

## **SALIENT DETAILS**

### **CWSS TO NALLUR & 74 OTHER HABITATIONS IN VANDAVASI & THELLAR UNION**

1. Scheme Cost
  - a. Installation cost : Rs. 946.00 Lakhs
  - b. Annual Maintenance cost : Rs.
2. Administrative approval No & Amount : ----
3. Technical sanction No & Amount : ----
4. Beneficiaries :

S.No	Habitation	Pop	Cap in Lit	Design Qty(LLD)
1	Pulivoy	726	30000	0.29
2	Pulivoy col	700	10000	0.280
3	Salukkai	2125	60000	0.850
4	Salukkai HC	945	30000	0.380
5	Thazhampallam	620	30000	0.250
6	Padhiri	1375	60000	0.550
7	Padhiri Mel colony	590	30000	0.240
8	Vengunam	1140	30000	0.460
9	Vengunam HC	700	30000	0.280
10	Pandarathoppu	620	30000	0.250
11	AR Palayam	380	30000	0.150
12	Edatheri Pakkiri tharaka	1018	60000	0.410
13	Ammayapattu	2600	100000	1.040
14	Mummini	1390	100000	0.550
15	Mummini HC	610	30000	0.240
16	Muthunagar	550	30000	0.220
17	Annanagar	910	30000	0.360
18	Mampattu	650	30000	0.260
19	Mampattu HC	950	30000	0.380
20	Vengaram	720	60000	0.290
21	Vengaram HC	390	EPL	0.160
22	Avanavadi	1530	60000	0.610
23	Kamarajnagar	650	30000	0.260
24	Arasur	1352	60000	0.540
25	Arasur X Road	451	30000	0.180
26	Arasur Colony	676	30000	0.270
27	Kilsanthamangalam	1800	60000	0.720
28	Kilsanthamangalam HC	315	30000	0.120

29	Indira Nagar	500	30000	0.200
30	Elangadu	2650	100000	1.060
31	Elangadu HC	550	30000	0.220
32	Kayanallur	624	30000	0.25
33	Elangadu Thecolony	DL	30000	DL
34	Thandalam	560	30000	0.220
35	Athipakkam	1150	60000	0.460
36	Athipakkam HC	980	60000	0.390
37	Maruthavampadi	650	EPL	0.260
38	Sembur	1570	100000	0.630
39	Sembur HC	390	10000	0.160
40	S.Navalpakkam	810	30000	0.320
41	S.Navalpakkam HC	710	30000	0.280
42	Eramalur	DL	60000	DL
43	Eramalur HC	DL	30000	DL
44	Eripattu	DL	30000	DL
45	Thamaraipakkam	DL	30000	DL
46	Azhividaithangal	DL	30000	DL
47	Thuniyankuppam	DL	30000	DL
48	Sokathur	DL	60000	DL
49	Sokathur Thencolony	DL	30000	DL
50	Kilvillivalam	DL	60000	DL
51	Kilvillivalam HC	DL	30000	DL
52	Narasingapuram	DL	15000	DL
53	Pudu kudiruppu	DL	10000	DL
54	Sri Rangajapuram	DL	60000	DL
55	Perapannakadu	DL	30000	DL
56	Kayanallur	DL	30000	DL
57	Kayanallur HC	DL	30000	DL
58	Ramasamudram	1010	30000	0.400
59	Ramasamudram X Road	380	30000	0.150
60	Ramasamudram HC	481	10000	0.190
61	Mudalur	370	30000	0.150
62	Nallur	2331	100000	0.930
63	Nallur Colony	600	30000	0.240
64	Nallur Pudu Colony	750	60000	0.300
65	Embalam	610	30000	0.240
66	Embalam Colony	550	30000	0.220
67	Thenvanakkampadi	DL	30000	DL
68	Thenvanakkampadi HC	DL	30000	DL

69	Puduvanakkampadi	DL	10000	DL
70	Nadukuppam	640	30000	0.260
71	AR Palayam	443	30000	0.180
72	Jammampatu	907	30000	0.360
73	Jammampatu HC	168	EPL	0.070
74	Papanallur	DL	30000	DL
75	T.Thangal	DL	30000	DL
76	Periyar nagar	1200	60000	0.480
77	BDO Office	760	30000	0.304
78	Thellar	DL	150000	0.016
	<b>Total</b>	<b>48821</b>		<b>19.53</b>

5. Populations

- a. Present (Year) 2001 : 48821
- b. Intermediate (Year) 2016 : ----
- c. Ultimate (Year) 2031 : ----

6. Level of service : 40 LPCD

7. Designed Quantity

- a. Present (Year) 2011 : 1953 KLD
- b. Intermediate (Year) 2016 : ----
- c. Ultimate (Year) 2031 : ----

8. Year of Completion & Commissioning :

- a. Original Scheme : 01.09.2002
- b. Taken over of Maintenance : 01.10.2004
- c. Improvement scheme : NIL

9. Head works with source details : Infiltration well in Cheyyar River near pernagar

		Dia	Depth	Yield
IW.I	:	4.50 M	8.50 M	1400 LPM
IW.II	:	4.50 M	8.50 M	1400 LPM
IW.III	:	4.50 M	8.50 M	1400 LPM
BW.IV	:	200 mm	11.30 M	350 LPM
IW.V	:	3.50 M	7.00 M	800 LPM
Pump Room	:	3 Nos (9m X 6m - 1 no, 4mX3m – 1 no &1.5mX1.5m – 1 no)		
Sump	:	1,20,000 Lit Cap – 1 No		

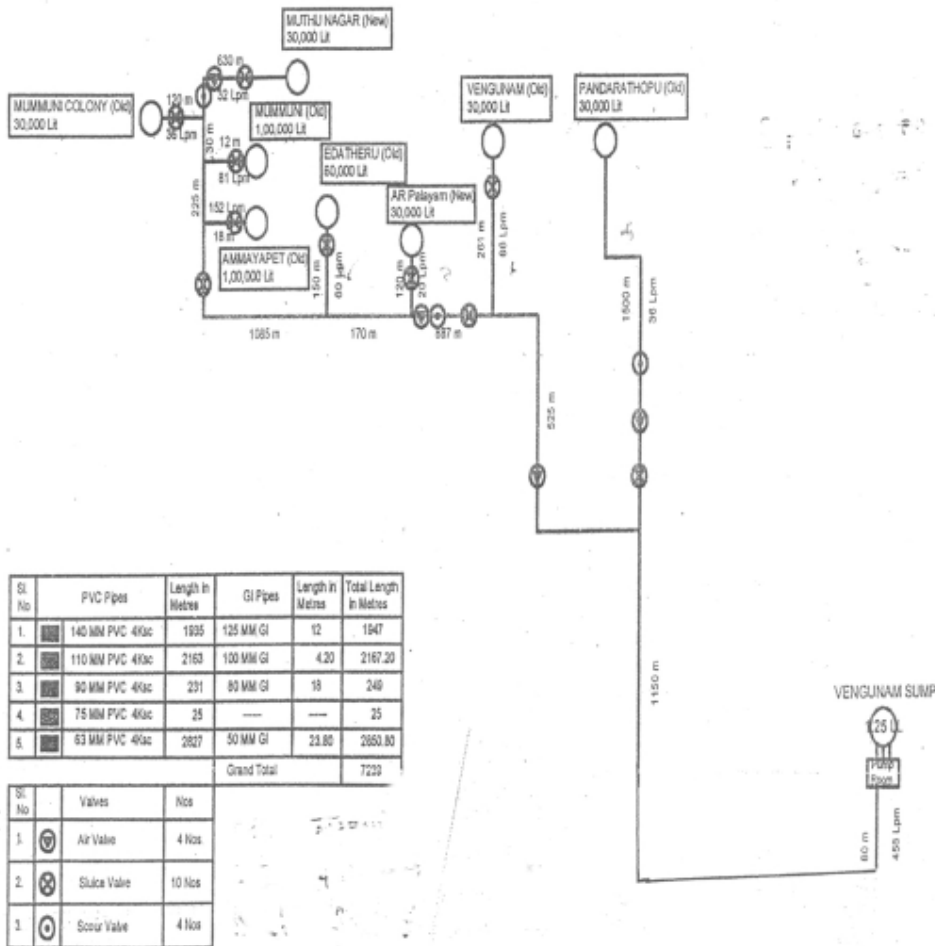
10. Pumpset	<b>IW – 3 nos</b>	:	10HPsub 1200lpmX20M -6nos (with stand by)
	<b>BW – 1no</b>		5HPsub 300lpmX 40M -2nos (with stand by)
	<b>IW – 1 no</b>		12.50HPsub 700lpmX40M=1no (with stand by)
			45 HP C.F. 3543lpmX39M=2nos (with stand by)
a. Type			
b. Duty			
c. Hours of pumping		:	16 Hours
11. Treatment plant (with Units Details)		:	----
12. Transmission Main		:	Short Raising main
	<b>IW-3nos</b>	:	200 mm Dia CI Pipe - 2390 M
	<b>BW- 1no</b>	:	80mmDiaGI 320m & 110PVC 6ksc-700m
	<b>IW- 1 no</b>	:	80 mm Dia GI pipe - 66 M
a. Pumping Main		:	Head Works to tailend Embalam
:			400 mm PSC 8ksc pipe = 5655 M
			400 mm MS & CI = 28 M
			400 mm psc 6ksc pipe = 10855 M
			400 mm MS & CI = 24 M
			350 mm psc 4ksc pipe = 6875 M
			250 AC CI 15 = 9795 M
			Total = 33232 M
b. Gravity Main		:	NIL
13. Booster Main			at Vengunam B.S
a. Sump with capacity		:	1.25 LL Capacity
b. Pumpset details		:	7.5HP C.F P'set 458 lpmX25m H = 2nos (with stand by)
			7.5HP C.F P'set 485lpmX30mH=2nos (with stand by)
		:	at Kilsathamangalam B.S
			2.00 LL Capacity
			15HP C.F P'set 541lpmX40m head = 2 nos (with stand by)
			12.50HP C.F P'set 514lpmX40m head=2nos (with stand by)
			10.00HP C.F P'set 488lpmX45m head=2nos (with stand by)
			AT Embalam B.S
			1.50 LL Capacity
			5.00 HP C.F X 185 lpm X 30 m
			7.50 HP C.F X 431 lpm X 30 m
			10.00 HP C.F X 436 lpm X 40 m

<b>14. Feeder mains</b>	:	<b>BPM to Vengunam Sump</b> 140 mm PVC pipe 4ksc – 81 M 125 mm GI pipe – 16 M <b>BPM to Kilsathamangalam Sump</b> 150 mm AC CI 15 – 1024 M 125 mm CI S/S pipe – 11 M
<b>a) From Vengunam Sump</b>		
<b>i) To Salukikai B.M. I</b>	:	110 mm PVC Pipe 4 ksc - 686 M 100 mm GI pipe - 6 M 90 mm PVC Pipe - 3045.5 M 75 mm PVC Pipe- 4 ksc - 377 M 63 mm PVC Pipe-4ksc - 4531 M 50 mm GI pipe - 18 M <b>Total = 8660.5 M</b>
<b>ii) To Muthunagar B.M II</b>	:	140 mm PVC Pipe - 4ksc - 1935 M 125 mm GI pipe - 12 M 110 mm PVC Pipe 4ksc - 2163 M 90 mm PVC Pipe- 4ksc - 231 M 80 mm GI pipe - 18 M 75 mm PVC Pipe - 4ksc - 25 M 63 mm PVC Pipe - 4ksc - 2897 M 50 mm GI pipe - 23.8 M <b>Total 7239 M</b>
<b>b) From KilSathamangalam Sump</b>		
<b>i) To Arasur BM I</b>	:	140 mm PVC Pipe - 4ksc - 707 M 110 mm PVC Pipe - 4ksc -2098 M 90 mm PVC Pipe - 4ksc - 142 M 75 mm PVC Pipe - 6ksc - 3168 M 63 mm PVC Pipe - 4ksc - 3897 M <b>Total 10012 M</b>
<b>ii)To Elangadu Then Col BM II</b>	:	140 mm PVC Pipe - 6ksc - 6831 M 110 mm PVC Pipe - 4ksc -261 M 90 mm PVC Pipe - 4ksc - 2737 M 75 mm PVC Pipe - 6ksc - 1343 M 75 mm PVC Pipe - 4ksc - 2022 M 63 mm PVC Pipe - 4ksc - 6905 M <b>Total 19899 M</b>

<b>iii) To Sogathur BM III</b>		160 mm PVC Pipe - 4 ksc - 757 M 140 mm PVC Pipe - 4 ksc - 7178 M 90 mm PVC Pipe - 4ksc - 3530 M 75 mm PVC Pipe - 4ksc - 1662 M 63 mm PVC Pipe - 4ksc - 6380 M 125 mm GI pipe - 152 M 80 mm GI pipe - 12 M 50 mm GI pipe - 31 M <b>Total 19702 M</b>
<b>c) Embalam Sump</b>	:	90 mm PVC Pipe - 4ksc - 1136 M
<b>i) To Perapariankadu BM I</b>	:	75 mm PVC Pipe -4ksc - 3664 M 63 mm PVC Pipe - 4ksc - 4470 M 50 mm GI pipe - 4 M <b>Total 9274 M</b>
<b>ii) To Eramallur colony BM II</b>	:	140 mm PVC Pipe - 4ksc - 1191 M 110 mm PVC Pipe - 4ksc -4328 M 90 mm PVC Pipe - 4ksc - 30 M 80 mm GI pipe - 3 M 75 mm PVC Pipe - 4ksc - 1930 M 63 mm PVC Pipe - 4ksc - 3543 M 50 mm GI pipe - 6 M <b>Total 11031 M</b>
<b>iii) To periyar nagar BM III</b>	:	160 mm PVC Pipe - 4ksc - 1503 M 140 mm PVC Pipe - 4ksc - 3369 M 125 mm GI pipe - 12 M 110 mm PVC Pipe - 4ksc - 1689 M 100 mm GI pipe - 6 M 90 mm PVC Pipe - 4ksc - 484 M 75 mm PVC Pipe - 4ksc - 2608 M 63 mm PVC Pipe - 4ksc - 4165 M 50 mm GI pipe - 15 M <b>Total 13851 M</b>

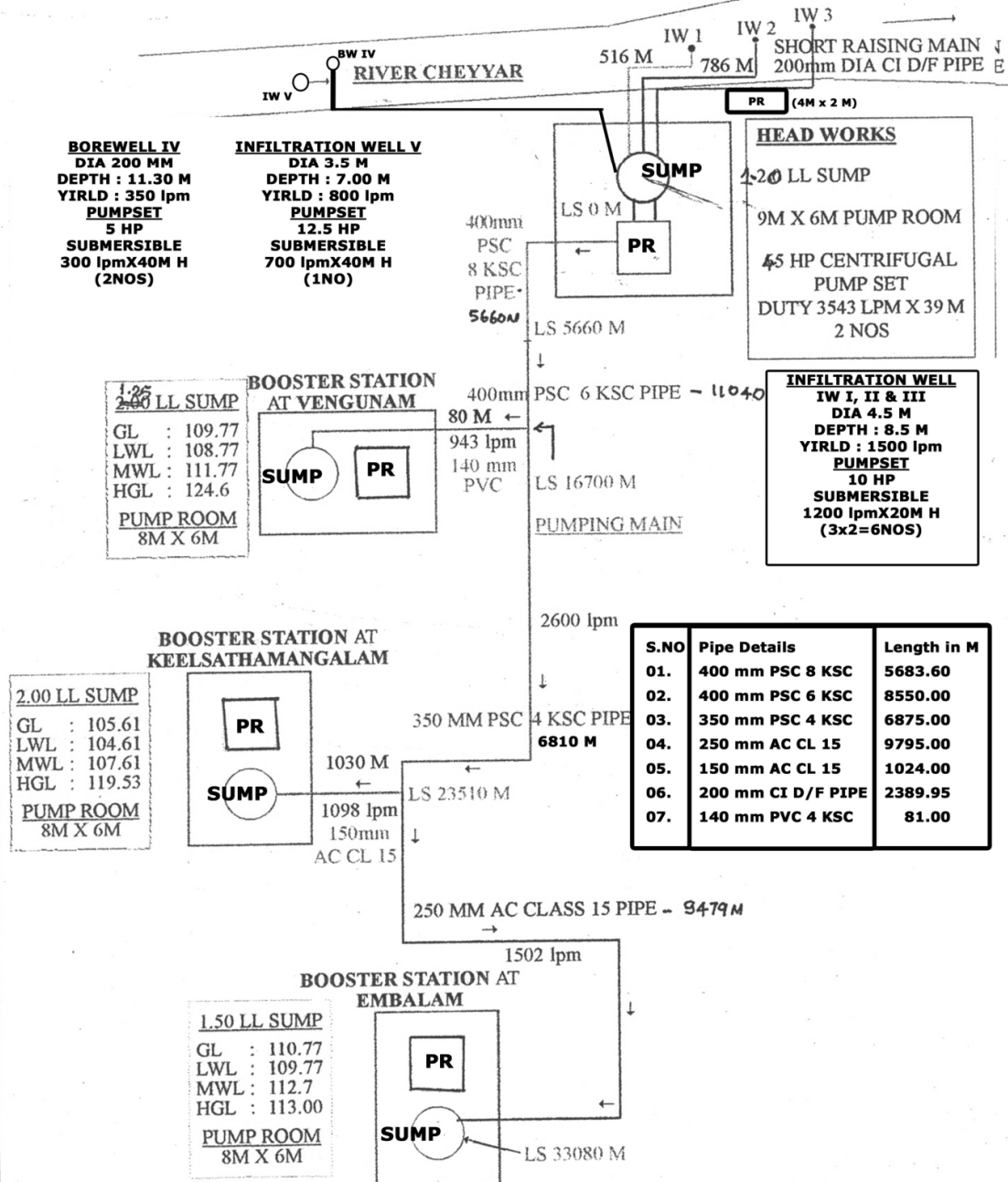
15. No of Group sump with capacity : 3 nos  
1. Vengunam - 1.25 LL Cap  
2. Kelsathamangalam - 2.00 LL Cap  
3. Embalam - 1.5 LL Cap
16. Service reservoirs with capacity : 10000 Lit Cap = 3 Nos 60000 Lit Cap = 11 Nos  
30000 Lit Cap = 34 Nos 100000 Lit Cap = 5 No
17. Separate Power feeder main details : Separate power Feeder main Available
18. Distribution system : 63 mm PVC Pipe 4ksc = 8251 M

# **NALLUR CWSS** **VENGUNAM SUMP - BOOSTER MAIN II TO MUTHU NAGAR**

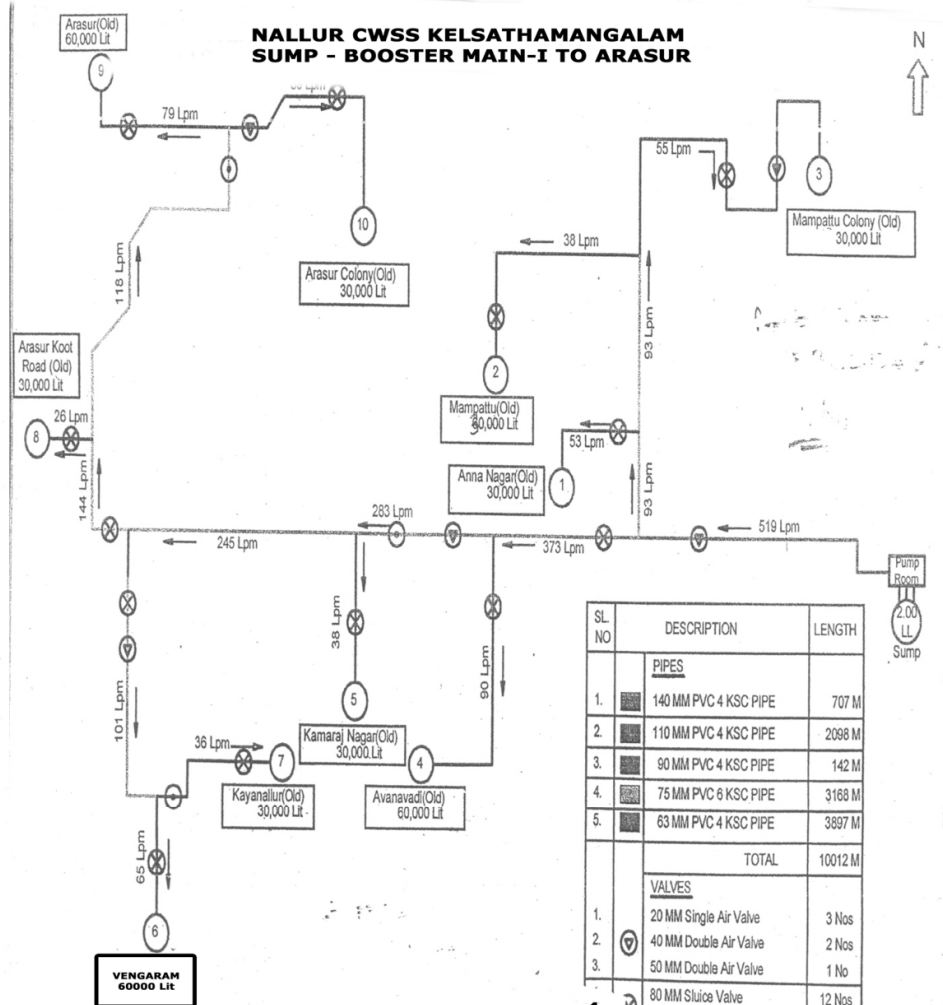




# CWSS to NALLUR & 74 OTHER HABITATIONS IN VANDAVSI & THELLAR UNION

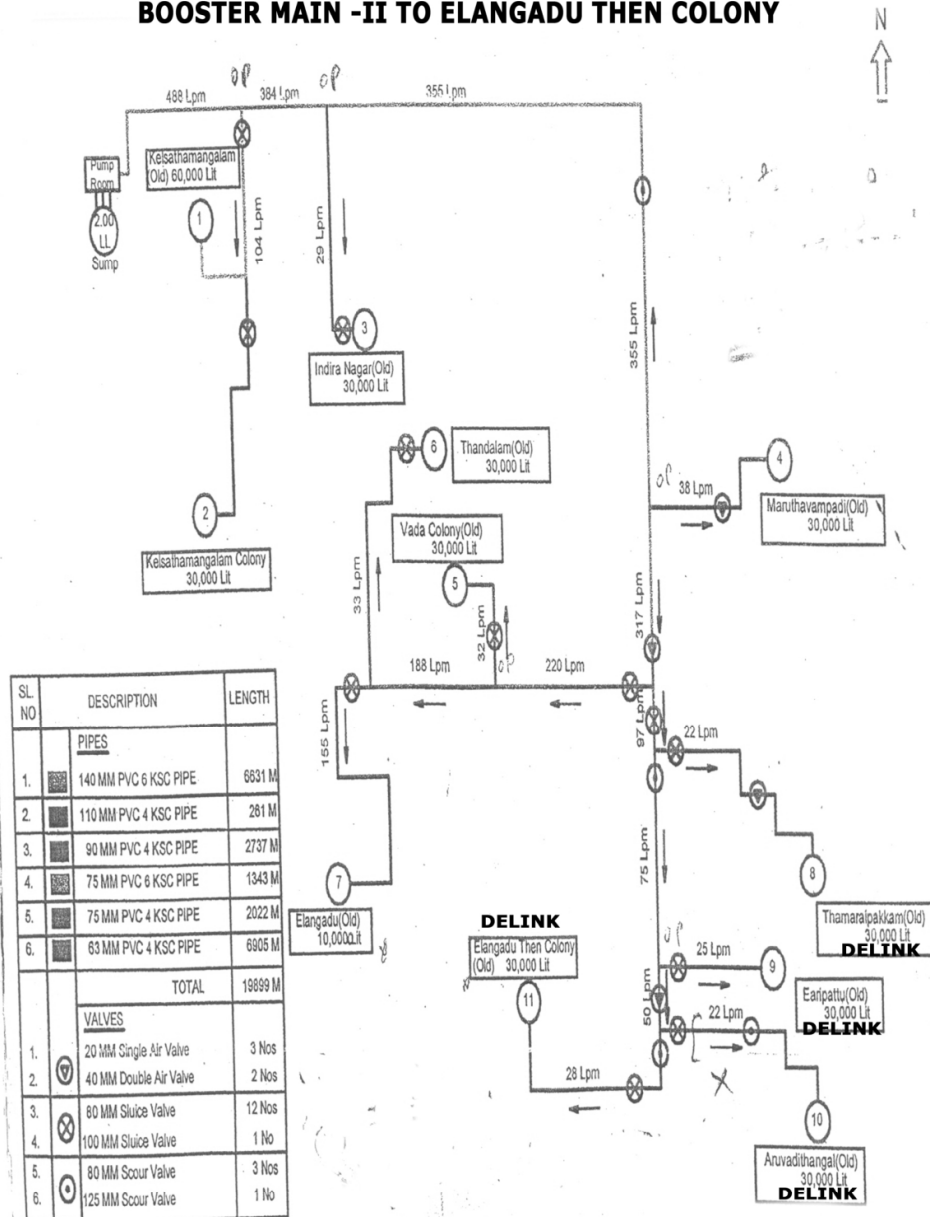


# **NALLUR CWSS KELSATHAMANGALAM SUMP - BOOSTER MAIN-I TO ARASUR**



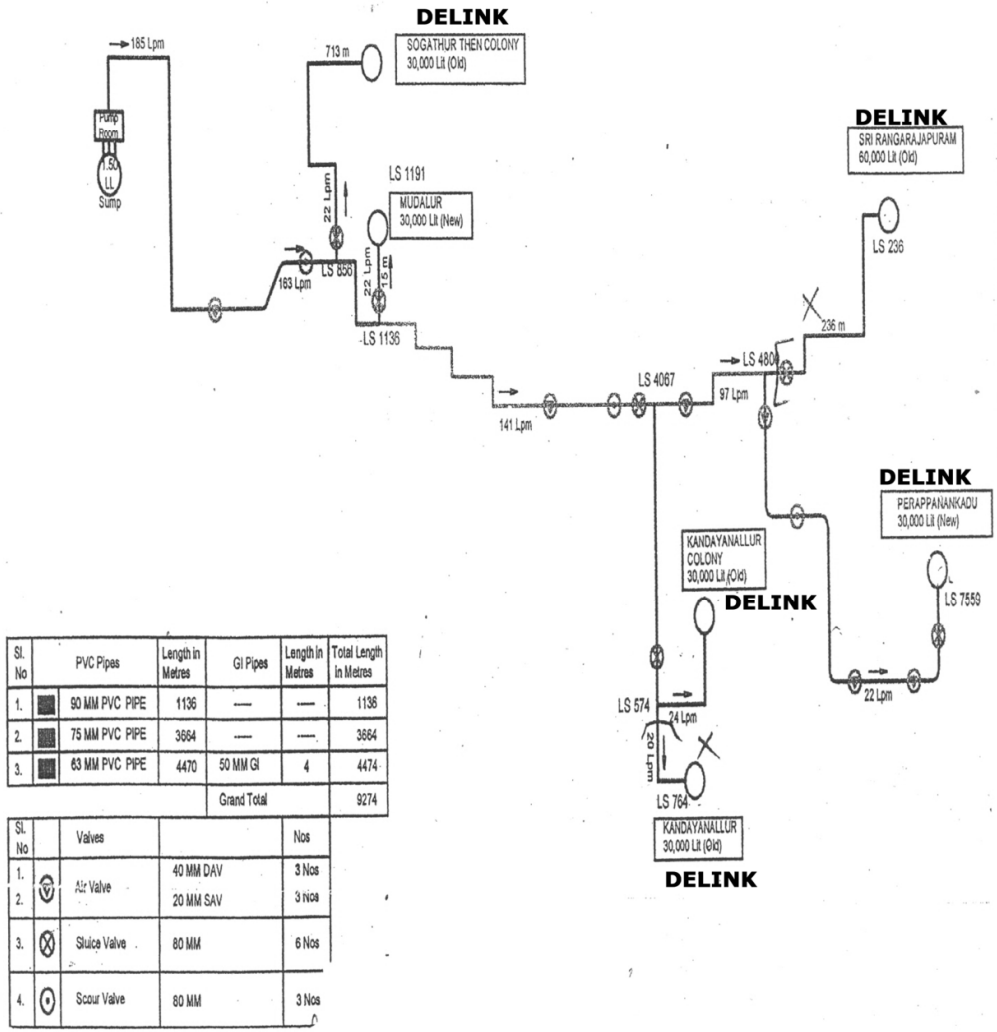
SL NO	DESCRIPTION	LENGTH
<b>PIPES</b>		
1.	140 MM PVC 4 KSC PIPE	707 M
2.	110 MM PVC 4 KSC PIPE	2098 M
3.	90 MM PVC 4 KSC PIPE	142 M
4.	75 MM PVC 6 KSC PIPE	3168 M
5.	63 MM PVC 4 KSC PIPE	3897 M
	<b>TOTAL</b>	<b>10012 M</b>
<b>VALVES</b>		
1.	20 MM Single Air Valve	3 Nos
2.	40 MM Double Air Valve	2 Nos
3.	50 MM Double Air Valve	1 No
4.	80 MM Sluice Valve	12 Nos
	100 MM Sluice Valve	1 No
5.	80 MM Scour Valve	3 Nos

# **NALLUR CWSS KELSATHAMANGALAM SUMP - BOOSTER MAIN -II TO ELANGADU THEN COLONY**

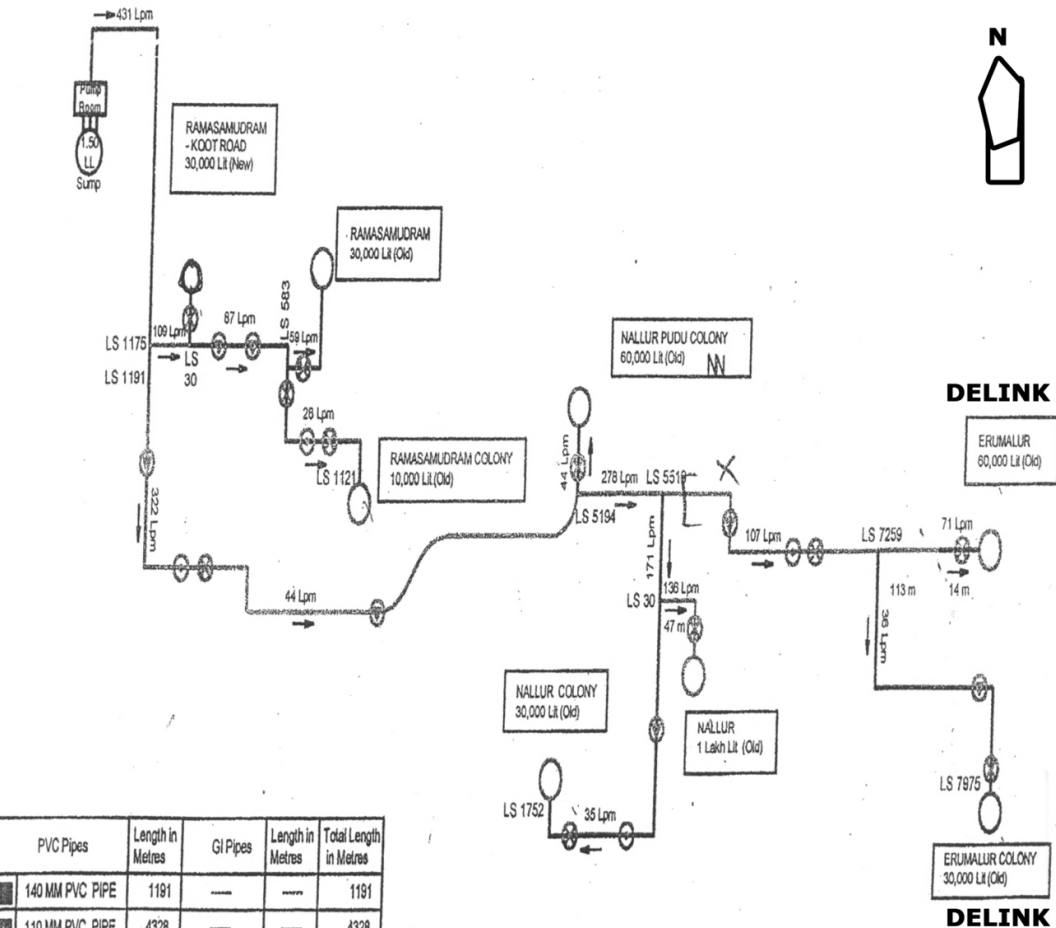


# NALLUR CWSS

## EMBALAM SUMP - BOOSTER MAIN -I TO PARAPPANAKKADU



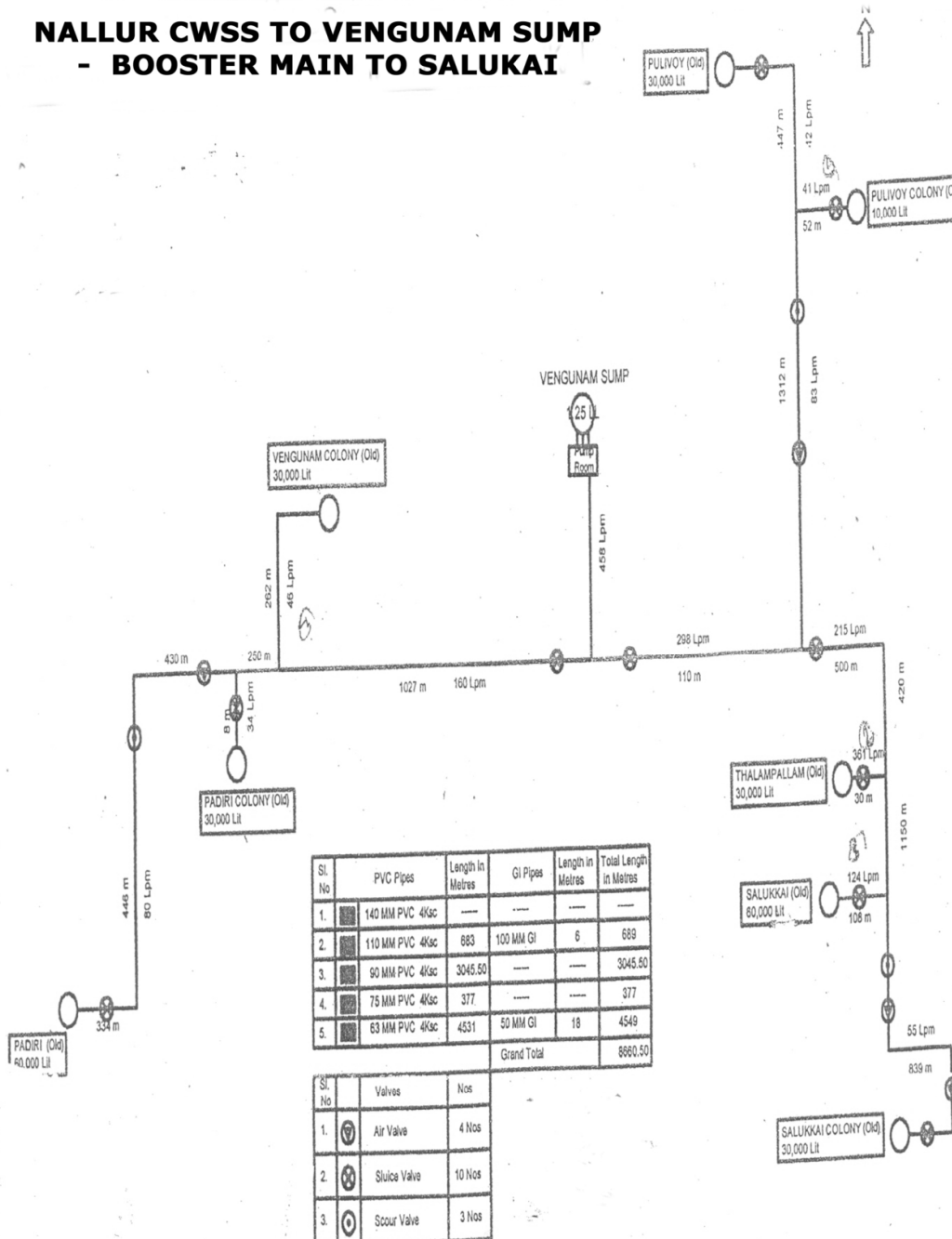
# NALLUR CWSS EMBAM SUMP - BOOSTER MAIN -II TO ERAMALLUR COLONY



Sl. No	PVC Pipes	Length in Metres	GI Pipes	Length in Metres	Total Length in Metres
1.	140 MM PVC PIPE	1181	---	---	1181
2.	110 MM PVC PIPE	4328	---	---	4328
3.	90 MM PVC PIPE	30	80 MM GI	3	33
4.	75 MM PVC PIPE	1930	---	---	1930
5.	63 MM PVC PIPE	3543	50 MM GI	6	3549
Grand Total					11031

Sl. No	Valves	Nos
1.	Air Valve	3 Nos
2.	50 MM DAV	2 Nos
3.	40 MM DAV	4 Nos
4.	20 MM SAV	1 No
5.	Sluice Valve	9 Nos
6.	100 MM	1 No
7.	80 MM	3 Nos

# **NALLUR CWSS TO VENGUNAM SUMP** **- BOOSTER MAIN TO SALUKAI**



## 4



# **NALLUR CWSS KELSATHAMANGALAM SUMP - BOOSTER MAIN - III TO SOGATHUR**

