

**CWSS TO NANDHIVARAM-GUDUVANCHERI AND 29 OTHER HABITATIONS IN  
CHENGALPATTU DISTRICT**

**SALIENT DETAILS**

Head Works : River Palar at Mamandur  
a. Source Details : 4 Infiltration Wells and 3 Borewells at Mamandur

S.No.	Source	Size in m	Depth in m	Yield in lpm
1	Infiltration well	4.50	8.00	600
2	Infiltration well	4.50	8.00	600
3	Infiltration well	4.50	8.00	600
4	Infiltration well	4.50	8.00	600
5	Bore well	0.20	8.0m	300
6	Bore well	0.20	8.0m	300
7	Bore well	0.20	8.0m	300

- b. Pumpset Details :
- (i) Pumpset from 4 Nos. of Infiltration wells to Sump at Mamandur Headworks  
 Type : Submersible  
 Duty : 5HP 476 lpm x 20m head – 4 Nos  
 Cable Details : 35 Sq.mm 3 Core Aluminium Armoured LT Cables from Infiltration Wells to Pumproom.
- (ii) Pumpset from 3 Nos. of Borewells to Sump at Mamandur Headworks  
 Type : Submersible  
 Duty : 3HP 300lpm x 20m head – 3 Nos  
 Cable Details : 25 Sq.mm 3 Core Aluminium Armoured LT Cables from Bore Wells to Pumproom.
- (iii) Pumpset from Sump at Mamandur Headworks to Paranur Booster Station  
 Type : HSC centrifugal Pumpset  
 Duty : 25 HP 1816 lpm x 38m head  
 Sump Capacity : 1.0LL  
 Hours of Pumping : 20 hours
- c. Treatment Plant with unit details : ----
- d. Connecting main to sump :
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S.No.	Source Details	Pipe Material & Size	Length
1	Infiltration Well No.1	150mm CI	105 m
2	Infiltration Well No.2	150mm CI	170 m
3	Infiltration Well No.3	150mm CI	230 m
4	Infiltration Well No.4	150mm CI	300 m
5	Borewell No.1	110mm PVC	125 m
6	Borewell No.2	110mm PVC	130 m
7	Borewell No.3	110mm PVC	120 m

d. Pumping main :

(i) Pumping main from Mamandur to Paranur Booster Station

300 mm CI D/F pipe : 750 m

300 mm CI LA pipe : 6500 m

300 mm AC class 10 : 8050 m

(ii) Branch Pumping main from Mamandur Headworks

90mm PVC 4 KSC Pipe : 1880 m

Booster Station : Paranur

a. Pumpset Details :

Type : HSC centrifugal Pumpset

Duty : 15 HP 1727 lpm x 25m head

Sump Capacity : 1.0 LL

Hours of Pumping : 16 hours

b. Feeder Main : From Paranur to Guduvanchery

300 mm AC CI - 10 Pipe : 10700 m

250 mm AC CI - 10 Pipe : 2850 m

200 mm AC CI - 10 Pipe : 720 m

90mm PVC 4 KSC Pipe : 3320m

63mm PVC 4 KSC Pipe : 490m

- 10.** No. of Group sump with capacity : Nil
- 11.** Separate power feeder main details : Nil
- 12.** Service reservoir with capacity : As listed below

S.No.	Union	Panchayat	Beneficiary	S.R Capacity	Designed Quantity in MLD
1	Madhuranthagam	Mamandur	Mamandur	0.30LL	0.030
2	Kattankulathur	Alappakkam	Irunkundrampalli	0.30LL	0.022
3	Kattankulathur	Alappakkam	Vedanarayanapuram	0.30LL	0.030
4	Kattankulathur	Alappakkam	Vedanarayanapuram colony	0.10LL	0.020
5	Kattankulathur	Pulipakkam	Pulipakkam	0.60LL	0.300
6	Kattankulathur	Pulipakkam	Kandalur	0.30LL	0.030
7	Kattankulathur	Pulipakkam	Kandalur colony	0.30LL	0.030
8	Kattankulathur	Pulipakkam	Rajakulipettai	0.10LL	0.020
9	Kattankulathur	Veerapuram	Malayambakkam	0.10LL	0.030
10	Kattankulathur	Singaperumal coil	Bhagat Singh Nagar	0.30LL	0.030
11	Kattankulathur	Singaperumal coil	Thirutheri	2.20LL	0.090
12	Kattankulathur	Singaperumal coil	Thirutheri colony		0.006
13	Kattankulathur	Singaperumal coil	Pareri		0.030
14	Kattankulathur	Singaperumal coil	Singaperumal coil		0.150
15	Kattankulathur	Singaperumal coil	Singaperumal coil colony		0.016
16	Kattankulathur	Singaperumal coil	Vinjiyambakkam		0.010

S.No.	Union	Panchayat	Beneficiary	S.R Capacity	Designed Quantity in MLD
17	Kattankulathur	Singaperumal coil	Santhaimedu		0.010
18	Kattankulathur	Singaperumal coil	Anna Nagar		0.012
19	Kattankulathur	Singaperumal coil	Sathya Nagar		0.010
20	Kattankulathur	Maraimalainagar Municipality	Thirukkachur	1.00LL	0.090
21	Kattankulathur	Maraimalainagar Municipality	Thirukkachur colony		
22	Kattankulathur	Maraimalainagar Municipality	Kattankulathur	0.30LL	0.324
23	Kattankulathur	Maraimalainagar Municipality	Kattankulathur H colony	0.30LL	

24	Kattankulathur	Maraimalainagar Municipality	Kattankulathur Old colony	0.30LL	
25	Kattankulathur	Maraimalainagar Municipality	Kattankulathur H new colony	0.30LL	
26	Kattankulathur	Maraimalainagar Municipality	Ninnakarai	0.30LL	0.060
27	Kattankulathur	Maraimalainagar Municipality	Potheri	0.60LL	0.060
28	Kattankulathur	Maraimalainagar Municipality	Thailavaram	0.10LL	0.090
29	Kattankulathur	Maraimalainagar Municipality	Thailavaram colony	0.10LL	
30	Kattankulathur	Guduvanchery T.P.	Nandhivaram - Guduvancheri	3.00LL	0.600