

SALIENT DETAILS

CWSS to Irupali and 236 fluoride affected habitations and other Wayside Habitations in Salem District.

1	Scheme cost	:	Rs. 5784/-Lakhs	
2	Beneficiaries	:	Town Panchayat – 3 Nos, Habitations- 1167 Nos	
3.	Population	:	793451	
4	Design Quantity	:	33.32 mld	
5.	Hours of Pumping	:	16	
6	Head Works			
	a. Source	:	River Cauvery	
	b. Off take arrangements	:	Collection well cump pump house	
	c. Raw Water	:		
	i) Pumping main	:	a) 1016 mm MS	64.05 m
			b) 1000 mm PSC 12 KSC	1817.80 m
			c) 1000 mm PSC 4 KSC	592.15 m
			Total	<u>2474.00 m</u>
	ii) Pumpset (HP / Duty)	:	375 HP x 19271 lpm - 3 Nos	
	iii) Sump / Collection well	:	Well size : 17.50 m x 9.50 m x 10.70 m	
	iv) Pump House	:	15.50 m x 7.50 m x 6.0 m	
	v) Raw water Surge Tank	:	1.58 akhs litre Capacity	
7	Treatment Works			
	Capacity in MLD	:	37 MLD	
	a. Aerator	:	1 No(Casecade Aerator	
	b. Filter House	:	53.02 m x 20.18 m	
	c. Chlorinator House	:	15.5 m x 10.5 m	
	d. Wash Water Tank	:	3.50 lake litres (13.50 m dia 2.50 m depth)	
	e. Treated Water sump	:		
	i) Sump (Capacity in litres)	:	7.25 lakhs litres	

- ii) Pump House : 25 m x 6 m
- iii) Pump set (HP/ Duty) : 1. Horizontal Centrifugal 220 HP x 17850 lpm
2. Mono block 10 HP x 360 lpm – 2Nos

8 Transmission main

a Pumping main MS,PSC Pipe : 25295.40 m

b Gravity main : --

c Branch Pumping main : 909 m

9 Clear water surge Tank : 0.62 lakh litres Capacity

10 NO OF BOOSTER STATIONS : 8 Nos

BOOSTER DETAILS : (STATION WISE)

a IRUPALI BOOSTER STATION

- i) Sump : 42.72 lakh litres
- ii) Pump House : 24.70 m x 12.0 m
- iii) Pumpset (HP / Duty)
 - Horizontal Centrifugal : i) 170 HP x 14050 lpm x 39 m – 3 Nos
 - Horizontal Centrifugal : ii) 100 HP x 6600 lpm x 41 m – 2 Nos
 - Multistage : iii) 30 HP x 739 lpm x 95 m – 2 Nos

b SAMUDRAM BOOSTER STATION

- i) Sump : 6.60 lakh litres capacity
- ii) Pump House : 15.0 m x 10.0 m
- iii) Pumpset (HP / Duty)
 - Horizontal Centrifugal : i) 60 HP x 4380 lpm x 40 m – 2 Nos
 - Multistage : ii) 20 HP x 1080 lpm x 43 m – 2 Nos

c VANICHAMPATTY BOOSTER STATION

- i) Sump : 7.06 lakh litres Capacity
- ii) Pump House : 15.0 m x 10.0 m
- iii) Pumpset (HP / Duty)
 - Horizontal Centrifugal : i) 75 HP x 3404 lpm x 60.50 m – 2 Nos
 - Multistage : ii) 75 HP x 2421 lpm x 80 m – 2 Nos

d EDANGANASALAI BOOSTER STATION

- i) Sump : 19.79 lakh litres Capacity
- ii) Pump House : 20 m x 10.30 m
- iii) Pumpset (HP / Duty)
 - Horizontal Centrifugal : i) 170 HP x 6540 lpm x 78 m – 3 Nos
 - Horizontal Centrifugal : ii) 60 HP x 3318 lpm x 46.6 m – 2 Nos

e INTERMEDIATE BOOSTER STATION @ SENTHILPALAYAM

- i) Sump : 11.00 lakh litres Capacity
- ii) Pump House : 8.0m x 6.00 m
- iii) Pumpset (HP / Duty)
 - Multistage : i) 40 HP x 1440 lpm x 56 m – 2 Nos

f INTERMEDIATE BOOSTER STATION @ IRUSAGOUNDAN VALAVU

- i) Sump : 6.29 lakh litres Capacity
- ii) Pump House : 8.00 m x 6.00 m
- iii) Pumpset (HP / Duty) Centrifugal : i) 40 HP x 1350 lpm x 60.50 m – 2 Nos

g INTERMEDIATE BOOSTER STATION @ AMARAKUNDI

- i) Sump : 2.75 lakh litres Capacity
- ii) Pump House : 8.00 m x 6.00 m
- iii) Pumpset (HP / Duty) Multistage : i) 20 HP x 600 lpm x 86 m – 2 Nos

h INTERMEDIATE BOOSTER STATION @ KALARPATTI

- i) Sump : 6.91 lakh litres Capacity
- ii) Pump House : 8.00 m x 6.00 m
- iii) Pumpset (HP / Duty) :
 - Multistage i) 25 HP x 780 lpm x 80.50 m – 2 Nos
 - Centrifugal i) 20 HP x 660 lpm x 59.50 m – 2 Nos

11 MASTER SERVICE RESERVOIRS AND BREAK PRESSURE TANKS

- a Amman Koil Kadu (MSR) : 3.00 Lakh litres
- b. Vellakkal kadu (BPT) : 2.00 Lakh litres
- c Erikadu (BPT) : 0.60 Lakh litres
- d. Rajaji Institute (BPT) : 0.30 Lakh litres
- e Vattamuthampatty (MSR) : 0.60 Lakh litres
- f Mottaiyan theru (MSR) : 0.60 Lakh litres

12 Service Reservoir : 166 Nos

(In various capacity)

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FLOW DIAGRAM

