

## SALIENT DETAILS

1. Name of the Scheme : CWSS to Nanguneri, Thisayanvilai TPs and 297 Wayside habitations including WSIS to Kalakadu Tp in Tirunelveli District.
2. Cost of scheme : Rs.30.70 Crore
3. Maintenance Cost : Rs.1.96 Lakhs
4. Per capita cost (present) : Rs.1413
5. Cost per 1000 litres : Rs.14.47
6. Population :

Sl.No	Description	No. of Hab.	Populations		
			Pre-2010	Inter-2025	Ult-2040
1	Rural habitations	297	155295	170812	186353
	Total Panchyats				
1	Nanguneri		10500	13000	16000
2	Thisayanvilai		21000	25000	30000
3	Kalakadu		30500	36000	43000
	Total		217295	244812	275353
	Total requirement Adopting minimum 10 lpm including transmission loss			11.82 MLD (9851 lpm)	13.35 MLD (11126 lpm)

7. Hours of Pumping : 20 Hours

8	Head Works		
a)	Source	E	3.5 m dia infiltration well – 11 Nos in River Tamiraparani near Pathamadaï 4.5 m dia infiltration well – 3 Nos in River Tamiraparani near Pathamadaï
		N	3.5 m dia infiltration well – 7 Nos in River Tamiraparani near Pathamadaï
b)	Pump set	E	7.5 HP Submersible pumpset – 900 lpm x 25 m – 1Nos (100 % stand bye) 5.0 HP Submersible pumpset – 600 lpm x 25 m – 2Nos (100 % stand bye) 5.0 HP Submersible pumpset – 715 lpm x 15 m – 11Nos (100 % stand bye)

		N	Submersible – 5 HP -580 lpm x 16 m – 7 Nos ( 100 % stand bye)		
c)	Connecting main	E	150 mm dia CI LA class pipe (Total length 4090 M)		
		N	150 mm dia CI LA class pipe (Total length 9806 M)		
d)	Sump cum pump house	E	Capacity of sump : 2.50 LL		
		N	Capacity of sump : 4.00 LL		
e)	Control room	E	12 m x 7 m		
f)	Pump set	E	Turbine pump set – 90 HP duty 7220 lpm x 39 m (100 % Stand bye)		
		N	Turbine pump set – 75 HP duty 4623 lpm x 45 m (100 % Stand bye)		
9)					
a)	Pumping main & Br.Pumping main	E	PSC – 500 mm, AC – 400 mm to 150 mm, CI – 500 mm to 100 mm, PVC -140 mm to 63 mm & 50 mm, GI =102806 m		
		N	PSC main – 400 mm to 350 PSC =32145 m		
b)	For Rural habitations	E	AC – 125 mm to 150mm, CI-80 mm to 150 mm, PVC-140mm to 50mm & 50 mm, GI =400785 m		
		N	PVC-140mm to 50mm =158512 m		
c)	Nanguneri TP	E	AC- 200 mm, PVC – 90 mm to 63 mm =4944m		
		N	PVC-140 mm & 110 mm =12 m		
d)	Thisayanvilai TP	E	PVC – 140 mm to 90 mm =420 m		
		N	PVC – 200 mm to 90 mm =4256 m		
e)	Kalakadu TP	E	AC – 150 mm, PVC – 140mm to 75mm =6030 m		
		N	200 mm to 63 mm PVC =12016 m		
10	Booster Sump	E/N	Cap	Pump room	Pumpset
a)	Singikulam	E	2.50 LL	10 m x 8 m	Cent – 75 HP 5184 lpm x 51m (100 % Stand bye)
		N	5.00 LL	8 m x 5 m	Cent – 60 HP 3253 lpm x 52m (100 % Stand bye)
		N			Cent – 40 HP 1683 lpm x 59m (100 % Stand bye) (To Kalakkadu)
		N			Sub – 5 HP 165 lpm x 33 m (100 % Stand bye) (Rajiv Gandhi Nagar)
		N			Sub – 7.5 HP 187 lpm x 56 m (100 % Stand bye) (Karanthaner North)
b)	South Vijayanarayanam	E	1.00 LL	10 m x 8 m	Cent – 30 HP 1960 lpm x 33 m ( 100 % Stand bye) (Main)
		E			Cent – 7.5 HP 450 lpm x 28 m ( 100 % Stand bye) (Ittamozhi)
		N	1.00 LL		Sub – 5 HP 145 lpm x 29 m ( 100 % Stand bye)

					( Savalakarankulam)
		N			Sub – 7.5 HP 251 lpm x 29 m ( 100 % Stand bye) ( North Vijayanarayanam)
		N			Sub – 2 HP 177 lpm x 16 m ( 100 % Stand bye) (South Vijayanarayanam)
		N			Sub – 10 HP 120 lpm x 47 m (100 % Stand bye) (Parapadi)
C)	Thisayanvilai	E	0.50 LL	8 m x 6 m	Cent – 12.5 HP 560 lpm x 42m ( 100 % Stand bye) (Thisayanvilai)
		E			Cent – 7.5 HP 630 lpm x 20m ( 100 % Stand bye) (Thisayanvilai)
		N	0.60 LL		Sub – 12.5 HP 830 lpm x 40 m ( 100 % Stand bye) ( Thisayanvilai)
		N			Sub – 3 HP 68 lpm x 21 m ( 100 % Stand bye) ( Appuvilai)
		N			Sub – 7.5 HP 115 lpm x 41 m ( 100 % Stand bye) ( Suvisesapuram)
11	Group Sump at	E/N	Cap	Pump room	Pumpset
a)	Manimutharkulam	N	0.10 LL	2 m x 2 m	Sub – 1 HP 34 lpm x 9 m ( 100 % Stand bye) (Manimutharkulam)
b)	Marukalkurichi	N	0.30 LL (BSR)		Sub – 2 HP 99 lpm x 22 m ( 100 % Stand bye) (Meenavankulam)
		N	0.10 LL		Cent – 5 HP 156 lpm x 29 m (100 % Stand bye)(Perumpathu)
c)	Perumal Nagar	E			Cent – 3 HP 80 lpm x 26 m (100 % Stand bye) (Keelakarankadu)
		E	0.10 LL	6 m x 4 m	Cent – 3.5 HP 90 lpm x 27 m ( 100 % Stand bye) (Thoranakuruchi)
		N	0.60 LL		Sub – 5 HP 186 lpm x 27 m ( 100 % Stand bye) (Alangulam)
d)	Mavadi	E	1.50 LL	10 m x 10 m	Cent – 60 HP 3525 lpm x 37 m ( 100 % Stand bye) (Radhapuram)
		E	0.60 LL		Sub – 2 HP 116 lpm x 25 m ( 100 % Stand bye) (Chinnammalpuram)
		E			Cent – 5 HP 230 lpm x 38 m ( 100 % Stand bye) (Anaikulam)
e)	Shanmugapuram	E	0.10 LL		Sub – 3 HP 125 lpm x 25 m

					( 100 % Stand bye) (Nallammalpuram)
f)	Moolakadu	E	0.05 LL	1.5 m x 1.5 m	Sub – 3 HP 50 lpm x 40 m ( 100 % Stand bye) (Theraikulam)
g)	Samugarengapuram	N	2 LL	3 m x 3 m	Sub – 7.5 HP 353 lpm x 31 m ( 100 % Stand bye) (Pulikulam)
		E	0.10 LL		Sub – 5 HP 350 lpm x 40 m ( 100 % Stand bye) (Seelathikulam)
		E			Cent – 3 HP 150 lpm x 35 m ( 100 % Stand bye) (A.Thirumalapuram)
h)	Radhapuram	E	1.0 LL	12 m x 8 m	Cent – 30 HP 1445 lpm x 45 m ( 100 % Stand bye) (Vadakankulam Sump)
		N	4 LL		Sub – 5 HP 302 lpm x 32 m ( 100 % Stand bye) (Subramaniaperi)
		N			Sub – 3 HP 125 lpm x 30 m ( 100 % Stand bye) (Kattalaicheri)
		N			Sub – 2 HP 202 lpm x 15 m ( 100 % Stand bye) (Uthayathoor Yadavar Kudiyerruppu)
i)	VadakkanKulam - I	E	0.50 LL	10 m x 8 m	Cent – 12.5 HP 700 lpm x 46 m ( 100 % Stand bye) (Avaraikulam Sump)
		E			Cent – 15 HP 510 lpm x 75 m ( 100 % Stand bye) (Kavalkinaru)
		E			Sub – 3 HP 125 lpm x 25 m ( 100 % Stand bye) (Betharengapuram)
		E			Sub – 2 HP 130 lpm x 25 m ( 100 % Stand bye) (Kalkarai)
		E			Sub – 2 HP 80 lpm x 25 m ( 100 % Stand bye) (Koliyankulam)
j)	VadakkanKulam - II	N	3 LL	2 m x 2 m	Sub – 3 HP 179 lpm x 25 m ( 100 % Stand bye) (Madanadarkudieruppu)
		N			Sub – 5 HP 203 lpm x 30 m ( 100 % Stand bye) (Vadakankulam Hamlets)
K)	Alaganeri	N	1LL	2 m x 2 m	Sub – 3 HP 250 lpm x 26 m (100% Stand bye) (Meenakshinathapuram)
		N			Sub – 2 HP 150 lpm x 45 m (100 % Stand bye )(Palavoor)
		N			Sub -2 HP 90 lpm x 45 m (100% Stand bye)

					(Uralvaimozhi Colony)
l)	Avaraikulam -I	E	0.15 LL		Sub – 5 HP 350 lpm x 40 m (100% Stand bye) (Avaraikulam)
m)	Avaraikulam -II	N	0.60 LL	2 mx 2 m	Sub – 3 HP 197 lpm x 58 m (100 % Stand bye)(Ambalavanapuram)
n)	Chithambarapuram	N	0.60 LL	2 m x 2 m	Sub -7.5 HP 218 lpm x 31 m (100% Stand bye) (Chithambarapuram Hamlets)
o)	Ittamozhi – I	E	0.10 LL		Sub – 4 HP 200 lpm x 40xm (100% Stand bye ) (Ittamozhi Hamlets )
p)	Ittamozhi – II	N	1 LL	2 m x 2 m	Sub 3 – HP 167 lpm x 21 m (100% Stand bye ) (Vadalilvilai)
q)	Patrakattivilai	E	0.10 LL		Sub -4 HP 125 lpm x 40 m (100% Stand bye) (Eranthai)
		E			Sub -2 HP 57 lpm x 40 m (100% Stand bye ) (Muthammalpuram)
r)	Rajiv Gandhi Nagar	N	0.6 LL	2 m x 2 m	Sub -4 HP 125 lpm x 40 m (100% Stand bye) (Tharagankadu)
s)	Pettaikulam	E	0.10 LL		Sub -3 HP 250 lpm x 40 m (100% Stand bye ) (Thinakarankulam)
		N	0.60 LL		Sub -5 HP 75 lpm x 18 m (100% Stand bye ) (Rammathapuram)
t)	Kasthuri Rengapuram	N	0.10 LL		Sub -3 HP 100 lpm x 45 m (100% Stand bye) (Anakkarai)

12)	Sump at Town Panchyats												
a)	Nanguneri	E	0.15 LL										
		N	2 LL										
b)	Keelakaruvelan kulam	N	1.5 LL	3 m x 3 m									
		N											
13	Service reservoirs		Capacity in Lakh liters										
			0.10	0.15	0.30	0.60	1.00	1.35	1.5	2.00	5.00	Total 1	Total
a)	Rural habitations	E	57	11	123	41	11					243	298
		N	49		6							55	
b)	Nanguneri TP	E			1	1		1				3	4
		N								1		1	

[illegible]