

SALIENT DETAILS

C.W.S.S TO KILKODUNGALORE AND 76 OTHER HABITATIONS IN VANDAVASI UNION OF THIRUVANNAMALAI DISTRICT

1. Scheme Cost
 - a) Installation Cost :- Rs.4.98 Lakhs
 - b) Annual Maintenance Cost:- Rs.8,15,000/-
2. Administrative Approval No B.P.MS No.78/29.08.2007
and amount Rs.4.60 Crores
3. Technical Sanctions No CER No.29/2007-08 dt 07.09.2007
and amount Rs.4.98 Crores
4. Beneficiaries Requirements
5. Populations
 - a. Present (year 2001) 27901
 - b. Base year 2009 29296
 - c. Intermediate year 2024 32227
 - d. Ultimate year 2039 35154
6. Level of Service 40 LPCD
7. Designed
 - a. Intermediate year 2024 9,42,000 lit - 0.942 MLD
 - b. Ultimate year 2039 10,20,000 lit - 1.020 MLD
8. Year of completion & commissioning
 - a. Completion 31.07.2010
 - b. Commissioning 01.08.2010
 - c. Taken over for maintenance 24.12.2011
9. Head works with source details
Infiltration well in Cheyyar River Down stream of uthiramerur anicut.

	Dia	DEPTH	YIELD
I.W.No.I	4.50 m	10.00 m	350 LPM
I.W.No.II	4.50 m	10.00 m	350 LPM

I.W.No.III	4.50 m	6.60 m	
R.C.C Ring well	1.50 m	1.50 m	300 LPM
Pump Room :		6m X 4m	= 1 No

10. Pumpset

a) For infiltration well open Well Type submersible p'set.

I.W. No.1 3H.P 262 LPM X 24 m (with stand by)

I.W. No.2 3H.P 262 LPM X 25 m (with stand by)

I.W. No.3 3H.P 262 LPM X 27 m (with stand by)

b) For common sump at Head works sites

Capacity of sump 60,000 it cap - 1 No

c) Hours of pumping 20 Hours

11. Treatment plant (with unit details) Nil

12. Transmission Main

a. Short raising main 50 sq mm AA Cable 100 mm dia C.I D/F pipe 110 mm OD pvc

Total

I.W. No.I	640 m 96 m	461 m	557 m
I.W.No.II	860 m 136 m	682 m	818 m
I.W.No.III	1190 m 128 m	1087 m	1215 m

b. Pumping main

i) Common sump to collection 200 mm AC CL 15 Pipe 19232 m

Sump at Vilangadu 200 mm DI k7 Pipe 490 m

ii) From sump @ Vilangadu to 200 mm AC CL 15 Pipe 2868 m

Sump @ Kilkodungalore 160 mm DI PVC KSC Pipe 3270 m

iii) From Sump @ Kilkodungalore 140 mm DI PVC KSC Pipe 4660 m

To sump @ Athiyanoor

iv) From Sump @ Athiyanoor 110 mm OD PVC KSC Pipe 8223 m

To sump @ Desur Sump

13. BOOSTER AT Vilangadu Booster Station

- a. Sump with capacity : 1, 10,000 Liters capacity
- b. Pump room : 4X3 m
- c. Pump set details
 - i. Booster main to Irumbedu Colony O.W type Submersible P'Set
3HP – 198 LMP X 23 m (with stand by)
 - ii. Booster main to Kilpakkam Colony O.W type Submersible P'Set
5HP – 133 LPM X 21 m (with stand by)

II AT KILKODUNGALORE BOOSTER STATION

- a. Sump with capacity 1,60,000 Lit capacity
- b. Pump Room 4 m x 3 m
- c. Pump set Details
 - i. Booster main to Ossur Sump O.W – Type Submersible P'set
10 HP – 328 lpm X 37 m – (with stand by)
 - ii. Booster main to Agathigapuram O.W Type Submersible P'set
3 HP – 199 lpm X 21 m (with stand by)
 - iii. Booster main to Vilangadu O.W. Type Submersible P'set
3HP – 94 lpm X 21 m (with stand by)
 - iv. Booster main to Kottai O.W Type Submersible P'set
3HP – 142 lpm X 26 m (with stand by)

III AT ATHIYANOOR BOOSTER STATION

- a. Sump with capacity 50,000 lit capacity
- b. Pump Room 4 m X 3 m
- c. Pump details
 - i. Booster main to Ammanampakkam O.W. Type submersible P'set
3HP – 95 lpm X 17 m (with stand by)
 - ii. Booster main to Dobby Colony O.W. Type Submersible P'set
3HP – 55 lpm X 24 m (with stand by)

IV AT OSSUR BOOSTER STATION

- a. Sump with capacity 1,30,000 lit capacity
- b. Pump Room 4 m x 3 m
- c. Pumpset details
 - i. Booster main to Venmanthai Colony O.W Type Submersible P'set
3HP – 117 lpm X 25 m (with stand by)
 - ii. Booster main to Amudur Colony O.W Type Submersible P'set
3 HP – 72 lpm x 19 m (with stand by)
 - iii. Booster main to mathipankulam A.R.Colony
O.W. Type Submersible P'set
5HP 203 lpm X 26 m (with stand by)

14. FEEDER MAIN

Branch pumping main to Vilangadu Sump
Branch Pumping main to Kilkodungalore Sump
Branch Pumping main to Athiyanoor Sump

a. From Kilangadur sump

1. To Irumbedu Colony	90 mm Dia PVC 4 ksc	- 1931 m
	75 mm Dia PVC 4 ksc	- 1879 m
	63 mm Dia PVC 4 ksc	- 1465 m
	50 mm Dia PVC 6 ksc	- 1772 m
	40 mm Dia GI pipe	- 589 m
	32 mm Dia GI Pipe	- 772 m
	Total	- 8408 m

2. To Kilpakkam Colony	90 mm Dia PVC 4 ksc	- 507 m
	75 mm Dia PVC 4 ksc	- 3015 m
	63 mm Dia PVC 4 ksc	- 1656 m
	50 mm PVC 6 ksc	- 208 m
	50 mm Dia GI Pipe	- 8 m
	40 mm Dia GI Pipe	- 315 m
	32 mm Dia GI Pipe	- 598 m
	Total	- 6307 m

b. From Kilkodungalour Sump

1. To Agathigapuram	90 mm Dia PVC 4 ksc	- 857 m
	75 mm Dia PVC 4 ksc	- 1838 m
	63 mm Dia PVC 4 ksc	- 904 m
	40 mm Dia GI Pipe	- 2832 m
	32 mm Dia GI Pipe	- 87 m
	Total	- 6518 m

2. To Velangadu	75 mm Dia PVC 4 ksc	- 194 m
	63 mm Dia PVC 4 ksc	- 378 m
	50 mm Dia PVC 6 ksc	- 664 m
	40 mm Dia GI Pipe	- 264 m
	32 mm Dia GI Pipe	- 120 m
	Total	- 1620 m

3. To Kottai	75 mm Dia PVC 4 ksc	- 3932 m
	63 mm Dia PVC 4 ksc	- 502m
	50 mm Dia PVC 6 ksc	- 420 m
	40 mm Dia GI Pipe	- 2832 m
	32 mm Dia GI Pipe	- 87 m
	Total	- 7773 m

c. From Athiyanoor Sump

1. To Ammanampakkam	75 mm Dia PVC 4 ksc	- 1396 m
	63 mm Dia PVC 4 ksc	- 1772 m
	50 mm Dia PVC 6 ksc	- 1716 m
	40 mm Dia GI Pipe	- 18 m
	32 mm Dia GI Pipe	- 699 m
	Total	- 5601 m

2. To Dobby Colony	75 mm Dia PVC 4 ksc	- 2158 m
	50 mm Dia PVC 6 ksc	- 1540 m
	32 mm Dia GI Pipe	- 3943 m
	Total	- 7641 m

d. From Dessur Sump

1. To Mathippankulam

AR Colony	90 mm Dia PVC 4 ksc	- 4141 m
	63 mm Dia PVC 4 ksc	- 1716 m
	50 mm Dia PVC 6 ksc	- 572 m
	50 mm Dia GI Pipe	- 61 m
	40 mm Dia GI Pipe	- 336 m
	32 mm Dia GI Pipe	- 116 m
	Total	- 6942 m

2. To Venmanthai Colony	75 mm Dia PVC 4 ksc	- 3027 m
	63 mm Dia PVC 4 ksc	- 2602 m
	50 mm Dia PVC 6 ksc	- 1396 m
	40 mm Dia GI Pipe	- 857 m
	32 mm Dia GI Pipe	- 156 m
	Total	- 8038 m

3. To Amudur old Colony	75 mm Dia PVC 4 ksc	- 5869 m
	63 mm Dia PVC 4 ksc	- 933 m
	50 mm Dia PVC 6 ksc	- 1313 m
	40 mm Dia GI Pipe	- 578 m
	32 mm Dia GI Pipe	- 522 m
	Total	- 9215 m

15. No of Group sump with capacity		4 No
1. Vilangadu	-	1,10,000 lit cap
2. Kilkodungalore	-	1,60,000 lit cap
3. Athiyanoor	-	50,000 lit cap
4. Ossur	-	1,30,000 lit cap

16. Service Reservoirs unit capacity		
10, 000 lit Capacity	-	12 Nos
15,000 lit Capacity	-	1 No
30,000 lit Capacity	-	46 Nos
60,000 lit Capacity	-	6 Nos
1,00,000 lit Capacity	-	2 Nos
Total	-	67 Nos

17. Separate Power feeder main details Available @ Head Work and Kilkdungalur Sump.

