

**COMBINED WATER SUPPLY SCHEME TO 293 RURAL HABITATIONS IN MUSIRI,
THATHAIYANGARPETTAI, THURAIYUR AND UPPILIYAPURAM UNIONS IN
TIRUCHIRAPPALLI DISTRICT**

SALIENT DETAILS

- 1) **Population**
 - a) Present stage (2016) : 149240
 - b) Intermediate stage (2026) : 158805
 - c) Ultimate stage (2036) : 168382
- 2) **Requirement (Total)**
 - a) Present stage (2016) : 8.78 MLD
 - b) Intermediate stage (2026) : 9.33 MLD
 - c) Ultimate stage (2036) : 9.87 MLD
- 3) **Head works**

Collector Well : 1 No. at River Cauvery in Seventhilingapuram

Dia : 6.00 m

Depth : 18.00 m

Expected Yield : 15.17 MLD
- 4) **Pumping main** : From Head works to Booster Sump II at Devanur
Total Length : 32.960 Km.
(450 mm DI/K7 Pipes - 400 mm DI K7 Pipes)
- 5) **Branch Pumping mains and Feeder mains** : Total Length : 637.59 Km
(400 mm DI K 7 Pipes - 50 mm OD PVC 6 KSC Pipe)
- 6) **Booster Sumps** : 2 Nos.
 - 1) Booster Sump I at Valavanthi
Capacity : 5.20 Lakh Litres
 - 2) Booster Sump II at Devanur
Capacity : 3.75 Lakh Litres
- 7) **Tapping Sumps** : 9 Nos.
- 8) **Group Sumps** : 69 Nos. (0.05 LL To 2.05 LL)
- 9) **Stand post** : 6 Nos (0.10 LL To 0.20 LL)
- 10) **Pumpsets** : At Head works.
Vertical Turbine Pumpset - 3 Nos
(One as Standbye)
Duty : 4329 LPM X
73 M Head

Pumpsets Contd...

At Booster sump I at Valavanthi

Direction - I To Devanur BS

Horizontal Split casing Centrifugal Pumpset

3 Nos. (one as standby)

Duty 2957 LPM x 66 m

Direction - II : To Thavittupatti TS

Duty : 1492 LPM x 44 m (1+1)

Direction - III : To Sergudi TS

Duty : 424 LPM x 58 m (1+1)

At Booster sump II at Devanur

Direction - I To Kottapalayam TS

Horizontal Split casing Centrifugal Pumpset

3 Nos. (One as standby)

Duty 2576 LPM x 72 m

Direction - II : To Pillapalayam GS

Duty : 552 LPM x 77 m (1+1)

At Tapping Sumps

1) For Tapping sumps at Ayyampalayam

Open well submersible pumpsets -2 Nos

(one as standby)

Duty 252 LPM x 51m

2) For Tapping sumps at Thavittupatti

Open well submersible pumpsets -2 Nos

(one as standby)

Duty 660 LPM x 52m

3) For Tapping sumps at Sergudi

Open well submersible pumpsets -2 Nos

(one as standby)

Duty 137 LPM x 60m

4) For Tapping sumps at VA Samuthram

Open well submersible pumpsets -2 Nos

(one as standby)

Duty 120 LPM x 18m

5) For Tapping sumps at Kargudi

Open well submersible pumpsets -2 Nos

(one as standby)

Duty 1595 LPM x 29m

Pumpsets Contd...

6) For Tapping sumps at murugur

Direction I :

Open well submersible pumpsets -2 Nos
(one as standbye)

Duty 324 LPM x 31m

Direction II :

Open well submersible pumpsets -2 Nos
(one as standbye)

Duty 869 LPM x 54m

7) For Tapping sumps at T Renganathapuram

Open well submersible pumpsets -2 Nos
(one as standbye)

Duty 234 LPM x 45m

8) For Tapping sumps at Pachaperumalpatti

Open well submersible pumpsets -2 Nos
(one as standbye)

Duty 865 LPM x 13m

9) For Tapping sumps at Kottapalayam

Direction I :

Open well submersible pumpsets -2 Nos
(one as standbye)

Duty 1559LPM x 77m

Direction II :

Open well submersible pumpsets -2

(one as standbye)

Duty 495 LPM x 30m

11) Service Reservoirs

a) Newly Proposed

Service Reservoirs : 13 Nos

10000 Litres : 10 Nos

20,000 Litres : 2 Nos.

30000 Litres : 1 No.

b) Existing Service Reservoirs : 317 Nos.

12) Distribution System

a) Proposed : 6.70 Km,

b) Existing : 328 Km

13) Public Fountains

: Proposed : 26 Nos.

14) Estimate Cost

: Rs.140.22 Crores

15) Annual Maintenance cost

: Rs 2.50 Crores

16) Cost /1000 Litres

: Rs.27.93

17) Cost /1000 Litres (AM alone)

: Rs.7.34