

## SALIENT DETAILS

### CWSS to 637 Rural Habitations in Aruppukottai, Kariapatti,Thiruchuli, Narikudi and Virudhunagar(Part) Unions in Virudhunagar District with Tamiraparani River Source near Vallanadu.

Installation Cost	<b>Rs.191Crore</b>		
A.M.Cost	<b>Rs.5.15 Crore .</b>		
Per capita cost	<b>Rs.5,410/-</b>		
Cost per 1000 litres	<b>Rs. 24.12</b>		
<b>POPULATION AND REQUIREMENT</b>	<b>Base Year (2012)</b>	<b>Intermediate (2027)</b>	<b>Ultimate (2042)</b>
Aruppukotta Union (113)	96,886	1,06,577	1,16,263
Kariapatti Union (153)	76,368	84,017	91,639
Thiruchuli Union (148)	86,032	94,638	1,03,248
Narikudi Union (217)	76,562	84,238	91,866
Virudhunagar Union (6)	17,197	18,918	20,635
<b>Total Rural Habitations(637)</b>	<b>3,53,045</b>	<b>3,88,388</b>	<b>4,23,651</b>
<b>Prorata supply</b>	40 lpcd for Rural habitations (including 10 lpcd sustainable existing supply)		
Net Requirement (in litres), including 10% transmission loss	10.59 MLD	13.08 MLD	14.26 MLD
Rate of supply at 20 hrs. pumping with minimum 10 lpm	10,062 LPM	11,023 LPM	11,953 LPM
Source	Sub surface water from Thamiraparani River near Vallanadu (12 Infiltration wells of 4.5 M DIA ) Pumpset : 790 lpm x 18m Head – 6 Nos & 790 LPM X 15m H – 6 Nos with 100% standby		
Connecting Main	200mm DI K7 pipes-2,020m		
Stand post at Murappanadu Site I.	1.00 LL Capacity-1 No		
Common Sump at Murappanadu Site II	6.25.00 LL Capacity –1no,Pump room-15mx9m-1no HSC pump set ,4740 lpmx 80m Head – 3 nos (2 nos. running in Parallel to discharge 9480 lpmx80m head, with 50 % standby)		
Gravity Main from Stand post to 6.25LL common sump	450mm DI K7 pipe-1,075m		

<b>Intermediate sumps/Receiving sumps</b>		
Location	Capacity	Pump Room
Maniachi	6.25 LL	15mx9m
Keela Eeral	6.25 LL	15mx9m
Pandalkudi	3.6 LL	15mx9m
M.Reddiapatti	1.85 LL	6mx4m
Paralachi Vilakku	0.70 LL	6mx4m
Chidambarapuram vilakku	0.60 LL	2mx2m
Aruppukottai	4.65LL	15mx9m
Pisindi vilakku	1.60LL	3m x3m
Kulasekaranallur	2.65LL	6 m x 4 m
Tamilpadi	2.65 LL	6 m x45 m
Narikudi	1.7 LL	6 m x 4 m
Kilavikulam Vilakku	0.25 LL	2 mx2m
Other Rural Sumps	129 Nos (0.1LL to 3.25 LL)	

Name of Beneficiaries	Service Reservoirs (in Nos)								Distribution System (in Kms)	
	0.10 LL		0.30 LL		0.60 LL	1.0 LL	Total		E	P
	E	P	E	P	E	E	E	P		
Aruppukottai Union	41	-	63	-	59	13	176		158.70	
Kariapatti Union	81	8	93	-	23	4	201	8	138.70	1.1
Tiruchuli Union	38	7	77		35	7	157	7	156.95	0.7
Narikkudi union	59	29	87	5	22		168	34	170.00	9.7
<b>Total</b>	<b>219</b>	<b>44</b>	<b>320</b>	<b>5</b>	<b>139</b>	<b>24</b>	<b>702</b>	<b>49</b>	<b>624.35</b>	<b>11.50</b>