

**CWSS TO KILPENNATHUR TOWN PANCHAYAT AND 165
RURAL HABITATIONS IN KILPENNATHUR UNION IN
THIRUVANNAMALAI DISTRICT**

SALIENT DETAILS

1. Name of CWSS : CWSS to Kilpennathur T.P and 165 habitation in Kilpennathur Union of Thiruvannamalai District
2. Administrative Sanction No. and Amount : G.O.Ms.No.129 Dated: 17.09.2007 for Rs.1400 Lakhs
3. Technical Sanction No and Amount : CE/NR/TWAD/No.30/2007-2008/Dated: 04.10.2007 for Rs.1400 Lakhs
4. Name of Contractor : Thiru.R.Srinivasan, Pallavan Nagar, Annasalai, Thiruvannamalai.
5. Work Order No. : F.2920/F.Kilpennathur CWSS/SDO-2/CW/NR/2007/Dated: 30.01.2008
6. Date of Site Handing Over : 13.02.2008
7. Date of Commencement of Work : 13.02.2008
8. Date of Completion of Work : 23.10.2010
9. Population

<u>YEAR</u>	<u>2009</u>	<u>2024</u>	<u>2039</u>
Rural	70275	77320	84334
T.P	13600	15500	17500
10. Rate of Supply : Rural habitation - 40 LPCD
Town Panchayat - 135 LPCD
135 LPCD for 70% through HSC
40 LPCD for 30% through PF
11. Requirement

	Inter	Ulti
Rural	1.46 MLD	1.54 MLD
Town Panchayat	0.63 MLD	0.86 MLD
Total Requirement	2.09 MLD	2.40 MLD
12. Hours of Pumping : 20 Hours (Main)
12 Hours (Group Sump)

13.	Head Works	:	Infiltration Well	-	2 Nos
			Diameter	-	4.50 m
			Depth	-	8.00m
			Safe Yield	-	1000 lpm
			Pump sets	-	872 lpm x 24m- 4
			Connecting Main	-	150mm C.I.D/F
					Pipe-1200m(600x2)
			Pump room	-	6m x 4m
			Sump Capacity	-	60.000 Litres
			Pumpset	-	1743 lpm x 54m head

14.	Sump	:	
	1) Headwoks's		0.60 LL
	2) Angunam		1.50 LL
	3) Rajanthatgal		1.20 LL
	4) Polagunam		2.50 LL
	5) Kazhikulam		1.20 LL
	6) Karikalambadi		0.60 LL
	7) Kilpennathur		0.30 LL
	8) Mekkalur		0.60 LL

15. Pumping Main

i)	Head works to Angunam Sump	:	250mm DI K7 Pipe - 5000m 250mm AC CL 15 Pipe - 10120m
ii)	Angunam to Sump to Rajanthatgal Sump	:	250mm AC CL 15 Pipe - 9870m
iii)	Rajanthatgal Sump to Polagunam Sump	:	160mm PVC 4 KSC Pipe - 9870m
iv)	Polangunam Sump to Kazhikulam Sump	:	140mm OD PVC 6KSC Pipe - 9910m
v)	Rajanthatgal Sump to Karikalampadi Sump	:	200mm AC CL 15 Pipe - 7740m
vi)	Karikalampadi Sump to Kilpennathur Sump	:	200mm AC CL 15 Pipe - 5850m
vii)	Kilpennathur Sump to Mekkalur Sump	:	110mm PVC 4 KSC Pipe - 6150m

Kilpennathur Town Panchayat	:	150mm CI LA CL Pipe - 10m 110mm PVC 4KSC Pipe - 2600m 90mm PVC 4 KSC Pipe - 900m 75mm PVC 4 KSC Pipe - 1400m 75mm PVC 6 KSC Pipe - 1600m 63mm PVC 4 KSC Pipe - 1430m
16. Branch Pumping Main	:	140mm PVC 6 KSC to 50mm OD PVC 6 KSC 197.175 Km
17. Pumpset	:	OW Sub Pumpset - 1552 Lpm x 42m Head
i) Angunam Sump to Rajanthalgal		
ii) Rajanthalgal Sump to Mekkalur Sump	:	OW Sub Pumpset - 791 Lpm x 42 m Head
iii) Rajanthalgal Sump to Polagunam Sump	:	OW Sub Pumpset - 649 Lpm x 34m Head
iv) Polagunam Sump to Kazhikulam Sump	:	OW Sub Pumpset - 229 Lpm x 51m Head
Kilpennathur Town Panchayat		OW Sub Pumpset - 148 Lpm x 20m Head OW Sub Pumpset - 258 Lpm x 33m Head OW Sub Pumpset - 119 Lpm x 51m Head
18. Service Reservoirs		
1. Rural		0.30 LL - 6 Nos
2. Town Panchayat		0.10 LL - 34 Nos
19. Distribution System		
1. Rural		63mm PVC 4 KSC Pipe - 21460m
2. Town Panchayat		90mm PVC 4 KSC Pipe - 3578m
20. Cost		
Installation Cost	:	Rs.14.00 Crores
Annual Maintenance Cost	:	Rs.33.20 Lakhs
per Capita Cost	:	Rs.1669/-
Cost Per 1000 Litres	:	Rs.23.05

DETAILS OF PIPES, PUMPSET, HABITATIONS COVERED UNDER SUMPS

As per the Original Estimate

Location of Sump	Feeder Main to	No.of habs	Open well type sub pumpset	Feeder main & Br.Feeder main
				Size of Pipes - Length
Angunam	Sorathur Colony]	8	3HP x 109 Lpm x 48m	140mm PVC 6 KSC - 3500m 110mm PVC 4 KSC - 8350m 90mm PVC 4 KSC - 50m 50mm PVC 6 KSC - 380m Total - 12280m
	Periyaolaipadi Colony	16	5HP 209 Lpm x 46m	1140mm PVC 6 KSC - 500m 110mm PVC 4 KSC - 4000m 90mm PVC 4 KSC - 5680m 50mm PVC 6 KSC - 1625m Total - 12055m
Rajanthangal	Vayalur Kulathumedu	8	3HP x 105 Lpm x 45m	75mm PVC 6KSC - 450m 63mm PVC 6 KSC - 1300m 63mm PVC 4 KSC - 2182m 50mm PVC 6 KSC - 3328m Total - 7260m
	Ponnanmedu	8	3HP x 82 Lpm x 65m	90mm PVC 6KSC - 3665m 90mm PVC 4 KSC - 2810m 75mm PVC 4 KSC - 1145m 63 mm PVC 4 KSC - 3868m 50mm PVC 6 KSC - 13012m Total - 24500m

Karikalampadi	Rayanpettai	6	2HP x 78 Lpm x 58m	75mm PVC 6 KSC - 6300m 63 mm PVC 6KSC - 200m 63 mm PVC 4 KSC - 1216m 50mm PVC 6 KSC - 3524m Total - 17240m
	Thideer Kuppam	12	3HP x 136 Lpm x 39m	90mm PVC 4 KSC - 250m 75mm PVC 4 KSC - 1000m 63 mm PVC 4 KSC - 400m 50mm PVC 6 KSC - 5100m Total - 6750m
Mekkalur	Kattukulam	6	3HP x 82 Lpm x 60m	90 mm PVC 6 KSC - 5950m 50mm PVC 6 KSC - 3670m Total - 9620m
	Kathalampattu Pudur	7	2HP x 98 Lpm x 35m	75mm PVC 4 KSC - 400m 63 mm PVC 4 KSC - 3550m 50mm PVC 6 KSC - 6520m Total - 10470m
	Kalpoondi	5	1HP x 50 Lpm x 40m	63 mm PVC 4 KSC - 3600m 50mm PVC 6 KSC - 4233m Total - 8310m
Location of Sump	Feeder Main to	No.of habs	Open well type sub pumpset	Feeder main & Br.Feeder main
				Size of Pipes
Polaganam	Ganganandal	10	3HP x 129 Lpm x 51m	90mm PVC 4 KSC - 3750m 140mm PVC 6 KSC - 3700m 110 mm PVC 4 KSC - 3100m

				50mm PVC 6 KSC - 860m Total - 11410m
Solaikottai	11	3HP x 75 Lpm x 39m	110mm PVC 4KSC - 3800m 90mm PVC 4 KSC - 600m 75mm PVC 4 KSC - 360m 63 mm PVC 4 KSC - 450m 50mm PVC 6 KSC - 2950m Total - 8160m	
Chellankuppam New Colony	20	5HP x 211 Lpm x 47m	140mm PVC 6KSC - 1250m 140mm PVC 4 KSC - 700m 110mm PVC 4 KSC - 4100m 90 mm PVC 6 KSC - 1900m 90 mm PVC 4 KSC - 990m 50mm PVC 6 KSC - 3680m Total - 12620m	
Kunnam Kuppam	10	3HP x 119 Lpm x 51m	50mm PVC 6KSC - 4325m 63mm PVC 4 KSC - 3000m 63mm PVC 6 KSC - 350m 90mm PVC 6 KSC - 1060m 75mm PVC 4 KSC - 2350m Total - 11075m	
Kumarakudi Colony	6	1HP x 66 Lpm x 31m	63mm PVC 4 KSC - 400m 50mm PVC 6 KSC - 1195m 75mm PVC 4 KSC - 1700m Total - 3295m	

Kazhikulam	Anderithoppu	16	3HPX 187 LpM X35m	110mm PVC 4 KSC 690m 90mm PVC 4 KSC - 4230m 75mm PVC 4 KSC - 4540m 63mm PVC 4KSC -700m 50mm PVC 6 KSC - 6360m Total - 16520m
	Periyar Nagar	16	5HP X 194 Lpm X58m	140mm PVC 6 KSC - 7200m 110mm PVC 6 KSC - 1700m 110mm PVC 4 KSC - 2000m 90mm PVC 4 KSC - 1150m 90mm PVC 6 KSC - 4330m 50mm PVC 6 KSC - 9230m Total - 25610m
	Grand Total	165		1,97,175m

Newly Constructed 10000 litre OHT List

1)	Somasipadi West	-	Somapadi Pt
2)	S. Salaiyur	-	Sirunathur Pt
3)	Kazhikulam Colony	-	Kazhikulam Pt
4)	Periyandavar Koil	-	Sirunathur Pt
5)	Madha Nagar	-	Somasipadi Pt
6)	J. J. Nagar	-	Somasipadi Pt
7)	Karnampoondi Colony	-	Nariyamangalam Pt
8)	Kattuvelanandal Pudur	-	Polakunam Pt
9)	So. Nami. Kollakottai.	-	So. Nammiyandal Pt
10)	Vazhuthalankulam A. C	-	Valuthangulam Pt
11)	Panniyur New Colony	-	Panniyur pt
12)	Nariyamangalam - Murugam Parai	-	Nariyamangalam
13)	Velanandal - Neikuppam Col	-	Velanandal Pt
14)	Panniyur Jogir Colony	-	Panniyur Pt
15)	Kalingaleri Natha Kollai	-	Sorpananthal Pt
16)	Periyaolaipadi New Colony	-	Olaipadi Pt
17)	Eswaran Koil	-	Olaipadi Pt
18)	Anugumalai	-	Angumalai Pt
19)	Periyaolaipadi New Colony	-	Olaipadi Pt
20)	Arumpakkam Colony	-	Arumpakkam Pt
21)	Chellankuppam Group Housr	-	Chelankuppam Pt
22)	Vanniya Nagaram	-	Kolathur Pt
23)	Kamarajar Nagar	-	Nariyamangalam Pt
24)	Kumarakudi Pudur	-	Aranji Pt
25)	Vatrapudur Colony	-	Ingunam Pt
26)	Veerapathiran Nagar	-	Karikkalampadi Pt
27)	(Aranji Anna Nagar) Kaniampoondi Colony	-	Kaniyam Poondi Pt
28)	Nadupattu	-	Neivanatham Pt
29)	JJ Nagar (A)	-	Avoor Pt
30)	KeeKalur Ar Col	-	Kekkalur Pt

Newly Constructed 30000 litre OHT List

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|----|-----------------------------|---|--------------------|
| 1) | Sirunathur Colony | - | Sirunathur Pt |
| 2) | Periya Kazhikulam | - | Kazhikulam Pt |
| 3) | Vazuthalam Kulam New Colony | - | Valuthalamgunam Pt |
| 4) | Sanipoondi New Colony | - | Sanipoondi Pt |
| 5) | Rajanthangal Colony | - | Rajanthangal Pt |
| 6) | Kellalur New Colony | - | Kekkalur Pt |

CWSS to Kilpennathur TP & 165 Other Habitations in Kilpennathur Union in Tiruvannamalai District

FLOW DIAGRAM

