

**CWSS TO 306 HABITATIONS IN ALATHUR ,PERAMBALUR AND  
VEPPANTHATTAI UNIONS ARUMBAVUR UTP, POOLAMBADI UTP  
WITH BULK SUPPLY TO MRF PLANT IN PERAMBALUR DISTRICT**

**SALIENT DETAILS**

1. POPULATION	<b>PRESENT</b>	<b>INTER</b>	<b>ULTIMATE</b>
	2009	2024	2039
Requirement	257508	283278	309020
	13.75 mld	14.60 mld	15.50 mld
2. PRO RATA OF SUPPLY	: 40 lpcd ( sustainability of local sources considered for 10 lpcd & river water source considered for 30 lpcd )		
HOURS OF PUMPING	: 20 Hours		
3. TOTAL DAILY REQUIREMENT	: Intermediate (2024)	Ultimate (2039)	
	12189 LPM	12916 LPM	
4.Source	: Collector well cum pump House at River Colerron near Sengariyur in Lalgudi union		
5. Pumping main			

LS		Size of main	Remarks
From	To		
0 M	13500 M	600 MM PSC 12 KSC – 6 KSC pipes	From Head works site to Thappai Booster station
13500 M	35670 M	600 MM PSC 16 to 6 KSC pipes	From Thappai Booster station to Naranamangalam Booster station
35670 M	57945 M	450 MM PSC 14 to 6 KSC pipes	From Naranamangalam Booster station to Alambadi Booster station
57945 M	73605 M	400 MM PSC 6 KSC & 300 MM AC class 15 pipes	From Alambadi Booster station to Krishnapuram Booster station
73605 M	81920 M	200 MM AC CL 15 pipes and 140 mm OD PVC 4 KSC pipes	From Krishnapuram Booster station to Periyammalayam Group sump.

## 6. BOOSTER SUMP:-

Sl.No.	Location of booster station	Sump capacity in Lakh litres.	Ground level (M)	M.W.L (M)	F.V.L (M)
1	Thappai	7.00	79.76	82.41	79.41
2	Naranamangalam	7.00	118.31	120.96	117.96
3	Alambadi	4.00	135.32	138.47	134.97
4	Veppanthattai	3.00	136.23	139.38	135.88
5	Krishnapuram	2.00	133.83	136.48	133.48

## 7.PUMPSETS:-

At Head works 2 Nos.of Turbine pumpsets each having a duty of 6095 LPM x 63 M in parallel operation (with 50 % stand bye)

AT Thoppai Booster station 2 Nos.of HSC pumpset each having a duty of 6095 LPM x 70 M in parallel operation (with 50 % stand bye)

At Naranamangalam Booster station 2 Nos.of HSC pumpsets each having a duty of 3342 LPM x 54 M in parallel operation (with 50 % stand bye)

At Alambadi Booster station 2 Nos.of HSC pumpsets each having a duty of 2622 LPM x 29 M in parallel operation (with 50 % stand bye)

At Veppanthattai Booster station 2 Nos. of submersible pumpsets each having a duty of 1461 LPM x 21 M in parallel operation (with 50 % stand bye)

## 8. GROUP SUMPS :

Sl.No.	Name of Union	No.of group sumps proposed	No.of habitations to be covered	Branch main length
1	Alathur Union	4	57 habitations	79 Km
2	Perambalur	9	75 habitations	113 Km
3	Veppanthattai	20	174 habitations and 2 wayside town panchayats	272 Km

## **9. SERVICE RESERVOIRS AND D'SYSTEM:**

Union	SR		D system proposed (KM)	PF proposed (Nos)	SR capacity proposed
	Existing (Nos)	Proposed (Nos)			
Alathur	54	3	1.6	1	10000 lits. 3 Nos
Perambalur	68	11	8.15	28	10000 lits. 4 Nos 30000 lits 7 Nos.
Veppanthattai	171	3	3.0	10	10000 lits. 2 Nos 30000 lits 1 No.
Arumbavur T.Pt.	7	1	1.0	10	60000 lits. 1 No.
Poolambadi T.Pt.	9	-	-	-	-

10. ESTIMATE COST : Rs.61.11 CRORES

11. A.M. COST : Rs. 1.66 CRORES

## **12. Proportionate Cost and cost per 1000 lits. Are as follows.**

Description	Total cost	CWSS 306 habs.	Arumbavur T.Pt.	Poolambadi T.Pt.	MRF Ltd.
	(Rs. In Lakhs)				
Cost of installation	6111	4630	170	146	472
Per capita cost	2190	2268	1384	1387	-
Annual maintenance cost	166.00	144.59	4.62	3.97	12.82
Cost per 1000 litres	14.78	15.03	10.12	10.13	16.69

## **13. FINANCING:**

This scheme will be funded by MNP in respect of rural components. The Town panchayat cost will be funded on 80:20 of MNP funds, local body and Public contribution. The MRF components will be by deposited from local body.

## **14. MAINTENANCE:**

The CWSS on completion will be maintained by TWAD Board