COMBINED WATER SUPPLY SCHEME TO 134 RURAL HABITATIONS IN KUMBAKONAM UNION IN THANJAVUR DISTRICT

SALIENT DETAILS

	STATISTICS OF THE STATES			
1)		Population		
	a)	Present stage (2021)	:	75886
	b)	Intermediate stage year (2036)	:	86449
	c)	Ultimate stage year (2051)	:	97012
2)		Per capita supply		
		Kumbakonam Union	:	55 LPCD
3)		Water supply service level		
		Kumbakonam Union	:	10 -15 LPCD
4)		Requirement (Total)		
	a)	Present stage (2021)	:	4.27 MLD
	b)	Intermediate stage year (2036)	:	4.85 MLD
	c)	Ultimate stage year (2051)	:	5.45 MLD
5)		Hours of puming		
		Head works & Booster sumps	:	18 Hours
		Group sumps	:	12 Hours
6)		Rate of Discharge for 18 Hours	:	
		Intermediate stage year (2036)	:	4493 LPM
		Ultimate stage year (2051)	:	5045 LPM
7)		Head woks		
		Infilitration Well	:	6 Nos. near Melathukurichi
		Dia	•	4.50m

8) Connecting Main, Pumping main ,Feeder mains and Branch mains to Group sumps
(150mm CI D/F pipes, 400 mm DI K7pipes - 63 HDPE 6KSC pipes)

8.00m to 10.00m

Depth

9) Group Sump to OHT's 160 HDPE to 50 HDPE 6KSC - Feeder mains and Branches 98.59 Km

10)	Collection Sump cum Pump house	1 No. at Headworks - 3.05 LL
11)	Group sumps	23 Nos. (25,000 lits 3,40,000 Ltrs.)
12)	Pumpsets	1. At Head works - 6 Nos of Infiltration Wells Submersible Pumpsets - 2 Nos (100% standby)
		2. Collection Sump at Melathukurichi Vertical Turbine Pumpset. (100% standbye) Duty 4493 LPM X 39 m head.
		GROUP SUMPS:1. For 23 Group sumps .23 x 2 Submersible pumpsets.(one as standby)
13)	Service Reservoirs	Existing SR - 138 Nos. Newly proposed Service Reservoirs 9 Nos
		10000 litres - 5 Nos
		20000 litres - 1 Nos
		30000 litres - 2 No.
		60000 litres - 1 No.
14)	Distribution System & PF	Proposed 5.500 KM, PF 53 Nos.
15)	Cost of Installation :	Rs. 91.13 crore
16)	Annual Maintenance cost :	Rs. 1.70 crore
17)	Per capita cost :	Rs. 12009/-
18)	Cost /1000 Litres :	Rs. 26.71/-
19)	Cost /1000 Litres (A.M. alone)	Rs. 9.58/-