

SALIENT DETAILS

CWSS TO 67 RURAL HABITATIONS IN VIRUDHUNAGR DISTRICT UNDER BULK PROVISION FROM 239 COASTAL HABITATIONS IN THOOTHUKUDI DISTRICT AND VIRUDHUNAGAR & ARUPPUKOTTAI MUNICIPALITIES, KARIAPATTI MALLANGINAR TOWN PANCHAYATS IN VIRUDHUNAGAR DISTRICT.

1	Scheme Cost		Rs.211 Lakh
2	Beneficiaries	:	Rural habns. in Virudhunagar dist - 67
3	Populations	:	90066
4	Designed Quantity		1.762 mld
5	Head works with Source details	:	(Bulk Provision from 239 habitations) 4.50 m dai Infiltration wells - 14 Nos. At River Thamiraparani near Vallanadu village
6	Pumpset	:	7.50 HP - 16 Nos (8+8 stand bye) 10 HP - 12 Nos (6+6 stand bye) 120 HP - 3 Nos (2+1 stand bye)
a	Type	:	Submersible Pump set Vertical Turbine pump set
b	Duty	:	882 lpm x 20 m - 16 Nos. (8+8) 1000 lpm x 20 m - 12 Nos. (6+6) 6300 lpm x 53 m - 3 Nos (2+1)
c	Hours of Pumping	:	For Rural - 23 Hours
7	Treatment Plant	:	(Bulk Provision from 239 habitations)
8	Transmission Main	:	
a	Pumping main	:	600 mm PSC - 4 - 12 ksc - 91.56 km 450 mm PSC - 4 ksc - 0.46 km 350 mm PSC - 19.53 km 250 mm AC Cl. 15 - 13.23 km 200 mm AC Cl. 15 - 43.40 km 150 mm AC Cl.15 - 19.36 km 75 mm PVC - 39.84 km 90 mm PVC - 26.30 km 110 mm PVC - 25.37 km 140 mm PVC - 19.70 km 160 mm PVC 4 ksc - 9.610 km
b	Gravity main	:	500 mm PSC - 4 ksc - 7.35 km 600 mm PSC 4 ksc - 17.10 km

9	Booster station	:	Rural Sumps
a	Sump with capacity	:	1.Valvangi - 0.60 LL 2.Vellaihapuram vilakku - 2.00 LL 3. Palayampatti - 0.60.00 LL
			For Rural Feeding
b	Pumpset details	:	1.Valvangi - 174 lpm x 15 m 2. Pandalkudi - 130 lpm x 25 m 3. Sukkilanatham Vilakku - 91 lpm x 24 m 3a. Sukkilanatham Vilakku - 291 lpm x 17 m 4.Vellaihapuram vilakku - 423 lpm x 39 m 5. Palavanatham - 106 lpm x 33 m 5a.Palavanatham - 70 lpm x 23 m 5b.Palavanatham - 55 lpm x 18 m 6.Kalkuruchi - 72 lpm x 23 m 6a. Kalkuruchi - 115 lpm x 15 m 7.Palayampatti - 211 lpm x 19 m 7a. Palayampatti - 160 lpm x 22 m 7b.Palayampatti - 71 lpm x 19 m
			For Rural Feeding
10	Feeder Mains:	:	1. 50 mm PVC 6 ksc - 36.633 km 2.63 mm PVC 4 ksc - 30.632 km 3.75 mm PVC 4 ksc - 21.445 km 4.90 mm PVC 4 ksc - 5.120 km 5.110 mm PVC 4 ksc - 3.290 km 6.140 mm PVC 4 ksc - 11.310 km 7.32 mm GI Pipe - 0.099 km 8.25 mm GI Pipe - 0.86 km
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11	Service Reservoirs	:	Existing

CWSS TO 239 COSTAL / RURAL HABITATIONS IN THOOTHUKUDI DISTRICT AND VIRUDHUNAGAR, ARUPPUKOTTAI MUNICIPALITIES, KARIAPATTI, MALLANKINAR TOWN PANCHAYATS AND 67 RURAL HABITATIONS IN VIRUDHUNAGAR DISTRICT

FLOW DIAGRAM

