

SALIENT DETAILS

Name of scheme	CWSS to 170 rural habitations in Manur union (Part) and Palayamkottai union (Part) in Tirunelveli District with river Tamirabarani as source near Melakallur		
Installation cost	Rs.32.40 Crore		
Annual Maintenance Cost	Rs.1.50 Crore		
Per capita cost	Rs.2664/-		
Cost per 1000 Lit.	Rs. 13.16		
Population and Requirement	Base Year (2014)	Intermediate (2029)	Ultimate (2044)
Manur Union (161 habs)	121621	133791	145945
Palayamkottai union (9 habs)			
Prorata supply	55 lpcd for Rural habitations (including sustainable existing supply)		
Net Requirement (in litres), including 10% transmission loss		5.37 MLD	6.18 MLD
Source	River Tamirabarani near Melakallur		
Head works	Infiltration wells 4.50m dia - 5 Nos. Connecting main - 150mm CI D.F. Pipe - 1250m Pumpset-submersible 779lpm x 14mm - 5x2 Nos (100% stand bye) Collection sump 2.70LL 2194 lpm x 46m Head - 2 Nos (Sub) 446 lpm x 20m Head - 2 Nos (Sub) 1240 lpm x 47m Head - 2 Nos (Sub) Pump Room: 9m x 5m.		
Intermediate Booster	Location: Sirukkankurichi Capacity: 2.50 LL Pumpset: 1971 Imp x 65m Head - 2 Nos (100% stand bye) Pump Room: 3m x 3m.		
Head works with Source details	2 Nos. of 4.50m dia Infiltration wells in Tamirabarani river at Seevalaperi		
Standpost	At Madavakkuruchi Capacity: 1.30LL (16m - Staging height)		
Standpost	At Manur Capacity: 0.60LL (12m - Staging height)		

Rural Group Sumps and Pumprooms	31 Nos (0.25LL to 4.80LL) 7 Nos (3m x 3m) 24 Nos (2m x 2m)	
PUMPING MAIN		
DI K7 pipe - (250mm to 300m) PVC pipes - (200mm to 50mm) Total	28.31KM 76.57KM 104.88KM	
FEEDER MAINS & BRANCH MAINS (200 to 63mm PVC 4KSC & 50mm PVC 6 KSC)	213.446 KM	
Service Reservoirs	Existing (176 Nos)	Proposed (31 Nos)
	0.05 LL - 5 Nos 0.1 LL - 32 Nos 0.3 LL - 93 Nos 0.6 LL - 39 Nos 1.0 L - 7 Nos	0.1 LL - 18 Nos 0.2 LL - 9 Nos 0.3 LL - 4 Nos
Distribution System	170 Km	24 Km