

## SALIENT DETAILS

**Name of scheme** : CWSS to 525 (636) habitations in Ariyalur, Sendurai, Veppur unions (including 15 Wayside rural Habitations in Thirumanur union and 3 habitations in Alathur Unions) with bulk provision for 45 Habitations in Thirumanur union and 66 habitations in Alathur union in Ariyalur and Perambalur Districts

Administrative sanction :G.O Ms No .46/ dt 05.06.2006 Rs 4412 lakhs.

<b>1. Population</b>		Present 2006	Inter 2021	Ultimate 2036
	: 525 Habs	332802	366100	399358
	: 636 Habs	413644	455031	496368
<b>2. Requirement in Litres</b>				
	: 525 Habs		9072594 (9.07 mld)	9896833 (9.90 mld)
	: 636 Habs		11310732 (11.31 mld)	12338351 (12.34 mld)

**3. Hours of pumping** : 20 Hours

**4. Source** : Collector well cum Pump House at River Coleroon  
Thirumalapadi

- a) Collector well
  - i) Dia - 6 m
  - ii) Depth - 15 m
  - iii) Radial arms -300 mm dia -14 nos x 28 m
- b) Pump house - 8 m
- c) Foot bridge - Length 390 m-Width – 3 m
- d) Chlorination room - 6 x 4 m
- e) Control room – 6 x 6 m

5 a. Pumping Main	:	Thirumalapadi to Keelapalur	
		500 mm PSC CL 16	- 1300 m
		500 mm PSC CL 14	- 4775 m
		500 mm PSC CL 12	- 1395 m
		500 mm PSC CL 10	- 5530 m
		500 mm PSC CL 8	- 2805 m
		500 mm MS Pipe & Specials	- 720 m
		<b>Total</b>	<b>-16525 m</b>
5 b. Booster Main - I	:	Keelapalur sump to Kollapuram Sump	
		500 mm PSC CL 14	- 11700 m
		500 mm PSC CL 12	- 3885 m
		500 mm PSC CL 10	- 500 m
		500 mm MS Pipe & Specials	- 325 m
		<b>Total</b>	<b>-16410 m</b>
5 c. Booster Main - II	:	Kollapuram Sump to Rayampuram sump	
		280 mm PVC 4 KSC	- 10958 m
5 d. Booster Main - III	:	Rayampuram sump to Sendurai sump	
		250 mm PVC 4 KSC	- 7230 m
		225 mm PVC 4 KSC	- 650 m
		90 mm PVC 4 KSC	- 1350 m
		<b>Total</b>	<b>- 9230 m</b>
5 e. Booster Main - IV	:	Kollapuram Sump to Periyavenmani & Melamathur sump	
		350 mm PSC Cl 16	- 3260 m
		350 mm PSC Cl 14	- 3575 m
		350 mm PSC Cl 8	- 9470 m
		350 mm MS Pipe & Specials	- 160 m
		<b>Total</b>	<b>- 16465 m</b>
5 f. Branch Feeder main from Various Sump	:	50,63,75,90,110,140,160 & 200 mm PVC Pipe 461 Kms	

## 6. SUMPS AND PUMPHOUSE

a. Booster station I at Keelapalur	:	Sump capacity	- 6.00 LL
		Pump House	- 9 x 5 m
b. Booster station II at Kollapuram	:	Sump capacity	- 5.00 LL
		Pump House	- 9 x 5 m
c. Pumping Station at Periyavenmani	:	Sump capacity	- 1.50 LL
		Pump House	- 6 x 4 m
d. Pumping Station at Melamathur	:	Sump capacity	- 1.50 LL
		Pump House	- 6 x 4 m
e. Pumping Station at Rayampuram	:	Sump capacity	- 1.50 LL
		Pump House	- 9 x 5 m
f. Pumping Station at Sendura EB Sub Station	:	Sump capacity	- 0.30 LL
		Pump House	- 6 x 4 m
d. Pumping Station at Sendurai Taluk Office	:	Sump capacity	- 0.60 LL
		Pump House	- 6 x 4 m
d. Pumping Station at Mathur- Kulumur Junction Road	:	Sump capacity	- 0.60 LL
		Pump House	- 6 x 4 m

## 7.PUMP SETS

		HP	Discharge in LPM &Head
a. Collector Well	50 % stand bye turbine pumpsets 3 nos (2 nos Parallel running)	125	4719 x 70
b. Keelapalur sump to Kollapuram Sump	50 % stand bye Centrifugalpumpsets 3 nos (2 nos Parallel running)	50	3386 x 42
c. Kollapuram sump to Rayampuram sump	100 % stand bye Centrifugalpumpsets 2 nos	20	2115 x 24
d. Kollapuram sump to Periyavenmani sump	100 % stand bye Centrifugalpumpsets 2 nos	50	3928 x 35

## INFRASTRUCTURES

### I. ARIYALUR UNION

a. From Keelapalur sump	:	No. of Habitations covered	- 77 nos
		No. of Group sumps	- 4 nos
		No. of intermediate sumps	- 3 nos

b. From Kollapuram and Rayampuram sump : No. of Habitations covered - 90 nos  
No. of Group sumps - 2 nos  
No. of Stand Post - 1 no

## II. SENDURAI UNION

a. From Sendurai EB Sub Station sump (Zone II) : No. of Habitations covered - 32 nos  
No. of Group sumps - 2 nos

b. From Sendurai Taluk office sump (Zone I) : No. of Habitations covered - 66 nos  
No. of Group sumps - 2 nos  
No. of Stand Post - 1 no

c. From Mathur- Kulumur Jn Road sump : No. of Habitations covered - 106 nos (42+64)  
(Zone III&IV) No. of Group sumps - 11 nos  
No. of Stand Post - 2 nos

## III. VEPPUR UNION

a. From Periyavenmani sump : No. of Habitations covered - 85 nos  
No. of Group sumps - 10 nos

b. From Melamathur sump : No. of Habitations covered - 54 nos  
No. of Group sumps - 5 nos

## IV. THIRUMANUR UNION

No. of Habitations covered - 15 nos  
No. of Group sumps - 4 nos

## V. ALATHUR UNION

No. of Habitations covered - 39 nos  
No. of Group sumps - 1 nos  
( For bulk provision at Z.Athur)

## IV. SERVICE RESERVOIRS

a. 60000 Litres - 1 no  
b. 30000 Litres - 2 nos  
c. 10000 Litres - 14 nos

## HDPE TANKS

a. 10000 Litres - 5 nos

## STAND POST

a. 60000 Litres - 2 nos  
b. 30000 Litres - 1 no  
c. 10000 Litres - 1 no

## **VII. DISTRIBUTION MAIN AND PUBLIC FOUNTAINS**

63 mm PVC 4 KSC Pipe - 15.50 Kms,

Public Fountains - 25 nos

## **VIII . ADDITIONAL INLET TO EXISTING SERVICE RESERVOIRS**

a. 10,000 Litres - 28 nos

b. 15,000 Litres - 12 nos

c. 30,000 Litres - 283 nos

d. 60,000 Litres - 154 nos

e. 1,00,000 Litres - 42 nos

f. 1,50,000 Litres - 1 no

Annual Maintenance Cost - Rs 172.00 Lakhs

Per Capita Cost for Present Population - Rs 984.00

Cost Per 1000 Li tres for intermediate stage - Rs 14.21

# CWSS TO 645 HABITATIONS IN ARIYALUR AND PERAMBALUR DISTRICT

## FLOW DIAGRAM



