

SAILENT DETAILS

CWSS TO HOSUR - SIPCOT HABITATIONS

1. Scheme cost. : Rs.1262.58 lakhs.
2. Beneficiaries : Municipality 1 No
3. Populations : 23000
4. Designed Quantity. : 23.19 mld
5. Head Works with Source details : Intake well – 1 No.
Diameter – 8.00 m.
Depth - 16.00M.

6. Pump set.
I . Intake Well
 - a). Type : Vertical Turbine Pumpset
 - b). Duty : 170 HP (2 Nos)
(18000 lpm X 30 m head).
125 HP (2 Nos)
(8500 lpm X 50 m head).
 - c). Hours of Pumping : 14 Hours.

7 Treatment Plant (with units details)	: Capacity - 27.00 Mld.
a). Cascade Aerator	: 9 M dia collection tray 1.50 m (2M+D) with 4 Nos Tray (7M,3M,1.40 Mdia) @ 0.50 M raise loading rate 520 lpm/M ² .
b).Plain Sedimentation tank	: Dia 15.10 m x 4.10 depth.
c). Stilling Chamber	: 4M X 3M X 2M LD (2.5 MTD) DI 1.20 Minutes.
d).Measuring Channel	: 4M x 1.50M x 1.65M TD.
e).Dividing Chambers	: 3M dia 3.5m SWD (4M TD)D1.25 Minute.
f). Flash mixer	: 2M dia x 3.5 M SWD (4M TD) D1.1 Minute. 2 Nos x 5 HP motor with GE (Reduction warm).
g). Clarifloculator	: 2 Nos.
a). Clarifier	: 26 M dia x3.5 M SWD D1 150 Minutes. : 2 HP Motor with Gear Box – 2 RPH.
b). Flocculator size	: 10.5 M dia x3.5 M SWD DI 20 Minutes. 1 HP 4 Nos motor with warm gear – 2 RPM.
h). Sludge Well	: 2M dia x 4 M (4.90 M TD).
i). Stand Well	: 2M dia x 3.0 M TD.
Filter House	: 30.73 M x 21.20 M.
Bed Size	: 6.60 M X 5 M – 8 Nos (2Nos.Stand bye).
Rate of Filtration	: 100lit/Min/M ²

Wash Water Pump	: 2 Nos x 15 HP – 100 M ³ / Hrx 20 MTH (1 No,100% Stand Bye). <u>Wash Water Tank</u>
Capacity	: 4.00 L.L Capacity.
Size	: (20.50Mx2.20M) Staging Height 11.00M (2.50 MTD).
Air Blower	: 2 Nos x 50 HP – 1800 M ³ / Hr.at0.40 Kg/C M ² (1 No – 100 % stand bye).
Clear water Cum Pump House.	
Sump	: Cap .6 LL,Size 15.10 M dia RCC
Pumpset	: 2 Nos x 125 HP VT Pump (water Lub) 8500 lpm x 50 M Head (centre one 50 % Stand bye for other Two Nos).
8. Transmission Main.	
a). Pumping Main	: 21126 M.
b). Gravity Main	:
9. Booster Station. (Alasanatham)	
a). Sump with capacity	: 3.00 L.L.
b). Pump set details	: 125 HP V.T. Pump set10 (8500 lpmx 50 m head).
10. Service Reservoirs with capacity	: 2.00 LL Cap. 2 Nos

**CWSS TO HOSUR – SIPCOT IN HOSUR UNION IN KRISHNAGIRI DISTRICT
FLOW DIAGRAM**

