

SALIENT DETAILS

Name of Scheme : CWSS TO 698 RURAL HABITATIONS WITH BULK PROVISION FOR 6 TOWN PANCHAYAT IN NANGAVALLI AND MECERI UNION IN SALEM DISTRICT WITH RIVER CAUVERY AS SOURCE.			
Cost of Scheme Installation		: Rs 15864.00 Lakhs	
Annual Maintenance		: Rs. 690 .00 Lakhs	
Beneficiaries : 698 rural habitaions in Nangavalli and Mecheri union. 6 Town Panchayats.			
Population	2015 (Pre)	2025 (Inter)	2035(Ult)
Nangavalli Union	84351	98444	114965
Mecheri Union	107055	120272	135231
Town Panchayats	107400	123500	142500
Total	298806	342216	392696
Pro-rata supply proposed			
For Nangavalli and Mecheri Union		: 55 Lpcd including existing level of supply	
For Town Panchayts		: 135 Lpcd including existing level of supply	
Clear water Requirement	2015 (Pre)	2025(Inter)	2035(Ult)
	15.90 MLD	18.67 MLD	22.33 MLD
Hours of Pumping	: 18 hours		
Head works	: Source - Surface water from the Cauvery river in the Down stream side of Mettur Dam near Reddiyur		
Off take Well	: 18m x 10.50m		
Pump House	: 15.5mx8.00 m		
Pump sets at Head works : 530 HP Vertical Turbine - 3 Nos (1 No. Standby) (9076 Lpm X 100 M)			
Raw water Main : Head works to Intermediate Booster at Reddiyur village.700 mm MS pipe –4400 m Intermediate Booster To Treatment plant site at Veerakkal.700 mm MS pipe –6780 m Intermediate Booster sump 6.55 LL capacity Rectangular sump -12.00 x 4.40 m and pump house of size;-22.5mx10.5m			
Pump sets at Booster station : 420 HP Vertical Turbine - 3 Nos (1 No. Standby) (9076 Lpm X 79 M)			
Treatment Plant		: Capacity – 23.45 mld (Ultimate stage-2035) (including wash water at 5%)	
Clear water Reservoir		: 13.10 LL Cap	
Clear Water Pumpset		: HSC Centrifugal – 2 Nos (1+1 Nos. Standby)	

a).	6641 lpm x 61 meters-	To Vanavasi BPT
b).	6242 lpm x 81 meters-	To Mecheri MSR.
c).	3057 lpm x 66 meters-	To M. Kalipatty
e)	1368 lpm x 35 meters-	Mecheri MSR To Amaram Thittusump.
f)	1367 lpm x 17 meters-	Mecheri MSR To Koonandiyur Ridge sump
Master Service Reservoir:		.9.20 lakhs liters at Mecheri.
Break Pressure Tank		
a)	13.80 lakhs liters	at Vanavasi.
b)	1.30 lakh litres	at Seviyur.
c)	1.40 lakh Litres	at Ridge point to Koondiyur.
Clear Water Pumping Main and Feeder mains. : 574.456 KM(400MM DI K7-100MM DI K7 AND 160MM HDPE TO 50MM HDPE)		
Sumps of various capacities (proposed) :		
Nangavalli Union	:	19 Nos
Mecheri Union	:	17 Nos.
Pumpsets in sumps : Open well submersible – 2 Nos (1+1 No. Standby)		
Nangavalli Union	:	54 Nos
Mecheri Union	:	51 Nos.
Proposed Service Reservoirs:		
Nangavalli Union	:	38 Nos (0.10LL-32Nos,0.20LL-5 Nos, 0.30 LL-1 No)
Mecheri Union	:	37 Nos (0.10LL-32 Nos,0.20LL-3 Nos, 0.30 LL-2 No)
Distribution System		
Proposed	:	27.10 Kms
Nangavalli Union	:	14.40 KM
Mecheri Union	:	12.70 KM
Public Fountain		
Proposed	-	128 Nos
Nangavalli Union	:	62 Nos
Mecheri Union	:	66 Nos
Per capita cost		Rs. 5309 (Present)
		Rs.4040 (Ultimate)
Cost per 1000 litres		Rs. 21.66
Funding of Scheme		NRDWP / SMS & 80:20