

CWSS TO THONDAMUTHUR, POOLUVAPATTI, THENKARAI, VEDAPATTI, DHALIYUR, ALANTHURAI AND PERUR TOWN PANCHAYATS AND 134 RURAL HABITATIONS IN THONDAMUTHUR UNION OF COIMBATORE DISTRICT

SALIENT DETAILS				
1	Installation cost	Rs. 130.46 Crores		
	Maintenance cost	Rs.3.91 Crores		
2	Beneficiaries			
a	Town Panchayats - 7 Nos.			
1	Thondamuthur			
2	Pooluvapatti			
3	Thenkarai			
4	Vedapatti			
5	Dhaliyur			
6	Alandurai			
7	Perur			
b	Village Panchayats - 10 Nos.	Habitations		
1	Devarayapuram	9		
2	Ikkaraiboluvampatti	14		
3	Zakirnaickenpalayam	4		
4	Madampatti	11		
5	Maduvarayapuram	14		
6	Vellimalaipattinam	4		
7	Perur Chettipalayam	50		
8	Thennamanallur	9		
9	Theethipalayam	14		
10	Narasipuram	5		
	TOTAL	134		
3	Total population coverage	Year		
		2014	2029	2044
		Present	Inter-mediate	Ultimate
a	Town Panchayats	71800	83400	96000
b	Rural Habitations .	72463	79718	86964
	TOTAL	144263	163118	182964
4	Per capita supply proposed			
a	Town Panchayats	90 lpcd	UGSS to be Provided	
b	Rural habitations	40 lpcd	As per Norms	
c	Village Panchayat adjoining Coimbatore Corporation	70 lpcd	As per BP Ms. No.102/PDC/dt.23-11-2010	
5	Demand	Intermediate	Ultimate	
		11.95mld	13.81 mld	
		11062 LPM	12786 LPM	
		for 18 hours	for18 hours	
6	Transmission losses	10%		
7	Source	Surface Water of River Bhavani near Bhadrakaliammankoil 5 km upstream of Mettupalayam		
8	Head Works	Intake Well in River : 3.0m dia Collection Well-cum-PumpHouse at River Bank : 6 mdia well 8m dia Pump House over Well		

9	Raw water Pumpsets	Vertical turbine Pumpsets of duty 5531 lpm x 92 m - 3 Nos(2 +1 Standby)			
10	Raw Water Main	500 mm DI K9 / K7 pipes : 12190 m			
11	Treatment Plant	11.95mld Full Scale Treatment Plant at Kurunthamalai			
		a	Aerator	cascade Type- 4 Trays Collection Tray: 8.0 m dia	
		b	Stilling Chamber	3m x4mx2.50 m	
		c	Measuring Channel	10m x1.0mx0.60 m	
		d	Flash Mixer	2.0 m dia ,3.85 m depth	
		e	Clariflocculator	Clarifier	24 m dia,4m depth
				Flocculator	11.50 m dia ,4m depth
		f	Filter cum Chemical House	Twin Filter Beds 4.50m x 6.0m - 4 Nos	
		g	Wash Water Tank	2.00 LL ,16 m staging	
		h	Clear Water Reservoir	6.00 LL ,1 Hour Detention Time	
		j	Pump House	12m x 8m	
k	Quarters	2 Nos ,C- Type			
12	Clear Water Pumpsets	HSC Centrifugal Pumpsets of duty 5266 lpm x 81 m -3 Nos. (2 + 1 Standby)			
13	Booster Station at Veerapandi	a	Sump	7.35 LL	
		b	Pump House	12m x 8m	
		c	Pumpsets	HSC centrifugal Pumpsets of duty 5266 lpm x 109 m (3 Nos. 2+1 standby)	
14	TRANSMISSION MAIN				
a	RAW Water Main				
	Size and Material of Pipe	Class	Length (m)		
	500mm dia DI	K9	6030		
	500mm dia DI	K7	6160		
	12190				
	CWTM Common Main and Branch mains				
	500mm dia DI	K9	4700		
	500mm dia DI	K7	38100		
	400mm dia DI	K7	3290		
	300mm dia DI	K7	3860		
	250mm dia DI	K7	8190		
	200mm dia DI	K7	6960		
	110mm dia PVC	4 ksc	1720		
	160mm dia PVC	4 ksc	3385		
	140mm dia PVC	6 ksc	570		
	140mm dia PVC	4ksc	260		
	90mm dia PVC	6ksc	2130		
	90mm dia PVC	4 ksc	30		
	Total		73195		

b	Pumping and Branch Mains within Town Panchayats		
	250 mm DI	K7	10
	200 mm DI	K9	3430
	200 mm DI	K7	20
	150 mm DI	K9	555
	150 mm DI	K7	6110
	100 mm DI	K7	3340
	80 mmGI	Med	1930
	100 mm GI	Med	2130
	200mm PVC	6 ksc	770
	200mm PVC	4 ksc	500
	160mm PVC	6 ksc	1420
	160mm PVC	4 ksc	200
	140mm PVC	10ksc	2690
	140mm PVC	6ksc	1530
	140mm PVC	4 ksc	1550
	110mm PVC	10 ksc	2460
	110mm PVC	6 ksc	2855
	110mm PVC	4 ksc	120
	90mm PVC	4 ksc	5790
	90mm PVC	6 ksc	16300
	90mm PVC	10 ksc	1445
	Total		55155
	Pumping and Branch Mains in Rural Habitations		
	200 mm DI	K7	4950
150 mm DI	K7	4380	
160mm PVC	6 ksc	4100	
140mm PVC	4 ksc	4000	
140mm PVC	6 ksc	920	
140mm PVC	10 ksc	2850	
110mm PVC	4 ksc	6760	
110mm PVC	6 ksc	5255	
110mm PVC	10 ksc	400	
90mm PVC	4 ksc	11105	
90mm PVC	6 ksc	2760	
90mm PVC	10 ksc	2640	
75mm PVC	4 ksc	8910	
75mm PVC	6 ksc	970	
63mm PVC	4 ksc	15005	
63mm PVC	6 ksc	7935	
63mm PVC	10 ksc	4105	
80 mmGI	Med	4820	
65 mm GI	Med	1740	
Total		93605	
Total Length of Clear Water Mains and Branch mains		234145	M

15	Sumps		
Sl. No	Beneficiaries	Capacity of sump in Lakhs Litres	
A	TOWN PANCHAYATS		
1	Vedapatty	0.85	
2	Dhaliyur	0.8	
3	Thondamuthur	0.85	
4	Pooluvapatty	0.95	
5	Thenkarai	0.55	
6	Alandurai	0.55	
B	VILLAGE PANCHAYAT		
7	Thennamanallur	4.05	
8	Devarayapuram	0.55	
9	Zakirnaickenpalayam	0.1	
10	Vellimalaipattinam	0.1	
11	Narasipuram	0.15	
12	Ikkaraiboluvampatty	0.3	
13	Semmedu(Ikkaraiboluvamp	0.2	
14	Maduvarayapuram	1.4	
15	Madampatty	1.4	
16	Theethipalayam	1.65	
17	Perur Chettipalayam	0.85	
	COMMON SUMP		
18	Veerapandi Pirivu	7.35	
19	Thanneerpandal	2.3	
	Total No. of Sump	19	
16	Pump Rooms		
	Beneficiaries	size	Nos
	COMMON SUMP		
	Veerapandi Pirivu	12mx8m	1
	Thanneerpandal	6m x 4m	1
	Town Panchayats and Village Panchayats		
	Thennamanllur	6m x 4m	1
	For Other Town Panchayats and Village Panchayats	4m x 4m	16
	Total		19

17 PROPOSED SERVICE RESERVOIRS AND DISTRIBUTION SYSTEM						
	Name of Panchayat	Capacity in LL	Staging	Nos	D' system	
					Length (m)	Pipe
Town Panchayats						
Vedapatty	1.3	16	3	23489	250 mm DI, 90 - 160 mm PVC	
	0.4	12	1			
Dhaliyur	1.5	16	1	34392	90 - 160 mm PVC	
	1.3	16	1			
	0.9	16	1			
Thondamuthur	2.0	16	1	21636	90 - 140 mm PVC	
	0.4	12	3			
	0.3	12	2			
	0.1	6	2			
Thenkarai	1.0	16	2	14625	90 - 140 mm PVC	
	0.5	12	1			
	0.3	12	1			
Pooluvapatty	1.4	16	1	19846	250 mm DI, 90 - 160 mm PVC	
	1.3	16	1			
	1.0	16	1			
	0.8	12	1			
	0.1	6	1			
Alandurai	1.2	16	1	8592	90 - 160 mm PVC	
	0.8	16	1			
Perur	2.9	16	1	9157	90 - 160 mm PVC	
Total			27	131737		
Village Panchayats						
Perur Chettipalayam (Master Service Reservoirs)	0.8	16	1	2570	140 mm PVC	
	1.2	16	1	2100	110 mm PVC	
	2.3	16	1	5930	110mm / 140mm PVC	
Ikkaraiboluvampatty Pt Mullankadu	0.1	7.5	1	30	90 PVC	
Madampatti Pt Saravana Nagar	0.1	7.5	1	1000	90 PVC	
Madampatti Pt Kuppanur	0.1	7.5	1	1000	90 PVC	
Theethipalayam Pt Chithirai chavadi	0.1	7.5	1	1000	90 PVC	
Theethipalayam Pt Krishna colony	0.1	7.5	1	1000	90 PVC	
Theethipalayam Pt MG Nagar	0.1	7.5	1	1000	90 PVC	
Maduvarayapuram Pt Nallurpathy	0.1	7.5	1	30	90 PVC	
Maduvarayapuram Pt Chinnar	0.2	7.5	1	1000	90 PVC	
Thennamnallur Pt Thennamnallur	0.1			1000	90 PVC	
Total			11	17660		

18	Proportionate Cost (Rs. In Lakhs)			
	Thondamuthur TP	1405.39		
	Pooluvapatty TP	1658.58		
	Thenkarai TP	968.37		
	Vedapatti TP	1510.97		
	Dhaliyur TP	1363.07		
	Alandurai TP	983.63		
	Perur TP	1075.89		
	Rural Habitations	4080.1		
	Total	13046.00		
19	Per capita Cost	Rs. 9043		
20	Cost per 1000 Litres	Rs.21.22		
21	Funding Pattern	Town Panchayats	80%	MNP
			20%	Local body Contribution
		Rural Habitations	100%	MNP