

<b>SALIENT DETAILS</b>			
1	<b>Name of Scheme:</b>	<b>C.W.S.S. TO CLPRA WITH PILLUR RESERVOIR AS SOURCE</b>	
2	<b>Project cost:</b>	Rs. 9175 Lakhs.	
3	<b>Beneficiaries</b>	1) Corporation : 1 No 2) Municipality : 3 Nos 3) Town Panchayats : 22 Nos. 4) Village Panchayats:100 Nos (523 Rural Habitations )	
4	<b>Population</b>	14,09,188	
5	<b>Total Daily Requirement:</b>	<b>125 mld</b>	
6	<b>Hours of Pumping</b>	24 Hours	
7	<b>Source</b>	Pillur Reservoir	
<b>8</b>	<b>Head works</b>		
	<b>collection well</b>	Ave.Dia = 19.5 m & Depth = 23 m	
<b>9</b>	<b>Pumpset</b>		
a	Type	Vertical Turbine oil lubricated	4x442 HP + 2 Nos. standby
b	Duty	91200 lpm x 61.99 m	
c	Hours of Pumping	24 hrs.	
10	<b>Raw water Tunnel</b>		
	Type	D Type	
	Length	3850 m	
<b>11</b>	<b>Treatment Plant</b>		
	Capacity of Treatment plant	131.25 mld	
a	<b>Plain Sedimentation tank</b>		
	Nubmer of units	7 Nos + 1 No Standby	
	Size of each unit	60 m x 12 m x 3.50 m	
b	<b>Aerator</b>		
	Aerator unit	1 No. - 15m dia cascade type 4 drops	

c	<b>Stilling Chamber</b>	
	Stilling Chamber	1 No ( 6.0m dia x .0m depth)
d	<b>Flash Mixer</b>	
	Flash mixer	2 Nos ( 4.0m dia x 4.60m depth)
	Effective capacity of flash mixer	57.80 cu.m. (each)
	Rate of flow to each flash mixer	2734.38 cu.m. / hr
	Capacity of agitator	7.50 HP - 1500 rpm
e	<b>Clarifloculator</b>	
	Clarifloculator	2 Nos ( 60.5m dia x 3.0m depth)
	Rate of flow	2734.40 cum /hr
f	<b>Filter House</b>	
	Number of filter units	18 Nos ( 2 stand -bye )
	Capacity of each filter unit	342 cum/ hr.
g	<b>Secondary Flash Mixer</b>	
	Secondary Flash Mixer	1 No ( 5.5m dia x 3.90m depth )
h	<b>Alum Solution Preparation tank</b>	
	Alum Solution tank	3 Nos ( 4 x 4x4.1m)
i	<b>Lime Solution Preparatiopn tank</b>	
	Lime Solution tank	3 Nos ( 3X2X2m)
j	<b>Chlorination System</b>	
	Number of chlorinators	3 Nos ( Vacuum operated )
	Capacity of chlorinators	20 kg / hr.
k	<b>Wash water Tanks</b>	
	Capacity wash water tank	742 cum
	Size of wash water tank	17.75m dia x 3.45m depth-12m height
	No.of wash water filling pumps	2 Nos. ( 40 HP - 1500 RPM)

I	<b>Clear Water Reservoir</b>	
	Capacity of clear water reservoir	52 lakhs lit. - in two compartments
	Size of each compartment	35m x 25m x 3m
<b>12</b>	<b>Transmission Main</b>	
a	Pumping main	10870 m
b	Gravity main	59130 m
<b>13</b>	<b>Clear water Tunnel</b>	
	Type	D Type
	Length	900 m
<b>14</b>	<b>Booster station</b>	
<b>a</b>	<b>Sump with capacity in lit.</b>	
1	Perianaickenpalayam	700000
2	Palanigoundenpudur	150000
3	Chinnathadagam	100000
4	Mangarai	100000
5	Appanaickenpalayam System I	100000
6	Naickenpalayam	100000
7	Chinnavedampatthy	35000
8	Chettipalayam	45000
9	Nanjammal Lay out	35000
10	Madukkarai	30000
11	Papampatti	100000
12	Athappagoundenpudur	150000
13	Kalangal - System I	40000
14	Manthiripalayam	30000
15	Poorandampalayam	60000
16	Nallupalayam	100000
17	Akkanaickenpalayam	30000
18	Paruvai	30000
19	Kaniyur	20000

20	Vadugapalayam - Sys.I	30000	
21	Valayapalayam	20000	
22	Nallagoundenpalayam	100000	
23	Dodampatty	100000	
24	Putherichal	30000	
25	Devanampalayam	30000	
26	Kuppichipalayam	30000	
27	Ansur	10000	
<b>b</b>	<b>Pumpset details</b>		
	<b>Locatoion of pump house</b>	<b>HP</b>	<b>Duty(lpmxm)</b>
1	Perianaickenpalayam	90	5539x54
2	Palanigoundenpudur	50	1048x92
3	Chinnathadagam	40	858x100
4	Mangarai	15	198x111
5	Appanaickenpalayam System I	7.50	304x45
	Appanaickenpalayam System II	7.50	372x75
6	Naickenpalayam	15	444x71
7	Chinnavedampatthy	10	929x25
8	Chettipalayam	12.5	517 x45
9	Nanjammal Lay out	5	111 x 45
10	Madukkarai	5	559 x 25
11	Papampatti	12.5	501x50
12	Athappagoundenpudur	15.5	558x55
13	Kalangal - System I	100	2483x95
	Kalangal - System II	1.5	146x16
14	Manthiripalayam	7.50	371x38
	Manthiripalayam	5	276x36
15	Poorandampalayam	7.50	178x52
16	Nallupalayam	5	180x35
17	Akkanaickenpalayam	3	160x38
18	Paruvai	30	862x80
19	Kaniyur	7.5	720x56
20	Vadugapalayam - Sys.I	12.50	204x88
	Vadugapalayam - Sys.II	7.5	127x70

21	Valayapalayam	3	100x30
22	Nallagoundenpalayam	40	734x88
23	Dodampatty	40	1580x54
24	Putherichal	10	348x43
	Putherichal	7.50	320x42
25	Devanampalayam	10	360x52
26	Kuppichipalayam	3	156x28
27	Ansur	8	200x75
<b>15</b>	<b>Feeder Mains:</b>	26000 m	
16	<b>Service Reservoirs with capacity</b>		
a	Stand Post at	Vilankurichi	
	Capacity	15 lakh litres	
b	5.00 LL	1 No	
c	4.00 LL	2 Nos	
d	3.50 LL	3 Nos	
e	3.00 LL	2 Nos	
f	2.50 LL	5 Nos	
g	2.00 LL	4 Nos	
h	1.50 LL	14 Nos	
i	1.00 LL	33 Nos	
j	0.60 LL	111 Nos	
k	0.30 LL	143 Nos	
l	0.15 LL	14 Nos	
m	0.10 LL	183 Nos	

# WATER SUPPLY TO COIMBATORE LOCAL PLANNING AND RURAL AREAS WITH PILLUR RESERVOIR AS SOURCE SCHEMATIC DIAGRAM

