

**CWSS TO 29 HABITATIONS IN THIRUMANUR UNION OF
ARIYALUR DISTRICT**

SALIENT DETAILS

Population	Present	Intermediate	Ultimate
	(2010)	(2025)	(2040)
	: 31727	34902	38072
Per capita Supply	: Considering the FC/PC habitation level of supply 40 LPCD		
Requirement of water	: -	0.791 MLD	0.868 MLD
	-	826 LPM	897 LPM
Hours of Pumping	: 16 Hours		
Head works	: 1 Number of infiltration well 4.50 M dia 9 M depth in River Coleroon near Manjamedu colony		
	INFILTRATION WELL		
	Dia	-	4.50 M
	Ave Bed Level	-	35.80 M
	FVL	-	27.80 M
	Well bottom	-	26.80 M
	Scour Level	-	31.10 M
	MFL	-	41.66 M
	Well top	-	37.98 M
Pump sets	: 25 HP Submersible – 2 Nos (1 No. Stand Bye)		
	(826 LPM x 63 M Head)		
Control Room	: 4M x 3M		

Pumping Main	:	Infiltration well to Stand post Near Kovilur	
		200 MM DI K9 D/F Pipe	- 150 M
		200 MM AC CL 15 Pipe	- 5945 M
		140 MM PVC 6 KSC Pipe	- 5665 M
		140 MM PVC 4 KSC Pipe	- 2955 M
		Total Length	14715 M

STAND POST NEAR KOVILUR

STAND POST	:	Capacity	:	1.00 LL
		Staging height	:	12.00 M
		Storage Depth	:	2.50 M
		G.L	:	53.75 M
		L.W.L	:	65.750 M
		M.W.L	:	68.750 M
		Detention Time	:	8 Hours

(A) Gravity Main – I	:	Stand Post near Kovilur to Arasencheri	
		75 MM PVC 4 KSC	- 3225 M
		63 MM PVC 4 KSC	- 1950 M
		50 MM PVC 6 KSC	- 1670 M
		Total Length	6865 M

(B) Gravity Main – II	:	Stand Post near Kovilur to Keela Esanai	
		75 MM PVC 4 KSC	- 2090 M
		63 MM PVC 4 KSC	- 1500 M
		Total Length	3590 M

(C) Feeder Main – I : (From Kovilur stand post)

Pump set towards Batcha Nagar

(Feeder Main – I) : 1 HP Centrifugal Mono block – 2 Nos (1 No. Stand bye)
26 LPM x 7 M Head

Pump Room : Size 1.50 M x 1.50 M

(C) Feeder Main – I : Stand Post near Kovilur to Batcha Nagar

63 MM PVC 4 KSC - 1305 M

50 MM PVC 6 KSC - 1930 M

Total Length - 3235 M

SERVICE RESERVIORS	EXISTING	PROPOSED
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1. 100000 Litres	5	0
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2. 60000 Litres	15	0
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3. 30000 Litres	9	0
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4. 10000 Litres	2	0
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Total	31 Nos	0
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BRANCH MAIN TO SERVICE RESERVIOR

Total Length 140mm to 50 mm PVC Pipe : 26.400 KM

