

CWSS to Annur, Mooperipalayam TPs in Coimbatore District , Avinashi TP in Tirupur District , Air Force Station , Sulur and Bulk Quantity for 155 Habitations in Palladam and Tirupur Unions

SALIENT DETAILS

1	State/District	TAMIL NADU			Coimbatore and Tirupur	
2	Beneficiary	Annur, Mooperipalayam TPs in Coimbatore District , Avinashi TP in Tirupur District , Air Force Station , Sulur and Bulk Quantity for 155 habitations in Palladam and Tirupur Unions				
3	Population	Census 2011	Base Year 2020	Intermediate 2035	Ultimate 2050	
	Annur TP	20079	22800	28300	35000	
	Mooperipalayam TP	10730	12900	18100	25200	
	Avinashi TP	28868	34300	47500	66000	
	155 Habitations	96247	122100	192400	294000	
	Total	155924	192100	286300	420200	
4	Proposed Prorata Supply	90 lpcd				
5	Clear water Demand for Proposed Scheme	Intermediate Stage 2035	Ultimate Stage 2050			
		MLD	MLD			
	Annur	3.236	4.002			
	Mooperipalayam	2.070	2.881			
	Avinashi	5.431	7.547			
	Air Force Station, Sulur	2.266	2.266			
	Bulk Quantity for 155 habitations	8.063	15.424			
	Total Clear Water	21.07	32.12			
	Raw water	22.12	33.73			
6	Proposed Source	River Bhavani at Paraithurai upstream of Sirumugai Town				
7	Components					
a	Head Works	Baby well : 3.0 m dia X 3.00m ht. in River , Collection Well -cum - Pump House in Bank, Collection Well :8.00 m dia x 21m ht., Pump House : 8.0 m dia , Intake pipe - 750mm dia DI pipes -40 m				
b	Raw water Pumpsets	Vertical turbine Pumpsets of duty 8015 lpm x 75 m - 3 Nos (2 +1 Standby)				
c	Raw Water Main	813 mm x 7.1 mm MS pipes : 18130 m				
d	Raw water Booster Station	Sump- 14.70 LL Capacity , Intake well cum Pumphouse- 8.0 m dia, 7.5m ht well and 8.0 m dia 5m ht pumphouse.				
e	Raw water Pumpsets	Vertical turbine Pumpsets of duty 8015 lpm x 46 m - 3 Nos (2 +1 Standby)				

f	Treatment Plant	22.12 MLD Full Scale WTP comprising Aerator, Stilling Chamber, Flash Mixer, Clariflocculator, Rapid sand Filters, at Sumaithangi			
g	Clear water reservoir and Pumpsets		Sump	13.95 LL	
			Pump House	20 m x 8 m	
			Pumpsets	(i)	HSC Centrifugal Pumpsets of duty 4890 lpm x 35 m (3 Nos. 2+1 standby) for Avinashi & 155 Hab.
(ii)	HSC Centrifugal Pumpsets of duty 5488 lpm x 58 m (2 Nos. 1+1 standby) for Annur, Mooperipalayam & AFS Sular				
h	Clear Water Transmission Main to Avinashi TP & 155 Rural	600 mm DI K7 Pipe- 19.71 Km 500 mm DI K7 Pipe- 12.35 Km		32.06 KM	From Water treatment plant to sump at Avinashi Market (Water required for Avinashi TP and 155 habitations)
i	Clear Water Transmission Main to Annur TP, Mooperipalayam TP and Sular AF	400 mm DI K7 Pipe- 10.65 Km 350 mm DI K7 Pipe- 4.65 Km 300 mm DI K7 Pipe - 8.01 km		23.31 KM	From Water treatment plant to Booster sump at Vagarayampalayam (Water required for Annur TP, Mooperipalayam TP and Sular AF)
j	Clear Water Transmission Main from Booster station @ Vagarayam- palayam to Sular AF	200 mm DI k7 Pipes		16.31 KM	From Booster sump at Vagarayampalayam to Sular AF. (Water required for Sular Airforce)
k	Booster Station at Mooperipalayam (for Air Force Station)		Sump	1.00 LL	
			Pump Room	4m x 4m	
			Pumpsets	(i)	Open Well submersible Pumpsets of duty 1642 lpm x 86 m 2 Nos. 1+1 standby)
m	Pumping Mains to Service reservoirs for 3 Town Panchayats.	300 mm DI K7 Pipe- 0.12 Km 200 mm DI K7 Pipe- 2.55 Km 150 mm DI K7 Pipe - 11.92 km 100 mm DI K7 Pipe - 27.29 Km		41.88 KM	
l	Sumps		Annur	1.30 LL	
			Avinashi	1.65 LL	
			Mooperipalayam	0.70 LL	

n	Pumpsets for Feeder mains to Service Reservoirs	Annur	Pumpsets	(i)	Open Well submersible Pumpsets of duty 846 lpm x 40 m 2 Nos. 1+1 standby)
				(ii)	Open Well submersible Pumpsets of duty 700 lpm x 34 m 2 Nos. 1+1 standby)
				(iii)	Open Well submersible Pumpsets of duty 800 lpm x 50 m 2 Nos. 1+1 standby)
	Pumpsets for Feeder mains to Service Reservoirs	Mooperipalayam	Pumpsets	(i)	Open Well submersible Pumpsets of duty 418 lpm x 26 m 2 Nos. 1+1 standby)
				(ii)	Open Well submersible Pumpsets of duty 733 lpm x 58 m 2 Nos. 1+1 standby)
				(iii)	Open Well submersible Pumpsets of duty 349 lpm x 49 m 2 Nos. 1+1 standby)
	Pumpsets for Feeder mains to Service Reservoirs	Avinashi	Pumpsets	(i)	Open Well submersible Pumpsets of duty 1138 lpm x 21 m 2 Nos. 1+1 standby)
				(ii)	Open Well submersible Pumpsets of duty 1828 lpm x 26 m 2 Nos. 1+1 standby)
				(iii)	Open Well submersible Pumpsets of duty 970 lpm x 40 m 2 Nos. 1+1 standby)
o	Pump Rooms for 3 TPs	6m x 4m	4 Nos		
p	Service Reservoirs proposed	1.00 LL	16 m staging	2	Annur TP
		1.60 LL	16 m staging	2	Avinashi TP
		3.70 LL	16 m staging	1	
		2.00 LL	16 m staging	1	
		1.30 LL	16 m staging	2	
		1.00 LL	16 m staging	1	Mooperipalayam TP
		0.40 LL	12 m staging	1	
		0.30 LL	12 m staging	3	
		1.00 LL	16 m staging	4	
	Total			17	

q	Distribution System Proposed	200 mm DI K7 Pipe- 3.07 Km 150 mm DI K7 Pipe- 0.19 Km 200 mm PVC 4 Ksc - 0.425 km 160 mm PVC 4 Ksc - 4.33 Km 140 mm PVC 4 Ksc - 20.558 Km 110 mm PVC 4 ksc - 22.428 Km 90 mm PVC4 Ksc - 84.618 Km	135.619 KM	
r	House Service Connections	8194 Nos		
s	Sump for Avinashi TP and 155 Habitations at Avinashi	13.45 LL		
8	Cost (Rs. In Crores)	Installation Cost Rs in Crores	AM Cost Rs in Crores	
	Total	241.00	3.15	
9	Beneficiary	Proportionate cost of Installation (Rs in Crores)		
a	Annur TP	33.23		
b	Mooperipalayam TP	34.24		
c	Avinashi TP	58.15		
d	Bulk Quantity to 155 Rural Habitations	88.63		
e	Air Force Station, Sular	26.75		
	Total	241.00		
10	Funding Pattern	Annur TP Mooperipalayam TP Avinashi TP Bulk Quantity to 155 Rural Habitations Air Force Station, Sular	NABARD loan assistance under RIDF-XXIII(2017-18) Rs. 163.33 Core and Balance Rs.50.92 crore from the respective Capital Grant fund i.e from the Town panchayat Capital Grant Fund / Rural Development Capital Grant Fund 100 % Deposit by Sular Air Force	