

CWSS TO 146 HABITATIONS IN MANIKANDAM UNION IN TRICHY DISTRICT AND 5 ENROUTE HABITATIONS IN VIRALIMALAI UNION OF PUDUKOTTAI DISTRICT WITH BULK PROVISION TO 22 HABITATIONS IN ANDANALLUR UNION AND POWER GRID CORPORATION OF INDIA LTD. AND TNEB QUARTERS AT ALUNDUR IN TRICHY DISTRICT.

1	Administrative approval	GO MS No:134 /MS&WS /WS3 /dt 8.9.2005 for Rs.1312 Lakhs.
2	Technical Sanction	CE/ER/TNJ 22/2005-06 for Rs . 1291 Lakhs
3	Project cost:	
	Cost for installation	Rs.1291 Lakhs
	Annual Maintenance Cost	Rs.30 Lakhs
4	Date of Commencement	1.11.2007
5	Date of completion	1.4.2011

I BENEFICIARIES

<u>Panchayats</u>	<u>Habitations</u>
1 Athavathur	1 Athavathur
Athavathur	2 Palayam
Athavathur	3 Koyyathoppu
Athavathur	4 Athavathur santhai
Athavathur	5 Pallakadu
Athavathur	6 Melapatty sakthinagar
Athavathur	7 Sunnambukaranpatty
Athavathur	8 Nettachikadu
Athavathur	9 Thappakuttikadu
Athavathur	10 Nondi thiruvekadu
2 Allithurai	11 Allithurai
Allithurai	12 Mela saveriyarpuram
Allithurai	13 Santhapuram
Allithurai	14 Saravanapuram
3 Thayanur	15 Thayanur
Thayanur	16 Melakadu
Thayanur	17 Keelakadu
Thayanur	18 Ariyathukarai
4 Alundur	19 Sooralipatti
Alundur	20 Sengulam
Alundur	21 Alundur
Alundur	22 Yagappaudayanpatty
Alundur	23 Pallapatty
Alundur	24 Kavundanayakkanpatty
Alundur	25 Chettiurooranipatti
Alundur	26 Sorakudipatty
Alundur	27 Sorakudipatty
Alundur	27 Kodangipatty
Alundur	28 Kottapattu
Alundur	29 Seventhiyandipatti
Alundur	30 Sorakudipatty west

	Alundur	31 Seval patty	
5	Nagamangalam	32 Nagamangalam	
	Nagamangalam	33 Eachen thottam	
	Nagamangalam	34 Narayanapuram	
	Nagamangalam	35 Samiyapillaipatty South	
	Nagamangalam	36 Samiyapillaipatty North	
	Nagamangalam	37 Melanagamangalam	
	Nagamangalam	38 Silumbudayanpatty	
	Nagamangalam	39 JJ Colony MGR Nagar&	
	Nagamangalam	40 Anna Nagar	
	Nagamangalam	41 Nehruji Nagar	
	Nagamangalam	42 Malar Nagar	
	Nagamangalam	43 Adukkumadikudiyu ruppu	
6	Sethurapatti	44 Sethurapatty	
	Sethurapatti	45 Vellappaudayanpatty	
	Sethurapatti	46 Fathima Nagar	
	Sethurapatti	47 Kujiliyampatty	
	Sethurapatti	48 Therkusooralipatty	
	Sethurapatti	49 Sethurapatty South	
	Sethurapatti	50 Erangudi	
	Sethurapatti	51 Kumbakurichi	
7	Ariyavur South	52 Ariyavur South	
	Ariyavur South	53 Ariyavur North	
	Ariyavur South	54 Somasipatti	
	Ariyavur South	55 Vijayanagaram	
	Ariyavur South	56 Othakadai	
8	Chathirapatti	57 Chathirapatti	
9	Mathur	58 Nayakkar Street	
	Mathur	59 Kallar Street	
	Mathur	60 Mathur	
	Mathur	61 Sannasipatti	
	Mathur	62 Sannasipatti AC Colony	
	Mathur	63 Mathur Anna nagar	
10	Enamkulathur	64 Periya Alampatty	
	Enamkulathur	65 Alampattypudur	
	Enamkulathur	66 Vellivadi	
	Enamkulathur	67 Enamkulathur	Supply by Pudukottai CWSS
	Enamkulathur	68 Chinna Alampatty	
	Enamkulathur	69 Keelapatty	
	Enamkulathur	70 Thoppupatty	
	Enamkulathur	71 Pudukudiyiruppu	
	Enamkulathur	72 Rajakattupatty	
11	Melaammapettai	73 Melaammapettai	
	Melaammapettai	74 Keelaammapettai	
	Melaammapettai	75 Poolankulathupatty	
	Melaammapettai	76 Vadakkuammapettai	
	Melaammapettai	77 Ammapettai Anna nagar	
	Melaammapettai	78 JJ Nagar	

12 Kallikudi	79 Kallikudi
Kallikudi	80 Easanaipatti
Kallikudi	81 Aravakurichi
Kallikudi	82 Manikandam
Kallikudi	83 Manikandam H
Kallikudi	84 Gandhi Colony
Kallikudi	85 Cholan nagar
Kallikudi	86 Poongudi
Kallikudi	87 Poongudi
	Vadakkumedu
Kallikudi	88 Manikandam union
	office
Kallikudi	89 Mattaparai
Kallikudi	90 Deenathayalan
Kallikudi	91 Kalingapatti
Kallikudi	92 Iyankadu
Kallikudi	93 Ambedkar Nagar
Kallikudi	94 Kandasamy
	udayar nagar
Kallikudi	95 Malaipatti
Kallikudi	96 Ramji nagar
13 Mekkudi	97 Mekkudi
Mekkudi	98 M.Alampatty
Mekkudi	99 Senkurichy
14 Nachikurichi	100 Nachikurichi
Nachikurichi	101 Bommasamuthiram
Nachikurichi	102 Kanagalaksmi Nagar
Nachikurichi	103 Cholinganallur
Nachikurichi	104 Vasan Nagar
Nachikuruchi	105 Iniyanur
Nachikuruchi	106 Dheeran nagar
Nachikuruchi	107 Vanchinathan nagar
15 Kuttapattu	108 Navalur
Kuttapattu	109 Kuttapattu
Kuttapattu	110 Keelakadu
Kuttapattu	111 Aravangalpatty
Kuttapattu	112 Vannankoil
Kuttapattu	113 Muthukulam
Kuttapattu	114 Anbunagar
Kuttapattu	115 Ambethkar nagar
Kuttapattu	116 Bharath Nagar
16 Paganur North	117 Paganur North
Paganur North	118 Melapaganoor
Paganur North	119 Paganur south
17 Mudikandam	120 Mudikandam
Mudikandam	121 Kolarpatty
Mudikandam	122 Olaiyur
Mudikandam	123 Olaiyur East
18 Thuraikudi	124 Thuraikudi
Thuraikudi	125 Kollukattankudi
19 ThirumalaiSamut	126 ThirumalaiSamuthiram
ThirumalaiSamut	127 Mullipady
20 Kumaravayalur	128 Kothattai

	Kumaravayalur	129 Kothattai H	
	Kumaravayalur	130 Kumaravayalur	
	Kumaravayalur	131 Kumaravayalur H	
21	Somasampettai	132 Somarasampettai	
	Somasampettai	133 Ambethkar nagar	
	Somasampettai	134 Keelavayalur	
	Somasampettai	135 Varaganthidal	
	Somasampettai	136 Pappakurichi	
	Somasampettai	137 Vadugaputhur	
	Somasampettai	138 Ambalakaran St	
	Somasampettai	139 KK Nagar	
	Somasampettai	140 Siru vayalur	
22	Punganur	141 Punganur	
	Punganur	142 Punganur AD Colony	
	Punganur	143 Murugankoil Street	
	Punganur	144 Anthoniyarpuram	
	Punganur	145 Nedumalai	Deleted
	Punganur	146 Kalingankadu	
	Punganur	147 Ammasigoundankadu	
23	Kunnathur	148 Kalimangalam	
	(Viralimalai Uni)		
24	Mandaiyur(Viralimalai Union)	149 Singathakuruchi	
25	Komangalam (Viralimalai Union)	150 Komangalam	Supply by Ramnad CWSS
26	Kallukudi (Viralimalai union)	151 Vittamapatty	Supply by Ramnad CWSS

II POPULATION AND REQUIREMENTS (TOTAL)

	CWSS to 146 in Manikandam Union	Bulk provision to 22 Andanallur	Total
Present Population / 2006	89709	12613	102322
Intermediate Population / 2021	98685	13875	112560
Ultimate Population /2036	107647	15136	122783
Present requirement			
Intermediate requirement	3.73 MLD	3106 LPM	
Ultimate requirement	4.08 MLD	3400 LPM	
Hours of Pumping	20 Hours		

III HEADWORKS

a) Source

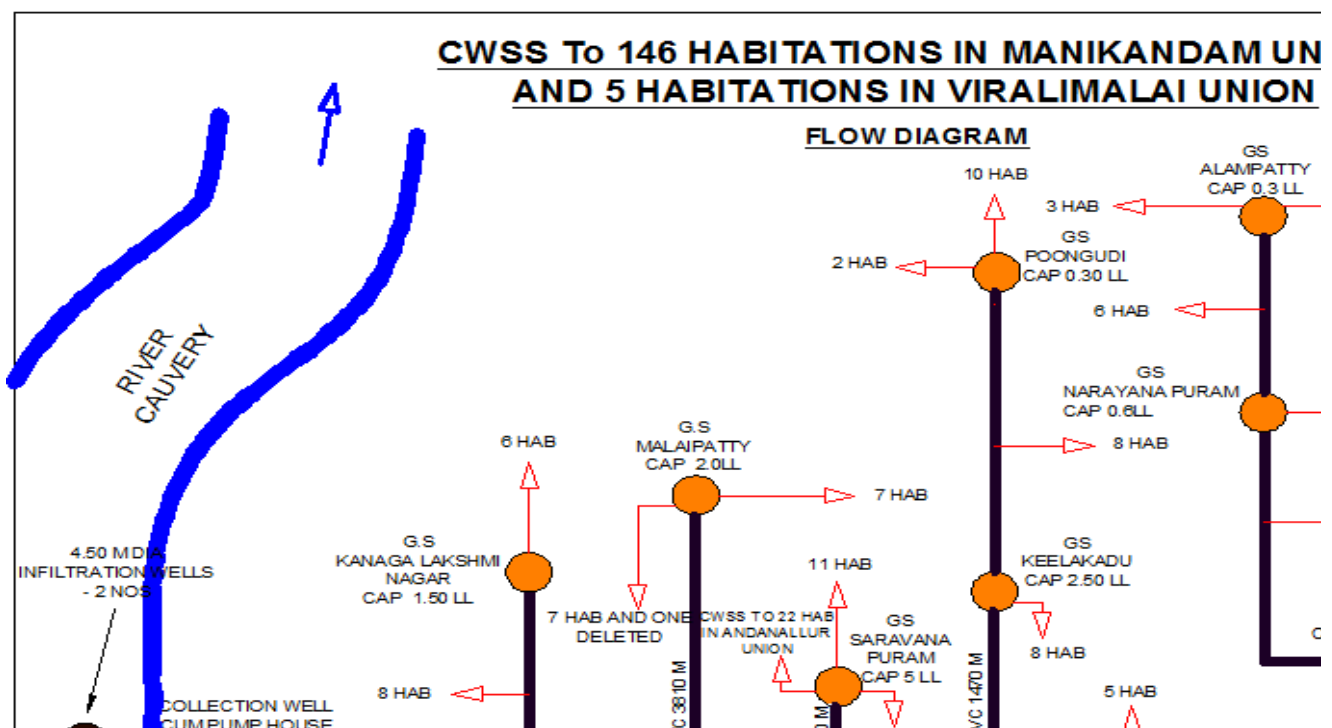
Infiltration Well -2 No, Dia 4.5 m& Depth 12 m

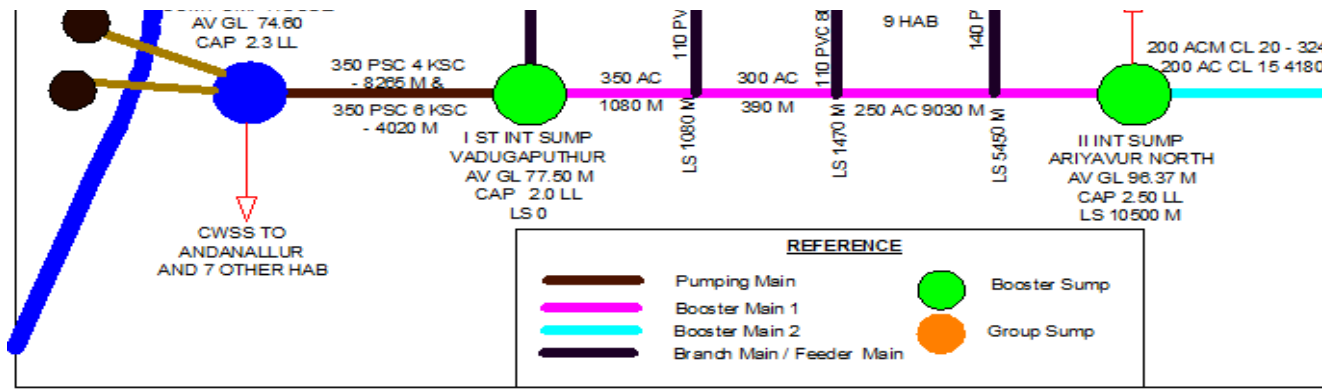
Collection Well Cum Pumphouse	Dia 5 m, depth 12 m , Capacity 2.25 LL
b) Pumpsets	
Infiltration Well	Submersible 2 Nos (100 % Standby) 12.50 HP, 1553 lpm x 20 m
Collection Well Cum Pumphouse	Vertical Turbine 2 Nos (100% Standby) 30 HP , 3106 lpm x 29 m
c) Booster Sump	
B. Sump I	Vadugaputhur Dia 5 m depth 2.5 m Capacity 2 LL Centrifugal 1+1 Nos (100 % standby) 40 HP, 2706 x 40 m Submersible 1+1 No (100 % standby) 3 HP, 400 lpm x 15 m
B. Sump II	Ariyavur North Dia 5 m depth 2.5 m Capacity 1 LL Submersible 1+1 No (100 % standby) 25 HP, 978 lpm x 55 m Submersible 1+1 No (100 % standby) 3 HP, 105 lpm x 24 m
d) Connecting Main	
Infiltration Well to Collection Sump	200 mm CI LA Class Pipe - 140 m 200 mm DI K9 Pipe - 200 m
e) Pumping Main	12285 m 350 mm PSC 6KSC & 350 mm PSC 4 KSC Pipe
f) Booster Main I	10500 m Sizes varies from 350 mm AC CL 20 to 250 mm AC CL 15
g) Booster Main II	12760 m Sizes varies from 200 mm AC CL 20 , 200 mm AC CL 15 & 140 mm PVC 4 KSC Pipe
h) Branch Main & Feeder Main	174.24 Km Sizes varies from 150 mm AC CL 15 & 140 mm PVC 4 KSC Pipe to 63 mm PVC 4 KSC Pipe, 50 mm PVC 6 KSC Pipe.
i) Group Sumps	

SL No	Location	Sump Capacity	Pumpset Details
1	Kanagalaksmi Nagar	1.5 LL	3 HP Submersible 358 lpm x 20 m
2	Malaipatt	2 LL	3 HP Submersible 287 lpm x 18 m
			5 HP Submersible 246 lpm x 24 m
3	Saravanapuram	5 LL	7.5 HP Submersible 391 lpm x29 m
			5 HP Submersible 373 lpm x 22 m
4	Keelakadu	2.5 LL	5 HP Submersible 246 lpm x29 m
			7.5 HP Submersible 524 lpm x31 m
5	Poongudi	0.3 LL	10 HP Submersible 249 lpm x 34 m
			1.5 HP Submersible 60 lpm x 17 m
6	Mathur	3.5 LL	3 HP Submersible 158 lpm x 35 m
7	Enamkulathur	2 LL	3 HP Submersible 279 lpm x 27 m
8	Narayanapuram	0.6 LL	2 HP Submersible 128 lpm x 18 m
9	M.Alampatty	0.3 LL	1 HP Submersible 58 lpm x 14 m
10	Kodangipatty	0.1 LL	2 HP Submersible 124 lpm x 33 m

J) Service Reservoir

157 Nos (New -4Nos & Existing 153 Nos , Capacity varies from 0.1 LL to 1 LL)





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