

**Madaveli Sewer network Flow Rates**

**PS-01**

	PIPE POSITION	(M)	Slope	No of Connections	No. Of Connections Cum.	FR pipe end L/d (cum F L/D)	Q L/S	Q0 L/S	Qp = Q/Q0	Depth of flow (d), mm	PIPE DIA , I/D
1	CO1-IC1	60	0.004	3	3	2,685.15	0.03	16.60	0.0018	4.48	150
2	IC1-IC2	60	0.004	3	6	5,370.30	0.06	16.60	0.0036	8.95	150
3	CO4-IC4	58.4	0.004	6	6	5,370.30	0.06	16.60	0.0036	8.95	150
4	IC4-IC3	60	0.004	0	12	10,740.60	0.12	16.60	0.0072	17.90	150
5	CO3-IC5	47.5	0.004	5	5	4,475.25	0.05	16.60	0.0030	7.46	150
6	IC5-IC3	53.6	0.004	3	3	2,685.15	0.03	16.60	0.0018	4.48	150
7	CO2-IC3	59.3	0.004	6	6	5,370.30	0.06	16.60	0.0036	8.95	150
8	IC3-IC2	60	0.004	4	18	16,110.90	0.18	16.60	0.0108	26.85	150
9	IC2-PS1	11.3	0.004	0	30	26,851.50	0.30	16.60	0.0180	44.75	150
	<b>Total</b>	<b>470.1</b>		<b>30</b>							

**Madaveli Sewer network Flow Rates**

**PS-02**

	PIPE POSITION	(M)	Slope	No of Connectio ns	No. Of Connectio ns Cum.	FR pipe end L/d (cum F L/D)	Q L/S	Q0 L/S	Qp = Q/Q0	Depth of flow (d), mm	PIPE DIA , I/D
1	CO5-IC6	53.9	0.004	5	5	4,475.25	0.05	16.60	0.0030	7.46	150
2	IC6-IC7	56.54	0.004	5	10	8,950.50	0.10	16.60	0.0060	14.92	150
3	IC7-IC12	34	0.004	1	11	9,845.55	0.11	16.60	0.0066	16.41	150
4	CO6-IC8	33	0.004	2	2	1,790.10	0.02	16.60	0.0012	2.98	150
5	CO7-IC8	28	0.004	3	3	2,685.15	0.03	16.60	0.0018	4.48	150
6	IC8-IC10	50.7	0.004	4	9	8,055.45	0.09	16.60	0.0054	13.43	150
7	CO8-IC9	28	0.004	2	2	1,790.10	0.02	16.60	0.0012	2.98	150
8	IC8-IC10	25	0.004	0	2	1,790.10	0.02	16.60	0.0012	2.98	150
9	IC10-IC11	54.8	0.004	3	14	12,530.70	0.14	16.60	0.0084	20.88	150
10	IC11-IC12	50.56	0.004	3	17	15,215.85	0.17	16.60	0.0102	25.36	150
11	IC12-IC13	60	0.004	2	30	26,851.50	0.30	16.60	0.0180	44.75	150
12	CO13-IC18	16	0.004	3	3	2,685.15	0.03	16.60	0.0018	4.48	150
13	IC18-IC17	55.2	0.004	2	5	4,475.25	0.05	16.60	0.0030	7.46	150
14	CO11-IC17	26.2	0.004	5	5	4,475.25	0.05	16.60	0.0030	7.46	150
15	CO12-IC17	21.3	0.004	2	2	1,790.10	0.02	16.60	0.0012	2.98	150
16	IC17-IC19	56.3	0.004	3	15	13,425.75	0.15	16.60	0.0090	22.38	150
17	CO10-IC20	31.4	0.004	5	5	4,475.25	0.05	16.60	0.0030	7.46	150
18	IC20-IC16	42.5	0.004	1	6	5,370.30	0.06	16.60	0.0036	8.95	150
19	CO9-IC16	52.73	0.004	6	6	5,370.30	0.06	16.60	0.0036	8.95	150
20	IC16-IC15	36	0.004	5	17	15,215.85	0.17	16.60	0.0102	25.36	150
21	IC16-IC19	37.88	0.004	3	20	17,901.00	0.20	16.60	0.0120	29.84	150
22	IC19-IC14	11.2	0.004	0	35	31,326.75	0.35	16.60	0.0210	52.21	150
23	IC14-IC21	45	0.004	5	40	35,802.00	0.40	16.60	0.0240	59.67	150
24	IC21-IC13	45	0.004	4	44	39,382.20	0.44	16.60	0.0264	65.64	150
25	IC13-PS2	6.6	0.004	0	74	66,233.70	0.74	16.60	0.0443	110.39	150
	<b>Total</b>	<b>957.81</b>		<b>74</b>							



**Madaveli Sewer network Flow Rates**

**PS-03**

	PIPE POSITION	(M)	Slope	No of Connectio ns	No. Of Connectio ns Cum.	FR pipe end L/d (cum F L/D)	Q L/S	Q0 L/S	Qp = Q/Q0	Depth of flow (d), mm	PIPE DIA , I/D
1	CO15-IC21	29.8	0.004	5	5	4,475.25	0.05	16.60	0.0030	7.46	150
2	IC21-IC22	33.3	0.004	1	6	5,370.30	0.06	16.60	0.0036	8.95	150
3	IC22-IC23	33.3	0.004	1	7	6,265.35	0.07	16.60	0.0042	10.44	150
4	CO14-IC23	32.8	0.004	3	3	2,685.15	0.03	16.60	0.0018	4.48	150
5	IC23-IC24	49.3	0.004	5	15	13,425.75	0.15	16.60	0.0090	22.38	150
6	IC24-IC25	40.9	0.004	3	18	16,110.90	0.18	16.60	0.0108	26.85	150
7	CO17-IC25	47.85	0.004	4	4	3,580.20	0.04	16.60	0.0024	5.97	150
8	IC25-IC26	35.1	0.004	2	24	21,481.20	0.24	16.60	0.0144	35.80	150
9	CO20-IC29	32.4	0.004	4	4	3,580.20	0.04	16.60	0.0024	5.97	150
10	IC29-IC28	57.5	0.004	1	5	4,475.25	0.05	16.60	0.0030	7.46	150
11	CO19-IC28	8	0.004	2	2	1,790.10	0.02	16.60	0.0012	2.98	150
12	IC28-IC26	59	0.004	3	10	8,950.50	0.10	16.60	0.0060	14.92	150
13	CO18-IC30	33.5	0.004	4	4	3,580.20	0.04	16.60	0.0024	5.97	150
14	CO16-IC30	54.16	0.004	4	4	3,580.20	0.04	16.60	0.0024	5.97	150
15	IC30-IC26	51.5	0.004	3	11	9,845.55	0.11	16.60	0.0066	16.41	150
16	IC26-IC27	33.5	0.004	2	47	42,067.35	0.47	16.60	0.0282	70.11	150
17	CO21-IC27	7	0.004	2	2	1,790.10	0.02	16.60	0.0012	2.98	150
18	IC27-PS3	2	0.004	0	49	43,857.45	0.49	16.60	0.0294	73.10	150
	<b>Total</b>	<b>640.91</b>		<b>49</b>							

### Madaveli Sewer network Flow Rates

#### PS-04

	PIPE POSITION	(M)	Slope	No of Connectio ns	No. Of Connectio ns Cum.	FR pipe end L/d (cum F L/D)	Q L/S	Q0 L/S	Qp = Q/Q0	Depth of flow (d), mm	PIPE DIA , I/D
1	CO24-IC31	26	0.004	3	3	2,685.15	0.03	16.60	0.0018	4.48	150
2	IC31-IC32	47	0.004	3	6	5,370.30	0.06	16.60	0.0036	8.95	150
3	CO22-IC32	25.3	0.004	2	2	1,790.10	0.02	16.60	0.0012	2.98	150
4	IC32-IC33	47.4	0.004	3	11	9,845.55	0.11	16.60	0.0066	16.41	150
5	IC33-IC34	47.3	0.004	1	12	10,740.60	0.12	16.60	0.0072	17.90	150
6	CO25-IC36	38.5	0.004	4	4	3,580.20	0.04	16.60	0.0024	5.97	150
7	IC36-IC35	41	0.004	2	6	5,370.30	0.06	16.60	0.0036	8.95	150
8	IC35-IC34	60	0.004	2	8	7,160.40	0.08	16.60	0.0048	11.93	150
9	IC34-IC37	48.76	0.004	1	21	18,796.05	0.21	16.60	0.0126	31.33	150
10	CO30-IC46	36.1	0.004	2	2	1,790.10	0.02	16.60	0.0012	2.98	150
11	IC46-IC45	51.4	0.004	4	6	5,370.30	0.06	16.60	0.0036	8.95	150
12	CO29-IC45	25.9	0.004	3	3	2,685.15	0.03	16.60	0.0018	4.48	150
13	IC45-IC44	44.5	0.004	2	11	9,845.55	0.11	16.60	0.0066	16.41	150
14	CO23-IC47	35	0.004	4	4	3,580.20	0.04	16.60	0.0024	5.97	150
15	IC44-IC43	56.42	0.004	6	21	18,796.05	0.21	16.60	0.0126	31.33	150
16	IC43-IC37	57	0.004	6	27	24,166.35	0.27	16.60	0.0162	40.28	150
17	CO27-IC42	26	0.004	3	3	2,685.15	0.03	16.60	0.0018	4.48	150
18	IC42-IC41	49.4	0.004	5	8	7,160.40	0.08	16.60	0.0048	11.93	150
19	IC41-IC40	50	0.004	3	11	9,845.55	0.11	16.60	0.0066	16.41	150
20	CO26-IC40	60	0.004	6	6	5,370.30	0.06	16.60	0.0036	8.95	150
21	IC40-IC49	36.1	0.004	0	17	15,215.85	0.17	16.60	0.0102	25.36	150
22	IC49-IC39	36	0.004	0	17	15,215.85	0.17	16.60	0.0102	25.36	150
23	CO28-IC48	28.2	0.004	2	2	1,790.10	0.02	16.60	0.0012	2.98	150

24	IC48-IC39	54	0.004	3	5	4,475.25	0.05	16.60	0.0030	7.46	150
25	IC39-IC38	46.66	0.004	0	22	19,691.10	0.22	16.60	0.0132	32.82	150
26	IC38-IC37	5.21	0.004	1	50	44,752.50	0.50	16.60	0.0300	74.59	150
27	IC37-PS4	3	0.004	0	71	63,548.55	0.71	16.60	0.0425	105.91	150
	<b>Total</b>	<b>1082.15</b>		<b>71</b>							

**Madaveli Sewer network Flow Rates**

**PS-05**

	PIPE POSITION	(M)	Slope	No of Connectio ns	No. Of Connectio ns Cum.	FR pipe end L/d (cum F L/D)	Q L/S	Q0 L/S	Qp = Q/Q0	Depth of flow (d), mm	PIPE DIA , I/D
1	CO31-IC51	39.4	0.004	4	4	3,580.20	0.04	16.60	0.0024	5.97	150
2	CO32-IC51	28.75	0.004	2	2	1,790.10	0.02	16.60	0.0012	2.98	150
3	IC51-IC52	49.7	0.004	3	9	8,055.45	0.09	16.60	0.0054	13.43	150
4	CO33-IC50	59.4	0.004	5	5	4,475.25	0.05	16.60	0.0030	7.46	150
5	IC52-IC53	50	0.004	7	21	18,796.05	0.21	16.60	0.0126	31.33	150
6	CO34-IC54	51	0.004	5	5	4,475.25	0.05	16.60	0.0030	7.46	150
7	IC54-IC53	60	0.004	5	10	8,950.50	0.10	16.60	0.0060	14.92	150
8	CO36-IC57	27.3	0.004	4	4	3,580.20	0.04	16.60	0.0024	5.97	150
9	IC57-IC56	55.1	0.004	2	6	5,370.30	0.06	16.60	0.0036	8.95	150
10	CO35-IC56	41.7	0.004	2	2	1,790.10	0.02	16.60	0.0012	2.98	150
11	IC56-IC55	60	0.004	1	9	8,055.45	0.09	16.60	0.0054	13.43	150
12	IC55-IC53	60	0.004	4	13	11,635.65	0.13	16.60	0.0078	19.39	150
13	IC53-IC64	6	0.004	0	44	39,382.20	0.44	16.60	0.0264	65.64	150
14	CO37-IC58	39	0.004	3	3	2,685.15	0.03	16.60	0.0018	4.48	150
15	IC58-IC59	39	0.004	1	4	3,580.20	0.04	16.60	0.0024	5.97	150
16	IC59-IC61	39	0.004	6	10	8,950.50	0.10	16.60	0.0060	14.92	150
17	CO38-IC60	39	0.004	3	3	2,685.15	0.03	16.60	0.0018	4.48	150
18	IC60-IC61	39	0.004	1	4	3,580.20	0.04	16.60	0.0024	5.97	150
19	IC61-IC62	25	0.004	1	15	13,425.75	0.15	16.60	0.0090	22.38	150
20	CO39-IC63	11	0.004	3	3	2,685.15	0.03	16.60	0.0018	4.48	150
21	IC63-IC62	60	0.004	6	9	8,055.45	0.09	16.60	0.0054	13.43	150
22	IC62-IC64	52	0.004	1	25	22,376.25	0.25	16.60	0.0150	37.29	150
23	IC64-PS5	4	0.004	0	69	61,758.45	0.69	16.60	0.0413	102.93	150
	<b>Total</b>	<b>935.35</b>		<b>69</b>							

**Madaveli Sewer network Flow Rates**

**PS-06**

	PIPE POSITION	(M)	Slope	No of Connectio ns	No. Of Connectio ns Cum.	FR pipe end L/d (cum F L/D)	Q L/S	Q0 L/S	Qp = Q/Q0	Depth of flow (d), mm	PIPE DIA , I/D
1	CO40-IC65	47.5	0.004	4	4	3,580.20	0.04	16.60	0.0024	5.97	150
2	IC65-IC66	43.5	0.004	3	7	6,265.35	0.07	16.60	0.0042	10.44	150
3	IC66-IC67	43.5	0.004	3	10	8,950.50	0.10	16.60	0.0060	14.92	150
4	CO45-IC73	35.2	0.004	4	4	3,580.20	0.04	16.60	0.0024	5.97	150
5	CO44-IC73	41.5	0.004	6	6	5,370.30	0.06	16.60	0.0036	8.95	150
6	IC73-IC72	35	0.004	1	11	9,845.55	0.11	16.60	0.0066	16.41	150
7	IC72-IC71	35	0.004	1	12	10,740.60	0.12	16.60	0.0072	17.90	150
8	CO43-IC71	14.66	0.004	1	1	895.05	0.01	16.60	0.0006	1.49	150
9	IC71-IC70	21	0.004	1	14	12,530.70	0.14	16.60	0.0084	20.88	150
10	CO41-IC70	51.8	0.004	6	6	5,370.30	0.06	16.60	0.0036	8.95	150
11	IC70-IC68	38.2	0.004	0	20	17,901.00	0.20	16.60	0.0120	29.84	150
12	CO42-IC74	41	0.004	1	1	895.05	0.01	16.60	0.0006	1.49	150
13	IC74-IC69	41	0.004	1	2	1,790.10	0.02	16.60	0.0012	2.98	150
14	IC69-IC68	53	0.004	4	6	5,370.30	0.06	16.60	0.0036	8.95	150
15	IC68-IC67	60	0.004	4	40	35,802.00	0.40	16.60	0.0240	59.67	150
16	IC67-PS6	5.5	0.004	0	40	35,802.00	0.40	16.60	0.0240	59.67	150
	<b>Total</b>	<b>607.36</b>		<b>40</b>							

**Madaveli Sewer network Flow Rates**

**PS-07**

	PIPE POSITION	(M)	Slope	No of Connectio ns	No. Of Connectio ns Cum.	FR pipe end L/d (cum F L/D)	Q L/S	Q0 L/S	Qp = Q/Q0	Depth of flow (d), mm	PIPE DIA , I/D
1	CO46-IC74	54	0.004	6	6	5,370.30	0.06	16.60	0.0036	8.95	150
2	CO49-IC74	39.3	0.004	4	4	3,580.20	0.04	16.60	0.0024	5.97	150
3	IC74-IC76	45.72	0.004	6	16	14,320.80	0.16	16.60	0.0096	23.87	150
4	CO50-IC75	15.5	0.004	2	2	1,790.10	0.02	16.60	0.0012	2.98	150
5	IC75-IC76	27.43	0.004	2	4	3,580.20	0.04	16.60	0.0024	5.97	150
6	IC76-IC77	33.22	0.004	1	21	18,796.05	0.21	16.60	0.0126	31.33	150
7	CO48-IC79	42.9	0.004	3	3	2,685.15	0.03	16.60	0.0018	4.48	150
8	IC79-IC78	33.3	0.004	1	4	3,580.20	0.04	16.60	0.0024	5.97	150
9	CO47-IC78	48.5	0.004	6	6	5,370.30	0.06	16.60	0.0036	8.95	150
10	IC78-IC77	48.5	0.004	6	16	14,320.80	0.16	16.60	0.0096	23.87	150
11	IC77-IC80	40.4	0.004	0	37	33,116.85	0.37	16.60	0.0222	55.19	150
12	CO52-IC84	22.5	0.004	2	2	1,790.10	0.02	16.60	0.0012	2.98	150
13	IC84-IC83	54	0.004	6	8	7,160.40	0.08	16.60	0.0048	11.93	150
14	IC83-IC82	55.5	0.004	2	10	8,950.50	0.10	16.60	0.0060	14.92	150
15	IC82-IC80	60	0.004	1	11	9,845.55	0.11	16.60	0.0066	16.41	150
16	CO51-IC81	53	0.004	3	3	2,685.15	0.03	16.60	0.0018	4.48	150
17	IC81-IC80	52.3	0.004	3	6	5,370.30	0.06	16.60	0.0036	8.95	150
18	IC80-PS7	5.2	0.004	0	54	48,332.70	0.54	16.60	0.0324	80.55	150
	<b>Total</b>	<b>731.27</b>		<b>54</b>							