

## Appendix 1.1

### Details of sample selection

(Reference: Paragraph 1.4, Page 2)

District	Block Panchayat	Grama Panchayat
<b>Kollam</b>	Chavara	Chavara, Neendakara, Panmana and Thevalakkara
	Chittumala	Kundara, Munroethuruth, Panayam and Perayam
<b>Palakkad</b>	Attappady	Agali, Pudur and Sholayur
	Kollengode	Kollengode, Pattanchery, Pudunagaram and Vadavannur
<b>Kozhikode</b>	Kozhikode	Kadalundi and Olavanna
	Melady	Keezhariyur, Meppayur, Thikkodi and Thurayur

### Appendix 3.1

#### Details of release of funds by GoI and GoK

(Reference: Paragraphs 3.1.2, 3.2.1 and 3.3, Pages 18, 20 and 22)

(₹ in crore)

Year	GoI allocation	Date of order of release of GoI share	Description	Amount released by GoI	Total	Date of GO of GoK release	Amount released by GoK	Total	Short release by GoI against allocation	Delay in issue of GO for release (in days)
1	2	3	4	5	6	7	8	9	10= (2) – (6)	11
2019-20	248.76	28.08.2019	First instalment	101.29	101.29	04.12.2019	50.00	50.00	147.47	83
						08.06.2020	51.29	270		
						29.06.2020	101.29	291		
2020-21	404.24	30.05.2020	Part of first tranche of first instalment	72.16	303.18	06.11.2020	144.32	758.94	101.06	145
		22.01.2021	Balance of first tranche of first instalment	28.90		03.02.2021	57.80			Within permissible time
		18.02.2021	Second tranche of first instalment	101.06		23.02.2021	202.12			-do-
		15.03.2021	First tranche of second instalment	101.06		16.03.2021	202.12			-do-
2021-22	1804.59	13.05.2021	First tranche of first instalment	451.15	1353.45	31.05.2021	902.30	1804.60	451.14	3
		18.11.2021	Second tranche of first instalment	451.15		04.12.2021	451.15			1
		13.01.2022	First tranche of second instalment	451.15		09.02.2022	451.15			12
2022-23	2206.54	25.07.2022	First tranche of first instalment	551.64	2206.54	16.08.2022	538.76*	1616.29	0	7
		01.12.2022	Second tranche of first instalment	551.64		16.12.2022	538.76*			Within permissible time
		14.02.2023	First tranche of second instalment	551.63		15.03.2023	538.76*			14
		31.03.2023	Second tranche of second instalment	551.63		25.05.2023	551.64			40
2023-24	1342.36	28.07.2023	First tranche of first instalment	335.59	671.18	25.09.2023	327.76*	1207.15	671.18	44
		31.10.2023	Second tranche of first instalment	335.59		11.12.2023	327.76*			26
<b>Total</b>	<b>6006.49</b>				<b>4635.64</b>				<b>1370.85</b>	

\*The disparity between the GoI and GoK shares was due to the reckoning of fund sharing pattern for Support activities and WQMS activities, which was in the ratio 60:40

## Appendix 3.2

## Details of road restoration charges deposited to PMGSY

(Reference: Paragraph 3.4, Page 22)

(₹ in lakh)

Package No	Road	Restoration charges	GST	Total	Amount paid by KWA
KR10-74	Chemmankad-Namballam	29.93	5.39	35.32	33.20
KR10-85	Karakkuth-Manjambra	119.72	21.55	141.27	141.26
KR10-88	Poriyani Kayyara Arimani Dhoni	39.15	7.05	46.20	45.07
KR10-67	Kottayi Pulinelli Kariyamkode	27.88	5.02	32.90	32.90
KR10-61	Moochamkund Mandipathy	50.13	9.02	59.15	59.16
KR10-22	Pappanchalla Chemmanamthode	41.96	7.55	49.51	49.51
KR10-46	Pilamaram Narasimukku	42.47	7.65	50.12	50.12
KR10-49	Goolikkadavu Pattimalam	30.50	5.49	35.99	35.99
KR10-60	Thavalam Parappanthara	66.05	11.89	77.94	77.94
KR10-87	Kallapadi Kunduvampadam Vadassery	36.56	6.58	43.14	43.14
	<b>Total</b>	<b>484.35</b>	<b>87.19</b>	<b>571.54</b>	<b>568.29</b>

### Appendix 3.3

#### Share of expenditure on schemes in test-checked GPs

(Reference: Paragraph 3.5, Page 23)

Sl. No.	Name of Scheme	Scheme ID	Service level (lpcd)	GoI Expenditure (₹ in lakh)	GoK Expenditure (₹ in lakh)
1	JJM Jananidhi Chavara GP Chavara Panmana Tsunami Rehabilitation scheme	30079245	100	13.03	13.03
2	JJM Perinad Panayam & Thrikkaruva GPs WSS to Thrikkaruva, Panayam, Perinad and Munroethuruth	30113935	100	479.19	479.19
3	JJM - WSS to Agali Panchayat - CWPM, CWGM, construction of 11LL GLSR at Plamaram, 6LL GLSR at Munimala, 6LL GLSR cum BPT, Supplying, laying distribution system and providing FHTCs - 7000 nos	30127472	100	1,124.27	1,124.27
4	JJM - WSS to Pudur Panchayat - CWPM, CWGM, 5LL GLSR at Ranganathapuram, 2LL GLSR at Kulappadika, 1LL GLSR at Mele Abbannur, 1.5LL Sump cum pump house at Padavayal, 1.5LL Sump cum pump house at Bommiyampathi, Supplying, laying distribution system and providing 2000 nos, Bridge crossing, river crossing	30128091	100	146.15	146.15
5	JJM- WSS to Sholayur Panchayat - CWGM, construction of GLSR 3LL and booster pump house, Supplying, laying distribution system and providing FHTCs -1000 nos	30128069	100	292.63	292.63
6	JJM Kollengode GP WSS to Kollengode Panchayat	30063346	100	5.95	5.95
7	JJM Peruvemba GP Augmentation of WSS to Peruvemba Panchayat (6 <sup>th</sup> SLSCC approval)	30249335	100	0.63	0.63
8	JJM-2021-22 Koduvayur & Pudunagaram GPs - Augmentation of CWSS to Koduvayur and Pudunagaram Grama Panchayats in Nenmara constituency in Palakkad District	30126023	100	3.40	3.40
9	Jal Jeevan Mission providing FHTCs for Vadavannur Grama Panchayat	30125948	100	453.11	453.11
10	JJM Kadalundi GP WSS to Kadalundi Grama Panchayat Phase II	30061464	100	84.60	84.60
11	JJM Olavanna GP WSS to Olavanna Panchayat	30210711	100	247.82	247.82
12	JJM Olavanna GP Providing FHTCs in Olavanna Panchayat Phase 2	30040957	100	463.05	463.05
13	JJM Olavanna GP Retrofitting JICA Assisted KWSP Kozhikode City and adjoining villages	8157520	70	14.24	14.24
14	JJM WSS to Uliyeri, Kayanna, Atholi, Chengottukavu, Chemanchery, Arikkulam, Moodadi, Nochad, Keezhariyur, Meppayur, Changaroth, Koothali, Panangad, Koorachund and Thikkodi GPs Phase 2	30058978	100	19,578.39	19,577.21

## Appendix 3.4

## Details of payment of Centage Charges

(Reference: Paragraph 3.6, Page 23)

Year	Name of Division	Expenditure on road restoration (₹ in lakh)	Centage charges paid out of GoI funds (₹ in lakh)
2020-21	Public Health Division, Kollam	6.51	0.72
	Public Health Division, Palakkad	5.50	0.61
	Project Division, Kozhikode	320.13	35.57
	<b>Total</b>	<b>332.14</b>	<b>36.90</b>
2021-22	Public Health Division, Kottarakkara	799.51	88.83
	Public Health Division, Kollam	86.71	9.63
	Public Health Division, Kozhikode	185.65	20.63
	Public Health Division, Palakkad	47.13	5.24
	Public Health Division, Vadakara	1,295.21	143.91
	Project Division, Chittur	4,844.95	538.33
	Project Division, Kollam	3,934.73	437.19
	Project Division, Kozhikode	1,589.20	176.58
	Project Division, Palakkad	3,159.53	351.06
<b>Total</b>	<b>15,942.62</b>	<b>1,771.40</b>	
2022-23	Public Health Division, Kollam	74.27	8.25
	Public Health Division, Kozhikode	2,212.55	245.84
	Project Division, Kozhikode	0.56	0.06
	<b>Total</b>	<b>2,287.38</b>	<b>254.15</b>
2023-24	Public Health Division, Kottarakkara	173.90	21.06
	Public Health Division, Kollam	420.13	50.88
	Public Health Division, Kozhikode	225.07	27.26
	Public Health Division, Palakkad	0.98	0.12
	Public Health Division, Vadakara	468.44	56.73
	Project Division, Chittur	108.66	13.16
	Project Division, Kollam	777.15	94.12
	Project Division, Kozhikode	804.77	97.47
	Project Division, Palakkad	395.99	47.96
<b>Total</b>	<b>3,375.09</b>	<b>408.76</b>	
<b>Grand Total</b>		<b>21,937.23</b>	<b>2,471.21</b>

### Appendix 4.1

#### Details of extra liability to KWA due to irregular rate revision

(Reference: Paragraph 4.4.3, Page 38)

Work	TPAC	Bid opening	1.LMR 2.DSR + 10 per cent 3.L1	Accepted PAC, if bid was finalized immediately after tender opening	1.LMR 2.DSR + 10 per cent 3.L1 after revision of rates	Final Accepted PAC with DSR 2018	Excess
Providing 26,689 FHTCs and distribution lines - Chelannur, Kuruvattur, Kakkodi, Thalakkulathur, Peruvayal, Olavanna, Kunnamangalam GPs	₹54.55 crore (DSR 2016)	11.06.2021	1. ₹72.06 crore 2. ₹74.45 crore 3. ₹81.83 crore	₹72.06 crore	1. ₹78.16 crore 2. ₹74.45 crore 3. ₹81.83 crore	₹74.45 crore	₹2.39 crore
Providing 37,273 FHTCs in Balussery, Kayakkodi, Kuttiyadi, Nadapuram, Nanminda, Naripatta, Thuneri, Valayam, Vanimel GPs	₹65.92 crore (DSR 2016)	11.06.2021	1. ₹93.54 crore 2. ₹95.20 crore 3. ₹98.89 crore	₹93.54 crore	1. ₹104.43 crore 2. ₹95.20 crore 3. ₹98.89 crore	₹95.20 crore	₹1.66 crore
<b>Total</b>							<b>₹4.05 crore</b>

## Appendix 4.2

## Details of polymer pipes stacked for a prolonged period\*

(Reference: Paragraph 4.4.4, Page 39)

Sl. No.	Name of work	Pipe details	Length of pipe	Rate / metre (in ₹)	Cost (₹ in lakh)	Period of idling of pipe	Agency	Reason for delay
1.	Jal Jeevan Mission (JJM)- Balance works in Nadapuram, Thuneri, Vanimel and Valayam Grama Panchayat - Balance work in Jal Jeevan Mission Nadapuram GP Zone 10 - Pipeline Work	140 mm 8kg/cm <sup>2</sup> PVC	1,300 m	817.05	10.62	1 year	PWD	Demand note not issued
2.	CWSS to Eramala and Adjoining Seven Panchayats in Kozhikode District - Construction and commissioning of 14 Lakh Litre (8 LL + 6 LL) capacity GLSR at Muliyanunnu, Laying distribution system and providing FHTCs in Edachery Grama Panchayat	90 mm 8kg/cm <sup>2</sup> PVC	43,690 m	327.8	143.22	1 year 5 months	PWD	Permission not obtained
		110 mm 8kg/cm <sup>2</sup> PVC	4,317 m	482.91	20.85			
		140 mm 8kg/cm <sup>2</sup> PVC	7,883 m	817.05	64.41			
		160 mm 8kg/cm <sup>2</sup> PVC	511 m	1039.81	5.31			
3.	Balance works in Nadapuram, Thuneri, Vanimel and Valayam Grama Panchayat - Balance work in Vanimel Grama Panchayat Zone 10 PWD right side	110 mm 8kg/cm <sup>2</sup> PVC	1,600 m	482.91	7.73	1 year	PWD	Permission denied from KSEB due to underground (UG) cable already laid on the road
4.	Jal Jeevan Mission (JJM) -CWSS to Eramala and Adjoining Seven Panchayats in Kozhikode District - Purameri Grama Panchayat - Rehabilitation of existing 6 Lakh Litres OHSR at Vilathapuram, Laying Distribution System and Providing FHTCs – Arur: Zone:2	90 mm 8kg/cm <sup>2</sup> PVC	1,000 m	327.8	3.28	1 year 6 months	PWD	Permission not obtained
5.	Ulliyeri, Moodadi and adjoining Panchayat in Kozhikode District Package V - Zone I - Providing Functional Household Tap Connection by laying new Distribution lines at Meppayur Grama Panchayat	90 mm 8kg/cm <sup>2</sup> PVC	8.60 km	327.8	28.19	1 year	PWD	Revised Demand note not issued
6.	Jal Jeevan Mission (JJM) - JJM-Phase 2 CWSS to Muppainad, Meppadi and Vythiri Panchayats in Wayanad District Phase II	90 mm 10kg/cm <sup>2</sup> PE	24.94 km	240.01	59.86	1.5 year	KRFB	Permission not received
		125 mm 10kg/cm <sup>2</sup> PE		456.95	113.96			
		160 mm 10kg/cm <sup>2</sup> PE		746.59	186.20			
<b>Total</b>					<b>643.63</b>			

\* Rates reckoned based on Technical Circular dated 30.04.2021

### Appendix 4.3

#### Details of non-empanelled firms/suppliers supplying materials in test-checked districts\*

(Reference: Paragraph 4.5.1, Page 39)

Name of work	Name of pipe supplier and date of testing	Class of pipe	Quantity (metre)	Market value of pipes (₹ in lakh)	Remarks
JJM 2020-21, FHTC at Olavanna, Chelannur, Kuruvattur etc.	Sathavahana 17.12.2022	DI K9 250 mm (₹2420.34/m)	2,000	48.41	Sathavahana not empanelled
JJM 2021-22, Phase2-Providing FHTC in Chelannur GP	Mangalam Pipes 29.08.2022	HDPE 20 mm PE 80 PN 16 (₹21.24/m)	30,000	6.37	Mangalam pipes empanelled only on 21.11.2023.
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Koothali	Apollo pipes 28.12.2022	PVC 90 mm (10Kg) (₹306.84/m)	44,076	135.24	Apollo pipes empanelled only on 21.11.2023.
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Koothali	Apollo pipes 28.12.2022	PVC 90 mm (8Kg) (₹254/m)	36,866	93.64	Appollo pipes empanelled only on 21.11.2023.
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Koothali	Apollo pipes 28.12.2022	PVC 140 mm (10Kg) (₹744.55/m)	5,657	42.12	Apollo pipes empanelled only on 21.11.2023.
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Koothali	Apollo pipes 28.12.2022	PVC 140 mm (8Kg) (₹617/m)	2,615	16.13	Apollo pipes empanelled only on 21.11.2023.
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Koothali	Apollo pipes 28.12.2022	PVC 160 mm (10Kg) (₹980/m)	8,778	86.02	Apollo pipes empanelled only on 21.11.2023.
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Koothali	Apollo pipes 28.12.2022	PVC 160 mm (8Kg) (₹805/m)	1,768	14.23	Apollo pipes empanelled only on 21.11.2023.
JJM WSS to Chathamangalam FHTC in Puthuppadi	Apollo pipes 01.08.2023	GI medium 100 mm (₹1155/m)	2,370	27.37	Apollo pipes not empanelled to supply GI
JJM WSS to Chathamangalam FHTC in Puthuppadi	Apollo pipes 01.08.2023	GI medium 80 mm (₹785.03/m)	1,330	10.44	Apollo pipes not empanelled to supply GI
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Panangad	Sri Renukamba pipes 04.02.2023	HDPE 90 mm PE 100 PN10 (₹227.8/m)	1,28,452	292.61	Sri Renukamba pipes not empanelled
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Panangad	Sri Renukamba pipes 04.02.2023	HDPE 90 mm PE 100 PN12.5 (₹271.32/m)	9,841	26.70	Sri Renukamba pipes not empanelled
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Panangad	Sri Renukamba pipes 04.02.2023	HDPE 90 mm PE 100 PN16 (₹323.79/m)	12,851	41.61	Sri Renukamba pipes not empanelled
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Panangad	Sri Renukamba pipes 04.02.2023	HDPE 110 mm PE 100 PN10 (₹331.95/m)	4,812	15.97	Sri Renukamba pipes not empanelled
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Panangad	Sri Renukamba pipes 04.02.2023	HDPE 125 mm PE 100 PN10 (₹440.46/m)	4,948	21.79	Sri Renukamba pipes not empanelled
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Panangad	Sri Renukamba pipes 04.02.2023	HDPE 125 mm PE 100 PN12.5 (₹535.87/m)	1,371	7.35	Sri Renukamba pipes not empanelled

Name of work	Name of pipe supplier and date of testing	Class of pipe	Quantity (metre)	Market value of pipes (₹ in lakh)	Remarks
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Panangad	Sri Renukamba pipes 04.02.2023	HDPE 125 mm PE 100 PN 16 (₹636.51/m)	1,070	6.81	Sri Renukamba pipes not empanelled
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Panangad	Sri Renukamba pipes 04.02.2023	HDPE 140 mm PE 100 PN 10 (₹552.86/m)	508	2.81	Sri Renukamba pipes not empanelled
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Panangad	Sri Renukamba pipes 04.02.2023	HDPE 160 mm PE 100 PN 10 (₹724.08/m)	772	5.59	Sri Renukamba pipes not empanelled
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Panangad	Sri Renukamba pipes 04.02.2023	HDPE 160 mm PE 100 PN 16 (₹1044.29/m)	94	0.98	Sri Renukamba pipes not empanelled
JJM 2021-22. WSS to Ulliyeri. Providing FHTC at Panangad	Sri Renukamba pipes 04.02.2023	HDPE 180 mm PE 100 PN 10 (₹916.21/m)	4,012	36.76	Sri Renukamba pipes not empanelled
JJM 2021-22, Supply, laying and commissioning in Panangad GP	Sri Renukamba pipes 24.05.2023	HDPE 180 mm PE 100 PN10 (₹916.21/m)	36,452	333.98	Sri Renukamba pipes not empanelled
JJM 21-22, CWSS to Peringottukurissi and Kuthannur Panchayats	Flowflex Industries 01.10.2022	HDPE 20 mm PE80 PN 16 (₹21.24/m)	23,000	4.89	Flowflex Industries not empanelled
JJM 2021-22, CWSS to Peringottukurissi and Kuthannur Panchayats	Flowflex Industries 01.10.2022	HDPE 63 mm PE100 PN10 (₹110.45/m)	3,600	3.98	Flowflex Industries not empanelled
JJM 2021-22, CWSS to Peringottukurissi and Kuthannur Panchayats	Flowflex Industries 01.10.2022	HDPE 75 mm PE100 PN10 (₹157.42/m)	6,000	9.45	Flowflex Industries not empanelled
JJM 2021-22, CWSS to Peringottukurissi and Kuthannur Panchayats	Flowflex Industries 01.10.2022	HDPE 90 mm PE100 PN10 (₹227.80/m)	4,500	10.25	Flowflex Industries not empanelled
<b>Total</b>				<b>1,301.51</b>	

\* Rates reckoned based on KWA market rates w.e.f. 06 November 2021

### Appendix 4.4

#### Details of road restoration charges paid in excess to PWD

(Reference: Paragraph 4.6.2, Page 41)

ROW Application Number and Name of Road	District	Amount remitted by KWA as per demand note of PWD based on circulars dated 30.03.2019 and 10.02.2023 (₹ in lakh)	Amount to be remitted if demand note of PWD was generated in PRICE 3.0 (₹ in lakh)	Amount remitted by KWA as excess road restoration charges to PWD (₹ in lakh)	Percentage of excess amount charged by PWD
ROW/1031483/37135 Perumboyl Kandothupara Road (km 0/000 to 4/000)	Kozhikode	220.19	136.08	84.11	61.81
ROW/1053249/60252 Chathamangalam - Chettikadavu Road (km 3/300 to 3/900)	Kozhikode	57.22	36.12	21.10	58.42
ROW/1042274/2022 Puthoormukku - Enathu Bridge (km 80/285 to 83/100)	Kollam	90.25	41.19	49.07	119.13
ROW/1027526 Padanayarkulangara – Karoorkadavu Road (km 1/770 – 2/750)	Kollam	60.19	34.40	25.79	74.97
ROW/1081919/90973 Naduvannur – Arikkulam - Iringath Road (km 6/430 to 10/730)	Kozhikode	367.76	225.58	142.17	63.02
<b>Total</b>		<b>795.61</b>	<b>473.37</b>	<b>322.24</b>	

(Source: KWA data)

**Appendix 5.1**  
**Comparison of Values in Test results of water samples collected by KWA**  
**QCD and tested at KWA and other Laboratories**

(Reference: Paragraph 5.3, Page 54)

District	Source of sample	Name of Laboratory in which sample was tested (Date)	Parameter / Units (Acceptable limits)				
			Fluoride	Iron	Total coliform (Shall not be detected/100ml)	Turbidity	Colour
			mg/l (1.0)	mg/l (1.0)		NTU (6.50 to 8.50)	CU <sup>69</sup> (5)
Kollam	Nenmeni Tubewell	QCDL Kollam (18.01.2025)	Less than 0.05	0.71	Absent	3.50	5
		QCDL Kollam (28.03.2025)	0.07	1.28	Absent	7.50	30
		CEPCI Kollam (28.03.2025)	0.20	0.20	Absent	2.20	Less than 1
	Nenmeni Tap water	QCDL Kollam (28.03.2025)	Less than 0.05	1.45	Absent	9.30	20
		CEPCI Kollam (28.03.2025)	0.1	0.10	Present	2.40	Less than 1
Palakkad	Tubewell, ST colony	QCDL Palakkad (24.04.2025)	0.2	0.01	Absent	0.25	5
		EMAL Lab, Palakkad (24.04.2025)	1	0.10	Absent	BDL <sup>70</sup>	BDL
	Open well	QCDL Palakkad (24.04.2025)	0.84	0.01	84	0.58	5
		EMAL Lab, Palakkad (24.04.2025)	0.80	0.10	Absent	BDL	BDL
Kozhikode	Anganwadi-14	QCDL Kozhikode (29.04.2025)	Not done	0.25	Absent	1.25	1
		CWRDM Lab, Kozhikode (29.04.2025)	Not done	BDL	Absent	0.40	Less than 1
	JIM Beneficiary	QCDL Kozhikode (29.04.2025)	Not done	0.19	Absent	0.86	Less than 1
		CWRDM Lab, Kozhikode (29.04.2025)	Not done	0.28	Present	3.20	2

<sup>69</sup> Colour Unit

<sup>70</sup> Below Detection Limit