

Name of the Scheme	:	Combined water supply scheme to Kilkodungalore and 76 other habitations in Vandavasi Union
No. of Habitation	:	77
Administrative sanction No.	:	BP Ms. No.78/29.08.07 Rs.4.60 Crores
Technical Sanction No.	:	CER No.29/2007-08 / of 07.09.2007 of Rs.4.98 Crores
Population		
Present (2001)	:	27901
Designed (2009)	:	29296
Intermediate 2024	:	32227
Ultimate 2039	:	35154
Ultimate daily requirement	:	984166 litres
Requirement in LPM		
Intermediate 2024	:	785 lpm (0.942 mld)
Ultimate 2039	:	850 lpm (1.020 mld)
Hours of Pumping		
Head works and collection sumps	:	20 hrs
Group sumps	:	12 hrs
Head works		

a)	Source	DIA	Depth	Yield
	Infiltration well No. (1)	4.50m	10m	350 lpm
	Infiltration well No. (2)	4.50m	10m	350 lpm
	Infiltration well No. (3)	4.50m	6.60m	300 lpm
	RCC Ring Well	1.50m	1.50m	

Pump Set:

For infiltration Well:

- Well No.1 : Submersible Pumpset 3 HP x 262 Lpm x 24m
(with stand by 1 No.)
- Well No.2 : Submersible Pumpset 3 HP x 262 Lpm x 25m
(with stand by 1 No.)
- Well No.3 : Submersible Pumpset 3 HP x 262 Lpm x 27m
(with stand by 1 No.)

For Common Sump at Head Work Site:

Capacity of Sump : 60000 Ltrs. 1 No.

Size of Pump Room : 6m x 4m 1 No.

Pump set : Submersible Pumpset ²⁰10 HP x 785 Lpm x 34m
(with stand by 1 No.)

(iii) Short Raising Main	:	100mm CI D/F Pipe	110 mm PVC Pipe	Total
From IW No.1 to Sump :	96m	461m	557m	
From IW No.2 to Sump :	136m	682m	818m	
From IW No.3 to Sump :	128m	1087m	1215m	

8. Group Sumps:

- i) At Vilangadu : 1,10,000 Ltrs - 1No.
- ii) At Kil Kodungalore : 1,60,000 Ltrs - 1 No.
- iii) At Athiyanoor : 50,000 Ltrs - 1 No.
- iv) At Ossur : 1,30,000 Ltrs - 1 No.

9. Pump Rooms:

- i) At Vilangadu : 4 m x 3m - 1No.
- ii) At Kil Kodungalore : 4 m x 3m - 1 No.
- iii) At Athiyanoor : 4 m x 3m - 1 No.
- iv) At Ossur : 4 m x 3m - 1 No.

10. Pump sets at Group Sumps:

(i) At Vilangadu Sump	:	
a) Booster to Irumbedu Colony	:	Submersible pumpset 3 HP x 198 Lpm, x 23m with standby
b) Booster to Kilpakkam colony	:	Submersible pumpset 5 HP x 133 Lpm, x 21m with standby
(ii) At Kil Kodungalore Sump:	:	
a) Pumping to Ossur Sump	:	Submersible pumpset ¹² 5 HP x 328 Lpm, x 37m with standby
b) Booster to Agathigapuram	:	Submersible pumpset 3 HP x 199 Lpm, x 21m with standby
c) Booster to Velangadu	:	Submersible pumpset 3 HP x 94 Lpm, x21m with standby

d) Booster to Kottai	:	Submersible pumpset 3 HP x 142 Lpm, x 26m with standby
At Athiyanoor Sump:		
a) Booster to Amanampakkam	:	Submersible pumpset 3 HP x95 Lpm, x 17m with standby
b) Booster to Doby Colony	:	Submersible pumpset 3 HP x55 Lpm, x24m with standby
At Ossur Sump:		
a) Booster to Venmanthai Colony	:	Submersible pumpset 3 HP x117Lpm,x25m with standby
b) Booster to Amudur Colony	:	Submersible pumpset 3 HP x 72 Lpm, x19m with standby
c) Booster to Mathipankulam AR Colony	:	Submersible pumpset 5 HPx203 Lpm,x 26m with standby

11. Pumping Main and Booster Pumping Main:

S. No	Type of Main	L.S.		PIPE DETAILS	
		From	To	Size of Pipe	Length in m.
	Pumping Main				
1.	From Common Sump to Vilagadu Sump	0	19722	200 mm Accl 15	19232
				200mm DI k7	490
2.	From Vilangadu sump to Kil kodungalore Sump	19722	25860	200mm Accl 15	2868
				160mm OD pvc	3270
3.	From Kilkodungalore sump to Athiyanoor sump	0	4660	140mm PVC	4660
4.	From Athiyanoor sump to Ossur sump	4660	13241	110 mm PVC	8223
				80mm GI Pipe	358

S. No	Type of Main	PIPE DETAILS	
		Size of Pipe	Length in m.
	Booster Pumping Main		
1.	At Vilagadu Sump		
	i) To Irumbedu Colony	90mm PVC	1931
		75 mm PVC	1879
		63mm PVC	1465
		50mm PVC 6KSC	1772
		40mm GI	589
		32mm GI	772
	ii) To Kilpakkam Colony	90mm PVC	507
		75 mm PVC	3015
		63mm PVC	1656
		50mm PVC 6KSC	208
		50mm GI	8
		40mm GI	315
		32mm GI	598

S. No	Type of Main	PIPE DETAILS	
		Size of Pipe	Length in m.
2.	At Kilkodungalore Sump		
	i) To Agathikapuram	90mm PVC 75 mm PVC 63mm PVC 40mm GI 32mm GI	857 1838 904 2832 87
	ii) To Kottai	75 mm PVC 63mm PVC 50mm PVC 6KSC 40mm GI 32mm GI	3932 502 420 499 615
	iii) To Velangadu	75 mm PVC 63mm PVC 50mm PVC 6KSC 40mm GI 32mm GI	194 378 664 264 120
3.	AT Athiyanoor sump		
	i) To Amanambakkam	75 mm PVC 63mm PVC 50 mm PVC6KSC 40mm GI 32mm GI	1396 1772 1716 18 699
	ii) To Doby Colony	75 mm PVC 50mm PVC 6KSC 32mm GI	2158 1540 3943
4.	At Ossur Sump		
	i) To Mathipenkulam AR Colony	90mm PVC 63mm PVC 50mm PVC 50mm GI 40mm GI 32mm GI	4141 1716 572 61 336 116
	ii) To Venmanthai Colony	75 mm PVC 63mm PVC 50mm PVC 6KSC 40mm GI 32mm GI	3027 2602 1396 857 156
	iii) To Amuthur Old Colony	75 mm PVC 63mm PVC 50mm PVC 6KSC 40mm GI 32mm GI	5869 933 1313 578 522

DETAILS OF COVERAGE HABITATIONS IN VANDAVASI UNION

Sl. No	Name of Panchayat	Name of Habitation	Code No.	Population 2024	Requirement in LPM
1.	Kilkodungalore	Kil kodungalore		1734	40
2.	Kilkodungalore	Sakkili kudisai		116	6
3.	Kilkodungalore	Velangadu		352	8
4.	Kilkodungalore	Kannigapuram		693	16
5.	Kilkodungalore	Bharathi Nagar		162	6
6.	Kilkodungalore	Agathigapuram		362	8
7.	Kilkodungalore	Kavedu		449	10
8.	Kilkodungalore	Ambethkar Nagar		980	22
9.	Kilkodungalore	Thiruvalluvar Nagar		462	11
10	Kilkodungalore	Govindasamy Nagar		359	8
11	Kilkodungalore	R.I. Quarters		352	8
12	Kilkodungalore	M.G.R. Nagar		220	6
13	Kilnarma	Kilnarma		751	17
14	Kilnarma	Kilnarma Colony		347	8
15	Kilnarma	Thideer Nagar		183	4
16	Kilpakkam	Kilpakkam		949	22
17	Kilpakkam	Kilpakkam Colony		231	6
18	Irumbedu	Irumbedu		1789	41
19	Irumbedu	Irumbedu Colony		444	10
20	Irumbedu	Murukkeri		485	11
21	Melkodungalore	Melkodungalore		462	11
22	Melkodungalore	Melkodungalore Colony		352	8
23	Melkodungalore	Velacheri		360	8
24	Punnai	Punnai		347	8
25	Punnai	Poosali Colony		289	7
26	Punnai	Nandamangalam		289	7
27	Punnai	Punnai Colony		980	22
28	Punnai	KootRoad		128	8
29	Punnai	Mathipankulam		352	8

30	Punnai	Mathipankulam AR colony	309	7
31	Amudur	Amudur Colony	360	8
32	Amudur	Amudur Old Colony	231	3
33	Mudur	Mudur	479	11
34	Mudur	Mudur Colony	424	10
35	Mudur	Bharathinagar	118	6
36	Ossur	Ossur	809	19
37	Ossur	Ossur MelColony	980	22
38	Ossur	Ossur Kootroad	347	8
39	Ossur	Ettikuttai	350	8
40	Ossur	NewColony	289	7
41	Ossur	Puravada	121	9
42	Ossur	BoscoNagar	405	9
43	Kottai	Kottai	1000	23
44	Kottai	Kottai Colony	385	9
45	Kottai	Kottai Irular Colony	118	6
46	Mangalam Mamandur	Mangalm	337	8
47	Mangalam Mamandur	Mangalam Colony	289	7
48	Mangalam Mamandur	Mamandur	385	9
49	Mangalam Mamandur	Mamandur Kootroad	374	9
50	Mangalam Mamandur	Arunthathipalayam	231	6
51	Mangalam Mamandur	Mamandur Colony	284	9
52	Koilkuppam	Sathanur	264	6
53	Koilkuppam	Sathanur Colony	231	6
54	Vilangadu	Vilangadu	444	10
55	Vilangadu	Vilangadu Colony	439	10
56	Vilangadu	Periyar Nagar	52	6
57	Athiyanur Athiyankuppam	Athiyanur	374	9
58	Athiyanur Athiyankuppam	Athiyanur Colony	405	9

FLOW DIAGRAM

