

SALIENT DETAILS

CWSS to 136 fluoride affected habitations in

Kadayampatty,Omalur,Nangavalli and Mecheri Unions in Salem District.

1	Scheme Cost	Rs. 5004 Lakhs.
2	Beneficiaries	Town Panchayat - 2 Nos,Habitations - 981 Nos
3	Population	3,75,715
4	Total Daily Requirement	27.74 mld
5	Hours of Pumping	16
6	Source	River Cauvery
7	Head Works	
a)	Raw water intake well	1.40 LL capacity -17.50 x9.50 x9.85 m
b)	Raw water pumpset	100 HP Turbine - 13890 lpm x 20 m - 3 Nos Duty : 5578 lpm x 23m Head.
c)	Raw water Pumping main	MS pipes – 70 m
8)	Treatment works	26.67 mld capacity with Aerator,Rapid sand filters(8 Beds), Chlorinator House
a)	Clear water Tank	5.50 lakhs litres (19.0 m dia)
b)	Collection Sump	24.0 m x 6.30 m x 3.50 m depth
c)	Pump House	24.0 m x 13.35 m x 5.10 m
d)	Clear water pumpset	Centrifugal 600 HP - 13500 lpm x 139 m(3Nos)
9	Clear water Pumping main	MS/PSC - 20,615 m
10	No. of Booster Stations	2 Nos
	Booster Pumping station at Kunjandiyur	
a)	sump capacity	32.70 LL
	Size	35.00 dia, 4.00 m depth
	Pump House	25.00m x 13.00m x 5.50m

b) Pumpset Details

- i) To serve Mecheri Sump
Capacity 270 HP - Centrifugal pump 3 Nos
Duty 12080 lpm x 77m head
- ii) To serve Nangavalli Union
Capacity of Pump 14.00 HP Centrifugal Pumpset – 2 Nos
Duty 1680 lpm x 30m head

Booster Pumping Station at Mecheri

- a. Sump Capacity : 29.00 LL
Size 35.00dia x 4.00m depth, 16.00m staging ht
Pump House 25 m x 13 m x 5.50 m

b.PUMPSETS DETAILS

- i) To Serve Mecheri union part and Kadayampatty Union
Capacity 120 HP
Duty Condition 3840 lpm, 80m head
Centrifugal Pumpsets – 3 Nos (2+1)
- ii) To serve Mecheri union part and Malamanur area
Capacity of Pump 15 HP - 2 Nos (1+1)
Duty 960 lpm x 51m head each

Pumping Station at Adaikkanur in Omalur Union

- Sump Capacity 28,000 lit (8 hours storage)
Sump Size 5.0m dia, 3.0m depth
Pump house 6.0 x 3.0m x 3.0m height
Pump set 7.50 HP centrifugal, 120 lpm x 60m head

9 Master Reservoir 6 Nos

MSR	Union	Location Place	Capacity	Staging Height
i	Mecheri	Senganur	30,000 lit	12.00 m
ii	Kadayampatti	Ondiveeranur	30,000 lit	7.50 m
iii	Kadayampatti	Renganur	30,000 lit	12.00 m
iv	Kadayampatti	Ramapuram	30,000 lit	6.00 m
v	Kadayampatti	Mookanur KV	2,00,000 lit	15.00 m
vi	Kadayampatti	Kundupoosarikottai	60,000 lit	15.00 m

10 BP Tank

7 Nos

B.P Tank	Location		Capacity	Staging Height
	Union	Place		
i	Mecheri	Karapattiyatheru	60,000 lit	7.50 m
ii	Mecheri	Vadakkathianur	60,000 lit	9.0 m
iii	Mecheri	Malaiyanur KV	30,000 lit	9.0 m
iv	Mecheri	Silakkalthittu	60,000 liy	6.0 m
v	Kadayampatty	Periannan KV	30,000 lit	15 m
vi	Omalur	Nachuvayanur	60,000 lit	15 m
vii	Omalur	Thindamangalam	2,00,000 lit	15 m

11. Feeder Main

1004.397 km

12 Service Reservoirs

a) 2,00,000 lit.	1 No
b) 1,00,000 lit.	7 Nos
c) 60,000 lit.	188 Nos
d) 30,000 lit.	399 Nos
e) 20,000 lit.	8 Nos
f) 15,000 lit.	26 Nos
g) 10,000 lit.	255 Nos
Total	884 Nos

TAMILNADU WATER SUPPLY AND DRAINAGE BOARD
CWSS TO 136 FAH AND 604 WAY SIDE HABITATIONS IN KADAYAMPATTY AND 3
OTHER UNIONS IN SALEM DISTRICT

FLOW DIAGRAM

