

APPENDICES

Appendix 1.1

(Reference: Paragraph 1.5; Page 3)

Details of selected Districts, Blocks and Village Panchayats

Sl. No.	District	Sl. No.	Block	Sl. No.	Village Panchayat
1	Coimbatore	1	Karamadai	1	Bellapalayam
				2	Chikkadasampalayam
				3	Chinnakallipatty
				4	Nellithurai
				5	Tholampalayam
		2	Kinathukadavu	6	Devanampalayam
				7	Kappalankarai
				8	Kuthiralayampalayam
				9	Solavampalayam
				10	Vadapudur
2	Nagapattinam	3	Thirumarugal	11	Adalaiyur
				12	Kottarakudi
				13	Kottur
				14	Thirupayathankudi
				15	Vazhkudi
		4	Vedaranyam	16	Ayyakaranpulam
				17	Kodiakarai
				18	Maruthur North
				19	Moolaikarai
				18	Pushpavanam
3	Ramanathapuram	5	Tiruppullani	21	Kalimankundu
				22	Landhai
				23	Regunathapuram
				24	Utharavai
				25	Vannankundu
		6	Tiruvadanai	26	Arasathur
				27	Kadambur
				28	Karumozhi
				29	Oriyur
				30	Paganoor

Sl. No.	District	Sl. No.	Block	Sl. No.	Village Panchayat
4	Salem	7	Kolathur	31	Chithirapattipudur
				32	Kaveri Puram
				33	Kolnaickanpatti
				34	Navapatti
				35	Pannavadi
		8	Peddanaickenpalayam	36	Kalarampatty
				37	Ottapatty
				38	Thennampillaiyur
				39	Vadugathampatty
				40	Vellapatty
5	Theni	9	Bodinayakkanur	41	Ahamalai
				42	Anaikaraipatti
				43	Kamarajapuram
				44	Kodagangipatti
				45	Sillamarathupatti
		10	Uttamapalaiyam	46	Gohilapuram
				47	Lakshminaickenpatty
				48	Nagayagoundanpatty
				49	Pallavarayanpatty
				50	U.Ammapatty
6	Viluppuram	11	Gingee	51	Chinnaponnampoondi
				52	Gangavaram
				53	Manalapadi
				54	Meledayalam
				55	Palapattu
		12	Vikravandi	56	Asoor
				57	Ayyur Agaram
				58	Kayathur
				59	Kutham poondi
				60	Mundiyampakkam

Appendix 1.2
(Reference: Paragraph 1.7; Page 6)
Status of TWAD Works in selected District

Scheme	District	Work Order date	Expected Date of Completion	Date of Completion
Completed works				
CWSS to 295 rural habitations in Pollachi North, Pollachi South and Kinathukadavu unions in Coimbatore district	Coimbatore	28-09-2022	16-07-2023	31-03-2024
CWSS to Alapakkam and 21 rural habitations in Marakkanam union of Viluppuram district	Viluppuram	24-06-2022	03-01-2023	July 2023
CWSS to Kaveripuram and 141 rural habitations in Kolathur union of Salem District	Salem	03-11-2022	06-11-2023	31-03-2024
Water Supply Scheme to Yercaud and 8 other habitations in Yercaud Panchayat of Yercaud Union in Salem district	Salem	12-01-2022	February 2023	February 2023
Providing additional infrastructure in retrofitting of existing CWSS to Iruppali, 236 fluoride affected habitations and 1237 wayside habitations of Salem district.	Salem	02-12-2022	30-12-2023	31-10-2024
Ongoing works				
Scheme	District	Work Order date	Expected Date of Completion	Status of progress (in per cent)
Retrofitting of existing CWSS to 136 Fluoride affected habitations and 604 way side habitations in Kadayampatty and 3 other unions of Salem district.	Salem	28-08-2023	31-12-2024	90
Retrofitting of existing CWSS to Sankari TP, Thevur TP and 245 rural habitations in Sankari union of Salem district.	Salem	07-02-2023	31-12-2024	98
Retrofitting of existing Ramnad CWSS covering 5 Municipalities 11 Town Panchayats and 3,163 rural habitations in Ramanathapuram, Sivagangai and Pudukottai district.	Ramanatha-puram	P I - 03-11-2023 P II- 08-04-2023	November 2024 October 2024	P I - 40 P II - 79
Combined Water Supply Scheme to 2 municipalities, 5 town panchayats and 2,306 rural habitations in 11 panchayat unions in Ramanathapuram district and Oddanchatram municipality, Keeranur and Neikkarapatty town panchayat and 1,422 rural habitations in 7 unions	Ramanatha-puram & Dindigul	P I - 08-04-2023 P II - 31-03-2023 P III-31-03-2023 P IV- 31-03-2023	October 2024	(As of September 2024) P I - 53 P II - 70 P III - 63 P IV - 66
Combined Water Supply Scheme to Nagapattinam Municipality, Thittachery, Velankanni, Kilvelur, Thalainayar Town panchayats and 980 rural habitations in Nagapattinam, Thirumarugal, Kilvelur, Keelaiyur, Thalainayar and Vedaranyam unions in Nagapattinam District.	Naga-pattinam	P I - 31-03-2023 P II - 24-04-2023 P III-24-04-2023 P IV- 24-04-2023 P V - 22-02-2024	P I - Jan 2025 P II - Dec 24 P III - Nov 24 P IV - Nov 24 P V - June 25	(As of September 2024) P I - 74 P II - 79 P III - 77 P IV - 76 P V - 22

* P- Package

(Source: Details furnished by TWAD Divisions)

Appendix 2.1

(Reference: Paragraph 2.5.1.2; Page 12)

Details of FHTCs proposed and provided in Theni District

Sl. No.	VP	Block	Number of FHTCs proposed	Number of FHTCs provided
1	Melasindalacheri	Uthamapalayam	502	247
2	Anna Nagar,Endapuli	Periyakulam	160	0
3	MGR Nagar,Endapulai	Periyakulam	69	37
4	J.K Colony,Endapuli	Periyakulam	178	45
5	E.Vel Nagar,Endapuli	Periyakulam	207	69
6	Arokiamathanagar,Endapuli	Periyakulam	320	139
7	Kalaigiar colony,Endapuli	Periyakulam	100	0
8	Alagarnaickenpatti,Endapuli	Periyakulam	111	66
9	Arulananthapuram,Endapuli	Periyakulam	125	40
10	E.Kamatchipuram,Endapuli	Periyakulam	290	113
11	E.Puthukottai,Endapuli	Periyakulam	244	212
12	E.Puthupatty,Endapuli	Periyakulam	230	130
13	Endapuli	Periyakulam	380	178
14	Irulaiamman Nagar	Periyakulam	12	12
15	Mel Endapuli	Periyakulam	31	31
16	Murugumalai,Endapuli	Periyakulam	145	104
17	Nehru Nagar,Endapuli	Periyakulam	205	160
18	Unchampatti	Theni	1,030	140
Total			4,339	1,723

Appendix 3.1

(Reference: Paragraph 3.3; Page 19)

**Number of FHTCs in JJM dashboard *vis-à-vis* number of assessments as per VP Tax portal
for 'Har Ghar Jal' certified VPs**

District	Block	VP	If <i>Har Ghar Jal</i> Certified?	Number of Households provided FHTCs	Gram Sabha resolution date	Number of FHTCs as per JJM dashboard As on 01/04/23	Number of tap connections provided under JJM	Tax portal
Coimbatore	Karamadai	Bellapalayam	yes	30	26/01/2024	2,533	2,533	4,481
Coimbatore	Karamadai	Chikkadasam palayam	yes	12,300	26/01/2024	8,012	8,012	9,575
Coimbatore	Karamadai	Chinnakalli patty	Yes	1,775	26/01/2024	1,531	1,531	1,758
Coimbatore	Karamadai	Nellithurai	Yes	900	26/01/2024	900	900	968
Coimbatore	Karamadai	Tholam palayam	Yes	2,210	26/01/2024	2,210	2,210	2,748
Coimbatore	Kinathukadavu	Devanam palayam	Yes	Not Available	Unsigned	825	825	938
Coimbatore	Kinathukadavu	Kappalan karai	Yes	1,411	26/01/2024	1,411	1,411	1,771
Coimbatore	Kinathukadavu	Kuthiralayam palayam	Yes	403	26/01/2023	362	362	404
Coimbatore	Kinathukadavu	Solavam palayam	Yes	2,335	26/01/2024	1,268	1,268	2,477
Coimbatore	Kinathukadavu	Vadapudur	Yes	1,455	26/01/2023	1,455	1,455	2,319
Salem	Kolathur	ChithiraPatti Pudur	Yes	Not Available	15/08/2023	3,382	3,382	2,277
Salem	Kolathur	Kaveri Puram	Yes	4,577	Not Available	6,858	6,858	4,932
Salem	Kolathur	Kolnaickan Patti	Yes	Not Available	Not Available	2,129	2,129	2,335

Performance Audit on 'Jal Jeevan Mission'

District	Block	VP	If Har Ghar Jal Certified?	Number of Households provided FHTCs	Gram Sabha resolution date	Number of FHTCs as per JJM dashboard As on 01/04/23	Number of tap connections provided under JJM	Tax portal
Salem	Kolathur	Navapatti	Yes	2,854 (taken from GS resolution)	Not Available	3,014	3,014	2,998
Salem	Peddanaicken palayam	Thennam pillaiyur	Yes	474 (taken from GS resolution)	15/08/2023	474	474	438
Salem	Peddanaicken palayam	Vadugatham patty	Yes	383 (taken from GS resolution)	Not Available	383	383	439
Theni	Bodinayakkanur	Kamaraja puram	Yes	Not Available	05/08/2022	3,115	3,115	815
Theni	Uttamapalaiyam	Gohilapuram	Yes	1,385	02/10/2024	1,385	1,385	1,479
Theni	Uttamapalaiyam	Lakshmi naickenpatty	Yes	1,189	02/10/2024	2,241	2,241	1,686
Viluppuram	Gingee	Chinnaponnam poondi	Yes	172	22/03/2022	172	172	186
Viluppuram	Gingee	Manalapadi	Yes	499	22/03/2022	480	480	459
Viluppuram	Gingee	Meledayalam	Yes	423	10/08/2022	423	423	374
Viluppuram	Gingee	Palapattu	Yes	570	10/08/2022	570	570	528
Viluppuram	Vikravandi	Asoor	Yes	914	01/11/2023	1,426	1,426	803
Viluppuram	Vikravandi	Ayyur Agaram	Yes	1,522	02/10/2024	1,545	1,545	1,512
Viluppuram	Vikravandi	Kayathur	Yes	Not Available	03/08/2022	433	433	436
Viluppuram	Vikravandi	Kutham poondi	Yes	Not Available	01/11/2022	425	425	432
Viluppuram	Vikravandi	Mundiyam pakkam	Yes	436	02/10/2024	1,059	1,059	1,152

Appendix 3.2

(Reference: Paragraph 3.5.1; Page 20)

Package-wise Work Specifications for Survey and Levelling work

Sl. No.	Package	Estimate (₹ in lakh)	Expenditure (₹ in lakh)
1	Surveying and levelling works for Providing New MVS through JJM with River Cauvery as source for Transmission Main in Ramanathapuram District- Package I	18.89	17.57
2	Surveying and levelling works for Providing New MVS through JJM with River Cauvery as source for Kalayarkoil to Thondi and Thiruvadanai in Ramanathapuram District- Package II	22.16	19.94
3	Surveying and levelling works for Providing New MVS through JJM with River Cauvery as source for R.S,Mangalam union in Ramanathapuram District- Package III	20.35	18.41
4	Surveying and levelling works for Providing New MVS through JJM with River Cauvery as source for Nainarkoil and Bogalur union in Ramanathapuram District- Package IV	16.59	15.96
5	Surveying and levelling works for Providing New MVS through JJM with River Cauvery as source for Ramanathapuram union, Keelakarai MPTY and Thirupullani Union in Ramanathapuram District- Package V	24.33	18.73
6	Surveying and levelling works for Providing New MVS through JJM with River Cauvery as source for Rameswaram MPTY, Mandapam TP and Mandapam Union in Ramanathapuram District- Package VI	16.59	16.01
7	Surveying and levelling works for Providing New MVS through JJM with River Cauvery as source for Paramakudi MPTY and Paramakudi Union in Ramanathapuram District- Package VII	13.27	12.77
8	Surveying and levelling works for Providing New MVS through JJM with River Cauvery as source for Muthukulathur Union and Muthukulathur TP in Ramanathapuram District- Package VIII	14.02	13.50
9	Surveying and levelling works for Providing New MVS through JJM with River Cauvery as source for Sayalkudi TP and Kadaladi Union in Ramanathapuram District- Package IX	14.73	5.75
10	Surveying and levelling works for Providing New MVS through JJM with River Cauvery as source for Kamuthi TP, Abiramam TP and Kamuthi Union in Ramanathapuram District- Package X	12.70	6.20
	Total	173.63	144.84

Appendix 3.3

(Reference: Paragraph 3.7; Page 26)

Number of in-village works sanctioned under JJM/Convergence during 2020-24

Name of the work	Coim-batore	Naga-pattinam	Ramanatha-puram	Salem	Theni	Vilup-puram
JJM 2020-21	1072	0	165	1143	220	313
JJM 2022-23	2	0	0	0	232	135
SVS 2023-24	0	0	0	129	0	0
MVS- in-village	0	517	1343	4	0	0
Retrofitting in-village	122	0	57	1294	0	9
Convergence 2020-21	665	580	223	528	82	700
Convergence 2021-22	561	309	57	484	264	790
Convergence 2022-23	627	275	198	546	0	631
Convergence 2023-24	4	0	86	438	0	940

Appendix 4.1

(Reference: Paragraph 4.1.1; Page 32)

Delay in release of Centre and State's share to 'Single Nodal Account'

Year	Central share released by Ministry of Jal Shakthi			Central share released by GoTN				GoTN share release particulars				
	Sanction order	Date of release	Amount (₹ in lakh)	GO (D) No.	Date	Amount (₹ in lakh)	Delay in days	due (₹ in lakh)	GO No.	Date	Amount (₹ in lakh)	Delay in days
2019-20	G 11011/5/2019-Water-I/16	28-08-2019	15,144.61	433	29-10-2019	15,144.61	47	15,144.61	490	17-12-2019	15,144.61	96
	G 11020/8/2020-JJM-I-DDWS/48	19-02-2020	22,049.23	121	23-03-2020	22,049.23	18	21,534.73	393	16-11-2020	21,534.73	257
	G 11044/5/2019-WQ/9	27-03-2020	116.10	184	27-05-2020	116.10	46	146.28	70	18-02-2021	146.28	313
2020-21	G 11011/1/2020-JJM-I-DDWS/13	01-06-2020	246.29	263	07-08-2020	246.29	52	240.54	71	18-02-2021	240.54	247
	G 11011/1/2020-JJM-I-DDWS/44	25-11-2020	22,689.80	439	16-12-2020	14,578.88	6					0
		25-11-2020		456	28-12-2020	8,110.92	18	22,164.36	456	28-12-2020	22,164.36	18
	W 11020/8/2020-JJM-I-DDWS/65	29-01-2021	246.29	43	09-02-2021	246.29	-	22,400.92	43	09-02-2021	22,400.92	-
	W 11020/8/2020-JJM-I-DDWS/65	29-01-2021	8,147.65	43	09-02-2021	8,147.65	-					
	W 11020/8/2020-JJM-I-DDWS/65	29-01-2021	14,542.16	43	09-02-2021	14,542.16	-					
	W 11020/8/2020-JJM-I-DDWS/77	22-02-2021	22,936.09	114	26-02-2021	21,527.50	-	22,400.92	127	21-10-2021	22,400.92	226
		22-02-2021		77	21-06-2021	1,408.58	104					-
	WQ-11031/8/2020-WQ-DDWS	10-03-2021	227.36	69	21-05-2021	227.36	57	227.36	69	21-05-2021	227.36	57
2021-22	G 11011/1/2020-JJM-I-DDWS-Part 1 /11	13-05-2021	61,435.36	104	26-08-2021	61,435.36	90	60,001.87	128	22-10-2021	60,001.87	147
2022-23	W 11020/8/2020-JJM-I-DDWS/44	11-01-2023	87,296.12				0	84,954.03	15	09-02-2023	84,954.03	14
2023-24	W 11020/8/2020-JJM-I-DDWS/87	31-08-2023	87,236.50				0	85,200.98	130	14-09-2023	85,200.98	-
	W 11020/8/2020-JJM-I-DDWS/	08-01-2024	87,236.50				0	85,200.98	4	23-01-2024	85,200.98	-
	W 11020/8/2020-JJM-I-DDWS/98	11-03-2024	87,236.50				0	85,200.98	54	15-03-2024	85,200.98	-
2024-25	W 11020/8/2020-JJM-I-DDWS/18	19-07-2024	36,583.35				0	35,729.74	98	01-08-2024	35,729.74	-
	W 11020/8/2020-JJM-I-DDWS/30	03-09-2024	36,583.35				0	35,729.74				-

From 2022-23, the Centre's share was directly credited to the JJM Escrow Account (SNA Account).

Appendix 5.1

(Reference: Paragraph 5.2.3 (i); Page 38)

Details of available infrastructure and shortfall in laboratories

Sl. No.	Type of infrastructure/equipment	Number of laboratories having required infrastructure	Number of Laboratories ¹ not having required infrastructure	
			In numbers	In per cent
1	Total space (at least 25 sq.mt)	4	14	78
2	Computers	17	1	6
3	Internet facility	14	4	22
4	UPS	5	13	72
5	Invertors	5	13	72
6	Printer	12	6	33
7	Telephone facility	5	13	72
8	Fax	1	17	94
9	Air conditioner	18	0	0
10	Fume Hood	2	16	89
11	Gas connection	9	9	50

(Source: Details furnished by TWAD Board divisions)

¹ These figures include six districts and 11 sub-district laboratories.

Appendix 5.2

(Reference: Paragraph 5.2.3 (ii); Page 38)

Shortfall of equipment in laboratories of selected districts

Sl. No.	Equipment Required	Laboratories (in numbers)	
		Having required equipment	Not having required equipment (in per cent)
1	pH meter	18	0
2	TDS/ Conductivity meter	18	0
3	Nephelometer (Turbidimeter)	17	1 (5.55)
4	Digital Balance	18	0
5	UV- Visible spectrometer [#]	7	0
6	Refrigerator	18	0
7	Water Still	13	5 (38.46)
8	Voltage stabilizer/ Inverters	9	9 (50)
9	Hot Plate	17	1 (5.55)
10	Heating mantle	3	15 (83.33)
11	Water bath	17	1 (5.55)
12	Hot air oven	18	0
13	Bacteriological incubator	18	0
14	Autoclave	9	9 (50)
15	Magnetic stirrer	4	14 (77.77)
16	Microscope [#]	3	4 (57.14)
17	Vacuum pump	9	9 (50)
18	Atomic Absorption Spectrophotometer (AAS) with electrode lamp ^s	1	0
19	Inductively coupled plasma- optical emission spectrometry (ICP-OES)/mass spectrometry (MS) ^s	0	1 (100)
20	UV laminar Air flow chamber for bacteriological analysis	12	6 (33.33)
21	Plate count and colony counter	12	6 (33.33)
22	Arsenic Testing Instrumentation (portable) [#]	1	6 (85.71)
23	Hydride generator with all accessories ^s	0	1 (100)
24	DO meter	2	16 (88.89)
25	Cool box with icepacks	8	10 (55.55)

Sl. No.	Equipment Required	Laboratories (in numbers)	
		Having required equipment	Not having required equipment (in per cent)
26	Specific Ion meter along with electrodes (for Fluoride)	2	16 (88.88)
27	Fume coup board	1	17 (94.44)
28	GC-MS / HPLC/ LC-MS ^{\$}	0	1 (100)
29	Auto burette and auto pipette	0	18 (100)
30	Uranium analyser ^{\$}	0	1 (100)
31	Thermometers	17	1 (5.55)
32	Single Stage distillation apparatus	6	12 (66.67)
33	Double distillation Apparatus/Ultrapur Water Purification System to provide type I/type II water for sophisticated instruments	0	18 (100)
34	Argon, Nitrogen, Hydrogen Helium & Oxygen Gas Cylinders (To be used with AAS/ Advanced Spectrophotometer)/ICP-MS/ OES [#]	1	6 (85.71)
35	Kjeldal distillation apparatus [#]	1	6 (85.71)
36	Pressure Pump [#]	1	6 (85.71)
37	Membrane filtration	15	3 (16.67)
38	PCR machine ^{\$}	0	1 (100)
39	Deep freezer (-20 degrees C) ^{\$}	0	1 (100)
40	Micropipette ^{\$}	0	1 (100)
41	Centrifuge [#]	2	5 (71.43)
42	Redflux Apparatus/ COD digester ^{\$}	1	0
43	Ion Chromatograph ^{\$}	0	1 (100)

Not applicable for sub-division/block laboratory

\$ Applicable only for State laboratory

Appendix 6.1

(Reference: Paragraph 6.1.1; Page 44)

Excess expenditure on account of incorrect application of the rates for pipes

Block	Thalanayar					Keelaiyur					Thiru marugal	Excess Amount (in ₹)
Village Panchayat	Naluvadhpathy			Kovilpathu		Vettaikkaraniruppu		Pudupalli		Prathabaramapuram	Polagam	
Habitation	Naidu Street	Mookachi Theru	Naluvadhpathy	Yathavar Street	Mela kadu	Therkku Salli kulam	Kandiyan kadu	Mela puthu palli Therkku	Keela pudu palli Vadakku	Poochi theru	Kuthapattar Thoppu	
FHTC Estimated (Numbers)	108	234	86	121	118	144	96	218	192	259	45	
FHTC Completed (Numbers)	108	234	86	121	118	144	96	181	155	189	66	
FHTC PVC pipe length as per Bill (metre)	324	702	309.6	435.6	436	1,152	768	1,448	1,240	1,512	528	
PVC Pipe (25mm) rate per meter as per bill (₹)	43.25	43.25	43.25	43.25	43.25	43	43	43	43	43.2	43	
PVC Pipe (25mm) total cost as per bill per work (₹)	14,013.00	30,361.50	13,390.20	18,839.70	18,857.00	49,536.00	33,024.00	62,264.00	53,320	65,318.40	22,704.00	3,81,627.80
PVC Pipe (20mm) cost per work @ ₹25.30/m (₹)	8,197.20	17,760.60	7,832.88	11,020.68	11,030.80	29,145.60	19,430.40	36,634.40	31,372	38,253.60	13,358.40	2,24,036.60
Excess expenditure (₹)	5,815.80	12,600.90	5,557.32	7,819.02	7,826.20	20,390.40	13,593.60	25,629.60	21,948	27,064.80	9,345.60	1,57,591.00

Appendix 6.2

(Reference: Paragraph 6.1.2; Page 45)

DPR charges incorrectly included as part of the works expenditure

(₹ in lakh)

Sl. No.	Name of the work	Estimate cost	DPR Charges paid to the contractor	
			As per Estimate	As per CR
1	Providing Extension of pipeline with FHTC at Kattoorani Village in Peravoor Panchayat	37.33	0.488	0.488
2	Construction of 60,000 lit Capacity of OHT Tank at Kattoorani Village in Peravoor Panchayat	22.32	0.292	0.292
3	Construction of 30,000 lit Capacity Of OHT Tank and Providing Extension of pipeline with FHTC at MGR Nagar in Peravoor Panchayat	33.45	0.437	0.437
4	Providing Extension of Pipeline work at Peyanvalasai in Therkkutharavai Panchayat	7.61	0.099	0.099
5	Providing Extension of pipeline with FHTC to South side of Athiyuthu village in Athiyuthu Panchayat	42.18	0.552	0.552
6	Providing Extension of pipeline with FHTC to North side of Athiyuthu village in Athiyuthu Panchayat	39.93	0.522	0.522
7	Providing Extension of pipeline with FHTC at Kovilkarai village in Athiyuthu Panchayat	12.84	0.168	0.168
8	Construction Of 30,000 lit Capacity Of OHT tank and Providing Extension of pipeline with FHTC at Eraniyanvalasai village in Athiyuthu Panchayat	35.14	0.000	0.000
9	Providing EPL with FHTC at Avarenthal	4.20	0.055	0.043
10	Providing EPL with FHTC at Chithaloor	6.84	0.090	0.090
11	Providing EPL with FHTC at Nettanenthal	4.35	0.057	0.051
12	Providing EPL with FHTC at Pulichavayal	4.43	0.057	0.057

(₹ in lakh)

Sl. No.	Name of the work	Estimate cost	DPR Charges paid to the contractor	
			As per Estimate	As per CR
13	Construction of 30,000 litre OHT and Providing Extension of Pipeline with FHTC at Keezhamankundu in Thamaraikulam panchayat (2,750 m)	28.86	0.378	0.378
14	Construction of 60000 litres OHT sump and Providing Extension of Pipeline with FHTC at Melamankundu in Thamaraikulam panchayat (1,300 m)	22.21	0.291	0.291
15	Construction of 30,000 Lit OHT Tank and extension of pipeline with FHTC at Thargavalasai in Enmanankondan panchayat	30.27	0.396	0.396
16	Construction of 30,000 Lit OHT Tank and providing extension of pipeline with FHTC at Enmanamkondan in Enmanankondan panchayat	31.48	0.412	0.412
17	Construction of 30,000 litres OHT and Providing Extension of Pipeline with FHTC at Thuthivalasai in Enmanankondan Panchayat (5,500m)	46.98	0.615	0.615
18	Providing Extension of Pipeline with FHTC at samythoppu (1,900 m)	9.56	0.125	0.125
19	Providing Extension of Pipeline with FHTC at Krishnapuram colony in Alagankulam Panchayat (1,800 m)	7.85	0.102	0.102
20	Providing Extension of Pipeline with FHTC at Aththanvalavu in Valantharavai Panchayat (580 m)	2.83	0.036	0.036
21	Construction of 10,000 Lit OHT Tank and providing extension of pipeline with FHTC at Keerippoorvalasai in Valantharavai Panchayat	10.36	0.135	0.135
22	Construction of 10,000 Lit OHT Tank and providing extension of pipeline with FHTC at Alam in Valantharavai Panchayat	6.80	0.089	0.089
23	Construction of 10,000 litres OHT and Providing Extension of Pipeline with FHTC at Vadakkuvalasai in Rettaiyoorani Panchayat (360 m)	7.34	0.096	0.096

(₹ in lakh)

Sl. No.	Name of the work	Estimate cost	DPR Charges paid to the contractor	
			As per Estimate	As per CR
24	Providing Extension of Pipeline with FHTC at Ilaingaimedu in Kuyavankudi Panchayat (530 m)	3.10	0.040	0.040
25	Providing Extension of Pipeline with FHTC at Aranganvalasai in Kuyavankudi Panchayat (650 m)	3.43	0.044	0.044
26	Providing Extension of Pipeline with FHTC at AD colony in Kuyavankudi Panchayat (120 m)	2.54	0.033	0.033
27	Providing Extension of Pipeline with FHTC at Kuppanivalasai in Kuyavankudi Panchayat (550 m)	4.89	0.063	0.063
28	Construction of 10,000 Lit OHT Tank and providing extension of pipeline with FHTC at Samayanvalasai in Kuyavankudi Panchayat	12.29	0.160	0.160
29	Construction of 10,000 litres OHT and Providing Extension of Pipelinewith FHTC at Muniyanvalasai in Kuyavankudi Panchayat (400 m)	20.33	0.266	0.266
30	Providing Extension of Pipeline with FHTC at Muttanvalasai in Keelanagachi Panchayat (1,400 m)	6.01	0.078	0.074
31	Providing Extension of Pipeline with FHTC at Naduvalasai in Keelanagachi Panchayat (1,250 m)	5.80	0.075	0.075
32	Providing Extension of Pipeline with FHTC at Kattakaravalasai in Keelanagachi Panchayat (2,800 m)	9.60	0.125	0.117
33	Providing Extension of Pipeline with FHTC at Thoppuvalasai in Keelanagachi Panchayat (820 m)	5.76	0.075	0.072
34	Providing Extension of Pipeline with FHTC at Vathiyarkudieruppu in Keelanagachi Panchayat (3,300 m)	12.28	0.160	0.146
35	Construction of 10,000 Lit OHT Tank and providing pipeline extension with FHTC at Annanagar in Keelanagachi Panchayat	11.50	0.150	0.069

(₹ in lakh)

Sl. No.	Name of the work	Estimate cost	DPR Charges paid to the contractor	
			As per Estimate	As per CR
36	Construction of 60,000 litre OHT Sump and providing pipeline extension with FHTC at Thoppukattuvalasai in Keelanagachi panchayat	15.46	0.202	0.182
37	Construction of 10,000 litres OHT and Providing Extension of Pipeline with FHTC at Panavaikootam in Keelanagachi Panchayat (5,000 m)	33.16	0.434	0.362
38	Providing Extension of Pipeline with FHTC at Kadukaivalasai in Manankudi Panchayat (800 m)	6.03	0.078	0.078
39	Providing Extension of Pipeline with FHTC at Kunduthi in Pudumadam Panchayat (650 m)	5.45	0.071	0.071
40	Providing Extension of Pipeline with FHTC at Thenkadarkarai in vedalai Panchayat (1,200 m)	7.48	0.084	0.084
41	Providing Extension of Pipeline with FHTC at Annanagar Pamban Panchayat (650 m)	3.83	0.050	0.050
42	Providing Extension of Pipeline with FHTC at Pananthoppu Pamban Panchayat (900 m)	7.38	0.096	0.096
43	Construction of 10,000 lit OHT and Providing Extension of Pipeline with FHTC 143 nos at Thenpoduvakudi	22.18	0.288	0.288
44	Construction of 10,000 lit OHT and Providing Extension of Pipeline with FHTC 7 nos at Vagaiyendhal	5.69	0.073	0.073
45	Providing Extension of Pipeline Construction of 10,000 lit OHT with FHTC 48nos at Idaiyathur	8.61	0.111	0.109
46	Providing Extension of Pipeline with FHTC 6 nos at Nanduppatti	1.58	0.019	0.019
47	Providing Extension of Pipeline with FHTC 10 nos at Kulasekara alvarpuram	1.79	0.022	0.021

(₹ in lakh)

Sl. No.	Name of the work	Estimate cost	DPR Charges paid to the contractor	
			As per Estimate	As per CR
48	Construction of Open Well and 30,000 litre OHT, Pump room, Pumping main line and Extension of Pipeline(1,500 m) with functional house hold connections at Silayappan Valasai	33.74	0.441	0.441
49	Providing Pumping main line and Extension of Pipeline(1,500 m) with functional house hold connections at Nadar Kudiyirippu	8.06	0.105	0.105
50	Construction of 30,000 litre OHT, Pumping main line and Extension of Pipeline(1,500 m) with functional house hold connections at Kaakayan Valasai	16.18	0.211	0.211
51	Construction of 10,000 lit. OHT & providing FHTC	14.55	0.135	0.135
52	Construction of 10,000 lit. OHT & providing FHTC	14.82	0.194	0.194
53	Providing FHTC	16.70	0.200	0.200
54	Providing FHTC, 150 dia bore well and 10,000 lit. OHT (2 Nos.)	29.53	0.367	0.280
55	Providing FHTC, Pumping main Line, Construction of 30,000 Litre OHT and Extension of Pipe Line	40.48	0.530	0.530
56	Providing FHTC, Pumping main Line and Extension of Pipe Line	7.26	0.094	0.094
57	Providing FHTC, Pumping main Line, Construction of 30,000 Litre OHT and Extension of Pipe Line	23.18	0.303	0.303
58	Providing FHTC, Pumping main Line and Extension of Pipe Line	10.81	0.141	0.136
59	Providing FHTC, Pumping main Line, Construction of 30,000 Litre OHT and Extension of Pipe Line	24.82	0.303	0.303
60	Providing FHTC, Pumping main Line, 30,000 Lit. OHT and Extension of Pipeline at Sathankulam in Kuyavankudi Panchayat	36.82	0.482	0.482
61	Providing FHTC, Pumping main Line, 30,000 Lit OHT and Extension of Pipeline at Akkamadam in Pamban Panchayat	36.75	0.481	0.481

(₹ in lakh)

Sl. No.	Name of the work	Estimate cost	DPR Charges paid to the contractor	
			As per Estimate	As per CR
62	Providing FHTC, Pumping main Line, 10,000 Lit. OHT and Extension of Pipeline at Muthrayan nagar in Valanthuravai Panchayat	10.70	0.139	0.132
63	Providing FHTC, Pumping main Line, Bore Well and Extension of Pipeline at Munusuvalasai in Valanthuravai Panchayat	29.02	0.388	0.388
64	Providing FHTC, Pumping main Line, Bore Well and Extension of Pipeline at Ammankovil in Valanthuravai Panchayat	33.67	0.440	0.440
65	Providing FHTC, Pumping main Line, 10,000 Lit. OHT and Extension of Pipeline at Kenikaraivalasai in Keelanagachi Panchayat	15.51	0.203	0.203
66	Providing FHTC, Pumping main Line, 30,000 Lit. OHT and Extension of Pipeline at Kalkinatravalasai in Keelanagachi Panchayat	34.06	0.446	0.446
67	Providing FHTC and Extension of Pipeline at Bharathinagar in Alagankulam Panchayat	25.73	0.337	0.337
68	Providing FHTC, Pumping main Line and Extension of Pipeline at Nochivadi in Thangachimadam Panchayat	12.07	0.158	0.158
69	Providing FHTC, Pumping main Line, 30,000 Lit. OHT and Extension of Pipeline at Ammapattinam in Pudumadam Panchayat	33.68	0.441	0.441
70	Providing FHTC, Pumping main Line and Extension of Pipeline at Madasamykovil in Therbogi Panchayat	19.78	0.258	0.258
71	Providing FHTC, Pumping main Line and Extension of Pipeline at Nallathambivalasai in Therbogi Panchayat	15.33	0.200	0.200

(₹ in lakh)

Sl. No.	Name of the work	Estimate cost	DPR Charges paid to the contractor	
			As per Estimate	As per CR
72	Providing FHTC, Pumping main Line, Bore Well and Extension of Pipeline at Polayan nagar in Valantharavai Panchayat	28.40	0.371	0.366
73	Providing FHTC, borewell, Pumping main Line and Extension of Pipeline at Therkoor Colony in Valantharavai panchayat	30.30	0.396	0.381
74	Providing FHTC, Pumping main Line, 10,000 Lit. OHT and Extension of Pipeline at Seelivalasai in Valantharavai panchayat	10.89	0.142	0.142
75	Providing Extension of Pipeline and 10,000 lit OHT at Muttanvalasai in keelanagazhi Panchayat	7.73	0.808	0.808
76	Providing Extension of Pipeline and 10,000 lit OHT at Naduvalasai in keelanagazhi Panchayat	7.73	0.101	0.101
77	Providing Extension of Pipeline and 10,000 lit OHT at thoppuvalasai in keelanagazhi Panchayat	13.23	0.173	0.173
78	Providing Extension of Pipeline and 10,000 lit OHT at Vathiyar kudieruppu in keelanagazhi Panchayat	9.46	0.124	0.124
79	Providing Extension of Pipeline and 10,000 lit OHT at thoppukattuvalasai in Keelanagachi panchayat.	7.73	0.101	0.101
Total			17.504	17.171

Appendix 7.1

(Reference: Paragraph 7.2.4.1; Page 52)

Details of FHTCs installed outside the house in selected districts

District	Name of the Block	Number of FHTCs provided under JJM	Number of FHTCs installed outside the house
Coimbatore	Karamadai	50,128	50,128
	Kinathukadavu	23,223	23,223
Nagapattinam	Thirumarugal	9,050	9,050
	Vedaranyam	15,532	15,532
Ramanathapuram	Thiruppulani	14,817	14,817
	Thiruvadanai	8,120	8,120
Salem	Kolathur	23,630	23,630
	Peddanaikenpalayam	22,300	22,300
Theni	Bodinayakanur	24,847	22,491
	Uthamapalayam	16,435	14,896
Viluppuram	Gingee	32,287	29,071
	Vikravandi	29,276	26,355
Total		2,69,645	2,59,613

(Source: Details furnished by DRDAs)

Glossary of Abbreviations

Abbreviations	Full Form
AAP	Annual Action Plan
AEE	Assistant Executive Engineer
BDOs	Block Development Officers
CE	Chief Engineer
CPHEEO	Central Public Health and Environmental Engineering Organisation
CR	Completion Reports
CWSS	Combined Water Supply Scheme
DAP	District Action Plan
DDWS	Department of Drinking Water and Sanitation
DPR	Detailed Project Report
DRDAs	District Rural Development Agencies
DWSM	District Water and Sanitation Mission
EMD	Earnest Money Deposit
EPL	Extension of Pipe Line length
FGD	Focused Group Discussion
FHTC	Functional Household Tap Connection
FTKs	Field Test Kits
GLRs	Ground Level Reservoirs
GoI	Government of India
GoTN	Government of Tamil Nadu
HGJ	<i>Har Ghar Jal</i>
IEC	Information, Education and Communication
IMIS	Integrated Management Information System
JJM	Jal Jeevan Mission
JPV	Joint Physical Verification
LoA	Letter of Acceptance
LWF	Labour Welfare Fund
MA&WS Department	Municipal Administration and Water Supply Department

Abbreviations	Full Form
MVS	Multi Village Scheme
NABL	National Accreditation Board for Testing and Calibration Laboratories
NH	National Highways
O&M	Operation and Maintenance
OHTs	Over Head Tanks
RD&PR Department	Rural Development and Panchayat Raj Department
RO	Reverse Osmosis
SAP	State Action Plan
SHGs	Self Help Groups
SLSSC	State Level Scheme Sanctioning Committee
SNA	Single Nodal Account
SVS	Single Village Scheme
SWSM	State Water and Sanitation Mission
TPIAs	Third Party Inspection Agencies
TWAD Board	Tamil Nadu Water Supply and Drainage Board
UDWQMP	Uniform Drinking Water Quality Monitoring Protocol
VAP	Village Action Plan
VP	Village Panchayat
VWSC	Village Water and Sanitation Committee
WQM&S	Water Quality Monitoring and Surveillance
ZBR	Zonal Balancing Reservoir