

Kodihalli MVWSS
Area required for Project

Sl No	Type / Dia of pipe / Structures	Unit	Nos	Length in m	Breath in m	Area in Sqm	Remarks
I	MS pipe						
1	610MS5.8	Sqm		10950	1	10950	
2	508MS5	Sqm		9900	1	9900	
3	406.4MS4	Sqm		21630	1	21630	
4	355.6MS4	Sqm		5000	1	5000	
5	323.9MS4	Sqm		12620	1	12620	
6	273MS3.6	Sqm		3900	1	3900	
7	168.3MS4	Sqm		40	1	40	
	Sub Total (A)			64040		64040	
II	DI pipe						
1	200DIK9	Sqm		13560	1	13560	
2	200DIK7	Sqm		1850	1	1850	
3	150DIK9	Sqm		2480	1	2480	
4	150DIK7	Sqm		6000	1	6000	
5	100DIK9	Sqm		6615	1	6615	
6	100DIK7	Sqm		2030	1	2030	
	Sub Total (B)	Sqm		32535		32535	
III	HDPE pipe						
1	250HDPEPN12.5	Sqm		4850	1	4850	
2	250HDPEPN10	Sqm		1925	1	1925	
3	250HDPEPN8	Sqm		650	1	650	
4	250HDPEPN6	Sqm		200	1	200	
5	225HDPEPN10	Sqm		2110	1	2110	
6	225HDPEPN8	Sqm		4390	1	4390	
7	200HDPEPN12.5	Sqm		6350	1	6350	
8	200HDPEPN10	Sqm		5235	1	5235	
9	200HDPEPN8	Sqm		10000	1	10000	
10	200HDPEPN6	Sqm		4720	1	4720	
11	180HDPEPN10	Sqm		340	1	340	
12	180HDPEPN8	Sqm		5435	1	5435	
13	160HDPEPN12.5	Sqm		4621	1	4621	
14	160HDPEPN10	Sqm		7620	1	7620	
15	160HDPEPN8	Sqm		3503	1	3503	
16	160HDPEPN6	Sqm		4611	1	4611	
17	140HDPEPN12.5	Sqm		9810	1	9810	
18	140HDPEPN10	Sqm		1370	1	1370	
19	140HDPEPN8	Sqm		4100	1	4100	
20	140HDPEPN6	Sqm		5507	1	5507	
21	125HDPEPN12.5	Sqm		4165	1	4165	
22	125HDPEPN10	Sqm		7415	1	7415	
23	125HDPEPN8	Sqm		1505	1	1505	
24	125HDPEPN6	Sqm		7800	1	7800	

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25	110HDPEPN12.5	Sqm		9315	1	9315	
26	110HDPEPN10	Sqm		9900	1	9900	
27	110HDPEPN8	Sqm		12603	1	12603	
28	110HDPEPN6	Sqm		14087	1	14087	
29	90HDPEPN16	Sqm		5050	0.7	3535	
30	90HDPEPN12.5	Sqm		14206	0.7	9944.2	
31	90HDPEPN10	Sqm		8358	0.7	5850.6	
32	90HDPEPN8	Sqm		13573	0.7	9501.1	
33	90HDPEPN6	Sqm		12789	0.7	8952.3	
34	75HDPEPN12.5	Sqm		7020	0.7	4914	
35	75HDPEPN10	Sqm		11429	0.7	8000.3	
36	75HDPEPN8	Sqm		13755	0.7	9628.5	
37	75HDPEPN6	Sqm		21869	0.7	15308.3	
38	63HDPEPN16	Sqm		8020	0.7	5614	
39	63HDPEPN12.5	Sqm		25328	0.7	17729.6	
40	63HDPEPN10	Sqm		21300	0.7	14910	
41	63HDPEPN8	Sqm		24632	0.7	17242.4	
42	63HDPEPN6	Sqm		61896	0.7	43327.2	
	Sub Total (C)	Sqm		403362		328594.5	
	5 % for Valves, Thrust Blocks & other misc works					21514.525	
	Total (A+B+C) FOR PIPE LINE WORKS	Sqm		18410		446684.03	
	Jackwell cum Pump House	Sqm	1	20	20	400	
	Sub station	Sqm	1	15	10	150	
	Water Treatment Plant including Sub station	Sqm	1	135	65	8775	
	Master Balancing Reservoir -13.50LL GLSR	Sqm	1	30	30	900	
	Zonal Balancing Reservoir -1 (ZBR 1) - 0.30 LL GLSR	Sqm	1	10	10	100	
	Zonal Balancing Reservoir -2 (ZBR 2) - 2.5 LL GLSR	Sqm	1	13	13	169	
	Zonal Balancing Reservoir -3 (ZBR 3) - 0.45 LL GLSR	Sqm	1	10	10	100	
	Zonal Balancing Tank -4 (ZBT 4) 0.70LL ELSR	Sqm	1	11	11	121	
	Intermediate Pumping Station (IPS-1) 0.35LL	Sqm	1	10	10	100	
	Intermediate Pumping Station (IPS-2) 1.2LL	Sqm	1	10	10	100	
	Intermediate Pumping Station (IPS-3) 0.1LL	Sqm	1	10	10	100	

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SI No	Type / Dia of pipe / Structures	Unit	Nos	Length in m	Breath in m	Area in Sqm	Remarks
	Intermediate Pumping Station (IPS-4) 0.7LL	Sqm	1	10	10	100	
	Intermediate Pumping Station (IPS-5) 0.2LL	Sqm	1	10	10	100	
	Over Head Tank of Capacity 0.10 LL	Sqm	34	10	10	3400	
	Over Head Tank of Capacity 0.15 LL	Sqm	30	10	10	3000	
	Over Head Tank of Capacity 0.20 LL	Sqm	18	10	10	1800	
	Over Head Tank of Capacity 0.30 LL	Sqm	29	10	10	2900	
	Over Head Tank of Capacity 0.40 LL	Sqm	13	10	10	1300	
	Over Head Tank of Capacity 0.50 LL	Sqm	6	10	10	600	
	Over Head Tank of Capacity 0.60 LL	Sqm	8	12	12	1152	
	Over Head Tank of Capacity 0.75 LL	Sqm	1	12	12	144	
	For Electrical line	Sqm	1	1870	1.5	2805	
	Sub Total (D)	Sqm		709835		28316	
	Grant Total					475000.03	
	Total Area in Hectare					47.50	


 Executive Engineer,
 Rural Drinking Water Supply and Sanitation
 Division Ramanagara