

Design Statement of Waste Water Collection System

Sr. No	Line No.	Length of Sewer Line	Quantity waste water generation		Quantity of Waste Water generated			Quantity of Waste Water flow during peak hours		Discharge	Velocity	Flow	Size of sewer line	Slope	Fall	Formation Level		Invert Level		Depth	
			L	3	Self	Branch	Total	Total discharge @ 3 times Average Flow	KLD -							Upper end	Lower end	Upper end	Lower end	Upper end	Lower end
1	2	2																			
335	A43-A57	7	375.00	0.38	0.38	165.93	166.30	498.91	7	0.50	0.0058	0.70	0.011	200	0.03	231.221	231.181	228.704	228.672	2.52	2.51
336	A57-A44	47	8763.75	8.76	8.76	166.30	175.07	525.20	7	0.53	0.0061	0.70	0.011	200	0.21	231.181	230.972	228.458	228.458	2.51	2.51
337	A54-A44	72	12676.88	12.68	12.68	0.00	12.68	38.03	7	0.04	0.0004	0.70	0.011	200	0.33	231.098	230.972	229.898	229.571	1.20	1.40
338	A47-A46	34	9834.38	9.83	0.00	0.00	9.83	29.50	7	0.03	0.0003	0.70	0.011	200	0.15	231.099	230.906	229.899	229.744	1.20	1.16
339	B1-A46	30	6405.00	6.41	0.00	0.00	6.41	19.22	7	0.02	0.0002	0.70	0.011	200	0.14	230.933	230.906	229.733	229.596	1.20	1.31
340	A46-A45	62	6483.75	6.48	16.24	16.24	22.72	68.17	7	0.07	0.0008	0.70	0.011	200	0.28	230.906	230.703	229.596	229.314	1.31	1.39
341	A45-A44	67	8201.25	8.20	22.72	22.72	30.92	92.77	7	0.09	0.0011	0.70	0.011	200	0.30	230.703	230.972	229.314	229.010	1.39	1.96
342	83A44-83E1	217	35296.88	35.30	218.67	218.67	253.96	761.89	7	0.76	0.0088	0.70	0.011	200	0.99	230.972	229.907	228.458	227.472	2.51	2.44
343	83E16-83E15	121	18144.38	18.14	0.00	0.00	18.14	54.43	7	0.05	0.0006	0.70	0.011	200	0.55	230.849	230.709	229.649	229.099	1.20	1.61
344	E17-E15	100	18331.88	18.33	0.00	0.00	18.33	55.00	7	0.05	0.0006	0.70	0.011	200	0.45	230.829	230.709	229.629	229.175	1.20	1.53
345	E15-E5	67	5467.50	5.47	36.48	41.94	125.83	125.83	7	0.13	0.0015	0.70	0.011	200	0.30	230.709	230.675	229.099	228.794	1.61	1.88
346	E7-E5	160	56527.50	56.53	0.00	0.00	56.53	169.58	7	0.17	0.0020	0.70	0.011	200	0.73	231.009	230.675	230.709	229.982	1.20	0.69
347	E5-E4	50	0.00	0.00	0.00	0.00	0.00	295.41	7	0.30	0.0034	0.70	0.011	200	0.23	230.675	230.402	228.794	228.567	1.88	1.84
348	E6-E4	54	20890.31	20.89	0.00	0.00	20.89	62.67	7	0.06	0.0007	0.70	0.011	200	0.25	230.797	230.402	229.597	229.351	1.20	1.05
349	E4-E14	122	37038.75	37.04	119.36	156.40	469.20	477.05	7	0.47	0.0054	0.70	0.011	200	0.55	230.402	230.571	228.567	228.012	1.84	2.56
350	E14-E13	54	2617.79	2.62	156.40	159.02	477.05	477.05	7	0.48	0.0055	0.70	0.011	200	0.25	230.571	230.093	228.012	227.767	2.56	2.33
351	E13-E13	117	26478.75	26.48	0.00	0.00	26.48	79.44	7	0.08	0.0009	0.70	0.011	200	0.30	230.240	230.093	229.040	228.508	1.20	1.58
352	E13-E11	20	4233.75	4.23	185.50	189.73	569.19	569.19	7	0.57	0.0066	0.70	0.011	200	0.09	230.093	229.991	227.767	227.676	2.33	2.32
353	E12-E11	47	12997.50	13.00	0.00	0.00	13.00	38.99	7	0.04	0.0005	0.70	0.011	200	0.21	230.004	229.991	228.804	228.590	1.20	1.40
354	E11-E10	36	0.00	0.00	202.73	202.73	608.18	608.18	7	0.61	0.0070	0.70	0.011	200	0.16	229.991	229.859	227.676	227.512	2.32	2.35
355	E2-E2	109	16801.88	16.80	0.00	0.00	16.80	50.41	7	0.05	0.0006	0.70	0.011	200	0.50	229.915	229.893	229.015	228.519	0.90	1.37
356	E2-E10	163	39288.75	39.29	16.80	16.80	56.09	168.27	7	0.17	0.0019	0.70	0.011	200	0.74	229.893	229.859	228.519	227.778	1.37	2.08
357	E10-E8	49	2921.25	2.92	258.82	261.74	785.22	785.22	7	0.79	0.0091	0.61	0.015	250	0.12	229.859	229.671	227.487	227.365	2.37	2.31
358	83E8-83E1	163	34625.63	34.63	261.74	296.37	889.10	889.10	7	0.89	0.0103	0.61	0.015	250	0.41	229.671	229.907	227.365	226.957	2.31	2.95
359	83E1-83B12	66	0.00	0.00	550.33	550.33	1651.0	1651.0	7	1.65	0.0191	0.69	0.044	300	0.13	229.907	229.738	226.932	226.800	2.97	2.94
360	A52-A53	33	10233.75	10.23	0.00	0.00	10.23	30.70	7	0.03	0.0004	0.70	0.011	200	0.15	230.438	230.438	229.238	229.088	1.20	1.35
361	A53-B12	124	10233.75	10.23	10.23	10.23	20.47	61.40	7	0.06	0.0007	0.70	0.011	200	0.56	230.438	229.738	229.088	228.524	1.35	1.21
362	83B12-83B12	25	2733.75	2.73	570.80	573.53	1720.6	1720.6	7	1.72	0.0199	0.69	0.044	300	0.05	229.738	229.600	226.800	226.750	2.94	2.85
363	SECTOR 84-84E3-84E2	46	11643.75	11.64	0.00	0.00	11.64	34.93	7	0.03	0.0004	0.70	0.011	200	0.21	228.124	228.114	227.224	227.015	0.90	1.10
364	E4-E2	18	5821.88	5.82	0.00	0.00	5.82	17.47	7	0.02	0.0002	0.70	0.011	200	0.08	228.120	228.114	227.220	227.138	0.90	0.98
365	E2-E1	20	6384.38	6.38	17.47	23.85	71.55	71.55	7	0.07	0.0008	0.70	0.011	200	0.09	228.114	228.114	227.015	226.924	1.10	1.19
366	E1-A7	48	0.00	0.00	23.85	23.85	71.55	71.55	7	0.07	0.0008	0.61	0.015	250	0.40	228.110	228.375	226.899	226.779	1.21	1.60
367	A7-D23	95	20418.75	20.42	23.85	44.27	45.39	132.81	7	0.13	0.0015	0.61	0.015	250	0.24	228.375	228.092	226.779	226.542	1.60	1.55
368	D23-D7	86	1125.00	1.13	44.27	45.39	136.18	136.18	7	0.14	0.0016	0.61	0.015	250	0.40	228.092	228.934	226.542	226.327	1.55	2.08
369	D20-D7	71	8201.25	8.20	0.00	0.00	8.20	24.60	7	0.02	0.0003	0.70	0.011	200	0.32	228.918	228.934	227.718	227.395	1.20	1.54
370	D7-D21	29	0.00	0.00	53.60	53.60	160.79	160.79	7	0.16	0.0019	0.61	0.022	300	0.06	228.934	228.956	226.302	226.244	2.63	2.71
371	D21-D22	159	29109.38	29.11	53.60	82.70	248.11	248.11	7	0.25	0.0029	0.61	0.022	300	0.32	228.956	229.390	226.244	225.926	2.71	3.46
372	D5-D22	43	10775.63	10.78	0.00	0.00	10.78	32.33	7	0.03	0.0004	0.70	0.011	200	0.20	228.930	229.390	227.730	227.535	1.20	1.86
373	D22-D18	47	0.00	0.00	93.48	93.48	280.44	280.44	7	0.28	0.0032	0.61	0.022	300	0.09	229.390	229.750	225.926	225.832	3.46	3.92

Design Statement of Waste Water Collection System

Sr. No	Line No.	Length of Sewer Line	Quantity of waste water generation			Quantity of Waste Water generated			Quantity of Waste Water during peak hours		Discharge	Velocity	Flow	Size of sewer line	Slope	Fall	Formation Level		Invert Level		Depth	
			Self	Branch	Total	Self	Branch	Total	KLD	times Average Flow	MLD	Cum.	M/sec	Cum.	mm		Upper end	Lower end	Upper end	Lower end	Upper end	Lower end
1	2	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
374	A13-A12	3	3286.25	3.30	0.00	3.30	9.39	0.01	0.0001	0.70	0.011	200	220	0.01	0.0001	0.01	229.728	229.724	228.528	228.514	1.20	1.21
375	A12-A12	51	4100.63	4.10	0.00	4.10	12.30	0.01	0.0001	0.70	0.011	200	220	0.01	0.0001	0.01	229.735	229.724	228.535	228.294	1.20	1.43
376	A12-A11	54	2753.75	2.73	7.40	10.13	30.39	0.03	0.0004	0.70	0.011	200	220	0.03	0.0004	0.03	229.724	229.717	228.294	228.048	1.43	1.67
377	A11-A1	141	10693.13	10.69	10.13	20.82	62.47	0.06	0.0007	0.70	0.011	200	220	0.06	0.0007	0.06	229.717	229.688	228.048	227.408	1.67	2.28
378	A1-A2	53	6592.50	6.59	20.82	27.42	82.25	0.08	0.0010	0.80	0.023	200	220	0.08	0.0010	0.08	229.688	229.495	227.408	227.167	2.28	2.33
379	A2-A2	30	6671.25	6.67	0.00	6.67	20.01	0.02	0.0002	0.70	0.011	200	220	0.02	0.0002	0.02	229.507	229.495	228.307	228.171	1.20	1.32
380	D1-A2	52	4983.75	4.98	0.00	4.98	14.95	0.01	0.0002	0.70	0.011	200	220	0.01	0.0002	0.01	229.505	229.495	228.305	228.069	1.20	1.43
381	A2-D2	62	2812.50	2.81	39.07	41.88	123.65	0.13	0.0015	0.80	0.023	200	220	0.13	0.0015	0.13	229.495	229.380	227.167	226.885	2.33	2.70
382	D2-D19	116	12501.88	12.30	41.88	54.19	162.56	0.16	0.0019	0.70	0.011	200	220	0.16	0.0019	0.16	229.380	229.350	226.885	226.338	2.70	3.38
383	D19-D18	129	18973.13	18.97	54.19	73.16	219.48	0.22	0.0025	0.61	0.015	250	400	0.22	0.0025	0.22	229.350	229.750	226.338	226.010	3.40	3.74
384	D3-D18	145	26103.75	26.10	0.00	26.10	78.31	0.08	0.0009	0.70	0.011	200	220	0.08	0.0009	0.08	229.777	229.750	228.577	227.918	1.20	1.83
385	D6-D18	42	7135.00	7.16	0.00	7.16	21.47	0.02	0.0002	0.70	0.011	200	220	0.02	0.0002	0.02	229.760	229.750	228.560	228.319	1.20	1.38
386	D18-D17	53	2733.75	2.73	199.90	202.63	607.89	0.61	0.0070	0.61	0.022	300	500	0.61	0.0070	0.61	229.750	229.740	225.832	225.726	3.92	4.01
387	D4-B4D17	132	16856.25	16.86	0.00	16.86	50.57	0.05	0.0006	0.80	0.023	200	220	0.05	0.0006	0.05	229.773	229.740	228.573	227.973	1.20	1.77
388	B4D17-B3B5	73	0.00	0.00	219.49	219.49	658.46	0.56	0.0076	0.69	0.024	300	500	0.56	0.0076	0.56	229.740	230.018	225.726	225.580	4.01	4.44
389	B3B2-B3B3	30	4983.75	4.98	0.00	4.98	14.95	0.01	0.0002	0.70	0.011	200	220	0.01	0.0002	0.01	230.765	230.760	229.565	229.429	1.20	1.33
390	B3-B4	54	1500.00	1.50	4.98	6.48	19.16	0.02	0.0002	0.70	0.011	200	220	0.02	0.0002	0.02	230.760	230.748	229.429	229.183	1.33	1.56
391	B6-B4	62	13051.88	13.05	0.00	13.05	39.16	0.04	0.0005	0.70	0.011	200	220	0.04	0.0005	0.04	230.760	230.748	229.560	229.278	1.20	1.47
392	B4-B5	86	0.00	0.00	19.54	19.54	58.61	0.06	0.0007	0.70	0.011	200	220	0.06	0.0007	0.06	230.748	230.674	229.183	228.792	1.56	1.88
393	B5-B3B5	206	32152.50	32.15	19.54	51.69	155.06	0.16	0.0018	0.70	0.011	200	220	0.16	0.0018	0.16	230.674	230.018	228.792	227.856	1.88	2.16
394	B3B5-B3B22	84	0.00	0.00	271.18	271.18	813.53	0.81	0.0094	0.61	0.022	300	500	0.81	0.0094	0.81	230.018	229.901	225.580	225.412	4.44	4.49
395	B22-B21	35	0.00	0.00	271.18	271.18	813.53	0.81	0.0094	0.70	0.011	200	220	0.81	0.0094	0.81	229.901	229.806	225.412	225.253	4.49	4.53
396	B21-B19	18	4046.25	4.05	271.18	275.22	825.67	0.83	0.0096	0.61	0.022	300	500	0.83	0.0096	0.83	229.806	229.636	225.253	225.192	4.53	4.58
397	B19-B27	53	8546.25	8.55	275.22	283.77	851.30	0.85	0.0099	0.61	0.022	300	500	0.85	0.0099	0.85	229.636	229.322	225.192	225.086	4.58	4.64
398	B27-B17	14	0.00	0.00	283.77	283.77	851.30	0.85	0.0099	0.61	0.022	300	500	0.85	0.0099	0.85	229.322	229.267	225.086	225.038	4.64	4.71
399	B17-B14	55	10796.25	10.80	283.77	294.56	883.69	0.88	0.0102	0.61	0.022	300	500	0.88	0.0102	0.88	229.267	229.483	225.038	224.948	4.71	4.84
400	B14-B13	39	6725.63	6.73	294.56	301.29	903.87	0.90	0.0105	0.61	0.022	300	500	0.90	0.0105	0.90	229.483	229.709	224.948	224.870	4.84	4.89
401	B3B13-B3B12	16	0.00	0.00	301.29	301.29	903.87	0.90	0.0105	0.61	0.022	300	500	0.90	0.0105	0.90	229.709	229.600	224.870	224.838	4.89	4.96
402	B3B12-B3C10	213	19668.75	19.67	874.82	894.49	2683.5	2.68	0.0311	0.69	0.044	300	500	2.68	0.0311	2.68	229.600	228.641	224.838	224.412	4.96	4.99
403	C11-C10	76	6834.38	6.83	0.00	6.83	20.50	0.02	0.0002	0.70	0.011	200	220	0.02	0.0002	0.02	228.641	228.641	227.546	227.200	1.10	1.55
404	B3C10-B3C7	67	4687.50	4.69	901.32	906.01	2718.0	2.72	0.0315	0.69	0.101	450	850	2.72	0.0315	2.72	228.641	228.308	224.220	224.033	4.34	4.09
405	C13-C6	215	19136.25	19.14	0.00	19.14	57.41	0.06	0.0007	0.70	0.011	200	220	0.06	0.0007	0.06	228.308	228.128	227.135	226.158	1.20	1.97
406	B3C6-B3C7	71	187.50	0.19	19.14	19.32	57.97	0.06	0.0007	0.70	0.011	200	220	0.06	0.0007	0.06	228.128	228.308	226.158	225.835	1.97	2.47
407	B3C7-B3C8	31	7500.00	7.50	925.34	932.84	2798.5	2.80	0.0324	0.73	0.255	700	1400	2.80	0.0324	2.80	228.308	228.375	224.033	224.011	4.28	4.36
408	B3C12-B3C8	147	138470.6	138.47	0.00	138.47	415.41	0.42	0.0048	0.70	0.011	200	220	0.42	0.0048	0.42	228.375	228.375	227.330	226.651	1.20	1.71
409	B3C8-STP1	15	0.00	0.00	1071.3	1071.3	3213.9	3.21	0.0372	0.73	0.255	700	1400	3.21	0.0372	3.21	228.375	228.374	224.011	224.000	4.36	4.37
		28226	5204156	5204																		

For VATIKA LIMITED

Authorised Signatory

APPUR TENANCES OF WASTE WATER COLLECTION SYSTEM

APPENDICES OF WASTE WATER COLLECTION SYSTEM																										
Sr. No	Line No.	Length of Sewer Line	Sewer Pipe Line 200 mm i/d			Sewer Pipe Line 250 mm i/d			Sewer Pipe Line 300 mm i/d			Sewer Pipe Line 350 mm i/d			Sewer Pipe Line 400 mm i/d			Sewer Pipe Line 450 mm i/d			Sewer Pipe Line 500 mm i/d			Sewer Pipe Line 700 mm i/d		
			Length	Avg Depth	M	Length	Avg Depth	M	Length	Avg Depth	M	Length	Avg Depth	M	Length	Avg Depth	M	Length	Avg Depth	M	Length	Avg Depth	M	Length	Avg Depth	M
1	2	2	4	5		6	7		8	9		10	11		12	13		14	15		16	17		20	21	
1	83A2-83A5	40	40	1.02																						
2	A5-A4	193	193	1.42																						
3	A8-A4	41	41	1.29																						
4	A4-A4	41	41	1.29																						
5	A4-A7	52	52	1.92																						
6	A20-A7	48	48	1.30																						
7	A7-A7	105	105	1.43																						
8	A7-A10	56	56	1.85																						
9	A3-A3	40	40	1.29																						
10	A3-A6	53	53	1.35																						
11	A20-A6	48	48	1.30																						
12	A6-A9	56	56	1.39																						
13	A18-A15	18	18	1.24																						
14	A16-A15	40	40	1.29																						
15	A15-A12	53	53	1.64																						
16	A19-A12	58	58	1.33																						
17	A12-A9	54	54	2.18																						
18	A9-A10	175	175	2.66																						
19	A13-A10	30	30	1.26																						
20	A10-A11	175				175	2.99																			
21	A11-A11	23	23	1.21																						
22	A11-A14	53				53	3.00																			
23	A60-A59	73	73	1.36																						
24	A59-A14	101	101	1.63																						
25	A14-E25	110				110	2.81																			
26	E25-E23	45				45	2.81																			
27	E30-E29	27	27	1.28																						
28	E29-E27	85	85	1.60																						
29	E33-E27	84	84	1.38																						
30	E28-E26	77	77	1.41																						
31	E26-E27	68	68	1.79																						
32	E27-E31	83	83	2.16																						
33	E31-E21	92	92	2.57																						
34	E21-E22	44	44	3.00																						
35	E22-A22	84	84	3.60																						
36	A22-E23	19	19	4.05																						
37	E23-A21	91							91	4.27																

FOR VATIKA LIMITED

Authorized Signatory

APPURTENANCES OF WASTE WATER COLLECTION SYSTEM

Sr. No	Line No.	Length of Sewer Line	Sewer Pipe Line 200 mm i/d			Sewer Pipe Line 250 mm i/d			Sewer Pipe Line 300 mm i/d			Sewer Pipe Line 350 mm i/d			Sewer Pipe Line 400 mm i/d			Sewer Pipe Line 450 mm i/d			Sewer Pipe Line 500 mm i/d			Sewer Pipe Line 700 mm i/d				
			Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth
1	2	2	4	5		6	7		8	9		10	11		12	13		14	15		16	17		18	19		20	21
38	A21-A35	181							181	3.47																		
39	A35-A28	17							17	2.59																		
40	A28-A31	57							57	2.64																		
41	A32-A31	44	44	1.31																								
42	A31-A34	69							69	1.49																		
43	83A34-83A29	108										108	1.70															
44	83A29-82E24	98										98	2.64															
45	82E24-82E	13										13	3.50															
SECTOR 82A-																												
46	82A31-82A33	60	60	1.30																								
47	A34-A33	6	6	1.21																								
48	A33-A35	50	50	1.50																								
49	A37-A36	7	7	1.28																								
50	A36-A35	50	50	1.81																								
51	A35-A32	71	71	2.10																								
52	A49-A31	5	5	1.08																								
53	A31-A32	50	50	0.70																								
54	A32-A6	40	40	1.88																								
55	A6-A5	61	61	1.87																								
56	A21-A20	2	2	1.19																								
57	A20-A15	26	26	1.23																								
58	A15-A16	85	85	1.59																								
59	A20-A16	50	50	1.42																								
60	A16-A17	23	23	1.96																								
61	A17-A5	61	61	2.13																								
62	A5-A'60	81	81	2.37																								
63	A'60-A'59	64	64	2.53																								
64	A'59-A14	69	69	2.74																								
65	A14-A10	95	95	3.14																								
66	A28-A27	84	84	1.38																								
67	A27-A26	73	73	1.72																								
68	A26-A25	101	101	2.10																								
69	A25-A24	60	60	2.45																								
70	A24-A23	86	86	2.77																								
71	A23-A22	102	102	3.17																								
72	A22-A10	98	98	3.60																								
73	A10-A9	56	56	3.52																								
74	A9-A'58	103	103	3.55																								
75	A'58-A'3	50	50	4.02																								

FOR VATIKA LIMITED

Sheet No:-13

Appurtenances of Waste Water Collection System

Sr. No	Line No.	Length of Sewer Line	Sewer Pipe Line 200 mm i/d		Sewer Pipe Line 250 mm i/d		Sewer Pipe Line 300 mm i/d		Sewer Pipe Line 350 mm i/d		Sewer Pipe Line 400 mm i/d		Sewer Pipe Line 450 mm i/d		Sewer Pipe Line 500 mm i/d		Sewer Pipe Line 700 mm i/d	
			Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth
1	2	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	20	21
76	A3-A2	22	22	4.20														
77	A2-A1	56	56	4.22														
78	82A55-82A1	136	136	1.15														
79	82A1-82E10	73			73	4.07												
80	82E10-	220			220	4.00												
81	E16-E17	69			69	4.20												
82	E17-E11	138					138	4.49										
83	E27-E11	16	16	1.15														
84	E11-E11	75	75	1.32														
85	E11-E12	58					58	4.56										
86	E18-E12	125	125	1.59														
87	E3-E12	73	73	1.28														
88	E12-E14	55					55	4.38										
89	E4-E14	73	73	1.28														
90	E5-E15	70	70	1.28														
91	E20-E15	150	150	1.67														
92	E15-E14	54	54	2.42														
93	E14-E19	189							189	4.29								
94	82E19-82E	49					49	4.28										
95	82E-STP 3	15																
		6607	4724	1.91	745	3.41	666	3.49	457	3.28	0		15	4.45	0		0	
96	82A46-82A63	47	47	1.30														
97	82A63-82A62	71	71	1.56														
98	82A44-82A62	70	70	1.35														
99	82A62-82A43	15	15	1.74														
100	82A43-	35	35	1.86														
		238	238	1.56														
	SECTOR 82-																	
101	82B21-82B22	95	95	1.36														
102	B22-B27	60	60	1.62														
103	B28- B27	92	92	1.40														
104	B27- B26	49	49	1.75														
105	B34- B26	102	102	1.35														
106	B26-B25	5	5	1.77														
107	B23- B25	82	82	1.28														
108	B25-B32	51	51	1.80														
109	B35- B32	95	95	1.34														
110	B32- B31	5	5	1.83														
111	B33- B31	45	45	1.30														
112	B31- B30	40	40	1.84														
113	B29- B30	95	95	1.30														
114	B30- B9	34	34	1.91														
115	B9- B10	56	56	2.18														

For VATIKA LIMITED

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Appurtenances of Waste Water Collection System

Sr. No	Line No.	Length of Sewer Line	Sewer Pipe Line 200 mm i/d			Sewer Pipe Line 250 mm i/d			Sewer Pipe Line 300 mm i/d			Sewer Pipe Line 350 mm i/d			Sewer Pipe Line 400 mm i/d			Sewer Pipe Line 450 mm i/d			Sewer Pipe Line 500 mm i/d			Sewer Pipe Line 700 mm i/d		
			Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth	
1	2	2	4	5		6	7		8	9		10	11		12	13		14	15		16	17		20	21	
116	C4-C2	34	34	1.41																						
117	C2-F35	42	42	1.90																						
118	F35-F32	33	33	2.28																						
119	F32-B10	87	87	2.67																						
120	B10-B11	66	66	3.11																						
121	B12-B11	95	95	1.35																						
122	B11-C1	54	54	3.23																						
123	C1-C21	158	158	3.65																						
124	C21-C21	8	8	1.22																						
125	C21-C22	68	68	4.14																						
126	C22-C24	29	29	4.08																						
127	C24-C42	100	100	4.23																						
128	C43-C43	39	39	1.28																						
129	C43-C42	54	54	1.47																						
130	C42-C44	78	78	4.51																						
131	C44-C45	34	34	4.51																						
132	C45-C26	51	51	4.49																						
133	C27-C26	29	29	1.26																						
134	C26-C25	65	65	4.55																						
135	C25-C47	126	126	4.60																						
136	C47-C7	90	90	4.73																						
137	82C7-82C48	14	14	4.82																						
138	82C30-82C30	27	27	1.26																						
139	C49-C30	60	60	1.33																						
140	C30-C31	55	55	1.46																						
141	C32-C31	43	43	1.29																						
142	C31-C34	58	58	1.50																						
143	81'2-B7	85	85	1.38																						
144	81'1-B7	27	27	1.26																						
145	B7-82C34	87	87	1.74																						
146	C34-C50	77	77	2.15																						
147	C14-C36	154	154	1.46																						
148	C36-C35	75	75	1.89																						
149	C12-C35	161	161	1.38																						
150	C35-C50	69	69	2.41																						
151	C51-C50	98	98	1.38																						
152	C50-C33	93	93	3.13																						

FOR VATIKA LIMITED

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Sr. No	Line No.	Length of Sewer Line	Appurtenances of Waste Water Collection												Sewer Pipe Line 700 mm i/d											
			Sewer Pipe Line 200 mm i/d			Sewer Pipe Line 250 mm i/d			Sewer Pipe Line 300 mm i/d			Sewer Pipe Line 350 mm i/d			Sewer Pipe Line 400 mm i/d			Sewer Pipe Line 450 mm i/d			Sewer Pipe Line 500 mm i/d			Sewer Pipe Line 700 mm i/d		
			Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth	
1	2		M	4	5	M	6	7	M	8	9	M	10	11	M	12	13	M	14	15	M	16	17	M	20	21
153	82C33-82C48	147	147	3.82																						
154	82C48-82C8	38																								
155	F29-C8	41	41	1.29					38	4.81																
156	C8-F30	72																								
157	F31-F30	6	6	1.25					72	4.83																
158	82F30-82D20	40																								
159	82B17-82B16	34	34	1.27																						
160	B16-B15	123	123	1.62																						
161	B15-B37	188	188	1.89																						
162	B37-B36	46	46	2.01																						
163	B1-B36	69	69	1.31																						
164	B36-E2	45	45	2.18																						
165	E2-E3	29	29	2.19																						
166	B24-B4	157	157	1.03																						
167	B4-B3	54	54	1.10																						
168	B24-B23	29	29	1.27																						
169	B23-B3	208	208	1.40																						
170	B3-B2	55	55	1.73																						
171	B6-B2	46	46	1.16																						
172	B2-E3	61	61	2.09																						
173	E3-E4	55	55	2.17																						
174	E4-E5	54	54	2.12																						
175	E5-E6	19	19	2.10																						
176	E7-E6	67	67	1.51																						
177	E6-B5	64	64	2.31																						
178	F9-B5	33	33	1.34																						
179	B5-B7	197	197	2.94																						
180	F3-B8	30	30	1.25																						
181	B8-B7	59	59	1.41																						
182	B7-F1	55	55	3.36																						
183	F9-F1	159	159	1.73																						
184	F1-F2	57	57																							
185	F19-F18	18	18	1.23																						
186	F18-F16	13	13	1.27																						
187	F11-F16	93	93	1.49																						
188	F16-F15	53	53	1.80																						
189	F15-F14	55	55	2.06																						

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APPENDICES OF WASTE WATER COLLECTION SYSTEM

Sr. No	Line No.	Length of Sewer Line	Sewer Pipe Line 200 mm i/d			Sewer Pipe Line 250 mm i/d			Sewer Pipe Line 300 mm i/d			Sewer Pipe Line 350 mm i/d			Sewer Pipe Line 400 mm i/d			Sewer Pipe Line 450 mm i/d			Sewer Pipe Line 500 mm i/d			Sewer Pipe Line 700 mm i/d		
			Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth
1	2	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	20	21								
190	F14- F2	176	176	2.85																						
191	F2-F3	54					54	3.37																		
192	F15-F3	147	147	1.68			6	3.26																		
193	F3-F4	6																								
194	F12- F4	40	40	1.25			27	3.20																		
195	F4- F5	27																								
196	F21-F20	81	81	1.49																						
197	F20-F5	19	19	1.85																						
198	F5- F6	89					89	3.10																		
199	F21-F6	43	43	1.26																						
200	F24-F23	98	98	1.35																						
201	F23- F6	59	59	1.58																						
202	F6- F7	129					129	2.86																		
203	F26- F7	75	75	1.32																						
204	F25- F7	29	29	1.24			66	2.69																		
205	F7- F8	66					0	0.00																		
206	D1- F8	37					43	2.77																		
207	F8- F27	43																								
208	F34-F36	43	43	1.29																						
209	F36-F28	73	73	1.46																						
210	F28-F27	174	174	1.78																						
211	F27-D22	36					36	3.11																		
212	D22- D38	53					43	3.40																		
213	D40- D39	40	40	1.28																						
214	D39- D38	62	62	1.51																						
215	82D38-	152					152	3.53																		
216	82D20-82D23	69							69	5.00																
217	D24-D23	49							49	1.23																
218	82D23-	150							150	5.00																
219	82C53-82C53	140	140	1.49																						
220	C53-C52	60	60	1.91																						
221	C40-C38	8	8	1.31																						
222	C38-C52	40	40	1.52																						

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APPENDICES OF WASTE WATER COLLECTION SYSTEM

Sr. No	Line No.	Length of Sewer Line	Sewer Pipe Line 200 mm i/d		Sewer Pipe Line 250 mm i/d		Sewer Pipe Line 300 mm i/d		Sewer Pipe Line 350 mm i/d		Sewer Pipe Line 400 mm i/d		Sewer Pipe Line 450 mm i/d		Sewer Pipe Line 500 mm i/d		Sewer Pipe Line 700 mm i/d	
			Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth	Length	Avg Depth
1	2	2	M	5	M	7	M	8	M	11	M	12	M	14	M	16	M	21
223	C52-C16	214	214	2.68														
224	C41-C54	89	89	1.51														
225	C54-C20	81	81	2.08														
226	C20-C18	82		2.60														
227	C18-C16	30	30	2.99														
228	82C16-82D26	28	28	3.41														
229	82D26-	48							48	4.94								
230	D27-D28	219							219	5.11								
231	D28- D29	103							103	5.61								
232	D25- D29	69	69	1.33														
233	D29- D32	66							66	5.99								
234	D31- D32	10	10	1.27					70	5.41								
235	D32- D33	70																
236	D34- D33	48	48	1.30					65	4.83								
237	82D33-	65																
238	82D3- 82D2	50	50	1.35														
239	D2-D6	77	77	1.40														
240	D5-D6	11	11	1.22														
241	D6-D7	53	53	1.38														
242	D8-D7	134	134	1.60														
243	D7-D11	53	53	2.04														
244	D14-D10	10	10	1.22														
245	D10-D11	84	84	1.49														
246	D11- D15	73	73	2.25														
247	D15- D16	59	59	2.53														
248	D18- D16	41	41	1.22														
249	D16-D19	43	43	2.74														
250	D19- D17	57	57	2.96														
251	D41- D17	74	74	1.28														
252	82D17-82D21	16	16	3.12														
253	82D21-82D25	63																
254	82D25-X	17																
255	X-X	81																
256	85C12-85C11	26	26	0.96														
257	C21-C11	19	19	0.94														

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Appurtenances of Waste Water Collection System

Appurtenances of Waste Water Collection System																										
Sr. No	Line No.	Length of Sewer Line	Sewer Pipe Line 200 mm i/d			Sewer Pipe Line 250 mm i/d			Sewer Pipe Line 300 mm i/d			Sewer Pipe Line 350 mm i/d			Sewer Pipe Line 400 mm i/d			Sewer Pipe Line 450 mm i/d			Sewer Pipe Line 500 mm i/d			Sewer Pipe Line 700 mm i/d		
			Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth	
1	2	2	4	5		6	7		8	9		10	11		12	13		14	15		16	17		20	21	
258	C11-C10	55	55	1.13																						
259	C17-C10	61	61	1.32																						
260	C14-C10	103				103	1.32																			
261	C10-C9	58				58	1.51																			
262	C7-C9	110	110	1.55																						
263	C9-C6	49				49	1.95																			
264	C6-C5	65							65	2.18																
265	B39-B38	92	92	1.40																						
266	B38-B37	27	27	1.66																						
267	B37-C5	140	140	2.02																						
268	C5-C4	17													17	2.40										
269	C20-C4	90	90	1.39											20	2.47										
270	C4-C3	20																								
271	B41-B40	141	141	1.06																						
272	B42-B40	185	185	1.61																						
273	B40-C3	18	18	1.98																						
274	C3-C2	33													33	2.57										
275	C17-C16	37	37	1.33																						
276	C18-C16	34	34	1.27																						
277	C16-C15	49	49	1.62																						
278	C19-C15	42	42	1.29																						
279	C15-C2	25	25	1.87																						
280	C2-C1	40													40	2.70										
281	C1-B36	67													67	3.26										
282	B36-B15	177													177	4.06										
283	B25-B21	75	75	1.36																						
284	B29-B21	45	45	1.34																						
285	B21-B20	48	48	1.64																						
286	B24-B20	53	53	1.32																						
287	B30-B20	85	85	1.46																						
288	B20-B19	40	40	1.85																						
289	B31-B19	118	118	1.56																						
290	B19-B18	39	39	2.04																						
291	B23-B18	57	57	1.32																						
292	B33-B18	152	152	1.80																						
293	B18-B17	42	42	2.50																						
294	B34-B17	146	146	1.81																						
295	B17-B16	49	49	2.71																						
296	B22-B16	68	68	1.42																						
297	B35-B16	174	174	1.89																						
298	B16-B15	36							36	2.84																

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For VATIKA LIMITED

APPENDICES OF WASTE WATER COLLECTION SYSTEM																												
Sr. No	Line No.	Length of Sewer Line	Sewer Pipe Line 200 mm i/d			Sewer Pipe Line 250 mm i/d			Sewer Pipe Line 300 mm i/d			Sewer Pipe Line 350 mm i/d			Sewer Pipe Line 400 mm i/d			Sewer Pipe Line 450 mm i/d			Sewer Pipe Line 500 mm i/d			Sewer Pipe Line 700 mm i/d				
			Length	Avg Depth	M	Length	Avg Depth	M	Length	Avg Depth	M	Length	Avg Depth	M	Length	Avg Depth	M	Length	Avg Depth	M	Length	Avg Depth	M	Length	Avg Depth	M	Length	Avg Depth
1	2	2	4	5		6	7		8	9		10	11		12	13		14	15		16	17		20	21			
299	B15-B14	46													46	4.39												
300	B14-B7	50													50	4.45												
301	B12-B7	46	46	1.30																								
302	B7-B6	64													64	4.52												
303	B11-B6	39	39	1.28																								
304	B6-B5	35													35	4.57												
305	B10-B5	47	47	1.30																								
306	B5-B4	49													49	4.59												
307	B9-B4	47	47	1.30																								
308	B4-B3	28													28	4.61												
309	B8-B3	10	10	1.22																								
310	B3-B2	154																										
311	B2-B1	28																										
312	85B1-85A1	156																										
313	A1-A2	50																										
314	A6-A5	49	49	1.31																								
315	A5-A4	97	97	1.62																								
316	A4-A2	37	37	2.02																								
317	A2-X	20																										
	-																											
318	X-STP 2	54																										
	STP2-HUDA	40																										
	-	14736	10688	1.74		920	3.61		923	3.09		879	4.80		787	3.94					408	4.67		94	5.19			
319	83A36-83A37	75	75	1.43																								
320	83A37-83E7	23	23	1.66																								
321	E7-A41	32	32	1.66																								
322	A38-A40	40	40	1.20																								
323	A40-A51	24	24	1.27																								
324	A51-A41	129	129	1.66																								
325	A41-E6	17	17	1.96																								
326	E6-E6	122	122	1.85																								
327	E6-A42	36	36	2.51																								
328	A48-A49	25	25	1.18																								
329	A49-A50	182	182	1.40																								
330	A50-A42	150	150	1.84																								
331	A42-A56	13	13	2.51																								
332	E3-A56	104	104	1.43																								
333	A56-A43	43	43	2.51																								
334	A58-A43	27	27	1.22																								

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APPURTENANCES OF WASTE WATER COLLECTION SYSTEM

Sr. No	Line No.	Length of Sewer Line	Sewer Pipe Line 200 mm i/d			Sewer Pipe Line 250 mm i/d			Sewer Pipe Line 300 mm i/d			Sewer Pipe Line 350 mm i/d			Sewer Pipe Line 400 mm i/d			Sewer Pipe Line 450 mm i/d			Sewer Pipe Line 500 mm i/d			Sewer Pipe Line 700 mm i/d		
			Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth	
1	2	2	4	5		6	7		8	9		10	11		12	13		14	15		16	17		20	21	
335	A43-A57	7	7	2.51																						
336	A57-A44	47	47	2.51																						
337	A54-A44	72	72	1.30																						
338	A47-A46	34	34	1.18																						
339	B1-A46	30	30	1.25																						
340	A46-A45	62	62	1.35																						
341	A45-A44	67	67	1.68																						
342	83A44-83E1	217	217	2.47																						
343	83E16-83E15	121	121	1.41																						
344	E17-E15	100	100	1.37																						
345	E15-E5	67	67	1.75																						
346	E7-E5	160	160	0.95																						
347	E5-E4	50	50	1.86																						
348	E6-E4	54	54	1.13																						
349	E4-E14	122	122	2.20																						
350	E14-E13	54	54	2.44																						
351	E13-E13	117	117	1.39																						
352	E13-E11	20	20	2.32																						
353	E12-E11	47	47	1.30																						
354	E11-E10	36	36	2.33																						
355	E2-E2	109	109	1.14																						
356	E2-E10	163	163	1.73																						
357	E10-E8	49			49	2.34																				
358	83E8-83E1	163	163	2.63					66	2.96																
359	83E1-83B12	66																								
360	A52-A53	33	33	1.27																						
361	A53-B12	124	124	1.28																						
362	83B12-83B12	25							25	2.89																
363	SECTOR 84																									
364	84E3-84E2	46	46	1.00																						
365	E4-E2	18	18	0.94																						
366	E2-E1	20	20	1.14																						
367	E1-A7	48			48	1.40																				
368	A7-D23	95			95	1.57																				
369	D23-D7	86			86	2.08																				
370	D20-D7	71	71	1.37																						
371	D7-D21	29							29	2.67																
372	D21-D22	159							159	3.09																
373	D5-D22	43	43	1.53																						
374	D22-D18	47							47	3.69																

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Appurtenances of Waste Water Collection System

Sr. No	Line No.	Length of Sewer Line	Sewer Pipe Line 200 mm i/d			Sewer Pipe Line 250 mm i/d			Sewer Pipe Line 300 mm i/d			Sewer Pipe Line 350 mm i/d			Sewer Pipe Line 400 mm i/d			Sewer Pipe Line 450 mm i/d			Sewer Pipe Line 500 mm i/d			Sewer Pipe Line 700 mm i/d		
			Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth		Length	Avg Depth	
1	2	2	4	5		6	7		8	9		10	11		12	13		14	15		16	17		20	21	
374	A13-A12	3	3	1.20																						
375	A12-A12	53	53	1.31																						
376	A12-A11	54	54	1.55																						
377	A11-A1	141	141	1.97																						
378	A1-A2	53	53	2.30																						
379	A2-A2	30	30	1.26																						
380	D1-A2	52	52	1.31																						
381	A2-D2	62	62	2.51																						
382	D2-D19	116	116	3.04																						
383	D19-D18	129	129	3.57																						
384	D3-D18	145	145	1.52																						
385	D6-D18	42	42	1.29																						
386	D18-D17	53	53	1.48																						
387	D4-84D17	132	132																							
388	84D17-83B5	73	73																							
389	83B2-83B3	30	30	1.27																						
390	B3-B4	54	54	1.45																						
391	B6-B4	62	62	1.33																						
392	B4-B5	86	86	1.72																						
393	B5-83B5	206	206	2.02																						
394	83B5-83B22	84	84	4.46																						
395	B22-B21	35	35	4.52																						
396	B21-B19	18	18	4.51																						
397	B19-B27	53	53	4.34																						
398	B27-B17	14	14	4.22																						
399	B17-B14	55	55	4.37																						
400	B14-B13	39	39	4.69																						
401	83B13-83B12	16	16	4.80																						
402	83B12-83C10	213	213	4.50																						
403	C11-C10	76	76	1.32																						
404	83C10-83C7	67	67																							
405	C13-C6	215	215	1.59																						
406	83C6-83C7	71	71	2.22																						
407	83C7-83C8	31	31																							
408	83C12-83C8	147	147	1.46																						
409	83C8-STP1	15	15																							
		28226	20668			2235			2533			1336			787			408						15	4.37	

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Appurtenances of Waste Water Collection System

Sr. No	Line No.	Length of Sewer Line	No. of Man Holes										No. of Lamp Holes	No. of Vent Shafts	150 mm i/d Connecting Pipe
			200 mm i/d	250 mm i/d	300 mm i/d	350 mm i/d	400 mm i/d	450mm i/d	500 mm i/d	600 mm i/d	700 mm i/d				
			M	M	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	M
1	2	2	4	5	6	7	8	9	10	11	12	13	14	15	
1	83A2-83A5	40	2									2	1	18	
2	A5-A4	193	10									10		90	
3	A8-A4	41	2									2		18	
4	A4-A4	41	2									2		18	
5	A4-A7	52	3									3		27	
6	A20-A7	48	2									2		18	
7	A7-A7	105	5									5		45	
8	A7-A10	56	3									3		27	
9	A3-A3	40	2									2		18	
10	A3-A6	53	3									3		27	
11	A20-A6	48	2									2		18	
12	A6-A9	56	3									3		27	
13	A18-A15	18	1									1	1	9	
14	A16-A15	40	2									2		18	
15	A15-A12	53	3									3		27	
16	A19-A12	58	3									3		27	
17	A12-A9	54	3									3		27	
18	A9-A10	175	9									9		81	
19	A13-A10	30	2									2		18	
20	A10-A11	175	9									9	1	81	
21	A11-A11	23	1									1		9	
22	A11-A14	53	3									3		27	
23	A60-A59	73	4									4		36	
24	A59-A14	101	5									5		45	
25	A14-E25	110	6									6		54	
26	E25-E23	45	2									2		18	
27	E30-E29	27	1									1		9	
28	E29-E27	85	4									4		36	
29	E33-E27	84	4									4		36	
30	E28-E26	77	4									4		36	
31	E26-E27	68	3									3		27	
32	E27-E31	83	4									4		36	
33	E31-E21	92	5									5		45	
34	E21-E22	44	2									2		18	
35	E22-A22	84	4									4		36	
36	A22-E23	19	1									1		9	
37	E23-A21	91			5							5		45	

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Appurtenances of Waste Water Collection System

Sr. No	Line No.	Length of Sewer Line	No. of Man Holes										No. of Lamp Holes	No. of Vent Shafts	150 mm i/d Connecting Pipe
			200 mm i/d	250 mm i/d	300 mm i/d	350 mm i/d	400 mm i/d	450mm i/d	500 mm i/d	600 mm i/d	700 mm i/d				
			M	M	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
1	2	2	4	5	6	7	8	9	10	11	12	13	14	15	M
38	A21-A35	181			9							9		81	
39	A35-A28	17			1							1		9	
40	A28-A31	57			3							3		27	
41	A32-A31	44	2									2		18	
42	A31-A34	69			3							3		27	
43	83A34-83A29	108				5						5		45	
44	83A29-82E24	98				5						5		45	
45	82E24-82E	13				1						1		9	
SECTOR 82A-															
46	82A31-82A33	60	3									3		27	
47	A34-A33	6													
48	A33-A35	50	3									3		27	
49	A37-A36	7											1		
50	A36-A35	50	3									3		27	
51	A35-A32	71	4									4		36	
52	A49-A31	5													
53	A31-A32	50	3									3	1	27	
54	A32-A6	40	2									2		18	
55	A6-A5	61	3									3		27	
56	A21-A20	2													
57	A20-A15	26	1									1		9	
58	A15-A16	85	4									4		36	
59	A20-A16	50	3									3		27	
60	A16-A17	23	1									1		9	
61	A17-A5	61	3									3	1	27	
62	A5-A60	81	4									4		36	
63	A60-A59	64	3									3		27	
64	A59-A14	69	3									3		27	
65	A14-A10	95	5									5		45	
66	A28-A27	84	4									4		36	
67	A27-A26	73	4									4		36	
68	A26-A25	101	5									5		45	
69	A25-A24	60	3									3		27	
70	A24-A23	86	4									4		36	
71	A23-A22	102	5									5		45	
72	A22-A10	98	5									5		45	
73	A10-A9	56	3									3		27	
74	A9-A58	103	5									5		45	
75	A58-A3	50	3									3		27	

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