

Detail of Area Residential Vatika India Next, Gurgaon								Daily Water Requirement		
Sr.	Description	Size of Plot		Area of each Unit / Plot	Total Area		Total Persons	Water Allowance	Water Requirement	Net Water Requirement
1	Residential (Plotted)	Width	Depth							
	Category of Plots	m	m	Sq.m.	Sq.m.	Acres	No.	Ltrs./Capit al/ Day	Ltrs./Day	Ltrs./Day
1.11	A	4.50	12.50	56.25	27956	6.91	4473	135	603855	603855
1.12	A1	5.00	10.00	50.00	2600	0.64	468	135	63180	63180
1.13	B	8.20	18.40	150.88	21576	5.33	1931	172.5	333011	333011
1.14	C	10.54	19.04	200.68	24483	6.05	1647	172.5	284108	284108
1.15	D	8.20	18.40	150.88	54468	13.46	4874	172.5	840679	840679
1.16	E	10.60	19.04	201.82	54291	13.42	3632	172.5	626434	626434
1.17	F	10.60	24.00	254.40	33326	8.24	1769	172.5	305066	305066
1.18	F1	11.40	22.00	250.80	43388	10.72	2336	172.5	402874	402874
1.19	G	12.30	24.00	295.20	63763	15.76	2916	172.5	503010	503010
1.20	H	14.13	23.36	330.07	52481	12.97	2147	172.5	370271	370271
1.21	H1	12.98	25.77	334.49	31442	7.77	1269	172.5	218903	218903
	H2	13.68	25.00	342.00	4788	1.18	189	172.5	32603	32603
1.23	I	15.80	25.90	409.22	29464	7.28	972	172.5	167670	167670
1.24	II	14.50	28.80	417.60	418	0.10	14	172.5	2329	2329
1.25	J	15.90	25.90	411.81	9060	2.24	297	172.5	51233	51233
1.26	K	14.40	23.60	339.84	9516	2.35	378	172.5	65205	65205
1.27	L	11.62	25.91	301.07	1806	0.45	81	172.5	13973	13973
1.28	M	9.99	20.56	205.39	13967	3.45	918	172.5	158355	158355
	Sub Total				478793	118.31	30308		5042756	5042756
2	Area under Group Housing				113311	28.00	8400	172.5	1449000	1449000
3	Commercial Area			Sqm	Sq.m	Acres				
3.1	Commercial Area				52083	12.87		25000	321750	321750
3.2	Nursing Home	2.21		1127	8943	2.21		5000	40000	40000
4	Community Area			Acres	Sq.m	Acres				
4.1	High School		16.76	5.00	67825	16.76		150000	450000	450000
4.2	Primary School		4.22	1.00	17078	4.22		50000	200000	200000
4.3	Nursery School		1.54	0.20	6232	1.54		10000	60000	60000
4.4	Creche		0.75	0.20	3035	0.75		10000	30000	30000
4.5	Dispensary		2.26	1.25	9146	2.26		25000	56500	56500
4.6	Club / Community		4.11	2.00	16632	4.11		25000	102750	102750
4.7	Religious Building		0.59	0.20	2388	0.59		10000	20000	20000
4.8	Taxi Stand		3.1605	0.50	12790	3.16		5000	30000	30000
4.9	Police Post		1.02	1.02	4128	1.02		25000	25500	25500
4.10	Health Centre		2.63	2.63	10643	2.63		25000	65750	65750
	Sub Total				149896	37.04			1040500	1040500
5	Undetermined use				138644	34.26		25000	856500	856500
5	Green Area									
5.1	Organised Green - Area under Green			13.16	53256.2	13.16		25000	329000	
5.2	Incidental Green -			8.6	34762.2	8.59		25000	214750	
	Sub Total				88018	21.750			543750	
6	Area under Master Roads				75676	18.700		10000	187000	
7	Area under Roads				486485	120.214		10000	1202140	
	Total Area / Total Demand				1591850	393.358			10683396	8750506
	Fire Demand Plotted					550.52			9234396	7301506

For VATIKA LIMITED

For by Consultant PwE Ltd.

Abstract of Water Supply Length								
Sr. No.	Description	100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300mm i/d	400mm i/d	Total Length
		m	m	m	m	m	m	m
	(Distribution Main)	DI K9						
1	Zone 1	14338	2535	1334	1116	465	280	20068
2	Zone 2	7695	1558	167	737	200	237	10594
3	Sub Total	22033	4093	1501	1853	665	517	30662
4	(Rising Main)	DI K9	DI K9	DI K9	DI K9	DI K9	DI K9	
5	HUDA Source -Boosting Station						380	380
6	Tube wells -Boosting Station		1967	352	146	169		2634
7	Sub Total	0	1967	352	146	169	380	3014
8	Total Length	22033	6060	1853	1999	834	897	33676
Sluice Valves								
9	No.	No.	No.	No.	No.	No.	No.	No.
10	Zone 1	203	38	18	18	5	3	285
11	Zone 2	98	21	3	12	1	2	137
12	Sub Total	301	59	21	30	6	5	422
13	(Rising Main)							
14	HUDA Source -Boosting Station						2	2
15	Tube wells -Boosting Station	21	7	1	1	1		31
16	Sub Total	21	7	1	1	1	2	33
17	Total	322	66	22	31	7	7	455

For VATIKA LIMITED

Authorised Signatory

Design Statement of Water Supply

Sr No.	Name of Road	Length of Pipe	Diameter of Pipe	Total Water Demand	Net Water Demand (Total Water Demand - Total Horticulture Water Demand)	Net Water Demand				Total Water Demand	Head Loss per M	Total Head Loss	Head Loss Progressive	Terminal Head
						self	previous	total	20 HRS					
		m	mm	L	L	KLD	KLD	KLD	LPM	m	m	m	m	m
1	1	2	3	4	5	6	7.00	8	9	10	11	12	13	13
2	WW-U	30	400	1144	0	0.00	7306.19	7306.19	15221.22	0.0144	0.433	0.433	29.57	29.57
3	-	27	400	1030	0	0.00	4653.33	4653.33	9694.44	0.0063	0.169	0.602	29.40	29.40
4	SECTOR 82-													
5	D2-D6	91	100	7800	4329	4.33	313.03	317.36	661.17	0.0371	3.372	3.974	26.03	26.03
6	D6-D5	30	100	12052	10908	10.91	0.00	10.91	22.72	0.0001	0.002	3.976	26.02	26.02
7	D6-D7	56	100	23664	21528	21.53	280.60	302.13	629.43	0.0338	1.895	5.869	24.13	24.13
8	D7-D8	125	100	61658	56890	56.89	0.00	56.89	118.52	0.0015	0.192	6.061	23.94	23.94
9	D7-D11	56	100	11451	9315	9.32	214.39	223.71	466.06	0.0194	1.086	6.955	23.05	23.05
10	-													
11	D11-D10	78	100	19277	16301	16.30	10.41	26.71	55.64	0.0004	0.030	6.984	23.02	23.02
12	D10-D14	8	100	10713	10408	10.41	0.00	10.41	21.68	0.0001	0.001	6.985	23.02	23.02
13	-													
14	D11-D15	65	100	54373	13644	13.64	174.04	187.68	391.01	0.0140	0.911	7.865	22.13	22.13
15	D15-D16	62	100	11615	9250	9.25	164.79	174.04	362.59	0.0122	0.755	7.710	22.29	22.29
16	D16-D18	29	100	12750	11644	11.64	0.00	11.64	24.26	0.0001	0.002	7.712	22.29	22.29
17	D16-D19	61	100	5077	2750	2.75	150.40	153.15	319.06	0.0096	0.586	8.296	21.70	21.70
18	D19-D17	28	100	12712	11644	11.64	138.75	150.40	313.33	0.0093	0.260	8.557	21.44	21.44
19	D17-D41	66	100	24148	21630	21.63	0.00	21.63	45.06	0.0003	0.017	8.574	21.43	21.43
20	D21-D33	21	100	11301	10500	10.50	106.62	117.12	244.01	0.0059	0.123	8.680	21.32	21.32
21	D33-D34	35	100	2886	750	0.75	105.87	106.62	222.13	0.0049	0.275	8.955	21.05	21.05
22	D33-D32	70	100	29808	28473	28.47	0.00	28.47	59.32	0.0027	0.190	8.970	21.03	21.03
23	D32-D31	27	100	12437	11408	11.41	62.07	77.40	161.25	0.0001	0.002	9.147	20.85	20.85
24	D32-D29	61	100	11642	9315	9.32	0.00	11.41	23.77	0.0012	0.076	9.221	20.78	20.78
25	D29-D25	67	100	21262	18706	18.71	41.35	50.66	105.55	0.0002	0.013	9.234	20.77	20.77
26	D29-D28	112	100	23666	19394	19.39	3.25	22.64	38.97	0.0003	0.031	9.252	20.75	20.75
27	D28-D27	220	100	59892	0	0.00	3.25	3.25	6.77	0.0000	0.002	9.254	20.75	20.75
28	D27-D26	48	100	5081	3250	3.25	0.00	3.25	6.77	0.0000	0.000	9.254	20.75	20.75
29	82D'2-D1	31	400	1182	0	0.00	4335.97	4335.97	9033.26	0.0055	0.170	0.772	29.23	29.23
30	82D'1-82F8	67	400	14792	12236	12.24	4323.73	4335.97	9033.26	0.0055	0.368	1.140	28.86	28.86
31	82F8- F7	55	300	2098	0	0.00	1874.82	1874.82	3905.88	0.0047	0.259	1.399	28.60	28.60

Design Statement of Water Supply

Sr No.	Name of Road	Length of Pipe m	Diameter of Pipe mm	Total Water Demand L	Net Water Demand (Total Water Demand - Total Horticulture Water Demand)	Net Water Demand				Total Water Demand	Head Loss per M	Total Head Loss	Head Loss Progressive	Terminal Head
						previous			total					
						self	KLD	KLD						
									20 HRS					
29	F7-F26	87	100	36236	32917	32.92	0.00	32.92	68.58	0.0006	0.049	1.448		28.55
30	F7-F25	21	100	12173	11372	11.37	0.00	11.37	23.69	0.0001	0.002	1.401		28.60
31	F7- F6	136	300	40119	34931	34.93	1795.60	1830.53	3813.61	0.0045	0.614	2.013		27.99
32	F6-F23	54	100	9046	6986	6.99	30.27	37.26	77.63	0.0007	0.038	2.051		27.95
33	F23-F24	117	100	34737	30274	30.27	0.00	30.27	63.07	0.0005	0.056	2.106		27.89
34	F6-F21	56	100	9122	6986	6.99	2.33	9.32	19.41	0.0001	0.003	2.016		27.98
35	F21-F22	11	100	2748	2329	2.33	0.00	2.33	4.85	0.0000	0.000	2.016		27.98
36	F6- F5	61	300	58827	50000	50.00	1699.03	1749.03	3643.81	0.0041	0.253	2.266		27.73
37	F5-F20	28	100	5250	4182	4.18	16.47	20.65	43.03	0.0002	0.007	2.272		27.73
38	F20-F21	88	100	19829	16473	16.47	0.00	16.47	34.32	0.0002	0.014	2.286		27.71
39	F5- F4	53	250	6679	4658	4.66	1673.72	1678.37	3496.61	0.0093	0.495	2.761		27.24
40	F4-F3	9	250	2672	2329	2.33	1671.39	1673.72	3486.91	0.0093	0.084	2.844		27.16
									0.00					
41	F3-F12	44	100	10165	6986	6.99	0.00	6.99	14.55	0.0000	0.001	2.846		27.15
42	F3-F15	170	100	67032	60548	60.55	34.39	94.94	197.79	0.0040	0.674	3.518		26.48
43	F15-F16	55	100	9084	6986	6.99	27.41	34.39	71.65	0.0006	0.033	3.552		26.45
44	F16-F17	22	100	839	0	0.00	0.00	0.00	0.00	0.0000	0.000	3.552		26.45
45	F16-F18	12	100	458	0	0.00	27.41	27.41	57.10	0.0004	0.005	3.557		26.44
46	F18-F19	18	100	10002	9315	9.32	0.00	9.32	19.41	0.0001	0.001	3.558		26.44
47	F18-F11	86	100	35373	18093	18.09	0.00	18.09	37.69	0.0002	0.016	3.572		26.43
									0.00					
48	F3-F2	49	250	8855	6986	6.99	1562.47	1569.46	3269.71	0.0082	0.404	3.248		26.75
49	F2-F14	170	100	50731	44246	44.25	6.99	51.23	106.73	0.0013	0.215	3.464		26.54
50	F14-F15	57	100	9160	6986	6.99	0.00	6.99	14.55	0.0000	0.002	3.465		26.53
51	F2- F1	54	250	18812	16752	16.75	1494.49	1511.24	3148.42	0.0077	0.415	3.664		26.34
52	F1-F9	194	100	86670	79270	79.27	18.63	97.90	203.96	0.0042	0.814	4.478		25.52
53	F9-B5	66	100	21148	18630	18.63	0.00	18.63	38.81	0.0002	0.013	4.491		25.51

Design Statement of Water Supply

Sr No.	Name of Road	Length of Pipe m	Diameter of Pipe mm	Total Water Demand L	Net Water Demand (Total Water Demand - Total Horticulture Water Demand)	Net Water Demand			Total Water Demand	Head Loss per M	Total Head Loss	Head Loss Progressive	Terminal Head
						self	previous	total					
						KLD	KLD	KLD					
									20 HRS				
									LPM				m
													m
54	F1- B7	66	250	16490	13973	13.97	1382.62	1396.59	2909.56	0.0066	0.439	4.102	25.90
55	B7- B8	65	100	29979	27500	27.50	14.66	42.16	87.83	0.0009	0.057	4.160	25.84
56	B8-F33	41	100	20971	14658	14.66	0.00	14.66	30.54	0.0001	0.005	4.165	25.84
57	B7- B5	195	250	47726	23288	23.29	1317.17	1340.46	2792.62	0.0062	1.201	5.303	24.70
58	B5- B4	15	100	572	0	0.00	175.26	175.26	365.13	0.0123	0.185	5.488	24.51
59	B4- B24	211	100	35993	27945	27.95	0.00	27.95	58.22	0.0004	0.087	5.575	24.42
60	B4-B3	54	100	20690	18630	18.63	128.69	147.32	306.91	0.0089	0.483	5.971	24.03
61	B3- B23	223	100	99249	90743	90.74	19.32	110.06	229.29	0.0052	1.163	7.134	22.87
62	B23- B24	55	100	21413	19315	19.32	0.00	19.32	40.24	0.0002	0.011	7.146	22.85
63	B3-B2	57	100	20804	18630	18.63	0.00	18.63	38.81	0.0002	0.011	5.982	24.02
64	B5-E6	72	250	5746	0	0.00	1141.91	1141.91	2378.98	0.0046	0.330	5.633	24.37
65	E6- E7	91	100	75444	71973	71.97	0.00	71.97	149.94	0.0024	0.216	5.849	24.15
66	E6- E5	6	250	229	0	0.00	1069.94	1069.94	2229.03	0.0041	0.024	5.657	24.34
67	E5-E15	125	100	16412	11644	11.64	59.42	71.06	148.04	0.0023	0.290	5.947	24.05
68	E15-E20	151	100	33047	27288	27.29	13.50	40.79	84.97	0.0008	0.125	6.072	23.93
69	E20-E19	62	100	28356	13500	13.50	0.00	13.50	28.13	0.0001	0.007	6.079	23.92
70	E15-E14	54	100	20690	18630	18.63	0.00	18.63	38.81	0.0002	0.010	5.957	24.04
71	E5- E4	54	250	18361	16301	16.30	982.57	998.88	2080.99	0.0036	0.193	5.850	24.15
72	E4-E14	126	100	37409	32603	32.60	108.06	140.66	293.04	0.0082	1.035	6.885	23.12
73	E14-E19	175	100	76538	69863	69.86	19.57	89.43	186.31	0.0035	0.621	7.506	22.49
74	E19- E18	88	100	22922	19565	19.57	0.00	19.57	40.76	0.0002	0.019	7.525	22.48
75	E14- E12	57	100	20804	18630	18.63	0.00	18.63	38.81	0.0002	0.011	6.896	23.10
76	E4- E3	57	200	18475	16301	16.30	825.61	841.91	1753.99	0.0077	0.440	6.290	23.71
77	E3-B2	68	100	7251	4658	4.66	23.91	28.57	59.52	0.0004	0.029	6.319	23.68

Sr No.	Name of Road	Length of Pipe m	Diameter of Pipe mm	Total Water Demand L	Net Water Demand (Total Water Demand - Total Horticulture Water Demand)	Design of Pipe Line					Total Head Loss m	Head Loss Progressive m	Terminal Head m
						Net Water Demand			Total Water Demand LPM	Head Loss per M m			
						self KLD	previous KLD	total KLD					
78	B2- B6	67	100	26468	23912	23.91	0.00	23.91	49.82	0.0003	0.021	6.340	23.66
79	E3- E'2	21	100	5459	4658	4.66	86.19	90.85	189.27	0.0037	0.077	6.366	23.63
80	E'2-B36	50	100	3407	1500	1.50	84.69	86.19	179.56	0.0033	0.166	6.532	23.47
81	B36-B1	87	100	46750	43431	43.43	0.00	43.43	90.48	0.0009	0.081	6.613	23.39
82	B36- E1	55	100	2098	0	0.00	41.26	41.26	85.96	0.0008	0.047	6.579	23.42
83	E1-B15	184	100	14005	6986	6.99	34.27	41.26	85.96	0.0008	0.156	6.735	23.27
84	B15- B16	118	100	65788	22287	22.29	11.99	34.27	71.40	0.0006	0.071	6.806	23.19
85	B16- B17	16	100	10268	9658	9.66	0.00	9.66	20.12	0.0001	0.001	6.807	23.19
86	B16-B18	13	100	2825	2329	2.33	0.00	2.33	4.85	0.0000	0.000	6.806	23.19
87	E3- E12	127	200	28132	23288	23.29	682.91	706.20	1471.24	0.0056	0.708	6.997	23.00
88	E12- E'18	125	100	42028	37260	37.26	0.00	37.26	77.63	0.0007	0.088	7.085	22.91
89	E12- E11	54	200	20690	18630	18.63	627.02	645.65	1345.10	0.0047	0.255	7.252	22.75
90	E11-E'11	93	100	36821	33274	33.27	0.00	33.27	69.32	0.0006	0.053	7.305	22.69
91	E11-E'17	151	200	59492	53733	53.73	537.68	591.42	1232.11	0.0040	0.606	7.858	22.14
92	E11- E27	6	100	2558	2329	2.33	0.00	2.33	4.85	0.0000	0.000	7.252	22.75
93	E'17-E16	68	200	9344	6750	6.75	530.93	537.68	1120.17	0.0034	0.229	8.087	21.91
94	E16- E'10	249	200	65484	34866	34.87	496.07	530.93	1106.11	0.0033	0.818	8.905	21.09
SECTOR 82A-													
95	82E'10-82A1	73	200	2785	0	0.00	496.07	496.07	1033.47	0.0029	0.212	9.117	20.88
96	A1-A'55	110	150	144245	77500	77.50	0.00	77.50	161.46	0.0004	0.042	9.158	20.84
97	A1-A'7	56	100	4636	2500	2.50	34.27	36.77	76.61	0.0007	0.038	9.155	20.85
98	A'7-A64	254	100	9689	0	0.00	34.27	34.27	71.40	0.0006	0.153	9.308	20.69
99	A64-A43	81	100	48503	0	0.00	34.27	34.27	71.40	0.0006	0.049	9.356	20.64
100	A43-A62	11	100	420	0	0.00	34.27	34.27	71.40	0.0006	0.007	9.363	20.64
101	A62-A44	65	100	11794	9315	9.32	0.00	9.32	19.41	0.0001	0.004	9.366	20.63
102	A62-A63	70	100	6670	4000	4.00	20.96	24.96	52.00	0.0003	0.023	9.386	20.61
103	A63-A'45	20	100	5420	4658	4.66	0.00	4.66	9.70	0.0000	0.000	9.387	20.61
104	A63-A46	41	100	17865	16301	16.30	0.00	16.30	33.96	0.0002	0.006	9.392	20.61
105	A1-A2	56	150	6794	4658	4.66	377.14	381.79	795.40	0.0072	0.406	9.522	20.48
106	A2-A'3	6	150	229	0	0.00	377.14	377.14	785.70	0.0071	0.042	9.565	20.44

Authorised Signatory

Design Statement of Water Supply

Design of Pipe Line													
Sr No.	Name of Road	Length of Pipe	Diameter of Pipe	Total Water Demand	Net Water Demand (Total Water Demand - Total Horticulture Water Demand)	Net Water Demand			Total Water Demand	Head Loss per M	Total Head Loss	Head Loss Progressive	Terminal Head
						self	previous	total					
						KLD	KLD	KLD	20 HRS	m	m	m	m
107	A3-A'58	74	150	7823	5000	5.00	372.14	377.14	785.70	0.0071	0.524	10.089	19.91
108	A'58-A9	95	150	29240	25616	25.62	346.52	372.14	775.28	0.0069	0.656	10.745	19.26
109	A9-A'8	18	100	3015	2329	2.33	0.00	2.33	4.85	0.0000	0.000	10.745	19.26
110	A9-A10	67	150	16528	13973	13.97	330.22	344.19	717.06	0.0060	0.401	11.145	18.85
111	A10-A'22	88	100	43172	39815	39.82	87.50	127.31	265.23	0.0068	0.601	11.746	18.25
112	A'22-A23	88	100	7185	3829	3.83	83.67	87.50	182.28	0.0034	0.300	12.046	17.95
113	A23-A'24	107	100	14081	10000	10.00	73.67	83.67	174.31	0.0031	0.336	12.382	17.62
114	A'24-A'25	64	100	29520	27079	27.08	46.59	73.67	153.47	0.0025	0.159	12.541	17.46
115	A'25-A'26	74	100	28439	25616	25.62	20.97	46.59	97.06	0.0011	0.079	12.619	17.38
116	A'26-A'27	73	100	2785	0	0.00	20.97	20.97	43.69	0.0002	0.018	12.637	17.36
117	A'27-A'28	80	100	24024	20973	20.97	0.00	20.97	43.69	0.0002	0.019	12.656	17.34
118	A10-A14	103	150	17901	13973	13.97	188.93	202.91	422.72	0.0022	0.231	11.377	18.62
119	A14-A'59	71	100	5208	2500	2.50	14.32	16.82	35.03	0.0002	0.011	11.388	18.61
120	A'59-A'60	44	100	15993	14315	14.32	0.00	14.32	29.82	0.0001	0.005	11.393	18.61
121	A14-A15	25	150	3282	2329	2.33	169.79	172.12	358.58	0.0017	0.041	11.418	18.58
122	A15-A16	76	100	19200	16301	16.30	0.00	16.30	33.96	0.0002	0.012	11.430	18.57
123	A15-A20	23	150	5535	4658	4.66	148.83	153.49	319.77	0.0013	0.031	11.449	18.55
124	A20-A21	19	100	5382	4658	4.66	0.00	4.66	9.70	0.0000	0.000	11.449	18.55
125	A20-A16	70	150	17643	13973	13.97	130.20	144.17	300.36	0.0012	0.084	11.532	18.47
126	A16-A17	39	100	8474	6986	6.99	123.22	130.20	271.25	0.0071	0.278	11.810	18.19
127	A17-A18	11	100	10420	10000	10.00	0.00	10.00	20.83	0.0001	0.001	11.811	18.19
128	A17-A5	74	100	14466	11644	11.64	101.57	113.22	235.86	0.0055	0.407	12.217	17.78
129	A5-A'60	97	100	17673	13973	13.97	0.00	13.97	29.11	0.0001	0.011	12.228	17.77
130	A5-A6	71	100	2708	0	0.00	87.60	87.60	182.50	0.0034	0.243	12.459	17.54
131	A6-A37	13	100	496	0	0.00	15.32	15.32	31.91	0.0001	0.002	12.461	17.54
132	A37-A'37	42	100	6602	5000	5.00	0.00	5.00	10.42	0.0000	0.001	12.462	17.54
133	A37-A36	30	100	1144	0	0.00	10.32	10.32	21.49	0.0001	0.002	12.463	17.54
134	A36-A35	50	100	12222	10315	10.32	0.00	10.32	21.49	0.0001	0.003	12.466	17.53

Design Statement of Water Supply

Sr No.	Name of Road	Length of Pipe m	Diameter of Pipe mm	Total Water Demand L	Net Water Demand (Total Water Demand - Total Horticulture Water Demand)	Design of Pipe Line									
						Net Water Demand			Total Water Demand	Head Loss per M	Total Head Loss	Head Loss Progressive	Terminal Head		
						self	previous	total							
				L	L	KLD	KLD	KLD	20 HRS	m	m	m	m		
135	A6-A32	43	100	10048	4658	4.66	67.63	72.28	150.59	0.0024	0.103	12.562	17.44		
136	A32-A31	55	100	11413	9315	9.32	41.59	50.90	106.05	0.0013	0.069	12.631	17.37		
137	A32-A35	54	100	14454	12394	12.39	4.33	16.72	34.84	0.0002	0.009	12.571	17.43		
138	A35-A33	49	100	8698	4329	4.33	0.00	4.33	9.02	0.0000	0.001	12.571	17.43		
139	A31-A49	28	100	7726	6658	6.66	0.00	6.66	13.87	0.0000	0.001	12.632	17.37		
140	82A31-82A33	77	100	30882	27945	27.95	6.99	34.93	72.77	0.0006	0.048	12.679	17.32		
141	82A33-82A34	25	100	7940	6986	6.99	0.00	6.99	14.55	0.0000	0.001	12.680	17.32		
142	82F8-F27	48	400	6488	4658	4.66	2444.25	2448.91	5101.89	0.0019	0.091	1.231	28.77		
143	F27-F28	149	100	56916	51233	51.23	21.80	73.03	152.15	0.0024	0.364	1.595	28.41		
144	F28-F31	13	100	7482	6986	6.99	0.00	6.99	14.55	0.0000	0.000	1.595	28.41		
145	F28-F36	61	100	3327	1000	1.00	13.82	14.82	30.86	0.0001	0.008	1.602	28.40		
146	F36-F34	41	100	15379	13815	13.82	0.00	13.82	28.78	0.0001	0.005	1.607	28.39		
147	F27- D22	47	350	18293	16500	16.50	2354.71	2371.21	4940.03	0.0034	0.162	1.393	28.61		
148	D22-D38	53	350	14008	11986	11.99	2342.73	2354.71	4905.66	0.0034	0.180	1.573	28.43		
149	D38-D39	62	100	2365	0	0.00	17.72	17.72	36.92	0.0002	0.011	1.584	28.42		
150	D39-D40	47	100	19515	17723	17.72	0.00	17.72	36.92	0.0002	0.008	1.592	28.41		
151	D38- D20	180	350	48784	41918	41.92	2283.09	2325.01	4843.76	0.0033	0.597	2.170	27.83		
152	82D20-82F30	51	250	7945	6000	6.00	525.43	531.43	1107.14	0.0011	0.057	2.226	27.77		
153	F30-F31	25	100	5532	4579	4.58	0.00	4.58	9.54	0.0000	0.000	2.227	27.77		
154	F30-C8	61	200	6327	4000	4.00	516.85	520.85	1085.10	0.0032	0.193	2.420	27.58		
155	C8-F29	62	100	18337	15973	15.97	0.00	15.97	33.28	0.0001	0.009	2.429	27.57		
156	C8-C48	30	200	3473	2329	2.33	498.55	500.88	1043.49	0.0029	0.088	2.508	27.49		
157	C48- C7	26	200	3321	2329	2.33	496.22	498.55	1038.64	0.0029	0.076	2.584	27.42		
158	C7-C47	63	200	23889	21486	21.49	474.73	496.22	1033.79	0.0029	0.183	2.767	27.23		
159	C47-C25	125	200	9268	4500	4.50	470.23	474.73	989.03	0.0027	0.334	3.101	26.90		
160	C25-C26	69	200	14276	11644	11.64	458.59	470.23	979.65	0.0026	0.181	3.282	26.72		
161	C26-C27	51	100	36260	9315	9.32	0.00	9.32	19.41	0.0001	0.003	3.284	26.72		
162	C26-C45	29	200	3356	2250	2.25	447.03	449.28	935.99	0.0024	0.070	3.352	26.65		
163	C45-C44	38	200	2199	750	0.75	446.28	447.03	931.30	0.0024	0.091	3.442	26.56		
164	C44-C42	57	150	25712	23538	23.54	422.74	446.28	929.74	0.0097	0.551	3.994	26.01		

Design Statement of Water Supply

Sr No.	Name of Road	Length of Pipe	Diameter of Pipe	Total Water Demand	Net Water Demand (Total Water Demand - Total Horticulture Water Demand)	Design of Pipe Line								
						Net Water Demand			Total Water Demand	Head Loss per M	Total Head Loss	Head Loss Progressive	Terminal Head	
						self	previous	total						m
		m	mm	L	L	KLD	KLD	KLD	LPM	20 HRS	m	m	m	m
	-				0	0.00	8.99	8.99	18.72	0.0001	0.003	3.997		26.00
165	C42-C43	57	100	2174	0	0.00	8.99	8.99	18.72	0.0001	0.002	3.998		26.00
166	C43-C43	36	100	10359	8986	8.99	0.00	8.99	18.72	0.0001				
	-													
167	C42-C24	91	150	20036	16565	16.57	397.19	413.75	861.98	0.0084	0.765	4.759		25.24
168	C24- C22	36	150	3873	2500	2.50	394.69	397.19	827.47	0.0078	0.281	5.039		24.96
169	C22- C21	64	150	14518	6986	6.99	387.70	394.69	822.26	0.0077	0.493	5.532		24.47
170	C21-C21	10	100	2710	2329	2.33	0.00	2.33	4.85	0.0000	0.000	5.532		24.47
171	C21-C1	170	150	52166	45681	45.68	339.69	385.37	802.86	0.0074	1.253	6.785		23.22
	-													
172	C1-F35	64	100	4770	2329	2.33	24.49	26.82	55.86	0.0004	0.024	6.809		23.19
	-													
173	F35- C2	27	100	2530	1500	1.50	21.74	23.24	48.41	0.0003	0.008	6.817		23.18
174	C2- C4	61	100	24063	21736	21.74	0.00	21.74	45.28	0.0003	0.016	6.833		23.17
	-													
175	F35-F32	35	100	2585	1250	1.25	0.00	1.25	2.60	0.0000	0.000	6.809		23.19
	-													
176	C1- B11	66	150	9504	6986	6.99	305.89	312.88	651.82	0.0050	0.331	7.115		22.88
177	B11-B12	124	100	67452	62723	62.72	0.00	62.72	130.67	0.0018	0.228	7.344		22.66
178	B11-B10	54	100	23019	20959	20.96	222.21	243.17	506.60	0.0226	1.222	8.338		21.66
179	B10-F32	92	100	14574	11065	11.07	0.00	11.07	23.05	0.0001	0.007	8.344		21.66
180	B10- B9	56	100	16701	14565	14.57	196.58	211.14	439.88	0.0174	0.976	9.313		20.69
181	B9- B31	62	100	41601	6986	6.99	189.59	196.58	409.54	0.0153	0.946	10.260		19.74
182	B31- B33	41	100	6221	4658	4.66	0.00	4.66	9.70	0.0000	0.001	10.260		19.74
183	B31- B32	7	100	267	0	0.00	184.93	184.93	385.28	0.0136	0.095	10.355		19.64
184	B32- B35	118	100	40432	35931	35.93	0.00	35.93	74.86	0.0007	0.077	10.433		19.57
185	B32-B25	48	100	18132	16301	16.30	132.70	149.00	310.42	0.0091	0.439	10.794		19.21
186	B25- B23'	70	100	28286	25616	25.62	0.00	25.62	53.37	0.0004	0.025	10.818		19.18
187	B25- B26	11	100	420	0	0.00	107.09	107.09	223.09	0.0050	0.055	10.848		19.15
188	B26- B34	126	100	37936	33130	33.13	0.00	33.13	69.02	0.0006	0.071	10.919		19.08
189	B26- B27	47	100	11608	9815	9.82	64.14	73.96	154.07	0.0025	0.117	10.966		19.03
190	B27- B28	89	100	29761	26366	26.37	0.00	26.37	54.93	0.0004	0.033	10.999		19.00
191	B27- B22	57	100	2174	0	0.00	37.77	37.77	78.70	0.0007	0.041	11.007		18.99
192	82B22-82B21	87	100	41092	37774	37.77	0.00	37.77	78.70	0.0007	0.063	11.069		18.93

For VATIKA LIMITED

Ky consultants Pvt Ltd

Authorised Signatory

Design Statement of Water Supply

Sr No.	Name of Road	Length of Pipe m	Diameter of Pipe mm	Total Water Demand	Net Water Demand (Total Water Demand - Total Horticulture Water Demand)	Design of Pipe Line							Total Head Loss	Head Loss Progressive	Terminal Head	
						Net Water Demand			Total Water Demand	Head Loss per M	Total Head Loss	Head Loss Progressive				Terminal Head
						self	previous	total								
						KLD	KLD	KLD	LPM	m	m	m	m	m		
193	82D'20-	69	300	5132	2500	2.50	1749.16	1751.66	3649.29	0.0042	0.287	2.457	27.54			
194	D'23- D24	75	100	19162	16301	16.30	0.00	16.30	33.96	0.0002	0.011	2.468	27.53			
195	D'23-D'26	144	300	7243	1750	1.75	1731.11	1732.86	3610.12	0.0041	0.587	3.044	26.96			
196	D'26-82C16	27	250	1030	0	0.00	1731.11	1731.11	3606.48	0.0099	0.267	3.311	26.69			
197	82C16-82C52	217	150	76510	64233	64.23	460.76	524.99	1093.73	0.0131	2.835	6.146	23.85			
198	C52-C53	81	100	3090	0	0.00	54.98	54.98	114.55	0.0014	0.117	6.262	23.74			
199	C53-C'53	138	100	60246	54983	54.98	0.00	54.98	114.55	0.0014	0.199	6.461	23.54			
200	C52-C38	24	150	915	0	0.00	405.77	405.77	845.36	0.0081	0.195	6.340	23.66			
201	C38-C40	38	100	9809	4579	4.58	0.00	4.58	9.54	0.0000	0.001	6.341	23.66			
202	C38-C36	84	150	3204	0	0.00	401.20	401.20	835.82	0.0079	0.667	7.007	22.99			
203	C36-C14	149	100	57865	49681	49.68	0.00	49.68	103.50	0.0012	0.178	7.185	22.81			
204	C36-C35	60	150	2289	0	0.00	351.51	351.51	732.32	0.0062	0.373	7.380	22.62			
205	C35-C'12	158	100	78153	72126	72.13	0.00	72.13	150.26	0.0024	0.377	7.757	22.24			
206	C35-C50	72	150	10496	0	0.00	279.39	279.39	582.06	0.0041	0.292	7.672	22.33			
207	C50-C51	79	100	28815	25801	25.80	0.00	25.80	53.75	0.0004	0.028	7.701	22.30			
208	C50-C33	66	100	2518	0	0.00	11.74	11.74	24.45	0.0001	0.005	7.678	22.32			
209	C33-C48	137	100	25462	11736	11.74	0.00	11.74	24.45	0.0001	0.011	7.689	22.31			
210	C50-C34	89	100	21208	6563	6.56	235.29	241.85	503.86	0.0224	1.994	9.667	20.33			
211	C34-B'7	87	100	53319	50000	50.00	150.00	200.00	416.67	0.0158	1.371	11.038	18.96			
212	B'7-81'2	100	100	153814	150000	150.00	0.00	150.00	312.50	0.0093	0.925	11.963	18.04			
213	C34-C31	56	100	30405	0	0.00	35.29	35.29	73.52	0.0006	0.036	9.702	20.30			
214	C31-C32	35	100	12071	10736	10.74	0.00	10.74	22.37	0.0001	0.002	9.705	20.30			
215	C31-C30	59	100	9237	6986	6.99	17.57	24.55	51.15	0.0003	0.019	9.721	20.28			
216	C30-C'30	10	100	2710	2329	2.33	0.00	2.33	4.85	0.0000	0.000	9.721	20.28			
217	82C30-82C49	52	100	17220	15236	15.24	0.00	15.24	31.74	0.0001	0.007	9.728	20.27			
218	82C16-82C'18	43	250	7469	5829	5.83	1200.29	1206.12	2512.75	0.0051	0.218	3.528	26.47			

Design Statement of Water Supply

Sr No.	Name of Road	Length of Pipe	Diameter of Pipe	Total Water Demand	Net Water Demand (Total Water Demand - Total Horticulture Water Demand)	Design of Pipe Line					Total Head Loss	Head Loss Progressive	Terminal Head	
						Net Water Demand			Total Water Demand	Head Loss per M				Total Head Loss
						self	previous	total						
		m	mm	L	L	KLD	KLD	KLD	LPM	m	m	m	m	
219	C18-C20	81	250	3090	0	0.00	1200.29	1200.29	2500.61	0.0050	0.407	3.935	26.06	
220	82C20-82C54	135	250	5150	0	0.00	1200.29	1200.29	2500.61	0.0050	0.578	4.613	25.39	
221	82C54-82C41	63	100	42630	19223	19.22	0.00	19.22	40.05	0.0002	0.013	4.626	25.37	
	SECTOR 85-													
222	82C54-85B26	71	250	2708	0	0.00	1181.07	1181.07	2460.56	0.0049	0.346	4.959	25.04	
223	B26-B25	30	250	1144	0	0.00	1181.07	1181.07	2460.56	0.0049	0.146	5.105	24.90	
224	B25-B21	75	250	29261	12150	12.15	1168.92	1181.07	2460.56	0.0049	0.365	5.470	24.53	
225	B21-B20	45	250	4571	0	0.00	1155.55	1155.55	2407.40	0.0047	0.211	5.681	24.32	
226	B21-B29	51	100	18449	13365	13.37	0.00	13.37	27.84	0.0001	0.005	5.475	24.52	
227	B20-B24	48	100	23701	21870	21.87	0.00	21.87	45.56	0.0003	0.013	5.693	24.31	
228	B20-B30	94	100	42146	37665	37.67	0.00	37.67	78.47	0.0007	0.067	5.748	24.25	
229	B29-B30	40	100	1526	0	0.00	0.00	0.00	0.00	0.0000	0.000	5.475	24.52	
230	B20-B19	47	200	4214	0	0.00	1096.02	1096.02	2283.37	0.0126	0.591	6.272	23.73	
231	B19-B31	133	100	63068	57105	57.11	0.00	57.11	118.97	0.0015	0.206	6.477	23.52	
232	B30-B31	40	100	1526	0	0.00	0.00	0.00	0.00	0.0000	0.000	5.475	24.52	
233	B19-B18	41	200	2867	0	0.00	1038.91	1038.91	2164.40	0.0114	0.467	6.739	23.26	
234	B18-B33	156	150	75041	68040	68.04	427.50	495.54	1032.37	0.0117	1.831	8.570	21.43	
235	B18-B17	26	200	3728	2100	2.10	541.28	543.38	1132.03	0.0034	0.089	6.828	23.17	
236	B17-B23	75	100	25946	23085	23.09	0.00	23.09	48.09	0.0003	0.022	6.850	23.15	
237	B17-B34	167	100	83059	75330	75.33	0.00	75.33	156.94	0.0026	0.431	7.259	22.74	
238	B33-B34	36	150	26373	25000	25.00	402.50	427.50	890.62	0.0089	0.321	8.891	21.11	
239	B17-B16	52	150	3046	0	0.00	442.86	442.86	922.63	0.0095	0.496	7.324	22.68	
240	B16-B35	190	100	89406	81405	81.41	0.00	81.41	169.59	0.0030	0.567	7.890	22.11	
241	B34-B35	37	150	1411	0	0.00	402.50	402.50	838.54	0.0080	0.296	9.187	20.81	
242	B16-B15	37	150	10691	8505	8.51	326.22	334.73	697.34	0.0057	0.210	7.534	22.47	
243	B16-B22	59	100	28981	26730	26.73	0.00	26.73	55.69	0.0004	0.022	7.346	22.65	
244	B15-B36	176	100	59523	52810	52.81	0.00	52.81	110.02	0.0013	0.236	7.769	22.23	
245	B35-B36	39	150	1488	0	0.00	402.50	402.50	838.54	0.0080	0.311	9.498	20.50	
246	B36-C1	62	150	2865	500	0.50	402.00	402.50	838.54	0.0080	0.495	9.994	20.01	

Sheet No:- 9

Sheet No:-9

Design Statement of Water Supply

Sr No.	Name of Road	Length of Pipe	Diameter of Pipe	Total Water Demand	Net Water Demand (Total Water Demand - Total Horticulture Water Demand)	Design of Pipe Line					Total Head Loss	Head Loss Progressive	Terminal Head	
						Net Water Demand			Total Water Demand	Head Loss per M				
						self	previous	total						
		m	mm	L	L	KLD	KLD	KLD	LPM	m	m	m	m	
247	B15-B14	42	150	2352	750	0.75	272.66	273.41	569.60	0.0039	0.164	7.698	22.30	
248	B14-B7	52	150	25271	23288	23.29	249.37	272.66	568.04	0.0039	0.202	7.899	22.10	
249	B7-B12	38	100	13093	11644	11.64	0.00	11.64	24.26	0.0001	0.003	7.903	22.10	
250	B7-B6	67	150	2556	0	0.00	237.73	237.73	495.27	0.0030	0.202	8.101	21.90	
251	B6-B11	58	100	20842	18630	18.63	0.00	18.63	38.81	0.0002	0.011	8.113	21.89	
252	B6-B5	32	150	1221	0	0.00	219.10	219.10	456.46	0.0026	0.083	8.184	21.82	
253	B5-B10	38	100	24737	23288	23.29	0.00	23.29	48.52	0.0003	0.011	8.195	21.80	
254	B5-B4	48	150	1831	0	0.00	195.81	195.81	407.94	0.0021	0.101	8.285	21.71	
255	B4-B9	38	100	13093	11644	11.64	0.00	11.64	24.26	0.0001	0.003	8.288	21.71	
256	B4-B3	31	150	3511	2329	2.33	181.84	184.17	383.68	0.0019	0.058	8.343	21.66	
257	B3-B8	27	100	8016	6986	6.99	0.00	6.99	14.55	0.0000	0.001	8.344	21.66	
258	B3-B2	169	150	60946	54500	54.50	120.35	174.85	364.28	0.0017	0.288	8.632	21.37	
259	B2-B1	15	100	572	0	0.00	120.35	120.35	250.73	0.0062	0.092	8.724	21.28	
260	85B1-85A1	156	100	35992	22394	22.39	97.96	120.35	250.73	0.0062	0.960	9.684	20.32	
261	A1-A2	23	100	877	0	0.00	97.96	97.96	204.08	0.0042	0.097	9.780	20.22	
262	A2-A3	75	100	59123	52000	52.00	0.00	52.00	108.33	0.0013	0.098	9.878	20.12	
263	A2-A4	56	100	27136	25000	25.00	20.96	45.96	95.75	0.0010	0.058	9.838	20.16	
264	A4-A5	97	100	5200	0	0.00	20.96	20.96	43.66	0.0002	0.023	9.862	20.14	
265	A5-A6	49	100	22828	20959	20.96	0.00	20.96	43.66	0.0002	0.012	9.874	20.13	
266	C1-C2	30	150	2144	1000	1.00	401.00	402.00	837.49	0.0080	0.239	10.233	19.77	
267	C2-C15	29	100	1106	0	0.00	103.22	103.22	215.03	0.0046	0.134	10.367	19.63	
268	C15-C19	57	100	28540	26366	26.37	0.00	26.37	54.93	0.0004	0.021	10.388	19.61	
269	C15-C16	49	100	15842	13973	13.97	62.88	76.85	160.10	0.0027	0.131	10.498	19.50	
270	C16-C18	51	100	13589	11644	11.64	0.00	11.64	24.26	0.0001	0.004	10.503	19.50	
271	C16-C17	75	100	27162	16301	16.30	34.93	51.23	106.73	0.0013	0.095	10.593	19.41	
272	C17-C10	93	100	38479	34931	34.93	0.00	34.93	72.77	0.0006	0.058	10.651	19.35	
273	C2-B40	30	100	1144	0	0.00	106.10	106.10	221.03	0.0049	0.146	10.379	19.62	
274	B40-B41	130	100	53879	48920	48.92	0.00	48.92	101.92	0.0012	0.151	10.530	19.47	
275	B40-B42	141	100	62553	57175	57.18	0.00	57.18	119.11	0.0016	0.219	10.597	19.40	
276	C2-C4	52	150	1984	0	0.00	191.69	191.69	399.35	0.0020	0.105	10.338	19.66	
277	C4-C20	109	100	55061	50904	50.90	0.00	50.90	106.05	0.0013	0.136	10.474	19.53	
278	C4-C5	23	150	877	0	0.00	140.78	140.78	293.30	0.0011	0.026	10.364	19.64	

Sheet No:- 10

Sheet No:- 10

Design Statement of Water Supply

Design of Pipe Line

Sr No.	Name of Road	Length of Pipe m	Diameter of Pipe mm	Total Water Demand L	Net Water Demand (Total Water Demand - Total Horticulture Water Demand)	Net Water Demand			Total Water Demand	Head Loss per M	Total Head Loss	Head Loss Progressive	Terminal Head
						self	previous	total					
						KLD	KLD	KLD	20 HRS LPM	m	m	m	m
279	C5-B37	128	100	23107	18225	18.23	31.73	49.95	104.06	0.0012	0.155	10.519	19.48
280	B37-B38	28	100	1068	0	0.00	31.73	31.73	66.09	0.0005	0.015	10.533	19.47
281	B38-B39	94	100	35311	31725	31.73	0.00	31.73	66.09	0.0005	0.049	10.582	19.42
282	C5-C6	78	100	2975	0	0.00	90.83	90.83	189.24	0.0037	0.285	10.649	19.35
283	C6-C7	98	100	11302	7564	7.56	25.62	33.18	69.12	0.0006	0.055	10.705	19.30
284	C7-C9	111	100	29850	25616	25.62	0.00	25.62	53.37	0.0004	0.039	10.744	19.26
285	C6-C9	45	100	17967	0	0.00	57.65	57.65	120.11	0.0016	0.071	10.720	19.28
286	C9-C10	95	100	3624	0	0.00	57.65	57.65	120.11	0.0016	0.150	10.870	19.13
287	C10-C14	77	100	42526	39589	39.59	0.00	39.59	82.48	0.0008	0.060	10.930	19.07
288	C10-C11	58	100	7212	5000	5.00	13.07	18.07	37.64	0.0002	0.011	10.880	19.12
289	C11-C21	60	100	13854	11565	11.57	0.00	11.57	24.09	0.0001	0.005	10.885	19.11
290	85C11-85C12	58	100	3712	1500	1.50	0.00	1.50	3.13	0.0000	0.000	10.880	19.12
291	U- 82D3	35	400	13821	4653329	12.49	2640.37	2652.86	5526.78	0.0022	0.077	0.510	29.49
292	82D3-D13	142	400	5417	0	0.00	2640.37	2640.37	5500.77	0.0022	0.311	0.821	29.18
293	D13-D12	22	400	839	0	0.00	2640.37	2640.37	5500.77	0.0022	0.048	0.869	29.13
294	82D12-A'5	225	400	8583	0	0.00	2640.37	2640.37	5500.77	0.0022	0.493	1.362	28.64
295	SECTOR 83-												
296	A'5-83A'55	83	400	3166	0	0.00	2640.37	2640.37	5500.77	0.0022	0.182	1.544	28.46
297	A'55-A'49	77	350	25977	20000	20.00	2620.37	2640.37	5500.77	0.0042	0.323	1.867	28.13
298	A'49-A'50	160	350	30603	24500	24.50	2595.87	2620.37	5459.10	0.0041	0.662	2.529	27.47
299	A'50-A'42	155	100	30621	24709	24.71	0.00	24.71	51.48	0.0003	0.051	2.580	27.42
300	A'50-A'51	60	300	4789	2500	2.50	2568.66	2571.16	5356.59	0.0085	0.508	3.037	26.96
301	A'51-A'40	26	100	992	0	0.00	171.03	171.03	356.32	0.0118	0.307	3.344	26.66
302	A'40-A'38	41	100	7471	5908	5.91	165.13	171.03	356.32	0.0118	0.484	3.828	26.17
303	A'38-A'36	17	100	1648	1000	1.00	40.54	41.54	86.54	0.0009	0.015	3.842	26.16
304	A'36-A'37	155	100	48950	40538	40.54	0.00	40.54	84.45	0.0008	0.127	3.969	26.03
305	A'38-A'32	80	100	3052	0	0.00	123.59	123.59	257.48	0.0065	0.517	4.345	25.66

Design Statement of Water Supply

Sr No.	Name of Road	Length of Pipe m	Diameter of Pipe mm	Total Water Demand L	Net Water Demand (Total Water Demand - Total Horticulture Water Demand)	Net Water Demand			Total Water Demand 20 HRS LPM	Head Loss per M	Total Head Loss	Head Loss Progressive	Terminal Head
						self	previous	total					
						KLD	KLD	KLD					
305	A32-A31	107	100	24711	20630	20.63	24.21	44.84	93.41	0.0010	0.106	4.450	25.55
306	A31-A28	53	100	26230	24209	24.21	0.00	24.21	50.43	0.0003	0.017	4.467	25.53
307	A32-A33	82	100	74878	71750	71.75	7.00	78.75	164.06	0.0028	0.230	4.575	25.43
308	A33-A34	60	100	6289	4000	4.00	3.00	7.00	14.58	0.0000	0.002	4.577	25.42
309	A34-A31	58	100	5212	3000	3.00	0.00	3.00	6.25	0.0000	0.000	4.577	25.42
310	A51-A41	140	300	43128	26538	26.54	2371.09	2397.63	4995.06	0.0074	1.041	4.079	25.92
311	A41-E7	30	250	8131	6986	6.99	1021.59	1028.58	2142.87	0.0038	0.113	4.192	25.81
312	E7-E5	212	100	114532	81445	81.45	71.11	152.56	317.83	0.0095	2.024	6.215	23.78
313	E5-E4	49	100	1869	0	0.00	0.00	0.00	0.00	0.0000	0.000	6.215	23.78
314	E5-E15	63	100	11718	9315	9.32	61.80	71.11	148.15	0.0023	0.146	6.362	23.64
315	E15-E16	119	100	36063	30774	30.77	0.00	30.77	64.11	0.0005	0.059	6.420	23.58
316	E15-E17	88	100	34380	31024	31.02	0.00	31.02	64.63	0.0005	0.044	6.406	23.59
317	E7-83A37	23	250	4456	3579	3.58	865.45	869.03	1810.49	0.0028	0.063	4.255	25.74
318	A37-E20	229	250	8735	0	0.00	865.45	865.45	1803.03	0.0027	0.627	4.883	25.12
319	E20-E21	60	200	157289	155000	155.00	710.45	865.45	1803.03	0.0081	0.487	5.370	24.63
320	E21-E27	159	100	30445	24380	24.38	102.27	126.65	263.86	0.0068	1.075	6.445	23.55
321	E27-E26	56	100	6715	4579	4.58	48.43	53.01	110.44	0.0013	0.075	6.521	23.48
322	E26-E28	95	100	52055	48431	48.43	0.00	48.43	100.90	0.0011	0.108	6.629	23.37
323	E27-E29	107	100	22711	18630	18.63	8.16	26.79	55.81	0.0004	0.041	6.486	23.51
324	E29-E30	7	100	3770	3503	3.50	0.00	3.50	7.30	0.0000	0.000	6.486	23.51
325	E29-E34	34	100	5954	4658	4.66	0.00	4.66	9.70	0.0000	0.001	6.486	23.51
326	E27-E33	90	100	37155	22472	22.47	0.00	22.47	46.82	0.0003	0.025	6.470	23.53
327	E33-E34	49	100	1869	0	0.00	0.00	0.00	0.00	0.0000	0.000	6.470	23.53
328	E34-E35	46	100	1755	0	0.00	0.00	0.00	0.00	0.0000	0.000	6.470	23.53
329	E21-E22	32	200	6169	4949	4.95	578.85	583.80	1216.26	0.0039	0.125	5.495	24.50

Design Statement of Water Supply

Sr No.	Name of Road	Length of Pipe	Diameter of Pipe	Total Water Demand	Net Water Demand (Total Water Demand - Total Horizontal Water Demand)	Design of Pipe Line									
						Net Water Demand			Total Water Demand	Head Loss per M	Total Head Loss	Head Loss Progressive	Terminal Head		
						self	previous	total							
		m	mm	L	L	KLD	KLD	KLD	LPM	m	m	m	m	m	
330	E22-A22	75	200	2861	0	0.00	578.85	578.85	1205.95	0.0039	0.289	5.784	5.784	24.22	
331	A22-A21	82	100	19785	16658	16.66	0.00	16.66	34.70	0.0002	0.013	5.797	5.797	24.20	
332	A22-E23	33	150	1259	0	0.00	562.20	562.20	1171.24	0.0148	0.489	6.274	6.274	23.73	
333	E23-E25	30	150	6644	5500	5.50	556.70	562.20	1171.24	0.0148	0.445	6.719	6.719	23.28	
334	E25-A14	87	150	10397	7079	7.08	549.62	556.70	1159.78	0.0146	1.267	7.986	7.986	22.01	
335	A14-A59	136	100	44790	39603	39.60	13.24	52.84	110.08	0.0013	0.182	8.168	8.168	21.83	
336	A59-A60	107	100	17318	13236	13.24	0.00	13.24	27.58	0.0001	0.011	8.179	8.179	21.82	
337	A14-A11	56	150	21516	19380	19.38	477.40	496.78	1034.96	0.0118	0.660	8.646	8.646	21.35	
338	A11-A10	181	150	47664	40760	40.76	436.64	477.40	994.58	0.0110	1.983	10.629	10.629	19.37	
339	A10-A13	49	100	15842	13973	13.97	0.00	13.97	29.11	0.0001	0.006	10.635	10.635	19.37	
340	A10-A7	53	150	15994	13973	13.97	275.32	289.29	602.70	0.0043	0.230	10.859	10.859	19.14	
341	A7-A7	95	100	36976	33353	33.35	0.00	33.35	69.48	0.0006	0.054	10.913	10.913	19.09	
342	A7-A20	70	100	16643	13973	13.97	0.00	13.97	29.11	0.0001	0.008	10.867	10.867	19.13	
343	A7-A4	56	150	16109	13973	13.97	214.02	228.00	474.99	0.0028	0.156	11.015	11.015	18.99	
344	A4-A8	62	100	11522	9158	9.16	0.00	9.16	19.08	0.0001	0.003	11.018	11.018	18.98	
345	A4-A4	22	100	66589	65750	65.75	0.00	65.75	136.98	0.0020	0.044	11.059	11.059	18.94	
346	A4-A5	199	100	63207	55616	55.62	83.50	139.12	289.83	0.0080	1.601	12.616	12.616	17.38	
347	A5-A2	42	100	85102	83500	83.50	0.00	83.50	173.96	0.0031	0.131	12.747	12.747	17.25	
348	A10-A9	181	100	51150	44246	44.25	89.13	133.37	277.86	0.0074	1.347	11.976	11.976	18.02	
349	A9-A6	53	100	19232	6986	6.99	38.63	45.62	95.03	0.0010	0.054	12.030	12.030	17.97	
350	A6-A20	43	100	19955	18315	18.32	0.00	18.32	38.16	0.0002	0.008	12.038	12.038	17.96	
351	A6-A3	56	100	19346	6986	6.99	13.33	20.32	42.32	0.0002	0.013	12.043	12.043	17.96	
352	A3-A3	37	100	14740	13329	13.33	0.00	13.33	27.77	0.0001	0.004	12.047	12.047	17.95	
353	A9-A12	56	100	19346	6986	6.99	36.52	43.51	90.65	0.0009	0.052	12.028	12.028	17.97	
354	A12-A19	54	100	20332	18473	18.47	0.00	18.47	38.48	0.0002	0.010	12.039	12.039	17.96	
355	A12-A15	53	100	19232	6986	6.99	11.07	18.05	37.61	0.0002	0.010	12.038	12.038	17.96	
356	A15-A16	38	100	7857	6408	6.41	0.00	6.41	13.35	0.0000	0.001	12.039	12.039	17.96	
357	83A15-83A18	33	100	5916	4658	4.66	0.00	4.66	9.70	0.0000	0.000	12.039	12.039	17.96	