

CWSS to 5 Town Panchayats and 318 Rural Habitations in Madathukkulam and Udumalpet Unions of Tiruppur District.							
SALIENT DETAILS							
1	State/District	TAMIL NADU		Tiruppur			
2	Beneficiary	5 Town Panchayats namely Madathukulam, Komaralingam, Sankaramanallur, Kaniyur & Dhali and 318 Rural Habitations in Madathukkulam and Udumalpet Unions of Tiruppur District.					
3	Population	Census 2011	Base Year 2020	Intermediate 2035	Ultimate 2050		
	Madathukulam T.P.	20620	28500	37500	50500		
	Komaralingam T.P.	13642	15000	17700	20800		
	Sankaramanallur T.P.	10283	11000	12300	13800		
	Kaniyur T.P.	6180	7900	8800	9900		
	Dhali T.P.	5874	6160	6660	7200		
	<b>Total for 5 TPs</b>	<b>56599</b>	<b>68560</b>	<b>82960</b>	<b>102200</b>		
	<b>Rural Udumalaipet Union</b>	142564	157530	188000	226640		
	<b>Rural Madathukulam Union</b>	53365	57700	66640	77750		
	<b>Total</b>	<b>252528</b>	<b>283790</b>	<b>337600</b>	<b>406590</b>		
4	Existing Water Quantity (MLD)		Designed Qty	Present supply	Source		
			2.25	2.10	CWSS to Poolankinaru & 39 Habitations		
			7.40	7.10	CWSS to Kanakkampalayam & 144 Habitations		
			11.75	10.75	CWSS Madathukulam & 112 Habitations and 3 TPs		
			<b>21.40</b>	<b>19.95</b>			
			40 lpcd (During Summer)				
5	Proposed Prorata Supply	90 lpcd for Town Panchayats 55 lpcd for rural habitations					
6	Raw water Demand for the regrouped CWSS	Intermediate Stage 2033	Ultimate Stage 2048	Treatment Plant			
		MLD	MLD				
	New Poolankinaru	2.80	3.20	Existing Treatment Plant outlived			
	New Kanankampalayam	6.66	8.47	To be served with the existing 9.84 MLD Treatment Plant			
	New Madathukulam	4.79	5.63	Qty required for the regrouped CWSS			
	Existing Madathukulam	9.81	12.08	To be served with the existing 13.61 MLD Treatment Plant			
	<b>Total Clear Water</b>	<b>7.59</b>	<b>8.83</b>				
	<b>Total Raw Water</b>	<b>7.97</b>	<b>9.27</b>	<b>new treatment plant proposed for 7.97 MLD</b>			
7	Proposed Source	Dhali Canal near Thirumoorthy Dam					
8	Components						
a	Head Works	Collection Well cum Pump House: Collection Well - 6.00m dia, Pump House - 8.00 m dia, Intake pipe- 600mm CI D/F pipe - 150m					
b	Raw water Pumpsets	Vertical turbine Pumpsets of duty 2888 lpm x 30 m - 3 Nos. (2 + 1 Standby)					
c	Raw Water Main	450mm DI K7 pipes : 1140 m					
d	Treatment Plant	7.97 MLD Full Scale WTP comprising Aerator, Stilling Chamber, Flash Mixer, Clariflocculator, Rapid sand Filters, at Tirumoorthy Dam site					

e	Clear water reservoir and Pumpsets	Sump	3.85 LL		
		Pump House	12m x 8 m		
		Pumpsets	HSC centrifugal pumpsets of duty 1736 lpm x 47 m ( 3 Nos.) 50% standby to pump 3471 lpm to the Stand Post at Treatment Plant Site for New Madathukulam alignment		
			Open well Submersible Pumpsets of duty 1558 lpm x 40 m head 2 Nos. (1 No. Running and 1 No. standby) from Clear Water Reservoir to the New Poolankinar alignment for 48 rural habs		
			Open Well Submersible Pumpsets of duty 472 lpm x 24 m head 2 Nos. (1 No. Running and 1 No. standby) from Clear Water Reservoir to Dhali T.P		
		HSC centrifugal pumpsets of duty 4826 lpm x 24 m ( 2 Nos.) 50% standby to the Stand Post at Treatment Plant Site for New Kanakkampalayam CWSS			
f	Clear Water Transmission Main	New Poolankinaru CWSS		250mm& 200 mm DI pipes-7500m and 200 mm to 63 mm PVC Pipes - 14810 m existing - 27580m (Total - 49890 m)	
		New Madathukulam CWSS		400 to 100 mm DI pipe -48090 m and 160 to 63 mm PVC Pipes - 39480 m existing - 72560m (Total - 160130 m)	
		New Kanankkampalayam CWSS		300 to 250 mm DI-3270m, 200 to 63 mm PVC Pipes - 54110 m existing 69965m (Total - 127235 m)	
		Existing Madathukulam CWSS		200mm DI- 1850m, 160 to 63 mm PVC Pipes - 33370 m existing -113620m (Total - 148840 m)	
g	Booster Station at Kuralkuttai		Sump	0.95 LL	
			Pump House	4m x 4m	
			Pumpsets	186 lpm X 33 m HSC (12 Hrs Pumping)	
h	Booster Station at Anthiyur		Sump	0.15 LL	
			Pump House	4m x 4m	
			Pumpsets	148 lpm X 35 m HSC (23 Hrs Pumping)	
i	Pumpset replacement for the Existing Booster Sumps				
	For Poolankinaru sump	OW 338 lpm x 29 m (23 hrs pumping)			
	For Kurichikottai sump	OW 127 lpm x 25 m (23 Hrs pumping)			
	For Jallipatti sump	OW 219 lpm x 35 m (23 Hrs pumping)			
9	Cost	Installation Cost Rs in	AM Cost Rs in Lakhs		
	Total	70.00	340.00		
	Madathukulam TP	5.32	49.08		
	Komaralingam TP	2.86	24.29		
	Sankaramanallur TP	1.27	16.99		
	Kaniyur TP	1.01	18.05		
	Dhali TP	1.77	7.57		
	Rural Habitations	57.77	224.02		
10	Per capita Cost	Rs.2,467			
11	Cost per 1000 Litres	on Project Cost & AM	on AM		
		Rs.8.97	Rs. 3.17		

12	Funding Pattern	For 5 TPs	To be decided by DTP (100% Grant by GoTN)
		For Rural	To be decided by DRD (100% Grant by GoTN)