

SALIENT DETAILS

CWSS to 755 Rural Habitations in Sattur, Vembakottai, Sivakasi, Virudhunagar, Watrap (Part), Srivilliputhur (Part), Aruppukotai (Part) Unions in Virudhunagar District with Tamiraparani River Source near Seevalaperi

Installation Cost	Rs.220.45 Crore		
Annual Maintenance Cost	Rs.6.41 Crore		
Per Capita Cost	Rs.4,059/-		
Cost per 1000 litres	Rs.17.93		
POPULATION AND REQUIREMENT	Base Year (2012)	Intermediate (2027)	Ultimate (2042)
Sattur (154 Habs)	1,12,632	1,23,905	1,35,155
Vembakottai (144 Habs)	91,087	1,00,204	1,09,299
Sivakasi (232 Habs)	1,75,584	1,93,152	210,703
Virudhunagar (215 Habs)	1,49,671	1,64,646	1,79,602
Watrap (1 Hab)	320	352	384
Srivilliputhur (1 Hab)	2,192	2,411	2,630
Aruppukottai (8 Habs)	11,418	12,560	13,702
Total Rural Habitations (755 Habs)	5,42,904	5,97,230	6,51,475
Prorata supply	40 lpcd for Rural habitations (including 10 lpcd sustainable existing supply)		
Net Requirement (in litres), including 10% transmission loss	19.83 MLD	21.03 MLD	22.87 MLD
Source	Surface water from Tamiraparani River near Seevalaperi by providing Off-take arrangements. Off-take pipe – 800mm dia DI K7 – 500m upstream of proposed check dam to be constructed by PWD		
Head works	Collection sump cum pump house -6m dia Pumpset: Turbine 7,619lpm x 20m Head – 3 Nos with 50% standby Treatment units-full scale treatment units-21.03 MLD		
Raw water pumping main	600 mm DI K7 pipes-700m		
Clear water sump, pump sets	Clear water sump -9.5 LL capacity Pump house: 15 x9 m Pumpset: HSC Centrifugal – 7,256 lpm x 45m Head - 3 Nos with 50% standby		

Intermediate Boosters			
Location	Capacity	Pump Room	Pumpsets
Rajapudukudii	9.5 LL	15m x 9m	HSC Centrifugal –7256lpm x 42m-3nos (50% stand bye)
Savalaperi	9.5 LL	15m x 9m	HSC Centrifugal –7256 lpm x 50 m-3nos (50% stand bye)
Uppathur vilaku	11.55 LL	15m x 9m	HSC Centrifugal -6977 lpm x 21 m-3nos (50% stand bye)
Naduvapatti	3.35 LL	8m x 5m	HSC Centrifugal -2058lpm x 61 m-3nos (100% stand bye)
Pavali vilaku	2.05 LL	6m x 4m	HSC Centrifugal -1395 lpm x 20 m-2nos (50% stand bye)
Other Rural Sumps	156 Nos (0.15LL to 6.4LL)		
PUMPING MAIN, FEEDER MAINS & BRANCH MAINS			
MS pipe - (712 mm)			62.37 KM
DI K7 –(600mm to 200 mm)			120.63 KM
PVC pipes (50 mm to 140 mm) 6 &4 KSC			1171.21
TOTAL			1354.21 KM

Name of Beneficiaries	Service Reservoirs (in Nos)											Distribution System (in Kms)	
	0.10 LL		0.15 LL	0.30 LL		0.60 LL	.2LL	1.0 LL	2.0 LL	Total			
	E	P	E	E	P	E	P	E	E	E	P	E	P
Sattur	45	1	1	107	1	54	1	4	1	212	3	227	1.3
Vembakottai	69	1	6	87	-	33	3	9	0	204	4	198	0.8
Sivakasi	49	1	23	150	-	67	1	11	0	300	2	333	0.3
Virudhunagar	55	-	8	132	1	58	3	8	1	262	4	266	1.0
Total	218	3	38	476	2	212	8	32	2	978	13	1024	3.4