

SALIENT DETAILS

Name of Scheme	Providing CWSS to Melur, Avaniapuram, Thirumangalam Municipalities, A.Vellalapatti, Vilangudi, Paravai, Thirunagar, Alanganallur, Palamedu Town Panchayats and 1430 Rural Habitations in 8 Unions in Madurai District and Singampuneri Town Panchayat in Sivagangai District.		
Installation Cost	Rs. 78400.00 lakhs		
A.M.Cost	Rs.1560 lakhs		
Per capita cost	Rs.6048/-		
Cost per 1000 litres	Rs.19.50		
Proportionate installation Cost& AM cost	Name of Beneficiary	Installation Cost (Rs. in Crore)	A. M. Cost (Rs. in Crore)
	Melur Mpty	23.80	0.56
	Avaniapuram Mpty	60.91	1.22
	Thirumangalam Mpty	68.13	1.60
	A.Vellapatty TP	3.28	0.07
	Thirunagar TP	15.10	0.34
	Paravai TP	26.14	0.54
	Vilangudi TP	30.98	0.66
	Alanganallur TP	6.13	0.14
	Palamedu TP	7.22	0.14
	Singampunari TP	15.80	0.30
	1430 Rural Habitations	477.13	8.94
	Industries	49.38	1.09
	Total	784.00	15.60
POPULATION AND REQUIREMENT	Base Year (2012)	Intermediate (2027)	Ultimate (2042)
Population			
MELUR	39120	46265	53409
AVANIA PURAM	64383	85589	111131
THIRUMANGALAM	56366	78611	109635
SUB TOTAL A	159869	210465	274175
THIRU NAGAR	19379	24605	29830
PARAVAI	21202	29316	40536
VILAN GUDI	27594	38730	52605
A.VELLALAPATTY	7585	8254	8913
ALANGANALLUR	12509	15657	19596
PALAMEDU	9564	11386	13555
sINGAMPUNARI	20144	24625	29106
SUB TOTAL B	117977	152573	194141
1430 RURAL HABITATIONS	936737	1030478	1124083
GRAND TOTAL	1214583	1393516	1592399

Requirement (in litres), at 135 lpcd for ULBs 70lpcd for A.Vellalapatty, Palamedu, Alanganallur, Singampuneri TPs 40 lpcd for Rural habitations (in mld)		93.08	112.35
Net Requirement after deducting existing supply including 15% transmission loss (in mld)		64.00	84.00

Source	Collector well –3 Nos. in river Cauvery near Kulithalai in Karur district	
Collection sump	33.50 LL + 3.05 LL at Mettumahathanapuram	
Connecting main	7.68 Km	
Booster station	Chinna reddy patti	Sump (31.55 LL+ 5.00 LL)
Booster station	Pannankombu	sump (31.55 LL+ 5.00 LL)
Receiving Sump	Kottaiyur	36.55 LL
Pumpsets	6 Nos. of turbine pumpsets in collector wells- I,II,& III 6 Nos. of turbine pumpsets in Baby sump cum pumphouse (4 Nos. to run parallel and 2 Nos. standbye) at Mahathanapuram 6 Nos. of turbine pumpsets in Baby sump cum pumphouse (4 Nos. to run parallel and 2 Nos. standbye) at Chinnareddipatti 6 Nos. of turbine pumpsets in Baby sump cum pumphouse (4 Nos. to run parallel and 2 Nos. standbye) at Pannankombu	

Transmission main	From Mettumahadhanapuram to Kottaiyur sump	101 Km
Gravity main	From Kottaiyur sump to Thirumangalam sump	105 Km
Br Gravity main to feeder sumps and feeder mains	To urban and rural beneficiaries	2294 Km
Sumps	Main sumps	17 Nos.
	Rural sumps	312 Nos.
Service Reservoirs	Existing	1512 Nos.
	New	72 Nos.
Distribution system	Existing	2468 Km
	New	76 Km

CWSS to Melur, Avaniapuram, and Thirumangalam, Municipalities, A.Vellalapatti, Paravai, Vilangudi, Thirunagar, Alanganallur, Palamedu Town Panchayats and 1430 rural habitations in Kottampatti, Melur, Madurai East, Madurai West, Alanganallur, Vadipatti, Thirumangalam, Thirupparankundram unions in Madurai District and Singampunari Town Panchayat in Sivagangai District.



GENERAL FLOW DIAGRAM
PROJECT COST Rs.784.00 Crores

