

SALIENT DETAILS

CWSS to 7 Town Panchayats & 395 Rural Habitations in Rajapalayam, Srivilliputhur, Watrap and Sivakasi (Part) Unions in Virudhunagar District with Tamiraparani River Source

Installation Cost	Rs.170.00 Crore		
Annual Maintenance Cost	Rs.5.80 Crore.		
Per Capita Cost	Rs.4,423/-		
Cost per 1000 litres	Rs.21.30		
Proportionate installation Cost & Annual Maintenance Cost.	Name of Beneficiaries	Installation Cost (Rs. in Crore)	A.M. Cost (Rs. in lakhs)
	Seithur	6.78	0.21
	Chettiarpatti	6.49	0.18
	Mamsapuram	15.66	0.35
	Sundarapandiam T.P	12.97	0.30
	W.Pudupatti	3.75	0.10
	Watrap T.P	7.49	0.19
	S.Kodikulam T.P	3.88	0.15
	Sub total	57.02	1.49
395 Rural beneficiaries	112.98	4.31	
Total	170.00	5.80	
POPULATION AND REQUIREMENT	Base Year (2012)	Intermediate (2027)	Ultimate (2042)
Rajapalayam (147)	1,14,739	1,26,221	1,37,687
Srivilliputhur (161)	83,245	91,579	99,894
Watrap (82)	72,458	79,706	86,950
Sivakasi (5)	1,873	2,060	2,247
Total Rural Habitations (395)	2,72,315	2,99,566	3,26,778
Town Panchayats (7)	1,12,000	1,31,600	1,55,000
Total	3,84,315	4,31,166	4,81,778
Prorata Supply	70 lpcd for TPs (including existing supply in summer). 30 lpcd for Rural Habitations (10 lpcd sustainable existing supply)		
Net Requirement (in litres), including 10% transmission loss	13.10 MLD	15.46 MLD	18.16 MLD
Rate of supply at 20 hrs. pumping with minimum 10 lpm	10,918 LPM	11,206LPM	13,163LPM
Source	Sub surface water from Tamiraparani River near Mukkudal (13 Infiltration Wells of 4.5 M DIA) Pumpset : 862 lpmx20m Head –13 nos with 100% standby		
Common Sump	8 LL Capacity –1 no HSC pump set, 5603 lpm x 76m Head – 3 nos (2 nos. running in Parallel to discharge 11206lpmx76m head, with 50 % standby)		

Intermediate sumps/Receiving sumps			
Location	Capacity	Pump Room	Pumpsets
Maruthampur	8 LL	12mx8m	11,206 lpm x 62 m
Uthumalai	8 LL	12mx8m	11,206 lpm x 73m
Perumalpatti Vilakku	8 LL	12mx8m	9,261 lpm x 43 m Head & 3,835 lpm x 57 m
Gopalapuram	5.65 LL	8 m x 5 m	8026lpm x 14 m, 3181 lpm x 51 m,
Ramachandrapuram Vilakku	5.2 LL	8 m x 5 m	6908 lpm x 48 m & 600 lpm x 54 m,169x 6m, 59x21m,6333x22m,166x39m& 100x19m
Malli	5.05 LL	8 m x 5 m	5634 lpm x 28 m, 199 lpm x 32 m & 118 lpm x 12 m
Pattakulam	4.15LL	8 m x 5 m	4036 lpm x 15m,50x21m & 1422 lpm x 68m
Pillaiyarnatham	1.75 LL	4 m x 3 m	973 lpm x 23 m, 161 lpm x 30 m & 202 lpm x 14 m.
Kunnur	3.9 LL	8 m x 5 m	2859lpm x 48 m, 622 lpm x 27 m, 304 lpm x 18m, 235lpm x 14
Thalavaipuram	3.1 LL	6 m x 4 m	1,032 lpm x 41 m, 852 lpm x 31 m, 616 lpm x 43 m, 274 lpm x 34m and 196 lpm x 6 m
Krishnapuram	0.95 LL	4 m x 3 m	408 lpm x 51 m, 283lpm x 27m & 112lpm x 20m.
Panchayat Sumps	92 Nos		
PUMPING MAIN AND BRANCH MAINS			
DI K7 (600 mm – 200 mm)			164.81KM
PVC(160 mm – 50 mm Ksc & 4 KSC)			212.6KM
TOTAL			377.41KM
FEEDER MAINS			
PVC pipes (50 mm to 140 mm) & GI Pipes (40 mm to 125 mm)			410.93 KM

Name of Beneficiaries	Service Reservoirs																Distribution System (in Kms)		
	0.10 LL		0.15 LL		0.30 LL		0.60 LL		1.0 LL	1.5 LL	2.0 LL	2.5 LL	3.00 LL		5.0 LL	Total (Nos)			
	E	P	E	E	P	E	P	E	E	E	E	E	P	E	E	P	E	P	
Seithur TP	-	-	-	2	-	2	-	1	-	-	1	-		-	6	-	10.00	1.00	
Chettiyar patti TP	-	-	-	-	-	1	-	-	-	-	-	-		1	2	-	21.50	5.60	
Mamsa puram TP	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1	8.80	9.05	
Sundara pandiam TP	-	-	-	7	-	-	-	-	-	1	-	-		-	8	-	8.00	2.4	
W.Pudu patti TP	-	-	-	2	-	-	-	-	-	-	1	-		-	3	-	4.00	1.8	
Watrap TP	-	-	-		-	1	-	-	-	1	-	-		1	3	-	15.00	1.5	
S.Kodi kulam TP	-	-	-	3	-	-	-	-	-		1	-		-	4	-	4.00	5.0	
Total	-	-	-	14	-	4	-	1	-	2	3	1	1	2	27	1	71.30	26.35	
Rajapalayam Union	47	4	1	85	-	51		6	1	3	-	-	-	-	194	4	273.00	2.0	
Srivilliputhur Union	75	10	5	99	1	29		3	-	-	-	-	-	-	211	11	193.00	4.3	
Watrap Union	33	-	4	52	-	23		4	1	-	-	-	-	-	117		116.00		
Total	155	14	10	236	1	103		13	2	3	-	-	-	-	522	15	582.00	6.3	

CWSS to 7 TPs and 345 Rural Habitations in Virudhunagar District

