP1	40	14.27	250	500	40	0.08	233.750	233.750	230.310	230.230		3.44	3.52	3.48	40		
			0.00															
41	A'24-A28	133	47.45	250	500	133	0.27	232.700	232.535	231.500	231.234		1.20	1.30	1.25	133		
42	A27-A28	27	9.63	250	60	27	0.45	232.950	232.535	231.750	231.300		1.20	1.23	1.22	27		
43	A28-A31	204	72.77	250	500	204	0.41	232.535	232.535	231.234	230.826		1.30	1.71	1.50	204		
44	A31-A32	51	18.19	250	500	51	0.10	232.535	232.113	230.826	230.724		1.71	1.39	1.55	51		
45	A33-A32	100	35.67	250	500	100	0.20	232.243	232.113	231.043	230.843		1.20	1.27	1.24	100		
46	A32-A36	49	17.48	250	500	49	0.10	232.118	232.000	230.724	230.626		1.39	1.37	1.38	49		
47	A38-A36	100	35.67	250	500	100	0.20	232.125	232.000	230.925	230.725		1.20	1.27	1.24	100		
48	A36-A37	49	17.48	250	500	49	0.10	232.000	231.875	230.626	230.528		1.37	1.35	1.36	49		
49	A39-A37	100	35.67	250	500	100	0.20	232.000	231.875	230.800	230.600		1.20	1.28	1.24	100		

50	A37-A42	49	17.48	250	500	49	0.10	231.876	231.695	230.528	230.430		1.35	1.27	1.31	49		
			0.00															
51	A29-A34	39	13.91	250	150	39	0.26	232.500	232.245	231.300	231.040		1.20	1.20	1.20	39		
52	A35-A34	84	29.97	250	500	84	0.17	232.315	232.245	231.115	230.947		1.20	1.30	1.25	84		
53	A34-A40	95	33.89	250	500	95	0.19	232.243	232.000	230.947	230.757		1.30	1.24	1.27	95		1
54	A41-A40	84	29.97	250	500	84	0.17	232.070	232.000	230.870	230.702		1.20	1.30	1.25	84		
55	A40-A44	50	17.84	250	500	50	0.10	232.000	231.875	230.702	230.602		1.30	1.27	1.29	50		
56	A24-A48	228	81.33	250	500	228	0.46	232.700	232.135	231.500	231.044		1.20	1.09	1.15	228		
57	A48-A47	50	17.84	250	500	50	0.10	232.135	232.065	231.044	230.944		1.09	1.12	1.11	50		
58	A25-A47	185	66.00	250	500	185	0.37	232.650	232.065	231.450	231.080		1.20	0.98	1.09	185		
59	A47-A46	50	17.84	250	500	50	0.10	232.065	231.995	230.944	230.844		1.12	1.15	1.14	50		
60	A26-A46	185	66.00	250	500	185	0.37	232.575	231.995	231.375	231.005		1.20	0.99	1.10	185		
61	A44-A46	55	19.62	250	500	55	0.11	231.995	231.875	230.844	230.734		1.15	1.14	1.15	55		
62	A44-A43	43	15.34	250	500	43	0.09	231.875	231.825	230.602	230.516		1.27	1.31	1.29	43		
63	A43-A30	185	66.00	250	310	185	0.60	232.425	231.825	231.225	230.628		1.20	1.20	1.20	185		
64	A43-A42	104	37.10	250	310	104	0.34	231.825	231.695	230.628	230.293		1.20	1.40	1.30	104		1
65	A42-A52	89	31.75	250	500	89	0.18	231.695	231.510	230.293	230.115	230.06	1.40	1.40	1.40	89		
66	A48-A49	40	14.27	250	140	40	0.29	232.135	231.850	230.935	230.649		1.20	1.20	1.20	40		
67	A50-A49	26	9.28	250	500	26	0.05	231.900	231.850	230.700	230.648		1.20	1.20	1.20	26		
68	A49-A51	154	54.94	250	500	154	0.31	231.850	231.700	230.648	230.340		1.20	1.36	1.28	154		
69	A45-A51	51	18.19	250	280	51	0.18	231.875	231.700	230.675	230.493		1.20	1.21	1.20	51		
70	A51-A52	188	67.07	250	500	188	0.38	231.700	231.510	230.340	229.964	229.91	1.36	1.55	1.45	188		
71	A52-A53	66	23.54	300	700	66	0.09	231.510	231.700	229.914	229.820		1.60	1.88	1.74		66	
72	A57-A55	178	63.50	250	500	178	0.36	231.150	231.275	229.950	229.594		1.20	1.68	1.44	178		
73	A55-A54	50	17.84	250	500	50	0.10	231.275	231.500	229.594	229.494		1.68	2.01	1.84	50		
74	A54-A53	55	19.62	250	500	55	0.11	231.500	231.700	229.494	229.384	229.33	2.01	2.32	2.16	55		
75	A53-STP1	33	11.77	300	700	33	0.05	231.700	231.340	229.334	229.287		2.37	2.05	2.21		33	
	Total	5119	1826.11															
	G.Total	7226 7207	2227.492			7226- 7207										3.48	5020	2206

For PROMINENT ENTERPRISES PVT. LTD.

Authorized Signatory



**Design Statement
for
Recycling Water**

Design Statement of Recycling of Water Supply

Sr No.	Name of Node	Length	Design of Pipe Line		Length of Pipe line	Pipe Size	Formation Level	Formation Level	Formation Level	Variation in Formation	Head Loss per	Total Head Loss	Head Loss Progressive	Head Loss Progressive	Terminal Head
							Up Stream	DownStream	Average						
	Zone 1-	Mtr	KL	KL	M	MM	M	M	M	M	M	M	M	M	M
			401.4												30
						150								230.910	
1	ETP-A61	22	4.20	836.21	22	150	230.100	230.400	230.250	0.660	0.0079	0.175	0.175	-0.485	30.49
2	A62-A63	28	5.35	11.15	28	100	230.400	230.300	230.350	0.560	0.0000	0.001	0.184	-0.485	30.49
3	A61-A60	122	23.32	763.34	122	150	230.400	230.500	230.450	0.460	0.0067	0.819	0.994	0.534	29.47
4	A60-A64	128	24.47	128.22	128	100	230.400	230.700	230.550	0.360	0.0018	0.227	1.221	0.861	29.14
5	A64-A65	47	8.98	18.72	47	100	230.700	230.350	230.525	0.385	0.0001	0.002	1.223	0.838	29.16
6	A64-A67	147	28.10	58.53	147	100	230.500	230.850	230.675	0.235	0.0004	0.061	1.282	1.047	28.95
7	A60-A59	147	28.10	586.54	147	150	230.450	230.100	230.275	0.635	0.0041	0.606	1.599	0.964	29.04
8	A59-A67	128	24.47	333.69	128	100	230.100	231.250	230.675	0.575	0.0104	1.337	2.936	2.361	27.64
9	A67-A68	47	8.98	18.72	47	100	231.275	231.275	231.275	-0.365	0.0001	0.002	2.939	3.304	26.70
10	A67-A69	170	32.49	264.00	170	100	230.500	230.350	230.425	0.485	0.0068	1.151	4.087	3.602	26.40
11	A69-A56	243	46.45	96.76	243	100	230.350	230.000	230.175	0.735	0.0011	0.256	4.344	3.609	26.39
12	A69-A70	47	8.98	99.55	47	100	230.000	228.300	229.160	1.750	0.0011	0.052	4.139	2.389	27.61
13	A70-A71	203	38.80	80.83	203	100	231.150	230.100	230.625	0.285	0.0008	0.154	4.203	4.008	25.99
14	A59-A57	115	21.98	194.32	115	100	230.100	231.150	230.625	0.285	0.0038	0.441	2.041	1.756	28.24
15	A57-A56	170	32.49	148.53	170	100	231.150	230.000	230.575	0.335	0.0023	0.397	2.437	2.102	27.90
16	A56-A58	203	38.80	80.83	203	100	231.250	231.275	231.263	-0.352	0.0008	0.154	2.591	2.943	27.06
	Total	2100	401.38	836.21	2100		231.275	231.350	231.313	-0.403	#DIV/0!	#DIV/0!		0.403	29.60
			1525.00	0.00	0	100								231.250	-201.25
17	STP-2-A53	33	8.64	2083.34	33	200	231.250	231.150	231.200	-1.100	0.0106	0.350	3.287	4.387	25.61
18	A53-A'57	52	13.61	298.79	52	100	231.150	230.700	230.925	-0.825	0.0085	0.443	3.729	4.554	25.45
19	A'57-A55	189	49.46	270.44	189	100	230.700	230.850	230.775	-0.675	0.0071	1.338	5.067	5.742	24.26
20	A53-A54	189	49.46	167.39	189	100	231.100	230.500	230.800	-0.700	0.0029	0.550	5.617	6.317	23.68
21	A55-A54	52	13.61	28.35	52	100	230.850	231.100	230.975	-0.875	0.0001	0.006	5.623	6.498	23.50
22	A54-A51	66	17.27	35.99	66	100	230.500	230.600	230.550	-0.450	0.0002	0.011	5.628	6.078	23.92
23	A53-A52	66	17.27	1766.56	66	200	230.600	231.510	231.700	-1.600	0.0078	0.516	3.803	5.403	24.60
24	A52-A51	189	49.46	363.67	189	150	231.510	231.700	231.700	-1.600	0.0017	0.321	4.124	5.724	24.28
25	A51-A45	51	13.35	27.81	51	100	231.700	231.875	231.788	-1.688	0.0001	0.005	4.129	5.817	24.18
26	A51-A49	154	40.30	232.82	154	100	231.100	232.135	231.618	-1.518	0.0054	0.826	4.950	6.467	23.53
27	A49-A50	26	6.80	14.18	26	100	232.135	231.900	232.018	-1.917	0.0000	0.001	4.551	6.868	23.13
28	A49-A48	51	13.35	134.67	51	100	232.135	231.925	232.065	-1.965	0.0019	0.099	5.649	7.014	22.99
29	A48-A'24	196	51.30	106.87	196	100	231.695	231.510	231.603	-1.503	0.0013	0.249	5.199	6.702	23.30

Design Statement of Recycling of Water Supply

Sr No.	Name of Node	Length	Design of Pipe Line		Length of Pipe line	Pipe Size	Formation Level	Formation Level	Formation Level	Variation in Formation	Head Loss per	Total Head Loss	Head Loss Progressive	Head Loss Progressive	Terminal Head
							Up Stream	DownStream	Average						
30	A52-A42	51	13.35	1366.90	51	200	232.070	232.070	232.070	-1.970	0.0049	0.248	4.051	6.021	23.98
31	A42-A43	116	30.36	710.99	116	150	232.070	232.070	232.070	-1.970	0.0059	0.683	4.733	6.703	23.30
32	A43-A39	49	12.82	106.87	49	100	232.070	232.325	232.198	-2.098	0.0013	0.062	4.795	6.893	23.11
33	A39-A38	49	12.82	80.15	49	100	232.325	232.760	232.513	-2.412	0.0007	0.036	4.832	7.244	22.76
34	A38-A33	49	12.82	53.43	49	100	232.700	232.243	232.472	-2.372	0.0004	0.017	4.849	7.221	22.78
35	A33-A30	49	12.82	26.72	49	100	232.243	232.425	232.334	-2.234	0.0001	0.005	4.854	7.088	22.91
36	A43-A44	39	10.21	540.87	39	150	231.824	231.825	231.825	-1.725	0.0035	0.138	4.872	6.596	23.40
37	A44-A40	50	13.09	203.37	50	100	231.825	231.700	231.763	-1.662	0.0042	0.209	5.080	6.743	23.26
38	A40-A41	89	23.29	48.53	89	100	231.700	231.850	231.775	-1.675	0.0003	0.026	5.106	6.781	23.22
39	A40-A34	95	24.86	127.58	95	100	231.510	231.340	231.425	-1.325	0.0018	0.167	5.248	6.573	23.43
40	A34-A35	89	23.29	48.53	89	100	231.700	231.500	231.600	-1.500	0.0003	0.026	5.274	6.774	23.23
41	A34-A29	50	13.09	27.26	50	100	231.275	231.150	231.213	-1.113	0.0001	0.005	5.253	6.365	23.63
42	A44-A45	34	8.90	316.24	34	100	232.070	232.000	232.035	-1.935	0.0095	0.322	5.193	7.128	22.87
43	A45-A46	55	14.39	297.70	55	100	231.700	232.243	231.972	-1.872	0.0085	0.465	5.658	7.530	22.47
44	A46-A41	50	13.09	106.32	50	100	231.700	231.510	231.605	-1.505	0.0013	0.063	5.721	7.226	22.77
45	A41-A35	95	24.86	79.06	95	100	231.500	231.275	231.388	-1.287	0.0007	0.069	5.790	7.077	22.92
46	A35-A26	50	13.09	27.26	50	100	231.825	231.875	231.850	-1.750	0.0001	0.005	5.795	7.545	22.46
47	A46-A47	50	13.09	161.39	50	100	232.243	232.500	232.372	-2.272	0.0027	0.136	5.794	8.066	21.93
48	A47-A25	196	51.30	106.87	196	100	232.500	232.650	232.575	-2.475	0.0013	0.249	6.048	8.523	21.48
49	A42-A37	49	12.82	628.11	49	150	231.695	231.995	231.845	-1.745	0.0047	0.229	4.280	6.025	23.98
50	A37-A39	116	30.36	63.25	116	100	231.995	232.065	232.030	-1.930	0.0005	0.056	4.306	6.266	23.73
51	A37-A36	49	12.82	538.15	49	150	232.065	232.650	232.358	-2.258	0.0035	0.172	4.452	6.709	23.29
52	A36-A38	116	30.36	63.25	116	100	232.065	232.325	232.195	-2.095	0.0005	0.056	4.508	6.603	23.40
53	A36-A32	49	12.82	448.18	49	150	232.325	231.850	232.088	-1.987	0.0025	0.123	4.575	6.562	23.44
54	A32-A33	116	30.36	89.96	116	100	231.850	231.900	231.875	-1.775	0.0009	0.107	4.682	6.457	23.54
55	A38-A33	49	12.82	26.72	49	100	231.900	232.375	232.113	-2.013	0.0001	0.005	4.696	6.699	23.30
56	A32-A31	49	12.82	331.50	49	100	232.118	231.995	232.057	-1.957	0.0103	0.506	5.080	7.037	22.96
57	A31-A30	116	30.36	304.79	116	100	231.995	231.825	231.910	-1.810	0.0088	1.025	6.105	7.915	22.09
58	A30-A29	39	10.21	241.54	39	100	231.825	231.500	231.663	-1.563	0.0057	0.224	6.329	7.891	22.11
59	A29-A28	50	13.09	220.27	50	100	231.500	231.340	231.420	-1.320	0.0048	0.242	6.571	7.891	22.11
60	A28-A27	31	8.11	16.90	31	100	231.340	231.150	231.245	-1.145	0.0000	0.001	6.572	7.717	22.28
61	A28-A26	39	10.21	176.11	39	100	232.535	232.575	232.555	-2.455	0.0032	0.125	6.696	9.151	20.85
62	A26-A25	50	13.09	154.85	50	100	232.575	231.695	232.135	-2.035	0.0025	0.126	6.822	8.857	21.14
63	A25-A24	49	12.82	127.58	49	100	231.695	232.575	232.135	-2.035	0.0018	0.086	6.908	8.943	21.06
64	A24-A24	185	48.42	100.87	185	100	232.575	232.000	232.288	-2.188	0.0011	0.211	7.119	9.306	20.69
	Total	3821	1000.004	0.00	3821						#DIV/0!	#DIV/0!			

Design Statement of Recycling of Water Supply															
Sr No.	Name of Node	Length	Design of Pipe Line		Length of Pipe line	Pipe Size	Formation Level	Formation Level	Formation Level	Variation in Formation	Head Loss per	Total Head Loss	Head Loss Progressive	Head Loss Progressive	Terminal Head
							Up Stream	DownStream	Average						
66	A10-A11	48	12.56	1071.93	48	200	232.535	232.500	232.518	-2.417	0.0031	0.149	0.278	2.695	27.30
67	A11-A17	48	12.56	73.06	48	100	232.500	232.425	232.463	-2.363	0.0006	0.030	0.308	2.670	27.33
68	A17-A13	86	22.51	46.89	86	100	232.425	#REF!	#REF!	#REF!	0.0003	0.024	0.331	#REF!	#REF!
69	A11-A12	86	22.51	972.70	86	200	232.535	232.950	232.743	-2.643	0.0026	0.223	0.500	3.143	26.86
70	A12-A13	48	12.56	925.81	48	200	232.950	232.950	232.950	-2.850	0.0024	0.113	0.614		
71	A13-A14	38	9.95	899.64	38	200	232.950	232.918	232.934	-2.834	0.0022	0.085	0.699	3.533	26.47
72	A14-A15	26	6.80	14.18	26	100	232.918	232.878	232.898	-2.798	0.0000	0.001	0.700	3.498	26.50
73	A14-A16	269	70.40	864.74	269	200	232.878	232.812	232.845	-2.745	0.0021	0.560	1.259	4.004	26.00
74	A10-A9	59	15.44	718.07	59	150	232.812	233.500	233.156	-3.056	0.0060	0.354	0.482	3.538	26.46
75	A9-A19	47	12.30	274.25	47	100	233.500	233.500	233.500	-3.400	0.0073	0.341	0.824	4.224	25.78
76	A19-A18	49	12.82	248.63	49	100	232.812	232.775	232.794	-2.694	0.0061	0.297	1.121	3.814	26.19
77	A18-A17	59	15.44	32.17	59	100	232.775	233.000	232.888	-2.787	0.0001	0.008	1.129	3.916	26.08
78	A18-A21	114	29.84	189.74	114	100	233.000	233.900	233.450	-3.350	0.0037	0.419	1.539	4.889	25.11
79	A21-A22	45	11.78	127.58	45	100	232.878	233.500	233.189	-3.089	0.0018	0.079	1.618	4.707	25.29
80	A22-A5	189	49.46	103.05	189	100	233.500	233.750	233.625	-3.525	0.0012	0.224	1.842	5.367	24.63
81	A9-A8	73	19.11	411.65	73	150	233.750	233.750	233.750	-3.650	0.0021	0.156	0.638	4.288	25.71
82	A8-A3	139	36.38	98.69	139	100	232.950	233.015	232.983	-2.882	0.0011	0.152	0.791	3.673	26.33
83	A3-A2	42	10.99	22.90	42	100	233.015	233.650	233.333	-3.232	0.0001	0.003	0.794	4.026	25.97
84	A8-A7	43	11.25	273.16	43	100	232.918	233.550	233.234	-3.134	0.0072	0.310	0.909	4.083	25.92
85	A7-A20	47	12.30	114.50	47	100	233.550	233.750	233.650	-3.550	0.0014	0.068	1.006	4.566	25.43
86	A20-A19	114	29.84	62.16	114	100	233.550	233.400	233.475	-3.375	0.0005	0.053	1.069	4.444	25.56
87	A20-A21	49	12.82	26.72	49	100	233.750	233.840	233.795	-3.695	0.0001	0.005	1.001	4.716	25.28
88	A7-A4	93	24.34	135.22	93	100	233.840	233.800	233.820	-3.720	0.0020	0.182	1.131	4.851	25.15
89	A4-A5	45	11.78	40.89	45	100	233.840	233.700	233.770	-3.670	0.0002	0.010	1.141	4.811	25.19
90	A5-A6	30	7.85	16.36	30	100	233.700	233.650	233.675	-3.575	0.0000	0.001	1.142	4.717	25.28
91	A4-A2	46	12.04	43.62	46	100	0.000	233.750	116.875	113.225	0.0002	0.011	1.142	-112.083	142.08
92	A2-A1	34	8.90	18.54	34	100	233.750	233.800	233.775	-3.675	0.0000	0.002	1.144	4.819	25.18
	Total	2006	525.00												
					2006										
	Grand Total	7927			7927										
					7927										

Appurtenances of Water Supply

Length of Pipe Line					Sluice Valves	Sluice Valves	Sluice Valves	Sluice Valves	Scour Valve Valves	Scour Valve Valves	Air Valves	Fire Hydrants
100 mm	150 mm	200 mm	250 mm	300 mm	100 mm	150 mm	200 mm	250 mm	100mm	150 mm	100 mm	
M	M	M	M	M	No.	No.	No.	No.	No.	No.	No.	No.
	0											
0	22	0	0	0		1						
28	0	0	0	0		0				1		
0	122	0	0	0		1						
128	0	0	0	0		1						
47	0	0	0	0								
147	0	0	0	0		0						
0	147	0	0	0								
128	0	0	0	0		1						
47	0	0	0	0		0						
170	0	0	0	0		0						
243	0	0	0	0								
47	0	0	0	0		1				1		
203	0	0	0	0		1						
115	0	0	0	0								
170	0	0	0	0		1						
203	0	0	0	0		1						
1676 1809	424 291	0	0	0	0	8	0	0	0	2	0	0
0	0	33	0	0		0						
52	0	0	0	0		1						
189	0	0	0	0		1						
189	0	0	0	0		1						
52	0	0	0	0		1						
66	0	0	0	0		0				1		
0	0	66	0	0								
0	189	0	0	0								
51	0	0	0	0	1							
154	0	0	0	0		0				1		
26	0	0	0	0								
51	0	0	0	0			1					
196	0	0	0	0	1							

Appurtanances of Water Supply

Length of Pipe Line					Sluice Valves	Sluice Valves	Sluice Valves	Sluice Valves	Scour Valve Valves	Scour Valve Valves	Air Valves	Fire Hydrants
100 mm	150 mm	200 mm	250 mm	300 mm	100 mm	150 mm	200 mm	250 mm	100mm	150 mm	100 mm	
0	0	51	0	0								
0	116	0	0	0			1					
49	0	0	0	0								
49	0	0	0	0	1							1
49	0	0	0	0								
49	0	0	0	0								
0	39	0	0	0								
50	0	0	0	0	1							
89	0	0	0	0	1							
95	0	0	0	0	1							
89	0	0	0	0	0							
50	0	0	0	0	1							
34	0	0	0	0	1							
55	0	0	0	0	1							
50	0	0	0	0	1							
95	0	0	0	0	1							
50	0	0	0	0		0						
50	0	0	0	0	1							
196	0	0	0	0								
0	49	0	0	0								
116	0	0	0	0		0						
0	49	0	0	0	1							
116	0	0	0	0	0							
0	49	0	0	0	1							
116	0	0	0	0	0							
49	0	0	0	0								
49	0	0	0	0								
116	0	0	0	0	0							
39	0	0	0	0								
50	0	0	0	0	0						1	
31	0	0	0	0	1							
39	0	0	0	0								
50	0	0	0	0	0							
49	0	0	0	0								
185	0	0	0	0	1							
3180	491	150	0	0	16	4	2	0	0	2	1	1

Appurtenances of Water Supply

Length of Pipe Line					Sluice Valves	Sluice Valves	Sluice Valves	Sluice Valves	Scour Valve Valves	Scour Valve Valves	Air Valves	Fire Hydrants
100 mm	150 mm	200 mm	250 mm	300 mm	100 mm	150 mm	200 mm	250 mm	100mm	150 mm	100 mm	
0	0	48	0	0	0							
48	0	0	0	0	0							
86	0	0	0	0	0							
0	0	86	0	0		1						
0	0	48	0	0								
0	0	38	0	0								
26	0	0	0	0								
0	0	269	0	0								
0	59	0	0	0								
47	0	0	0	0								
49	0	0	0	0	1	1						
59	0	0	0	0								
114	0	0	0	0								
45	0	0	0	0								
189	0	0	0	0								
0	73	0	0	0								
139	0	0	0	0								
42	0	0	0	0	1	1						1
43	0	0	0	0	1							
47	0	0	0	0								
114	0	0	0	0	1		0					
49	0	0	0	0							1	
93	0	0	0	0							1	
45	0	0	0	0	1	1						
30	0	0	0	0								
46	0	0	0	0								
34	0	0	0	0							1	
1345	132	529	0	0	5	4	0	0	0	0	3	1
6201	1047	679	0	0	21	16	2	0	0	4	4	2
6534	914											

For PROMINENT ENTERPRISES PVT. LTD.

[Signature]
Authorised Signatory



Design Statement for Storm Water

Design Statement of Storm Water

Sr. No	Line No.	Road Width	Length of Storm Line	Area	Cumulative Area	Size of Pipe	Area	Gradient	Velocity	Flow	Length	Fall	Formation Level		Formation Level		Invert Level		Depth		Avg. Depth
		M	M	Acres	Acres	mm	M ²		M/sec	Cu.m.	M	M	Upper end	Lower end	Upper end	Lower end	Upper end	Lower end	Upper end	Lower end	Avg
		INDUSTRIAL PLOTTED COLONY M10 & M9 STORM			106.6625									M	M	M	M	M	M	M	M
													0.01	0.01	0.01	0.01					
1	A63-A62	12	30	0.41	0.414	450	0.16	300	1.22	700.415	29	0.10	230.590	230.490	230.600	230.500	229.19	229.99	1.40	1.40	1.40
2	A62-A61	12	159	2.27	2.6862	450	0.16	1000	0.67	383.633	159	0.16	230.490	231.090	230.500	231.100	229.09	228.93	1.40	2.16	1.78
3	A66-A61	12	17	0.24	0.2429	450	0.16	1000	0.67	383.633	17	0.02	230.250	231.090	230.250	231.100	228.85	228.43	1.40	2.26	1.83
4	A61-A60	18	97	1.39	4.315080	450	0.16	1000	0.67	383.633	97	0.10	231.090	230.850	231.100	230.850	228.83	228.74	2.26	2.11	2.19
5	A59-A60	18	138	1.97	1.9718	450	0.16	800	0.75	428.915	138	0.17	230.815	230.850	230.700	230.850	229.45	229.38	1.37	1.57	1.47
6	A60-A64	18	128	1.83	8.115780	450	0.16	800	0.75	428.915	128	0.16	230.850	230.615	230.850	230.500	228.74	228.38	2.11	2.04	2.08
7	A67-A64	18	138	1.97	1.9718	450	0.16	800	0.75	428.915	138	0.17	230.515	230.615	230.400	230.500	229.22	229.94	1.30	1.57	1.44
8	A64-A65 Outfall i	18	60	0.86	10.944873	450	0.16	800	0.75	428.915	60	0.08	230.615	230.465	230.500	230.350	228.58	228.50	2.04	1.96	2.00
9	A2-A3	12	30	0.43	0.4287	450	0.16	800	0.75	428.915	30	0.04	233.640	233.690	233.650	233.700	232.24	232.70	1.40	1.49	1.44
10	A3-A8	12	139	1.99	2.4147	450	0.16	800	0.75	428.915	139	0.17	233.690	233.830	233.700	233.840	232.20	232.33	1.49	1.80	1.64
11	A7-A8	12	30	0.43	0.4287	450	0.16	800	0.75	428.915	30	0.04	233.790	233.830	233.800	233.840	232.39	232.35	1.40	1.48	1.44
12	A8-A10	12	132	1.89	4.72944	450	0.16	800	0.75	428.915	132	0.17	233.830	233.750	233.840	233.750	232.03	231.56	1.80	1.89	1.84
13	A10-A11	12	48	0.69	5.4153	450	0.16	300	1.22	700.415	48	0.16	233.750	233.490	233.750	233.500	231.86	231.70	1.89	1.79	1.84
14	A12-A11	12	74	1.06	1.0573	450	0.16	800	0.75	428.915	74	0.09	233.490	233.490	233.500	233.500	232.09	232.30	1.40	1.49	1.45
15	A11-A17	12	39.57	0.56	7.02987	450	0.16	150	1.73	990.536	39	0.26	233.490	232.868	233.500	232.878	231.70	231.44	1.79	1.42	1.61
16	A17-A17	24	35	0.50	0.5001	450	0.16	300	1.22	700.415	35	0.12	233.535	233.013	233.400	232.878	232.14	232.32	1.40	0.99	1.20
17	A17-A13	24	85	1.21	8.74447	450	0.16	800	0.75	428.915	85	0.11	233.013	232.947	232.775	232.812	231.44	231.34	1.57	1.61	1.59
18	A12-A13	12	39.57	0.56	0.5572	450	0.16	130	1.86	1064.007	39	0.30	233.490	232.802	233.500	232.812	231.69	231.39	1.80	1.41	1.61
19	A13-A14	24	47	0.67	9.9733	450	0.16	800	0.75	428.915	47	0.06	232.947	232.910	232.812	232.775	231.34	231.28	1.61	1.63	1.62
20	A15-A14	24	7	0.10	0.1000	450	0.16	120	1.93	1107.453	7	0.06	233.135	232.910	233.000	232.775	231.54	231.48	1.60	1.43	1.52
21	A16-A14	24	270	3.86	3.8579	450	0.16	240	1.37	783.088	270	1.13	234.035	232.910	233.900	232.775	232.64	231.51	1.40	1.40	1.40
22	A14-A14	24	19	0.27	1.2201	450	0.16	800	0.75	428.915	19	0.02	232.910	232.910	232.775	232.775	231.48	231.48	1.43	1.46	1.45

23	A'14-A'31	24	62	0.89	15.09	450	0.16	300	1.22	700.415	62	0.21	232.910	232.635	232.775	232.500	231.28	231.07	1.63	1.56	1.60
24	A'29-A'31	12	152	2.17	2.17183	450	0.16	700	0.80	458.529	152	0.22	232.290	232.490	232.3	232.500	230.89	230.67	1.40	1.82	1.61
25	A'31-A'31	12	13	0.19	17.446	500 450	0.16	700 450	1.22	700.415	13	0.04	232.490	232.300	232.500	232.300	230.67	230.63	1.82	1.67	1.74
26	A31-A32	24	49	0.70	18.15	500 450	0.16	750 450	1.22	700.415	49	0.16	232.300	232.253	232.300	232.118	230.63	230.47	1.67	1.79	1.73
27	A33-A32	12	116	1.66	1.6574	450	0.16	800	0.75	428.915	116	0.15	232.233	232.253	232.243	232.118	230.83	230.39	1.40	1.57	1.48
28	A32-A36	24	49	0.70	20.504	500 450	0.16	750 450	1.22	700.415	49	0.16	232.253	232.135	232.118	232.000	230.47	230.30	1.79	1.83	1.81
29	A38-A36	12	116	1.66	1.6574	450	0.16	300	1.22	700.415	116	0.39	232.125	231.990	232.125	232.000	230.73	230.34	1.40	1.65	1.53
30	A36-A37	24	49	0.70	22.861	450 600	0.16	800 950	0.75	428.915	49	0.06	231.990	232.011	232.000	231.876	230.30	230.24	1.69	1.77	1.73
31	A39-A37	12	116	1.66	1.6574	450	0.16	800	0.75	428.915	116	0.15	231.866	231.866	231.876	231.876	230.47	230.32	1.40	1.55	1.47
32	A37-A42	24	49	0.70	25.219	450 600	0.16	800 950	0.75	428.915	49	0.06	231.866	231.830	231.876	231.695	230.24	230.18	1.62	1.65	1.64
33	A30-A43	12	189	2.70	2.7005	450	0.16	300	1.22	700.415	189	0.63	232.415	231.814	232.425	231.824	231.02	230.39	1.40	1.43	1.41
34	A'29-A34	12	42	0.60	0.6001	450	0.16	150	1.73	990.536	42	0.28	232.490	232.233	232.500	232.243	231.09	230.81	1.40	1.42	1.41
35	A34-A35	12	78	1.11	1.1145	450	0.16	800	0.75	428.915	78	0.10	232.305	232.233	232.315	232.243	230.91	230.81	1.40	1.43	1.41
36	A34-A40	12	95	1.36	3.07	450	0.16	400	1.06	606.577	95	0.24	232.233	231.990	232.243	232.000	230.81	230.57	1.43	1.42	1.42
36	A41-A40	12	78	1.11	1.1145	450	0.16	800	0.75	428.915	78	0.10	232.060	231.990	232.070	232.000	230.66	230.56	1.40	1.43	1.41
37	A40-A44	12	50	0.71	4.9009	450	0.16	500	0.95	542.539	50	0.10	231.990	231.865	232.000	231.875	230.56	230.46	1.43	1.40	1.42
				0.00														0.10			
38	A'45-A44	12	22	0.31	0.3143	450	0.16	800	0.75	428.915	22	0.03	231.815	231.865	231.825	231.875	230.42	230.39	1.40	1.48	1.44
39	A44-A43	12	58	0.83	6.044	450	0.16	800	0.75	428.915	58	0.07	231.865	231.814	231.875	231.824	230.39	230.32	1.48	1.50	1.49
40	A43-A42	12	119	1.70	10.445	450	0.16	800	0.75	428.915	119	0.15	231.814	231.685	231.824	231.695	230.32	230.17	1.50	1.52	1.51
41	A42-A52	24	51	0.73	36.3924	700 450	0.16	800 450	0.75	542.539	51	0.10	231.685	231.645	231.695	231.510	230.17	230.06	1.52	1.58	1.55
42	A'51-A52	12	195	2.79	2.7862	450	0.16	800	0.75	428.915	195	0.24	231.690	231.645	231.700	231.510	230.29	230.05	1.40	1.60	1.50
43	A52-A53	24	72	1.03	40.21	700 450	0.16	800 450	0.75	495.268	72	0.12	231.645	231.340	231.510	231.340	230.05	229.93	1.60	1.41	1.51
44	A54-A53	12	207	2.96	2.9577	450	0.16	800	0.75	428.915	207	0.26	231.490	231.330	231.500	231.340	229.93	229.67	1.56	1.66	1.61
45	A53-A57	24	42	0.60	43.77	700 450	0.16	800 450	0.75	542.539	42	0.08	231.330	231.285	231.340	231.150	229.67	229.58	1.66	1.70	1.68
46	A56-A57	24	168	2.40	2.4004	450	0.16	800	0.75	428.915	168	0.21	231.385	231.285	231.250	231.150	229.58	229.37	1.80	1.91	1.86
47	A57-A'59	24	119	1.70	47.87	450 800	0.16	800 1100	0.75	428.915	119	0.15	231.285	230.700	231.150	230.700	229.37	229.22	1.91	1.48	1.69
48	A'59-A67	24	128	1.83	49.6949	450 800	0.16	800 1100	0.75	606.577	128	0.32	230.815	230.535	230.700	230.400	229.27	229.90	1.59	1.63	1.61

49	A67-A68Outfall 2	24	61	0.87	50.5665	450 800	0.16	800 1100	0.89	428.915	61	0.08	230.515	230.300	230.400	230.300	228.90	228.83	1.61	1.47	1.54
																			1.91	1.91	1.91
50	A1-A4	12	88	1.26	1.257	450	0.16	800	0.75	428.915	88	0.11	233.590	233.690	233.600	233.700	232.19	232.08	1.40	1.61	1.51
51	A4-A4	12	30	0.43	0.429	450	0.16	600	0.86	495.268	30	0.05	233.690	233.690	233.700	233.700	232.29	232.34	1.40	1.45	1.43
52	A4-A20	12	140	2.00	3.686	450	0.16	450	1.00	571.886	140	0.31	233.690	233.390	233.700	233.400	232.24	231.93	1.45	1.46	1.46
53	A19-A20	12	117	1.67	1.6717	450	0.16	800	0.75	428.915	117	0.15	233.540	233.390	233.550	233.400	232.14	231.99	1.40	1.40	1.40
54	A20-A21	12	39 50	0.56	5.915	450	0.16	800	0.75	428.915	39	0.05	233.390	233.005	233.400	233.015	231.93	231.38	1.46	1.12	1.29
55	A9-A18	12	80 99	1.14	1.1431	450	0.16	120	1.93	1107.453	80	0.67	233.740	232.908	233.750	232.918	232.14	231.47	1.60	1.43	1.52
56	A21-A18	24	125 134	1.79	2.929	450	0.16	800	0.75	428.915	125	0.16	232.908	233.150	232.918	233.015	231.47	231.32	1.43	1.83	1.63
57	A22-A21	24	45	0.64	9.487	450	0.16	200	1.50	857.830	45	0.23	233.150	232.635	233.015	232.500	231.32	231.09	1.83	1.54	1.69
	A5-A6	12	16	0.23	0.229	450	0.16	200	1.50	857.830	16	0.08	233.790	233.740	233.800	233.750	232.39	232.31	1.40	1.43	1.42
58	A5-A22	12	173	2.47	2.700	450	0.16	200	1.50	857.830	173	0.87	233.740	232.490	233.750	232.500	231.94	231.78	1.80	1.42	1.61
59	A23-A22	24	19	0.27	12.46	450	0.16	1000	0.67	383.633	19	0.02	232.385	232.490	232.250	232.500	230.99	230.37	1.40	1.52	1.46
60	A22-A49	12	309	4.42	16.875	500 450	0.16	700	0.77	428.915	309	0.39	232.490	231.840	232.500	231.850	230.97	230.58	1.52	1.26	1.39
61	A50-A49	12	15	0.21	0.214	450	0.16	300	1.22	700.415	15	0.05	231.890	231.840	231.900	231.850	230.49	230.44	1.40	1.40	1.40
62	A49-A51	12	154	2.20	19.289	450 500	0.16	700	0.77	428.915	154	0.19	231.840	231.690	231.850	231.700	230.44	230.25	1.40	1.44	1.42
63	A27-A28	12	42	0.60	0.60011	450	0.16	100	2.12	1213.154	42	0.42	232.940	232.525	232.950	232.535	231.54	231.12	1.40	1.41	1.40
64	A29-A28	12	42	0.60	0.600	450	0.16	800	0.75	428.915	42	0.05	232.490	232.525	232.500	232.535	231.09	231.04	1.40	1.49	1.44
65	A28-A26	12	39	0.56	1.757	450	0.16	800	0.75	428.915	39	0.05	232.525	232.565	232.535	232.575	231.04	230.99	1.49	1.58	1.53
66	A24-A26	12	88	1.26	1.2574	450	0.16	800	0.75	428.915	88	0.11	232.690	232.565	232.700	232.575	231.29	231.18	1.40	1.39	1.39
67	A26-A46	12	196	2.80	5.815	450	0.16	400	1.06	606.577	196	0.49	232.565	231.995	232.575	231.995	230.99	230.50	1.58	1.50	1.54
68	A25-A47	12	189	2.70	2.700	450	0.16	350	1.13	648.458	189	0.54	232.565	232.055	232.575	232.065	231.17	230.63	1.40	1.43	1.42
69	A48-A47	12	38	0.54	0.5430	450	0.16	500	0.95	542.539	38	0.08	232.125	232.055	232.135	232.065	230.73	230.65	1.40	1.41	1.40
70	A47-A46	12	50	0.71	1.958	450	0.16	800	0.75	428.915	50	0.06	232.055	231.995	232.065	231.995	230.63	230.56	1.43	1.43	1.43

71	A46-A45	12	55	0.79	10.56	450	0.16	600	0.86	495.268	55	0.09	231.995	231.815	231.995	231.825	230.50	230.41	1.50	1.41	1.45
72	A45-A51	12	51	0.73	11.2878	450	0.16	400	1.06	606.577	51	0.13	231.815	231.690	231.825	231.700	230.41	230.28	1.41	1.41	1.41
73	A51-A55	12	109	1.56	32.134	450 700	0.16	800 800	1.34	767.266	109	0.44	231.690	231.265	231.700	231.275	230.25	229.31	1.44	1.45	1.45
74	A58-A55	12	174	2.49	2.486	450	0.16	800	0.75	428.915	174	0.22	231.340	231.265	231.350	231.275	229.94	229.72	1.40	1.54	1.47
75	A55-A'56	12	45	0.64	35.2636	450 700	0.16	800	0.75	428.915	45	0.06	231.265	231.240	231.275	231.250	229.72	229.57	1.54	1.57	1.56
76	A'56-A69	18	247	3.53	38.793	450 700	0.16	800 800	1.34	767.266	247	0.99	231.240	230.215	231.250	230.100	229.67	228.58	1.57	1.54	1.56
77	A'67-A69	18	153	2.19	2.186	450	0.16	500	0.95	542.539	153	0.31	230.515	230.215	230.400	230.100	229.12	228.31	1.40	1.41	1.40
78	A69-A70 OUTFALL3	18	74	1.06	39.850196	450 700	0.16	800	0.75	428.915	74	0.09	230.215	230.115	230.100	230.000	228.68	228.59	1.54	1.53	1.53
79	A70 OUTFALL3-A71	18	218	3.11	45.1512	450 700	0.16	800	0.75	428.915	218	0.27	230.115	230.365	230.000	230.250	228.59	228.31	1.53	2.05	1.79
	Total		7465 7570	106.6625	106.66250						7465 7570								1.83	2.05	

RCC PIPE NP3

450mm ϕ = 5730 ml
 500mm ϕ = 574 ml
 600mm ϕ = 98 ml
 700mm ϕ = 260 ml
 800mm ϕ = 302 ml



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