

PROVIDING WATER SUPPLY SCHEME TO 708 HABITATIONS IN ANNUR AND SULUR UNION IN COIMBATORE DISTRICT AND AVINASHI UNION IN TIRUPPUR DISTRICT WITH BULK PROVISION TO 165 HABITATION IN TIRUPPUR UNION OF TIRUPPUR DISTRICTS				
SALIENT DETAILS				
1	Installation cost	Rs.362.2046 Crore		
2	A.M.Cost	Rs.617.80 Lakhs		
3	Per capita cost	Rs. 10111/-		
4	Cost per 1000 litres	Rs. Rs.19.60/-		
5	Beneficiaries			
PHASE- I - Augmentation of the existing WSIS to Tiruppur Corporation, 4 TPs and 412 way side habitations in Coimbatore and Tiruppur District				
	Union	No. of Panchayats	No. of Habitations	
	Annur Union	8	146	
	Avinashi Union	7	77	
	Sub Total	15	223	
PHASE- II - Augmentation of the existng CWSS to Annur, Avinashi and Sulur Union in Coimbatore District				
	Union	No. of Panchayats	No. of Habitations	
	Annur Union	13	162	
	Avinashi Union	16	175	
	Sulur Union	4	41	
	Sub Total	33	378	
PHASE- III (WS to delinked habitations of 8 Panchayats and bulk provision to 165 habitations in Tiruppur union in Tiruppur District)				
Proposed scheme with new source				
	Avinashi Union	8	107	
	Total	56	708	
Bulk provision				
	165 rural habitations in Tiruppur Union in Tiruppur District	10	165	
6	Population and Demand			
	Year	2020 (Present)	2035 (Int)	2050 (Ult)
	Phase I (223 Habs)	83600	105430	135230
	Phase II (378 Habs)	138680	168230	208790
	Phase III (107 Habs & bulk 165 Habs))	135930	201730	298810
	Population covered (708 habs + 165 bulk habs)	358210	475390	642830
Requirement (MLD) (clear water incl 10% line losses)				
	Phase I		6.02	7.72
	Phase II		9.36	11.60
	Phase III		10.95	16.83
	Total		26.33	36.16
Existing supply in MLD				
	Phase I		7.91	

	Phase II	12.14		
	Phase III	NIL		
	Net Requirement in MLD (Raw Water)	-		
	Phase III		11.51	17.68
	Source			
	Phase -I	Habitations covered under existing Tirupur WSS	From Pogalur Sump	
	Phase- II	Habitations covered under Existing Annur-Avinashi CWSS	Vellikuppampalayam Sump	
	Phase -III	Habitations covered under New CWSS	Surface water from River Bhavani - At Kutheripalayam Village near Chikkadasampalayam Water Treatment Plant of Chikkadasampalayam Village Panchayat, Karamadai Union, 4 Km downstream of Bhavani Barrage II.	
7	Infra Structure Details - Augmenting Tiruppur WSIS-Phase-I (15 Village Panchayats)			
a.	Existing Booster Station at Pogalur	Capacity of 9.00 LL		
b.	Pumpset from Pogalur to	HSC Centrifugal pumpsets To Vadakalur - 1029 lpm x 59 m Head To Kariyampalayam - 3336 lpm x 54 m		
c.	Clear water main			
	Existing Pogalur sump to proposed Vadakalur sump	200 - 100mm DI K7	24660	
	Existing Pogalur sump to Kariyampalayam sump	350 - 100mm DI K7	49820	
	Total Clear water main (m)		74480	
d.	Pumpsets from Sump to Service Reservoirs	Open well submersible pumpsets - 27 Nos.		
1	Annur Mettupalayam	1) 339 lpm x 37 m Head 2) 220 lpm x 21 m Head		
2	Karegoundenpalayam	1) 265 lpm x 37 m Head 2) 153 lpm x 32 m Head 3) 331 lpm x 24 m Head		
3	Kariampalayam	1) 382 lpm x 18 m Head 2) 354 lpm x 45 m Head		
4	Kuppanur	1) 116 lpm x 31 m Head 2) 230 lpm x 33 m Head		
5	Odder palayam	1) 410 lpm x 26 m Head 2) 502 lpm x 31 m Head		
6	Pogalur	1) 256 lpm x 32 m Head 2) 289 lpm x 18 m Head		
7	Vadakkalur	1) 337 lpm x 20 m Head 2) 227 lpm x 21 m Head		
8	Vadavalli -Sump1	180 lpm x 46 m Head		
9	Vadavalli -Sump2	337 lpm x 34 m Head		
10	Karumapalayam	162 lpm x 20 m Head		
11	Karuvalur	1) 351 lpm x 22 m Head 2) 355 lpm x 23 m Head		
12	Muriyandampalayam	1) 272 lpm x 21 m Head 2) 334 lpm x 36 m Head		
13	Nambiampalayam	1) 477 lpm x 30 m Head 2) 437 lpm x 36 m Head		
14	Ramanathapuram	307 lpm x 49 m Head		
15	Uppilipalayam	306 lpm x 21 m Head		
16	Vettuvapalayam	435 lpm x 44 m Head		

e.	Rural Feeder main From 16 Village Panchayat sumps to OHTs			
	Annur Union	160 - 75mm HDPE 6 KSC	128625	
	Avinashi Union	160 - 75mm HDPE 6 KSC	78285	
	Total Rural Feeder main (m)		206910	
f.	Total No. of Group Sumps	Existing	Proposed	
	Phase -I	-	16	
g.	Total No. of Service Reservoirs	Existing	Proposed	
	Phase -I	195	89	
h.	Distribution System	Phase- I		
	110mm HDPE 6 KSC	1000		
	90mm HDPE 6 KSC	63000		
	Total D'System main (m)	64000		
8	Augmenting CWSS to 249 habitations in Annur, Avinashi & Suler unions -Phase -II Panchayats)			(33
a.	Raw water Pumpset at Head works	Vertical Turbine pumpset 5480 lpm x 24 m head (2 Nos. + 1 stanby)		
b.	Clear Water Pumpset from WTP to Exisiting Vellikuppam palayam sump	HSC Centrifugal pumpset 3392 LPM X 27 m Head (2 Nos. + 1 stanby)		
c.	Existing Booster Station at i.Vellikuppampalayam ii.Sumaihangai iii. Kunniyur	i.Capacity of 9.00 LL - 2 Nos. ii. Capacity of 9.00 LL - 1 No. iii. Capacity of 5.00 LL - 1 No.		
d.	Pumpset from Vellikuppampalayam to	HSC Centrifugal pumpsets To Sumaihangai - 3580 lpm x 78 m Head To Kunniyur- 3204 lpm x 79 m Head		
e.	Kunniyur Booster sump - 12 Panchayats			
	Pumpsets from Booster sump at Kuniyur to Kariyampalayam, Kariyampalayam	3204 lpm x 41 m Head		
	Pumpsets from Booster sump at Kuniyur to MGC Palayam & Kattampatty	569 lpm x 18 m Head		
	Pumpsets from Booster sump at Kuniyur to Kattampatty	1085 lpm x 38 m Head		
f.	To Sumaihangai Booster sump - 21 Panchayats			
	Pumpsets from Booster sump at Sumaihangai to Ridge	3039 lpm x 37 m Head		
	Pumpsets from Booster sump at Sumaihangai to Pasur	431 lpm x 59 m Head		
g.	Pumpsets from Sump to OHTs	Open well submersible pumpsets - 43 Nos.		
	ANNUR UNION			
1	Akkarai Sengapalli (1)	209 lpm x 34 m Head		
2	Akkarai Sengapalli (2)	116 lpm x 15 m Head		
3	Allappalayam	247 lpm x 20 m Head		
4	Ambothi (1)	98 lpm x 33 m Head		
5	Ambothi (2)	1)162 lpm x 19 m Head		
		2)123 lpm x 38 m Head		
6	Kanjapalli	1) 248 lpm x 50 m Head		
		2) 386 lpm x 31 m Head		
7	Kanuvakkurai	213 lpm x 41 m Head		
8	Kattampatti	1) 305 lpm x 33 m Head		

8	Kannampalayam	2) 347 lpm x 16 m Head			
9	Kunnathur (2)	1) 328 lpm x 30 m Head			
10	Kuppepalayam (2)	1) 60 lpm x 28 m Head			
11	Masagoundenchettipalayam (2) (NEAR Pillayappampalayam)	373 lpm x 24 m Head 149 lpm x 20 m Head			
12	Masagoundenchettipalayam (3)	417 lpm x 21 m Head			
13	Pasur (2)	121 lpm x 27 m Head			
14	Pillayappampalayam (2)	160 lpm x 25 m Head			
AVINASHI UNION					
15	Alathur	1)261 lpm x 44 m Head 2)143 lpm x 24 m Head			
16	Ayyampalayam	103 lpm x 29 m Head			
17	Cheyur	1) 201 lpm x 44 m Head 2) 195 lpm x 26 m Head 3) 328lpm x 22 m Head			
18	Kanur	357 lpm x 20 m Head			
19	Mangarasa Valayapalayam	1) 147 lpm x 36 m Head 2) 242 lpm x 9 m Head			
20	Neduvacheri	233 lpm x 26 m Head			
21	Pappankulam (1)	83 lpm x 28 m Head			
22	Pongalur	495 lpm x 35 m Head			
23	Pothampalayam (2)	198 lpm x 19 m Head			
24	Pulipar	193 lpm x 23 m Head			
25	Punjai Thamaraikulam	210 lpm x 38 m Head			
26	Thandukampalayam (2)	176 lpm x 21 m Head			
27	Thathanur	1)212 lpm x 21 m Head 2) 322 lpm x 44 m Head			
28	Thulukammuthur (2)	37 lpm x 17 m Head			
29	Vadugapalayam	198 lpm x 25 m Head			
SULUR UNION					
30	Paduvampalayam(2)	313 lpm x 26 m Head			
31	Kaduvettipalayam (2)	264 lpm x 35 m Head			
32	Giddampalayam (2)	1) 374 lpm x 31 m Head			
33	Semmandampalayam (2)	1) 283 lpm x 5 m Head 2)280 lpm x 39 m Head			
h. Clear water main					
	Description	Proposed		Existing	
	Clear water main	Pipe	Length (m)	Pipe	Length (m)
	Existing Vellikuppampalayam sump to Existing Kuniyur BS			450mm PSC 18 KSC - 400 PSC 6 KSC	7440
	Existing Kunniyur Booster sump to ridge point at LS 7690 (Kariyampalayam Existing sump)	400- 100mm DI K7/K9	30972		
		140- 75mm HDPE	5580	400mm PSC/ 8KSC	11180
	Existing Kariyampalayam BS to M.G.Chettipalayam proposed sump	250 - 150mm DI K7	2900		
		140- 75mm HDPE	9600		
	Existing Kariyampalayam BS to Kattampatti proposed sump	200 DI K7	6500		
		140-75mm HDPE	13900		
	Total Clear water main (m)		69452		18620
	Rural Feeder main	160- 75mm HDPE	142380	140 - 63mm PVC	24210
			142380		24210
	Description	Proposed		Existing	
b.	Clear water main	Pipe	Length (m)	Pipe	Length (m)

	Existing Vellikuppampalayam sump to Existing Sumaithangai BS	400mm DI K7	2020		
		90mm HDPE 6 KSC	2000	450mm PSC 18 KSC - 400 PSC 6 KSC	10150
	Existing Sumaithangai BS to Pasur Existing sump	140- 75mm HDPE	6070	140mm PVC 6 KSC	8800
	Existing Sumaithangai BS to Ridge point at LS 12610 (Vadugapalayam proposed sump)	450 - 100mm DI K7	19460		
		160- 75mm HDPE	41960	450mm PSC 16 KSC - 350 PSC 6 KSC	8400
		65mm GI	100	50mm GI	
	Total Clear water main (m)		71610		27350
i.	Rural Feeder main	200 - 100mm DI K7	1420		
		160- 75mm HDPE	181440	140 - 63mm PVC	35905
		50mm GI	190	50mm GI	6460
			183050		42365
j.	Total No. of Group Sumps	Existing	Proposed		
	Phase - II	16	33		
k.	Total No. of Service Reservoirs	Existing	Proposed		
	Phase - II	319	108		
I	Distribution System	Phase -II			
	110mm HDPE 6 KSC	500			
	90mm HDPE 6 KSC	77500			
	Total D'System main (m)	78000			
7	Phase- III (WS to delinked habitations of 8 Panchayats and bulk provision to 165 habitations in Tiruppur union in Tiruppur District)				
a.	Head works	Baby well of 3.00m dia and Collection well cum pumproom of 8.00m dia in the river Bhavani in Kutheripalayam village near Chikkadasampalayam			
b.	Intake pipe	600mm DI K7 - 50m			
c.	Pumpset at Head works	Vertical turbine Pumpsets of duty 4170 lpm x 112 m -2 Nos (2 +1 Standby)			
d.	Raw water main	500mm DI K7/K9 - 6120 / 19578 (total - 25698m)			
e.	Raw water pumpset	Vertical turbine Pumpsets of duty 4170 lpm x 43 m - 2 Nos (2 +1 Standby)			
f.	Treatment Plant 11.51 mld Full Scale Treatment Plant at Nariyampalli Habitation of Ramanathapuram Village Panchayat				
	Aerator, Stilling Chamber, Measuring Channel, Flash Mixer, Clariflocculator, Flocculator, Filter cum Chemical House				
g.	Clear Water Reservoir	5.0 LL			
h.	Pump House	8mx6m			
i.	Clear water main	400mm -100mm DI K7 - 58580m			
j.	Clear water pumpsets	HSC Centrifugal - 3970 x 30m - 3Nos. (2+1 standby)			
k.	Rural feeder main (from 8 village panchayat sumps to OHTs)	200 - 250mm DI K7	2940		
		180-75mm HDPE 6 & 8 KSC	99665		
	Total Rural Feeder main (m)		102605		
I	Total No. of Group Sumps	Existing	Proposed		
	Phase - III	2	10		

	Pumpsets from Sump to OHTs	17 Nos		
	Chinneripalayam	1) 109 lpm x 35 m Head 2) 139 lpm x 33 m Head		
	Kaniam Poondi	792 lpm x 17 m Head		
	Kuppandampalayam	175 lpm x 28 m Head		
	Palankarai - Ayegoundenpalayam	572 lpm x 24 m Head		
	Palankarai - Maharaja Nagar	1369 lpm x 16 m Head		
	Palankarai - Peryayeepalayam	655 lpm x 20 m Head		
	Pudupalayam	1) 570 lpm x 29 m Head 2) 521 lpm x 31 m Head		
	Sembianallur	1) 778 lpm x 25 m Head 2) 683 lpm x 34 m Head		
	Velayuthampalayam	1) 956 lpm x 26 m Head 2) 672 lpm x 35 m Head		
	Thekkalur	1) 1138 lpm x 54 m Head 2) 1034 lpm x 65 m Head		
	Thekkalur Existing	178 lpm x 34 m Head		
	Thekkalur Sengalipalayam	178 lpm x 24 m Head		
m	Pump rooms			
n	Total No. of Service Reservoirs	Existing	Proposed	
	Phase - III	100	63	
o	Distribution System	Phase -III		
	110mm HDPE 6 KSC	11250		
	90mm HDPE 6 KSC	73250		
	Total D'System main (m)	84500		
	Funding Pattern	Loan under NABARD RIDF- XXV – 2019-20	Rs.29407.14 lakh	
		State share (Under MNP)	Rs.6813.32 lakh	
		Total	Rs. 36220.46 lakh	