

Total Water Requirement M10 & M9			
2.910	Boosting Machinery for domestic water For UGT Total Water Requirement	Industrial Area	
2.911	Boosting Machinery for domestic water For UGT Total Water Requirement	397	KL
2.912	Gross Working head	For UGT	
2.913	Suction lift	5.00	mtr.
2.914	Friction loss in main & specials	10.00	mtr.
2.915	clear Head required	30.00	mtr.
2.916	Total	45.00	mtr.
2.917	Say	45.00	mtr.
2.918	Pump H.P.		
2.919	Provide 2 Nos. Pump to meet total demand 10 LPS with 45 Mtr. Head 10 BHP		
2.92	Provide 1 Pump to meet total demand 3 LPS with 45 Mtr. Head, 6 BHP		
2.921	Provide 1 Pump 10 LPS with 45 Mtr. Head, 10 BHP		
2.922	Boosting Machinery for domestic water For UGT Total Water Requirement	Residential Area	
2.923	Boosting Machinery for domestic water For UGT Total Water Requirement	1390	
2.924	Provide 1 pumps to meet total demand 10 LPS with 45 Mtr. Head 10 BHP		
2.925	Provide 2 pumps to meet Peak demand 20 LPS with 45 Mtr. Head, 20 BHP		
2.926	Provide 1 pumps stand bye 30 LPS with 45 Mtr., Head, 30 BHP		
2.927			
2.928		Industrial Area	
2.929	Boosting Machinery for Flushing Water at STP	601	
2.93	Gross Working head	For UGT	
2.931	Suction lift	5.00	mtr.
2.932	Friction loss in main & specials	10.00	mtr.
2.933	clear Head required	30.00	mtr.
2.934	Total	45.00	mtr.
2.935	Say	45.00	mtr.
2.936	Pump H.P.		
2.937	Provide 27 Nos. Pump to meet total demand 18 LPS with 45 Mtr. Head 10 BHP		
2.938	Provide 1 Pump to meet total demand 3 LPS with 45 Mtr. Head, 6 BHP		
2.939	Provide 1 Pump 10 LPS with 45 Mtr. Head, 10 BHP		
2.94			
2.941		Residential Area	
2.942	Boosting Machinery for Flushing Water at STP	903	
2.943	Provide 1 pumps to meet total demand 10 LPS with 45 Mtr. Head 10 BHP		
2.944	Provide 2 pumps to meet Peak demand 20 LPS with 45 Mtr. Head, 20 BHP		
2.945	Provide 1 pumps stand bye 30 LPS with 45 Mtr., Head, 30 BHP		
3.010	DG Set Requirement	for UGT	Industrial Area
3.011	Power Backup		
3.012	No. of pumps to run simultaneously	1.00	1.00
3.013	BHP of Two pumps	10.00	5.00
3.014	kw	7.46	3.73
3.015	kw	9.33	4.66
3.016	Current	16.95	8.48
3.017	Initial Current	42.39	21.19
3.018	kw	18.65	9.33
3.019	Capacity of Generator Required	20.00	10.00
3.02	Capacity of Generator provided	Providing Generating Set of 30 kw Capacity	
3.021			
3.022	DG Set Requirement	for UGT	Residential Area
3.023	Power Backup		
3.024	No. of pumps to run simultaneously	1.00	1.00
3.025	BHP of Two pumps	10.00	20.00
3.026	kw	7.46	14.92
3.027	kw	9.33	18.65
3.028	Current	16.95	33.91
3.029	Initial Current	42.39	84.77
3.03	kw	18.65	37.30
3.031	Capacity of Generator Required	20.00	10.00
3.032	Capacity of Generator provided	Providing Generating Set of 25 kw Capacity	
3.110	Flow to CETP	Industrial Area	
3.111	Capacity of CETP is Calculated as above =	400	
3.112		Say 400	KL
3.113	Flow to CETP	Industrial Area	
3.114	Capacity of CETP is Calculated as above =	1795	KL
		Say 2000	KL

$$397/6 \times 2 = 33.08 \text{ KWH}$$

or
9.18 LPS
600 LPM

$$1390/6 \times 2 = 115.83 \text{ KWH or}$$

$$1930.15$$

$$1930 \times 45 = 86850 \text{ kWh}$$

$$6 \times 25 \times 10 = 1500$$

Say 1950 LPS
Sag 3588

$$850 \times 45 = 38250 \text{ kWh}$$

$$6 \times 25 \times 10 = 1500$$

14.16 KWH
Sag 15.018

$$903/6 \times 2 = 75.25 \text{ KWH or}$$

1254.16 LPM
Sag 1260 LPS

$$1260 \times 45 = 56700 \text{ kWh}$$

$$6 \times 25 \times 10 = 1500$$

Sag 25.018

For PROMINENT ENTERPRISES PVT. LTD.

Authorized Signatory



1.9	ESTIMATION OF POPULATION AND WATER DEMAND												
1.9001	Estimation of Population in areas of various land use has been summarised below,												
1.9002	Area under Plots	Total Area			Norms of Users based on NBC & Manual of Water Supply, HSIIDC Norms & Details in Development plan	Habitation	Working Population	Floating Population	Water Allowance	Habitation	Working Population	Floating Population	Total Water Demand
1.9003		Sqm.		Acres		Nos.	Nos.	Nos.	L/ Acre	Litre per Capita	Litre per Capita	Litre per Capita	L.
1.9004	Area under Industrial Plots	147780		36.52									
1.9005	Work Area of Service Industry	17458		4.31	11.81%				15000				64710.16077
1.9006	Work Area of Light Industry	12468		3.08	8.44%				20000				61629.9181
1.9007	Work Area of Extensive Industry	50813		12.56	34.38%				25000				312903.9158
1.9008	Work Area of Big Industry	7929		1.96	5.37%				20000				39184.53487
1.9009	Circulation Area	29556		7.30	20%				5000				26517.4
1.9010	Open & Green Area within Plot	29556		7.30	20%				25000				182507
1.9011	Working Population				Working Population @ 30 persons per acre & Floating Population @ 70 persons per acre		1096.00				45	15	49320
1.9012	Floating Population												38340
1.9013	Total Water Demand												
1.9014	Area under Affordable Residential Plotted Colony under DDJAY	117248		28.97									
1.9015	Work Area	46899		11.59	40%				0				0
1.9016	Circulation Area	46899		11.59	40%				0				0
1.9017	Open & Green Area within Plot	23450		5.79	20%				25000				144864
1.9018	Habitation				15.50 persons per plot	11408.00				172.5			1967800
1.9019	Floating Population										15		8550
1.9020	Area under Commercial	1976		0.49									
1.9021	Work Area	1186		0.29	60%				25000				4755
1.9022	Circulation Area	395		0.10	20%				5000				488.4
1.9023	Open & Green Area within Plot	395		0.10	20%				25000				2442
1.9024	Working Population				1 person per 20 sqm area for working population						45		4455
1.9025	Visiting Population											15	3000
1.9026	Area under Electric Sub Station	1408		0.35									
1.9027	Work Area	422		0.10	30%				25000.00				2414
1.9028	Circulation Area	704		0.17	50%				2500				434.875
1.9029	Open & Green Area within Plot	282		0.07	20%				20000				1391.6
1.9030	Working Population				1 person per 400sqm area & 5% visiting users						45		180
1.9031	Visiting Population							1.00				15	15
1.9032	Area Under Ground Tank & Water Treatment Plant	562		0.14									
1.9033	Work Area	160		0.04	30%				10000				356

1.9	ESTIMATION OF POPULATION AND WATER DEMAND													
1.9001	Estimation of Population in areas of various land use has been summarised below,													
1.9002	Area under Plots	Total Area			Norms of Users based on NBC & Manual of Water Supply , HSHDC Norms & Details in Development plan		Habitation	Working Population	Floating Population	Water Allowance	Habitation	Working Population	Floating Population	Total Water Demand
1.9003		Sqm.		Acre			Nos.	Nos.	Nos.	L/ Acre	Litre per Capita	Litre per Capita	Litre per Capita	L
1.9034	Circulation Area	281		0.07	50%					2500				173.5
1.9035	Open& Green Area within Plot	112		0.03	20%					20000				555.2
1.9036	Working Population			-	1person per 400sqm area & 5% visiting users							45		45
1.9037	Visiting Population												15	15
1.9038	Area under Community Site	19318		4.77										
1.9039	Work Area	9659		2.39	50%					19000				1759
1.9040	Circulation Area	5795		1.43	30%					2500				3580.275
1.9041	Open& Green Area within Plot	3864		0.95	20%					20000				19094.8
1.9042	Working Population			-	1 person per 40 sqm area for working population							45		21735
1.9043	Visiting Population												15	375
1.9044	Area under WTP	813		0.20										
1.9045	Work Area	244		0.06	30%					25000				1401
1.9046	Circulation Area	406		0.10	50%					2500				251
1.9047	Open& Green Area within Plot	163		0.04	20%					20000				803.2
1.9048	Working Population			-	1person per 400 sqm area & 5%personsvisiting users			2.00				45		90
1.9049	Visiting Population								1.00				15	15
1.9050	Area under UD	17146		4.24										
1.9051	Work Area	10288		2.54	60%					25000				4258
1.9052	Circulation Area	3429		0.85	20%					5000				4237
1.9053	Other ,Open& Green Area	3429		0.85	20%					25000				21185
1.9054	Habitation				100.00	Persons /Acre		423.70				135		57199.5
1.9055	Visiting Population								140				15	2097.315
1.9056	Area under Roads In Residential Area	44517		11.00						5000				55003
1.9057	Area under Roads In Industrial Area	66456		16.42						5000	For PROMINENT ENTERPRISES PVT. LTD.			82109
1.9058	Area under Green Belt	14420		3.56						25000	Authorised Signatory			89085
1.9059	Total	431644		106.6625			11408	5234.7	367.821					3292476.43
1.9060	Total Water Demand in KL	=												3292

For PROMINENT ENTERPRISES PVT. LTD.

Authorized Signatory



2.000	Water Management Plan														
2.001	Area under Plots	Water Allowance	Total Water Demand of Population & Floating Population		Total Water Demand from Industrial/ Institutional Commercial & other areas	Water Allowance for Habitation in Area		Water Allowance for Industrial/ Institutional Commercial & other areas		Fresh Water Demand for Habitation in Area	Fresh Water Demand for Industrial/ Institutional Commercial & other areas	Recycled Water Demand for Habitation in Area	Recycled Water Demand for Industrial/ Institutional Commercial & other areas	Estimated Waste Water Demand for Habitation in Area	Estimated Waste Water Demand for Industrial/ Institutional Commercial & other areas
2.002						Fresh Water Demand	Recycled Water Demand	Fresh Water Demand	Recycled Water Demand	Fresh Water Demand	Fresh Water Demand	Recycled Water Demand	Recycled Water Demand		
2.003		L/ Capita	L		L	L/ Capital	L/ Capital	%	%	L	L	L	L		
	Area under Industrial Use Pocket C														
2.004	Area under Industrial Plots		0												
2.005	Work Area of Service Industry		64710		64710			67%	33%		43356		21354		56039
2.006	Work Area of Light Industry		61621		61621			67%	33%		41296		20335		53364
2.007	Work Area of Extensive Industry		313904		313904			67%	33%		210316		103588		271841
2.008	Work Area of Bio Industry		39185		39185			67%	33%		26254		12931		33934
2.009	Circulation Area		36517		36517			50%	50%		18259		18259		
2.01	Open& Green Area within Plot		182587		182587			0%	100%		0		182587		
2.011	Working Population	45	49320		49320	30	15				32880		16440	0	42744
2.012	Floating Population	15	38340		38340	10	5				25560		12780	0	33228
2.013	Area under Electric Sub Station		0		0						0		0		0
2.014	Work Area		2414		2414			67%	33%		1618		797		2091
2.015	Circulation Area		435		435			50%	50%		217		217		
2.016	Open& Green Area within Plot		1392		1392			0%	100%		0		1392		
2.017	Working Population	45	180		180	30	15				120		60		156
2.018	Visiting Population	15	15		15	15	5				15		5		17
2.019	Area Under Ground Tank & Water Treatment Plant		0		0								0		0
2.02	Work Area		356		356			67%	33%		239		118		309
2.021	Circulation Area		174		174			50%	50%		87		87		
2.022	Open& Green Area within Plot		555		555			0%	100%		0		555		
2.023	Working Population	45	45		45	30	15				30		15		39
2.024	Visiting Population	15	15		15	10	5				10		5		13
2.025	Area under WTP		0		0								0		0
2.026	Work Area		1401		1401			67%	33%		939		462		1213
2.027	Circulation Area		251		251			50%	50%		126		126		
2.028	Open& Green Area within Plot		803		803			0%	100%		0		803		
2.029	Working Population	45	90		90	30	15				60		30		78
2.03	Visiting Population	15	15		15	10	5				10		5		13
2.031	Area under Roads in Industrial Area														
2.032	Sub Total				794325						401379	0	392950	0	495078
2.033	Area under Affordable Residential Plotted Colony under DDJAY		0		0						0		0		0
2.034	Work Area		0		0			67%	33%	0		0		0	0
2.035	Circulation Area		0		0			50%	50%	0		0			0
2.036	Open& Green Area within Plot		144864		144864			67%	33%	97059		47815			0
2.037	Habitation	172.5	1967880		1967880	115.575	56.925			1318479.6	0	649406.4	0	1704184.08	0
2.038	Floating Population	45	8550		8550	45	0			8550	0	0	0	6840	0

2.000	Water Management Plan														
2.001	Area under Plots	Water Allowance	Total Water Demand of Population & Floating Population		Total Water Demand from Industrial/ Institutional Commercial & other areas	Water Allowance for Habitation in Area		Water Allowance for Industrial/ Institutional Commercial & other areas		Fresh Water Demand for Habitation in Area	Fresh Water Demand for Industrial/ Institutional Commercial & other areas	Recycled Water Demand for Habitation in Area	Recycled Water Demand for Industrial/ Institutional Commercial & other areas	Estimated Waste Water Demand for Habitation in Area	Estimated Waste Water Demand for Industrial/ Institutional Commercial & other areas
2.002						Fresh Water Demand	Recycled Water Demand	Fresh Water Demand	Recycled Water Demand	Fresh Water Demand	Fresh Water Demand	Recycled Water Demand	Recycled Water Demand		
2.003		L/ Capita	L		L	L/ Capital	L/ Capital	%	%	L	L	L	L		
2.039	Area under Commercial		0		0						0		0		0
2.04	Work Area		4755		4755			67%	33%		3186		1569		4118
2.041	Circulation Area		488		488			50%	50%		244		244		
2.042	Open& Green Area within Plot		2442		2442			0%	100%		0		2442		
2.043	Working Population	45	4455		4455	45	0				4455		0		3564
2.044	Visiting Population	15	3000		3000	15	0				3000		0		2400
2.045	Area under Community Site		0		0								0		0
2.046	Work Area		1759		1759			67%	33%		1178		580		1523
2.047	Circulation Area		3580		3580			50%	50%		1790		1790		
2.048	Open& Green Area within Plot		19095		19095			0%	100%		0		19095		
2.049	Working Population	45	21735		21735	45	0				21735		0		17388
2.05	Visiting Population	15	375		375	15	0				375		0		300
2.051	Area under UD		0		0								0		0
2.052	Work Area		4258		4258			67%	33%		2853		1405		3688
2.053	Circulation Area		4237		4237			50%	50%		2119		2119		
2.054	Other ,Open& Green Area		21185		21185			0%	100%		0		21185		
2.055	Habitation	135	57200		57200	135	0			57199.5			0		0
2.056	Visiting Population	15	2097		2097	15	0			2097.315			0		0
2.057	Area under Roads In Residential Area		55003		55003			0%	100%		0		55003		
2.058	Area under Roads In Industrial Area		82109		82109			0%	100%		0		82109		82109
2.059	Area under Green Belt		89085		89085			0%	100%		0		89085		
2.06	Total		3292476		2498151					1483385	40935	697206	276626	1711024	115089

For PROMINENT ENTERPRISES PVT. LTD

Authorized Signatory



Design Statement for Water Supply

Design Statement 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 Level with respect to WTP LEVEL	Head Loss per M	Total Head Loss	EX	Head Loss Progressive Considering Effect of Ground Level	Terminal Head
									Up Stream	DownStream	Average						
	Zone 1-	Mtr	KL	KL	KL	KL	M	MM	M	M	M	M	M	M	M	M	M
			794.3		794.3												30
1	WTP-1-A'69	10	3.6	790.68	794.3	1654.84	10	150		230.100	230.100	0.000	0.0281	0.281	0.281	0.281	29.72
2	A'69-A'70	41	14.9	75.79	90.7	189.02	41	150	230.100	230.000	230.050	0.050	0.0005	0.021	0.302	0.252	29.75
3	A'70-A'71	208	75.8	0.00	75.8	157.89	208	150	230.000	228.320	229.160	0.940	0.0004	0.075	0.377	-0.563	30.56
																0.000	30.00
4	A'69-A'69	29	10.6	689.39	700.0	1458.24	29	150	230.100	230.100	230.100	0.000	0.0223	0.645	0.927	0.927	29.07
								150								0.000	30.00
5	A'69-A'67	176	64.1	189.11	253.2	527.58	176	150	230.100	230.400	230.250	-0.150	0.0034	0.596	1.523	1.673	28.33
																0.000	30.00
6	A'67-A'68	61	22.2	0.00	22.2	46.31	61	150	230.100	230.300	230.350	-0.250	0.0000	0.002	1.525	1.775	28.23
7	A'67-A'64	141	51.4	68.87	120.2	250.50	141	150	230.100	230.500	230.450	-0.350	0.0009	0.120	1.643	1.993	28.01
8	A'64-A'65	61	22.2	0.00	22.2	46.31	61	150	230.500	230.350	230.425	-0.325	0.0000	0.002	1.645	1.970	28.03
9	A'64-A'60	128	46.6	0.00	46.6	97.17	128	150	230.500	230.850	230.675	-0.575	0.0001	0.019	1.662	2.237	27.76
																0.000	30.00
10	A'67-A'59	128	46.6	0.00	46.6	97.17	128	150	230.100	230.700	230.550	-0.450	0.0001	0.019	1.542	1.992	28.01
																0.000	30.00
11	A'69-A'56	227	82.7	353.44	436.2	908.65	227	150	230.100	231.250	230.675	-0.575	0.0093	2.104	3.030	3.605	26.39
																0.000	30.00
12	A'56-A'55	47	17.1	69.59	86.7	180.67	47	150	231.250	231.275	231.263	-1.162	0.0005	0.022	3.052	4.215	25.79
13	A'55-A'55	21	7.7	61.94	69.6	144.99	21	150	231.275	231.275	231.275	-1.175	0.0003	0.007	3.059	4.234	25.77
14	A'55-A'58	170	61.9	0.00	61.9	129.05	170	150	231.275	231.350	231.313	-1.213	0.0002	0.042	3.101	4.314	25.69
																0.000	30.00
15	A'56-A'57	176	64.1	202.59	266.7	555.66	176	150	231.250	231.150	231.200	-1.100	0.0037	0.656	3.686	4.786	25.21
16	A'59-A'57	99	36.1	166.52	202.6	422.06	99	150	231.150	230.700	230.925	-0.825	0.0022	0.222	3.908	4.733	25.27

17	A59-A60	141	51.4	115.14	166.5	346.91	141	150	230.700	230.850	230.775	-0.675	0.0016	0.220	4.128	4.803	25.20
18	A60-A61	98	35.7	79.43	115.1	239.88	98	150	230.850	231.100	230.975	-0.875	0.0008	0.077	4.205	5.080	24.92
20	A61-A62	157	57.2	13.85	71.1	148.03	157	150	231.100	230.500	230.800	-0.700	0.0003	0.051	4.256	4.956	25.04
21	A62-A63	38	13.8	0.00	13.8	28.85	38	150	230.500	230.600	230.550	-0.450	0.0000	0.001	4.256	4.706	25.29
19	A61-A66	23	8.4	0.00	8.4	17.46	23	150	231.100	230.250	230.675	-0.575	0.0000	0.000	4.205	4.780	25.22
		2180														0.000	30.00
			794.3													0.000	30.00
			2498.2													0.000	30.00
20	WW-2-A'41	20	8.56	2489.59	2498.2	5204.48	20	250	232.07	232.070	232.070	0.000	0.0195	0.390	0.390	0.390	29.61
21	A'41-A41	23	9.85	1300.24	1310.1	2729.34	23	200	232.070	232.070	232.070	0.000	0.0175	0.402	0.793	0.793	29.21
22	A41-A40	89	38.10	83.49	121.6	253.31	89	100	232.070	232.000	232.035	0.035	0.0063	0.558	1.351	1.316	28.68
23	A40-A44	50	21.41	0.00	21.4	44.60	50	100	232.000	231.875	231.938	0.132	0.0003	0.013	1.363	1.231	28.77
24	A40-A34	95	40.67	21.41	62.1	129.33	95	100	232.000	232.243	232.122	-0.052	0.0018	0.172	1.522	1.574	28.43
25	A34-A29	50	21.41	0.00	21.4	44.60	50	100	232.243	232.500	232.372	-0.302	0.0003	0.013	1.535	1.836	28.16
26	A41-A46	50	21.41	1157.24	1178.6	2455.52	50	200	232.070	231.995	232.033	0.037	0.0144	0.719	1.512	1.475	28.53
27	A46-A47	49	20.98	218.78	239.8	499.49	49	150	231.995	232.065	232.030	0.040	0.0031	0.150	1.662	1.622	28.38
28	A25-A47	196	83.91	0.00	83.9	174.82	196	100	232.065	232.650	232.358	-0.288	0.0032	0.618	2.280	2.568	27.43
29	A47-A48	49	20.98	113.88	134.9	280.96	49	100	232.065	232.135	232.100	-0.030	0.0076	0.372	2.034	2.064	27.94
30	A48-A24	196	83.91	0.00	83.9	174.82	196	100	232.135	232.700	232.418	-0.347	0.0032	0.618	2.653	3.000	27.00
31	A48-A49	51	21.83	8.13	30.0	62.44	51	100	232.135	231.850	231.993	0.077	0.0005	0.024	2.058	1.981	28.02
32	A49-A50	19	8.13	0.00	8.1	16.95	19	100	231.850	231.900	231.875	0.195	0.0000	0.001	2.059	1.864	28.14
33	A45-A46	55	23.55	893.94	917.5	1911.43	55	150	231.995	231.825	231.910	0.160	0.0367	1.020	3.532	3.372	26.63
34	A45-A51	51	21.83	438.84	460.7	959.73	51	150	231.825	231.700	231.763	0.308	0.0103	0.523	4.055	3.748	26.25
35	A51-A49	154	65.93	0.00	65.9	137.36	154	100	231.700	231.850	231.775	0.295	0.0020	0.311	4.366	4.071	25.93
36	A51-A52	212	90.76	31.25	122.0	254.20	212	100	231.700	231.510	231.605	0.465	0.0063	1.338	5.393	4.928	25.07
37	A52-A53	73	31.25	0.00	31.3	65.11	73	100	231.510	231.340	231.425	0.645	0.0005	0.037	5.430	4.785	25.21
38	A51-A54	66	28.26	222.63	250.9	522.68	66	100	231.700	231.500	231.600	0.470	0.0240	1.583	5.638	5.168	24.83
39	A54-A'54	41	17.55	205.08	222.6	463.81	41	100	231.500	231.275	231.388	0.683	0.0192	0.788	6.426	5.744	24.26
40	A'54-A'53	219	93.76	0.00	93.8	195.34	219	100	231.275	231.150	231.213	0.857	0.0039	0.849	7.275	6.417	23.58
41	A54-A53	219	93.76	17.55	111.3	231.90	219	100	231.500	231.340	231.420	0.650	0.0053	1.166	6.804	6.154	23.85
42	A53-A'53	41	17.55	0.00	17.6	36.57	41	100	231.340	231.150	231.245	0.825	0.0002	0.007	6.811	5.986	24.01

43	A45-A44	34	14.56	418.71	433.3	902.65	34	150	231.825	231.875	231.850	0.220	0.0092	0.311	3.844	3.624	26.38
44	A44-A43	59	25.26	393.45	418.7	872.32	59	150	231.875	231.824	231.850	0.220	0.0086	0.507	4.351	4.130	25.87
45	A43-A42	119	50.95	21.83	72.8	151.63	119	100	231.824	231.695	231.760	0.310	0.0024	0.288	4.639	4.329	25.67
46	A42-A52	51	21.83	0.00	21.8	45.49	51	100	231.695	231.510	231.603	0.468	0.0003	0.013	4.652	4.185	25.82
47	A43-A39	49	20.98	299.69	320.7	668.06	49	100	231.824	232.000	231.912	0.158	0.0378	1.851	6.202	6.044	23.96
48	A39-A37	119	50.95	20.98	71.9	149.85	119	100	232.000	231.876	231.938	0.132	0.0024	0.282	6.484	6.352	23.65
49	A42-A37	49	20.98	0.00	21.0	43.71	49	100	231.876	231.695	231.786	0.284	0.0002	0.012	6.496	6.211	23.79
50	A39-A38	49	20.98	206.79	227.8	474.51	49	100	232.000	232.125	232.063	0.007	0.0200	0.982	7.184	7.177	22.82
51	A38-A36	119	50.95	20.98	71.9	149.85	119	100	232.125	232.000	232.063	0.007	0.0024	0.282	7.466	7.459	22.54
52	A37-A36	49	20.98	0.00	21.0	43.71	49	100	232.000	231.876	231.938	0.132	0.0002	0.012	7.478	7.346	22.65
53	A38-A33	49	20.98	113.88	134.9	280.96	49	100	232.125	232.243	232.184	-0.114	0.0076	0.372	7.556	7.670	22.33
54	A33-A30	49	20.98	0.00	21.0	43.71	49	100	232.243	232.425	232.334	-0.264	0.0002	0.012	7.568	7.832	22.17
55	A33-A32	119	50.95	41.96	92.9	193.55	119	100	232.243	232.118	232.181	-0.111	0.0038	0.453	8.010	8.120	21.88
56	A36-A32	49	20.98	0.00	21.0	43.71	49	100	232.118	232.000	232.059	0.011	0.0002	0.012	8.022	8.011	21.99
57	A32-A31	49	20.98	0.00	21.0	43.71	49	100	232.118	232.300	232.209	-0.139	0.0002	0.012	8.022	8.161	21.84
58	A41-A35	72	30.83	1148.68	1179.5	2457.30	72	150	232.070	232.315	232.193	-0.123	0.0585	4.211	5.004	5.126	24.87
59	A35-A34	89	38.10	0.00	38.1	79.38	89	100	232.315	232.243	232.279	-0.209	0.0007	0.065	5.069	5.278	24.72
60	A35-A26	50	21.41	1089.17	1110.6	2313.70	50	150	232.315	232.575	232.445	-0.375	0.0523	2.616	7.620	7.995	22.01
61	A25-A26	49	20.98	39.39	60.4	125.76	49	100	232.575	232.650	232.613	-0.543	0.0017	0.084	7.704	8.246	21.75
62	A25-A24	49	20.98	18.41	39.4	82.06	49	100	232.650	232.700	232.675	-0.605	0.0008	0.038	7.742	8.347	21.65
63	A24-A22	43	18.41	0.00	18.4	38.35	43	100	232.700	232.500	232.600	-0.530	0.0002	0.008	7.750	8.280	21.72
64	A26-A28	39	16.70	1012.10	1028.8	2143.34	39	150	232.575	232.535	232.555	-0.485	0.0454	1.771	9.391	9.876	20.12
65	A28-A29	50	21.41	76.21	97.6	203.36	50	100	232.535	232.500	232.518	-0.447	0.0042	0.209	9.600	10.047	19.95
66	A29-A30	59	25.26	50.95	76.2	158.77	59	100	232.500	232.425	232.463	-0.393	0.0026	0.156	9.755	10.148	19.85
67	A30-A31	119	50.95	0.00	50.9	106.14	119	100	232.125	232.300	232.363	-0.293	0.0013	0.149	9.904	10.197	19.80
68	A27-A28	43	18.41	896.08	914.5	1905.19	43	150	232.335	232.950	232.743	-0.673	0.0365	1.570	10.961	11.633	18.37
69	A27-A18	42	17.98	559.14	577.1	1202.34	42	150	232.950	232.918	232.934	-0.864	0.0156	0.654	11.615	12.479	17.52
70	A18-A17	39	16.70	309.11	325.8	678.77	39	100	232.918	232.878	232.898	-0.828	0.0389	1.517	13.132	13.960	16.04

71	A17-A13	86	36.82	218.78	255.6	532.49	86	100	232.878	232.812	232.845	-0.775	0.0248	2.135	15.267	16.042	13.96
72	A13-A12	59	25.26	36.82	62.1	129.33	59	100	232.812	233.500	233.156	-1.086	0.0018	0.107	15.373	16.459	13.54
73	A11-A12	86	36.82	0.00	36.8	76.71	86	100	233.500	233.500	233.500	-1.430	0.0007	0.059	15.432	16.862	13.14
74	A13-A14	68	29.11	127.58	156.7	326.45	68	100	232.812	232.775	232.794	-0.724	0.0100	0.682	13.814	14.538	15.46
75	A14-A15	9	3.85	123.73	127.6	265.80	9	100	232.775	233.000	232.888	-0.817	0.0069	0.062	13.876	14.693	15.31
76	A14-A16	289	123.73	0.00	123.7	257.77	289	100	233.000	233.900	233.450	-1.380	0.0065	1.872	15.747	17.127	12.87
77	A17-A11	38	16.27	37.25	53.5	111.49	38	100	232.878	233.500	233.189	-1.119	0.0014	0.052	13.184	14.303	15.70
78	A11-A10	48	20.55	16.70	37.2	77.60	48	100	233.500	233.750	233.625	-1.555	0.0007	0.034	13.218	14.773	15.23
79	A9-A10	39	16.70	0.00	16.7	34.79	39	100	233.750	233.750	233.750	-1.680	0.0002	0.006	13.224	14.904	15.10
												232.070		0.000		-232.070	262.07
80	A19-A18	38	16.27	217.06	233.3	486.11	38	100	232.918	233.550	233.234	-1.164	0.0210	0.797	12.411	13.575	16.42
81	A20-A19	135	57.80	0.00	57.8	120.41	135	100	233.550	233.400	233.475	-1.405	0.0016	0.214	12.625	14.030	15.97
82	A9-A19	47	20.12	139.14	159.3	331.80	47	100	233.550	233.750	233.650	-1.580	0.0103	0.486	12.897	14.477	15.52
83	A8-A9	93	39.82	99.33	139.1	289.88	93	100	233.750	233.840	233.795	-1.725	0.0080	0.749	13.646	15.371	14.63
84	A8-A7	42	17.98	0.00	18.0	37.46	42	100	233.840	233.800	233.820	-1.750	0.0002	0.008	13.653	15.403	14.60
85	A8-A3	148	63.36	17.98	81.3	169.47	148	100	233.840	233.700	233.770	-1.700	0.0030	0.441	14.087	15.787	14.21
86	A3-A2	42	17.98	0.00	18.0	37.46	42	100	233.700	233.650	233.675	-1.605	0.0002	0.008	14.094	15.699	14.30
87	A27-A21	126	53.94	265.01	319.0	664.50	126	100	232.950	233.015	232.983	-0.912	0.0374	4.713	16.328	17.240	12.76
88	A21-A22	45	19.27	102.32	121.6	253.31	45	100	233.015	232.500	232.758	-0.688	0.0063	0.282	16.610	17.297	12.70
89	A22-A23	20	8.56	0.00	8.6	17.84	20	100	232.500	232.250	232.375	-0.305	0.0000	0.001	16.611	16.916	13.08
90	A22-A5	199	85.20	8.56	93.8	195.34	199	100	232.250	233.750	233.000	-0.930	0.0039	0.771	17.381	18.311	11.69
91	A5-A6	20	8.56	0.00	8.6	17.84	20	100	233.750	233.800	233.775	-1.705	0.0000	0.001	17.382	19.087	10.91

		Appurtenances of Water Supply												
Sr No.	Name of Node	Length of Pipe Line					Sluice Valves	Sluice Valves	Sluice Valves	Sluice Valves	Scour Valve Valves	Scour Valve Valves	Air Valves	Fire Hydrants
		100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	100 mm	150 mm	200 mm	250 mm	100mm	150 mm	250 mm	
	Zone I-	M	M	M	M	M		No.	No.	No.			No.	No.
1	WTP-1-A'69	0	10	0	0	0		1						
2	A'69-A70	0	41	0	0	0		1						
3	A70-A71	0	208	0	0	0		1				1		
4	A'69-A69	0	29	0	0	0		1						
5	A69-A67	0	176	0	0	0		1						
6	A67-A68	0	61	0	0	0		0				1		
7	A67-A64	0	141	0	0	0		1						
8	A64-A65	0	61	0	0	0		0				1		
9	A64-A60	0	128	0	0	0		0						
10	A67-A59	0	128	0	0	0		1						
11	A69-A56	0	227	0	0	0		1						
12	A56-A'55	0	47	0	0	0		1						
13	A'55-A55	0	21	0	0	0		0						
14	A55-A58	0	170	0	0	0		0				1		
15	A56-A'57	0	176	0	0	0		0						
16	A59-A'57	0	99	0	0	0		1						

17	A59-A60	0	141	0	0	0		1						
18	A60-A61	0	98	0	0	0		1						
20	A61-A62	0	157	0	0	0		1						
21	A62-A63	0	38	0	0	0		0				1		
19	A61-A66	0	23	0	0	0		0				1		
<u>3rd fl. units</u>			2180	0	0	0	0	13	0	0	0	6	0	0
<u>Residential unit</u>														
20	WW-2-A'41	0	0	0	20	0				1				
21	A'41-A41	0	0	23	0	0			1					
22	A41-A40	89	0	0	0	0	1							
23	A40-A44	50	0	0	0	0	1							
24	A40-A34	95	0	0	0	0	1							
25	A34-A29	50	0	0	0	0	1							
26	A41-A46	0	0	50	0	0			1					
27	A46-A47	0	49	0	0	0		0						
28	A25-A47	196	0	0	0	0	1							
29	A47-A48	49	0	0	0	0	0							
30	A48-A24	196	0	0	0	0	1							1
31	A48-A49	51	0	0	0	0	1							
32	A49-A50	19	0	0	0	0	0				1			
33	A45-A46	0	55	0	0	0	0							
34	A45-A51	0	51 47	0	0	0	1							
35	A51-A49	154	0	0	0	0	1							
36	A51-A52	212	0	0	0	0	1							
37	A52-A53	73	0	0	0	0	1							
38	A51-A54	66	0	0	0	0	0							1
39	A54-A'54	41	0	0	0	0	1							
40	A'54-A'53	219	0	0	0	0	1							
41	A54-A53	219	0	0	0	0	0							
42	A53-A'53	41	0	0	0	0	1							

43	A45-A44	0	34	0	0	0		0						
44	A44-A43	0	59	0	0	0		0						
45	A43-A42	119	0	0	0	0	0							
46	A42-A52	51	0	0	0	0	1							
47	A43-A39	49	0	0	0	0	1							
48	A39-A37	119	0	0	0	0	1							
49	A42-A37	49	0	0	0	0	1							
50	A39-A38	49	0	0	0	0	0							
51	A38-A36	119	0	0	0	0	1							
52	A37-A36	49	0	0	0	0	1							
53	A38-A33	49	0	0	0	0	0							
54	A33-A30	49	0	0	0	0	1							
55	A33-A32	119	0	0	0	0	1							
56	A36-A32	49	0	0	0	0	1							
57	A32-A31	49	0	0	0	0	1							
58	A'41-A35	0	72	0	0	0		1						
59	A35-A34	89	0	0	0	0	1							
60	A35-A26	0	50	0	0	0		1						
61	A25-A26	49	0	0	0	0	0							
62	A25-A24	49	0	0	0	0	1							
63	A24-A22	43	0	0	0	0	0							
64	A26-A28	0	39	0	0	0		0						
65	A28-A29	50	0	0	0	0	0							
66	A29-A30	59	0	0	0	0	0							
67	A30-A31	119	0	0	0	0	0							
68	A27-A28	0	43	0	0	0		1						
69	A27-A18	0	42	0	0	0		0						
70	A18-A17	39	0	0	0	0	0							

71	A17-A13	86	0	0	0	0	0							
72	A13-A12	59	0	0	0	0	1							
73	A11-A12	86	0	0	0	0	1							
74	A13-A14	68	0	0	0	0	0							1
75	A14-A15	9	0	0	0	0	0				1			
76	A14-A16	289	0	0	0	0	1				1		1	1
77	A17-A11	38	0	0	0	0	1							
78	A11-A10	48	0	0	0	0								
79	A9-A10	39	0	0	0	0								
80	A19-A18	38	0	0	0	0	1							
81	A20-A19	135	0	0	0	0	1							
82	A9-A19	47	0	0	0	0	1							
83	A8-A9	93	0	0	0	0	0							
84	A8-A7	42	0	0	0	0	1							
85	A8-A3	148	0	0	0	0	1							
86	A3-A2	42	0	0	0	0	1							
87	A27-A21	126	0	0	0	0	1							
88	A21-A22	45	0	0	0	0	0							
89	A22-A23	20	0	0	0	0	0				1			
90	A22-A5	199	0	0	0	0	1							
91	A5-A6	20	0	0	0	0	0				1			
92	A20-A21	59	0	0	0	0	1							
93	A20-A7	47	0	0	0	0	0							
94	A7-A4	93	0	0	0	0	1							
95	A4-A5	45	0	0	0	0	1							
96	A4-A2	46	0	0	0	0	0							
97	A2-A1	45	0	0	0	0	0				1		1	1
	Total	5248	49	73	20	0	41	29	2	1	6	12	2	5
	G.Total	5248	267	73	20	0	41	42	2	1	6	18	2	5

For PROMINENT ENTERPRISES PVT. LTD.

[Signature]
Authorized Signatory



Design Statement for Waste Water