



APPENDICES

Appendix 1.1
Statement showing number of approved projects and number of projects selected by Audit
(Reference: Paragraph 1.7, Page 4)

(₹ in crore)

Sl. No.	Name of ULB	Approved projects (as of March 2023)		Completed projects		Projects selected by audit for detailed scrutiny			
						Completed projects		Partially completed, abandoned/ cancelled projects	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount
1.	Thiruvananthapuram	278	366.89	244	243.99	35	174.28	33	122.20
2.	Kollam	68	329.30	46	67.81	19	41.72	21	167.88
3.	Kochi	99	274.35	85	131.38	28	74.78	14	157.78
4.	Thrissur	148	344.56	102	129.98	21	38.40	46	223.62
5.	Kozhikode	52	421.29	46	142.14	13	53.80	06	284.73
6.	Kannur	40	232.76	24	128.11	09	45.05	15	103.89
7.	Alappuzha	220	227.14	179	136.54	33	98.52	38	88.18
8.	Guruvayur	35	233.06	20	90.22	08	63.99	14	142.17
9.	Palakkad	155	228.53	130	192.58	24	62.36	25	36.88
	Total	1095	2657.88	876	1262.75	190	652.90	212	1327.33

(Source: Data furnished by SMMU)

Appendix 2.1
Details of SAAP wise duration and funds
(Reference: Paragraph 2.1.2, Page 8)

(₹ in crore)

Details of SAAP	Duration of SAAP	Water Supply	Sewerage	Storm Water Drainage	Urban Transport	Green Space and Parks	Total amount
SAAP I	2015-16	235.76	171.79	105.79	61.19	13.46	587.99
SAAP II	2016-17	354.81	216.65	120.35	88.79	15.46	796.06
SAAP III	2017-20	476.35	236.31	156.15	85.14	19.69	973.64
Total		1066.92	624.75	382.29	235.12	48.61	2357.69

(Source: Data furnished by SMMU)

Appendix 2.2
Details of projects abandoned/cancelled/delayed due to absence of
hindrance free land
(Reference: Paragraph 2.1.3.3, Page 16)

a) Abandoned projects

(₹ in lakh)

Sl. No.	Name of Project (Name of ULB)	Name of agency who prepared DPR	Project cost	DPR cost (DPR cost paid)	Remarks
Sewerage					
1.	Decentralized STP at Vasoorichira, Karikuzhi and Andamukkam (Kollam)	Ram Biologicals	1266	20.39 (16.31)	The project was abandoned due to public protest.
2.	Construction of 2.5 MLD STP at Thrissur (Thrissur)	Ram Biologicals	5340	120.15 (60.07)	As the proposed site was wetland, the proposal for conversion of the land was rejected by Government. There was no mention in the DPR regarding the non-suitability of the site.
3.	STPs at Kothi and Avikkal (Kozhikode)	Ram Biologicals	14000	170.09 (85.04)	The land identified required clearances from Kerala Coastal Zone Management Authority, Pollution Control Board and PWD. Clearances were not obtained. Meanwhile public protest arose and work was abandoned.
4.	Construction of STP at Guruvayur municipality (Guruvayur)	Ram Biologicals	450	9.90 (5.63)	As the proposed site was wetland, Agriculture department rejected the application for conversion of the land. There was no mention in the DPR regarding the non-suitability of the site.
5.	Construction of 270 KLD sewerage treatment plant at District Hospital (Palakkad)	Ram Biologicals	288	5.18 (@)	As the site mentioned in the DPR was not in conformity with the actual site condition, resulting in extensive revision of the estimate and contractor discontinued the work.
6.	800 KLD Sewage treatment plant and sewerage network at Sundaram Colony (Palakkad)	Ram Biologicals	920	16.56 (@)	As per letter dated 31 May 2021 of the KSPCB addressed to the Secretary, Palakkad Municipality, the proposed site shall have 30m distance from the nearest residential area and other buildings on all sides. This condition could not be satisfied.
	Total		22264	342.27 (167.05)	
Strom Water Drain					
7.	Storm water drain-Rajiv Gandhi Colony (Thiruvananthapuram)	KITCO	15	@	Connectivity of drain not planned.
8.	Storm water drain-Balan Nagar Road (Thiruvananthapuram)	KITCO	80	@	Connectivity of drain not planned.
9.	Storm water drain-Pozhikkara Near Boat Club (Thiruvananthapuram)	KITCO	21	@	Connectivity of drain not planned.

Sl. No.	Name of Project (Name of ULB)	Name of agency who prepared DPR	Project cost	DPR cost (DPR cost paid)	Remarks
10.	Storm water drain-Vayal Varambu Road (Thiruvananthapuram)	KITCO	29	@	Connectivity of drain not planned.
11.	Chunkam-West fort and 'Kuttanellur Government College-Shiva Temple (Thrissur)	KITCO	120	@	The drain construction works were cancelled due to lack of permission from PWD (PWD had proposed road widening).
12.	Construction of two new drains (Chirakkad-Aiswarya Nagar drain) (Palakkad)	Institute for Societal Advancement (ISA)	51	@	Project could not be carried out as the stretch of 100m of proposed drain was passing through a private land.
13.	Mythri Nagar- Haritha Nagar - KSRTC Link Road drain (Palakkad)	Institute for Societal Advancement (ISA)	26	@	Project could not be carried out as the small portion of the proposed drain was passing through a private land.
14.	Construction work of Parakunnam- Narikuthi drain (Palakkad)	Institute for Societal Advancement (ISA)	50	@	The work could not be taken up due to lack of permission from railway authorities. Permission required from Railway for construction on the proposed site was not envisaged in the DPR.
	Total		392	@	
Urban Transport					
15.	Construction of foot overbridge at Kadappakada (Kollam)	KITCO	70	0.98 (0.49)	The proposed location did not have enough space for constructing FOB as designed in the DPR, hence project dropped.
16.	Construction of foot overbridge at SN College Junction (Kollam)	KITCO	77	0.90 (0.45)	The proposed site was very close (7m) to railway track and hence permission was denied by Railway.
17.	Nirmala college to Aranattukara, (Thrissur)	KITCO	100	@	All the projects were cancelled as the permission was denied by PWD due to proposed road widening.
18.	Powerhouse-Viyyur Jail front Road (Thrissur)	KITCO	55	@	
19.	Viyyur Companippadi-Viyyur Bridge (Thrissur)	KITCO	20	@	
20.	Pattalakkinar - Alumveettuvazhi (Thrissur)	KITCO	58	@	
21.	Ollur Church-Convent Road (Thrissur)	KITCO	25	@	Non-availability of required width to proposed footpath.
22.	Construction of Riverside walkway along Kalpathy riverbank Part I (Palakkad)	KITCO	55	0.34 (@)	As private land has to be acquired for the construction of the walkway (210 m) the project was abandoned. DPR did not envisage acquisition of private land.
	Total		460	2.22 (0.94)	

Sl. No.	Name of Project (Name of ULB)	Name of agency who prepared DPR	Project cost	DPR cost (DPR cost paid)	Remarks
Green space and parks					
23.	Construction of Thanni park (Kollam)	KITCO	17	0.22 (0.11)	Construction of both the parks were cancelled as the land identified was puramboke (in the possession of PWD) and PWD denied permission.
24.	Construction of Thoppilkadav park (Kollam)	KITCO	56	0.72 (0.36)	
25.	Construction of Thirumullavaram ozhukkuthod (Kollam)	KITCO	57	0.74 (0.37)	The proposed location was the seashore and location was found unsuitable for construction of park.
26.	A R Menon Park (Palakkad)	Structures India	41	@	As proposed site did not get clearance from Archaeological Survey of India (ASI), Council decided to cancel the project. DPR did not envisage obtaining mandatory permissions from ASI.
27.	Development of new park at Payyambalam near cremation centre (Kannur)	Sureshbabu and Associates	68	0.97 (@)	Project was cancelled due to non-receipt of permission from KCZMA. DPR did not envisage obtaining mandatory permissions from KCZMA.
	Total		239	2.65 (0.84)	
	Grand total		23355	347.14 (168.83)	

@Figures not available

b) Projects delayed

(₹ in lakh)

Sl. No.	Name of Project (Name of ULB)	Name of agency who prepared DPR	Project cost	DPR cost (DPR cost paid)	Expenditure	Remarks
Sewerage						
1.	Construction of 100 KLD STP at Ramavarmapuram (Thrissur)	Ram Biologicals	350	6.97 (3.93)	Nil	Delay in getting permission from Irrigation department for the construction of a bridge across the canal to bring septage carrying vehicles, led to delay in construction of STP for the last six years. DPR did not envisage obtaining mandatory permissions from Irrigation department.
2.	100 KLD STP at Chelora (Kannur)	Ram Biologicals	420	6.20 (4.96)	80	The site identified for the project was a dumping yard and the DPR did not mention about the disposal of legacy waste available there. Consequently, the contractor backed out from the work due to change in scope and cost escalation. Another DPR was prepared with change in technology as the technology already suggested was not found suitable by the technical committee on 17 October 2022.

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3.	100 KLD septage treatment plant, Yakkara (Palakkad Medical College campus) (Palakkad)	Ram Biologicals	386	5.40 (@)	Nil	After the award of the work, due to protest by parent teacher association and other litigations, site was changed. This delayed the commencement of work and the contractor withdrew from the work.
	Total		1156	18.57 (8.89)	80	
Storm water drain						
4.	Drain construction work in Sakthikulangara (Kollam)	KITCO	71	0.92 @	70	Work partially completed as the balance land belongs to private party.
5.	Construction of drains in Vadakkevila-Eravipuram area (Kollam)	KITCO	178	2.32 (1.16)	169	Work was partially completed as the site condition varied from the DPR prepared.
6.	YMRC- Millath Colony drain (Kozhikode)	Institute for Societal Advancement	1067	7.25 (6.52)	525	As per the DPR, coconut piling was proposed for construction of 10 m (pile length). But during execution the requirement of coconut piling was assessed for 27,543m. Consequently, work was partially completed by reducing the scope (from two km to 700 m) and restrict the work, within administrative sanction.
	Total		1316	10.49 (7.68)	764	
Urban Transport						
7.	Yard at stadium bus terminal (Palakkad)	KITCO	185	1.85 (@)	12	Defects and lack of proper vision in the preparation of DPR resulted in change in structural design from isolated footings to pile foundation.
8.	Providing pedestrian network and bicycle tracks on both sides of college road (100 ft road) (Palakkad)	KITCO	730	7.38 (@)	572	Non preparation of design, drawings and estimates resulted in delay in execution of projects and preparation of detailed estimates by the LSGD Engineering wing of ULB.
9.	Victoria College to Anjuvilakku pedestrian network (Palakkad)	KITCO	248	2.53 (@)	180	
10.	Melamuri-Kalmandapam Foot path (Palakkad)	KITCO	260	2.77 (@)	96	
	Total		1423	14.53 (@)	860	
	Grand total		3895	43.59 (16.57)	1704	

@cost not available

(Source: Data furnished by SMMU and ULBs)

Appendix 2.3
DPRs prepared by M/s Ram Biologicals under sewerage/septage component
(Reference: Paragraph 2.1.3.3, Page 16)

a) Cancelled projects

(₹ in lakh)

Sl. No.	Name of Project (Name of ULB)	Project cost	DPR cost (DPR cost paid)	Remarks
1.	Decentralized STP at Vasoorchira, Karikuzhi and Andamukkam (Kollam)	1266	20.39 (16.31)	The project was abandoned due to public protest.
2.	Construction of 2.5 MLD STP at Thrissur (Thrissur)	5340	120.15 (60.07)	As the proposed site was wetland, the proposal for conversion of the land was rejected by Government. There was no mention in the DPR regarding the non-suitability of the site.
3.	STPs at Kothi and Avikkal (Kozhikode)	14000	170.09 (85.04)	The land identified required clearances from Kerala Coastal Zone Management Authority, Pollution Control Board and PWD. Clearances were not obtained. Meanwhile public protest arose and work was abandoned.
4.	Construction of STP at Guruvayur municipality (Guruvayur)	450	9.90 (5.63)	As the proposed site was wetland, Agriculture department rejected the application for conversion of the land. There was no mention in the DPR regarding the non-suitability of the site.
5.	Construction of 270 KLD sewerage treatment plant at District Hospital (Palakkad)	288	5.18 (@)	As the site mentioned in the DPR was not in conformity with the actual site condition, resulting in extensive revision of the estimate and contractor discontinued the work.
6.	800 KLD Sewage treatment plant & sewerage network at Sundaram Colony (Palakkad)	920	16.56 (@)	As per letter dated 31 May 2021 of the KSPCB addressed to the Secretary, Palakkad Municipality, the proposed site shall have 30m distance from the nearest residential area and other buildings on all sides. This condition could not be satisfied.
	Total	22264	342.27 (167.05)	

@Cost not available

b) Delayed projects

(₹ in lakh)

Sl. No.	Name of Project (Name of ULB)	Project cost	DPR cost (DPR cost paid)	Expenditure	Remarks
7.	Construction of 100 KLD STP at Ramavarnapuram (Thrissur)	350	6.97 (3.93)	Nil	Delay in getting permission from Irrigation department for the construction of a bridge across the canal to bring septage carrying vehicles, led to delay in construction of STP for the last six years. DPR did not envisage obtaining mandatory permissions from Irrigation department.

8.	100 KLD STP at Chelora (Kannur)	420	6.20 (4.96)	80	The site identified for the project was a dumping yard and the DPR did not mention the disposal of legacy waste available there. Consequently, the contractor backed out from the work due to change in scope and cost escalation. Another DPR was prepared with change in technology as the technology already suggested was not found suitable by the technical committee on 17 October 2022.
9.	100 KLD septage treatment plant, Yakkara (Palakkad Medical College campus) (Palakkad)	386	5.40 (@)	Nil	After the award of the work, due to protest by parent teacher association and other litigations, site was changed. This delayed the commencement of work and the contractor withdrew from the work.
	Total	1156	18.57 (8.89)	80	

(Source: Data furnished by SMMU and ULBs)

Appendix 2.4
DPRs prepared by KITCO under storm water drain, urban transport and green space and parks components
(Reference: Paragraph 2.1.3.3, Page 17)

a) Cancelled projects

(₹ in lakh)

Sl. No.	Name of Project (Name of ULB)	Project cost	DPR cost (DPR cost paid)	Remarks
Strom Water Drain				
1.	Storm water drain-Rajiv Gandhi Colony (Thiruvananthapuram)	15	@	Connectivity of drain not planned.
2.	Storm water drain-Balan Nagar Road (Thiruvananthapuram)	80	@	Connectivity of drain not planned.
3.	Storm water drain-Pozhikkara Near Boat Club (Thiruvananthapuram)	21	@	Connectivity of drain not planned.
4.	Storm water drain-Vayal Varambu Road (Thiruvananthapuram)	29	@	Connectivity of drain not planned.
5.	Chunkam-West fort and 'Kuttanellur Government College-Shiva Temple (Thrissur)	120	@	The drain construction works were cancelled due to lack of permission from PWD (PWD had proposed road widening).
Total		265	@	
Urban Transport				
6.	Construction of foot overbridge at Kadappakada (Kollam)	70	0.98 (0.49)	The proposed location did not have enough space for constructing FOB as designed in the DPR, hence project dropped.
7.	Construction foot overbridge at SN College Junction (Kollam)	77	0.90 (0.45)	The proposed site was very close (7 m) to railway track and hence permission was denied by Railway.
8.	Nirmala college to Aranattukara, (Thrissur)	100	@	All the projects were cancelled as the permission was denied by PWD due to proposed road widening.
9.	Powerhouse-Viyyur Jail front Road (Thrissur)	55	@	
10.	Viyyur Companippadi-Viyyur Bridge (Thrissur)	20	@	
11.	Pattalakkinar-Alumveettuvazhi (Thrissur)	58	@	
12.	Ollur Church-Convent Road (Thrissur)	25	@	Non-availability of required width to proposed footpath.
13.	Construction of Riverside walkway along Kalpathy riverbank Part I (Palakkad)	55	0.34 (@)	As private land has to be acquired for the construction of the walkway (210 m) the project was abandoned. DPR did not envisage acquisition of private land.
Total		460	2.22 (0.94)	
Green space and parks				
14.	Construction of Thanni park (Kollam)	17	0.22 (0.11)	Construction of both the parks were cancelled as the land identified was puramboke (in the possession of PWD) and PWD denied permission.
15.	Construction of Thoppilkadav park (Kollam)	56	0.72 (0.36)	

16.	Construction of Thirumullavaram ozhukkuthod (Kollam)	57	0.74 (0.37)	The proposed location was the seashore and location was found unsuitable for construction of park.
	Total	130	1.68 (0.84)	
	Grand total	855	3.90 (1.78)	

@ Cost not available

b) Delayed projects

(₹ in lakh)

Sl. No.	Name of Project (Name of ULB)	Project cost	DPR cost (DPR cost paid)	Expenditure	Remarks
Storm water drain					
17.	Drain construction work in Sakthikulangara (Kollam)	71	0.92 (@)	70	Work partially completed as the balance land belongs to private party.
18.	Construction of drains in Vadakkevila-Eravipuram area (Kollam)	178	2.32 (1.16)	169	Work was partially completed as the site condition varied from the DPR prepared.
	Total	249	3.24 (1.16)	239	
Urban Transport					
19.	Yard at stadium bus terminal (Palakkad)	185	1.85 (@)	12	Defects and lack of proper vision in the preparation of DPR resulted in change in structural design from isolated footings to pile foundation.
20.	Providing pedestrian network and bicycle tracks on both sides of college road (100 ft road) (Palakkad)	730	7.38 (@)	572	Non preparation of design, drawings and estimates resulted in delay in execution of projects and preparation of detailed estimates by the LSGD Engineering wing of ULB.
21.	Victoria College to Anjuvilakku pedestrian network (Palakkad)	248	2.53 (@)	180	
22.	Melamuri-Kalmandapam Foot path (Palakkad)	260	2.77 (@)	96	Estimate was prepared without adhering to MoRTH specifications.
	Total	1423	14.53 (@)	860	
	Grand total	1672	17.77 (1.16)	1099	

@Cost not available

(Source: Data furnished by SMMU and ULBs)

Appendix 3.1
Delay in release of funds by Government of Kerala
(Reference: Paragraph 3.1.1, Page 20)

(₹ in crore)

Fund released by GoI		Fund released by GoK				Delay between ⁹⁵	Delay in release of funds (In days)
Date of release	Amount	Date of order by GoK	Central share	State share	Date of receipt of funds in SMMU		
A	B	C	D	E	F	G	H (F-A)
16 December 2015	57.60	26 July 2016	17.20	10.32	29 August 2016	23 December 2015 and 31 March 2017	465
28 September 2016	77.28	27 March 2017	116.62	70.61	31 March 2017	05 October 2016 and 25 July 2017	294
		07 July 2017	1.07	0	25 July 2017		
Total	134.88		134.89	80.93			
28 February 2018	97.36	28 March 2018	58.53	32.48	31 March 2018	30 March 2018 and 23 August 2018	147
28 August 2019	200.23	10 July 2018	38.83	25.89	23 August 2018	27 September 2019 and 08 November 2019	43
	0	15 July 2019	95.24	0	30 July 2019		
	0	14 October 2019	99.50	116.84	08 November 2019		
Total	297.59		292.10	175.21			
18 September 2020	200.93	20 October 2020	199.63	119.78	03 December 2020	18 October 2020 and 03 December 2020	47
09 February 2021	200.92	06 September 2021	199.62	119.77	05 October 2021	11 March 2021 and 05 October 2021	209
21 December 2021	119.62	10 March 2022	119.62	71.77	28 June 2022	20 January 2022 and 28 June 2022	160
28 March 2024	207.23	03 June 2024	207.23	124.34	25 June 2024	27 April 2024 and 25 June 2024	60
Total	728.70		726.10	435.66			
Grand total	1161.17		1153.09⁹⁶	691.8			

(Source: Data furnished by SMMU)

⁹⁵ State Government should release central assistance along with State share within seven days (this was changed to one month vide directions dated 28 February 2018)

⁹⁶ Difference of ₹8.09 crore was adjusted by GoI towards interest accrued on funds already released.

Appendix 4.1
Status of sewerage network
(Reference: Paragraph 4.6.1, Page 56)

(₹ in crore)

Sl. No.	Name of ULB	Total number of households as per SLIP	New Connections in AMRUT	Total sewerage connections	Coverage (Per cent)	Gap in sewer network identified (Km)	Length of sewer network laid (Km)	Gap in sewage treatment capacity (MLD)	Capacity of STPs before AMRUT	Capacity of STPs planned (MLD)	STPs executed (MLD)	STP capacity after AMRUT (MLD)	Waste water generated (MLD)
1	Thiruvananthapuram	2,46,803	213	91530	37.09	1694	0	5	107	5	5*	107	130
2	Kollam	98,367	0	0	0	442	0	50	0	12	0	0	11.90
3	Kochi	1,51,412	0	4500	2.97	810	5	96.5	4.5	5	5	5	169.25
4	Thrissur	78,336	0	0	0	75	0	10	0	2.96	0.36*	0	5.95**
5	Kozhikode	1,23,776	0	0	0	550	0	61.5	0	16.1	2.1*	0	31.86
6	Kannur	61,883	870	870	1.40	580.6	11.52	32	0	1.1	1	1	9.70
7	Alappuzha	39,894	0	0	0	370	0	22	0	0.3	0.24*	0	8.98
8	Guruvayur	17,297	0	75	0.43	242.8	0	8.2	0	0.1	0	0 ⁹⁷	1.04
9	Palakkad	44,000	0	0	0	---	0	15	0	1.17	0	0	14.22
	Total	8,61,768	1083	96975	11.25	4764.40	16.52	300.2	111.5	43.73	13.70	113.00	382.90

*STPs constructed in various Hospitals

** In zones where water is supplied by KWA

(Source: Data furnished by SMMU and ULBs)

⁹⁷ Household connections are not provided though 3MLD STP commissioned in 2021 (not implemented under AMRUT)

⁹⁸ Not mentioned in SLIP

Appendix 4.2
Funds allocated and facilities created under urban transport
(Reference: Paragraph 4.8, Page 59)

(₹ in crore)

Sl. No.	Name of the ULB	Number of projects taken up	Project cost	Expenditure	Number of facilities created			
					Footpaths/walkway	FoBs, Subway	MLCP	Others*
1.	Thiruvananthapuram	4	30.53	6.70	1	0	1	0
2.	Kollam	13	11	6.17	4	3	0	1
3.	Alappuzha	35	9.21	5.73	14	13 [#]	0	0
4.	Kochi	21	21.88	14.98	19	0	0	0
5.	Thrissur	32	21.01	18.25	16	1 ⁹⁹	0	3
6.	Guruvayur	3	36.57	30.66	0	0	2	0
7.	Palakkad	32	31.16	22.25	8	5	0	11
8.	Kozhikode	1	11.35	10.86	0	1	0	0
9.	Kannur	6	16.75	12.15	3	0	0	1
	Total	147	189.46	127.75	65	23	3	16

*Parking area, bus shelters, bus terminals, cycle track, etc

#FOBs constructed at Alappuzha were of the nature of pedestrian bridges across the canals

(Source: Data furnished by SMMU and ULBs)

⁹⁹ Constructed subway at MO Road

Appendix 4.3
Foot paths constructed without clearing obstacles
(Reference: Paragraph 4.8.1.1, Page 60)

(₹ in crore)

Sl. No	Foot path constructed (Name of the ULB)	Date of completion	Expenditure	Deficiencies noticed
1.	Vazhuthacaud- Forest office lane-DPI (Thiruvananthapuram)	30 August 2017	0.08	<ul style="list-style-type: none"> • The pathway had obstacles like telephone post, electric post, flag post, etc. • A width of 1800mm was not ensured. • Tactile pavement to help visually challenged people was not done. • Periodical maintenance was absent.
2.	Construction and Renovation of footpath and supporting structures phase II- Four roads (Kollam)	15 November 2021	1.74	<ul style="list-style-type: none"> • The pathway had obstacles like telephone post, electric post, flag post, etc. • A width of 1800mm was not ensured. • Tactile pavement to help visually challenged people was not done. • Periodical maintenance was absent.
3.	Construction and Renovation of footpath and supporting structures phase IV- three roads (Kollam)	10 July 2021	0.08	
4.	Pedestrian network at Thathampally ward (Alappuzha)	13 August 2020	0.92	<ul style="list-style-type: none"> • No tactile pavement. • The footpath was constructed at the same level of road and did not have mandatory width. • No handrail separation from road. Obstacles like KSEB transformers, electric post, trees, etc. were seen. • Vehicles were seen parked in footpath.
5.	Pedestrian network at Chungam Ward (Alappuzha)	23 February 2021	0.54	<ul style="list-style-type: none"> • IRC standard was not followed in width and tactile pavement. • This pathway was constructed between banks of backwater and private properties. • Vehicle traffic was seen along the pathway and hence it was not constructed exclusively for pedestrians. • No handrail separation from road.
6.	Alappuzha Municipality pedestrian network (Alappuzha)	28 December 2020	0.27	<ul style="list-style-type: none"> • IRC standard was not followed in width and tactile pavement. • The footpath was constructed at the same level of road. • No handrail separation and safety of pedestrians not seen ensured. • Waste deposits were seen in many places and vehicle parking was noticed.

7.	Pedestrian network at AN Puram (Alappuzha)	21 August 2019	0.17	<ul style="list-style-type: none"> • IRC standard was not followed in width and tactile pavement. • The footpath was constructed at the same level of road. • No handrail separation and safety of pedestrians not seen ensured. • Obstacles like KSEB transformers, electric post, trees, etc. were seen.
8.	Pedestrian network at Gurumandiram junction (Alappuzha)	21 October 2021	0.21	<ul style="list-style-type: none"> • 700 m length of tiling was done on both sides of PWD road.
9.	Walkway along the Panorama Road on both side of canal (Kochi)	24 July 2020	0.83	<ul style="list-style-type: none"> • The walkway was not constructed exclusively for pedestrians, vehicle movement along the walkway was there. • Tactile pavement as stipulated in the IRC standards not adopted.
10.	Walkway along Karanakodam thodu (Kochi)	31 May 2021	1.04	<ul style="list-style-type: none"> • The walkway had width as per IRC standards, but obstacles like trees, electric post, etc were seen. • No hand railings. • Poor maintenance was visible.
11.	Walkway/footpath along both sides of Chambakkara canal (Kochi)	31 October 2020	0.62	<ul style="list-style-type: none"> • Width as per IRC standards was not available. • Electric posts were seen on the pathway. • No tactile pavement helping visually challenged people was used.
12.	Walkway from JLN stadium along stadium link road (Kochi)	31 May 2021	1.11	<ul style="list-style-type: none"> • Though the walkway was as per IRC standards, poor maintenance was visible.
13.	Footpath from GCDA junction to Kendriya Vidyalaya and market road (Kochi)	31 October 2020	0.67	<ul style="list-style-type: none"> • A portion of the walkway did not have tactile pavement. • Obstacles like electric post, trees, hoardings, etc posing threat to pedestrians.
14.	Kalmandapam Melamurry foot path (Palakkad)	Work not completed	0.96	<ul style="list-style-type: none"> • Obstacles and encroachments by shop owners.

(Source: Data furnished by SMMU and ULBs)

Appendix 4.4
Non-providing of facilities in parks
(Reference: Paragraph 4.10.1, Page 70)

Sl. No.	Name of project (Name of ULB)	Expenditure (₹ in crore)	Date of completion	Whether child friendly equipment installed/ properly maintained	Whether park opened to public	Remarks
1.	Improvement of TK Divakaran Park and Nehru Park - Phase 1 and II (Kollam)	0.67	30 November 2019	X	X	Nil
2.	Development of Existing Parks and Construction of New Parks - Phase I- Asraamom Park (Kollam)	0.97	07 November 2019	X	X	Nil
3.	Improvement of Parks-phase II -T.M Varghese Park (Kollam)	0.57	07 November 2019	X	✓	Nil
4.	Renovation of St. John Park (Kochi)	0.32	31 July 2018	X	X	Nil
5.	Vypin Jetty Green Space Development (Kochi)	0.61	30 September 2020	X	✓	Nil
6.	Development of Park in railway station ward at Alappuzha beach (Alappuzha)	0.64	30 December 2023	✓	X	Non-maintenance and waste dumped inside the park.
7.	Development of Chathanadu Park - Phase II (Alappuzha)	0.68	31 December 2023	X	X	Under construction
8.	Development of Children's park in Chathanadu, Phase I (Alappuzha)	0.22	26 February 2021	X	✓	Overgrown grass and weeds, dirty surroundings, play equipment installed were in damaged condition.
9.	Development of Green Space and Park in Valiyachudukadu (Alappuzha)	1.23	30 December 2023	X	✓	Nil
10.	Development of Recreation facilities and Park in General Hospital (Alappuzha)	0.07	19 November 2018	X	✓	Building inside the park was in dilapidated condition.
11.	Renovation and Development of park in Town square (Alappuzha)	0.57	27 March 2023	X	✓	Overgrown grass and non-maintenance.

Sl. No.	Name of project (Name of ULB)	Expenditure (₹ in crore)	Date of completion	Whether child friendly equipment installed/ properly maintained	Whether park opened to public	Remarks
12.	Development of Eravathkunnu V K Krishnamenon Smruthivanam (Kozhikode)	1.00	28 May 2021	X	X	The park was poorly maintained, waste generated in the park was seen dumped in the walkways. Children play equipment was seen abandoned without proper maintenance.
13.	Gandhi Nagar-Chakkanthara (Palakkad)	0.20	10 May 2020	X	X	The park was poorly maintained. Children playing equipment were covered with thick bushes and creepers.
14.	Venkiteshwara Garden (Palakkad)	0.22	10 March 2023	X	X	Children play equipment were covered with thick grass and plants. Poorly maintained.
15.	Nila Nagar Park (Palakkad)	0.23	04 February 2022	X	X	The park was poorly maintained. Garden waste was seen dumped inside the park. Children playing equipment were covered with thick bushes and creepers.

(Source: Data furnished by SMMU and ULBs)

Appendix 5.1
Projects not appraised by SLTC
(Reference: Paragraph 5.1.2, Page 75)

a) New projects

(₹ in crore)

Sl. No.	Name of project (Name of ULB)	Sector	Administrative sanction		SHPSC held on
			Date	Amount	
1	10 KLD Mobile Septage treatment plant – two numbers - for Alappuzha Municipality (Alappuzha)	Sewerage and Septage	30 March 2019	0.80	27 February 2019
2	15 KLD Sewerage treatment plant at Shathabdi Mandiram in Alissery Ward (Alappuzha)	Sewerage and Septage	30 March 2019	0.30	27 February 2019
Total				1.10	

b) Projects with revised estimates

(₹ in crore)

Sl. No.	Name of project (Name of ULB)	Original Administrative Sanction		SHPSC held on	Revised Administrative Sanction		Excess amount
		Date	Amount		Date	Amount	
Water Supply							
1.	Augmentation of water supply scheme to Kollam (2015-16, 2016-17 and 2017-18) (Kollam)	28 September 2017	78.35	25 October 2019	03 January 2020	92.08	13.73
2.	Replacement of 100mm AC pipe by laying rider line of 160mm PVC along both side of Pandit Karuppan Road (4400m) (Kochi)	15 August 2017	1.61	25 October 2019	04 January 2020	1.75	0.14
3.	Laying of 450mm DI K9 Pipe from North end of Aroor Edakochi Bridge to KWA Tank site (1050m) (Kochi)	15 August 2017	1.52	25 October 2019	04 January 2020	1.67	0.15
4.	Laying Rider main from Kathrikkadavu to Elamkulam, Chettichira, Ponnurunni areas and distribution line in Chakkarapparambu, Chalikkavattom areas (5800m) (Kochi)	01 January 2018	3.25	25 October 2019	04 January 2020	3.65	0.40
5.	Laying 500 mm DI pipe from Thamanam Pump house to Kadavanthara OHSR (Kochi)	02 November 2017	7.65	25 October 2019	04 January 2020	7.76	0.11
6.	Rehabilitation of existing old pipes, valves and interconnections with existing lines Phase II (Kozhikode)	02 November 2017	14.63	04 February 2020	12 May 2020	15.50	0.87
7.	Water Sector Works-Laying distribution network for improvement of coverage in Guruvayur & Pookkode Zone in Guruvayur Municipality (Guruvayur)	28 September 2017	13.72	04 February 2020	25 May 2020	16.67	2.95

Sl. No.	Name of project (Name of ULB)	Original Administrative Sanction		SHPS held on	Revised Administrative Sanction		Excess amount
		Date	Amount		Date	Amount	
8.	Construction of 10 LL OHSR & pumping main to Guruvayur Municipality (Guruvayur)	28 September 2017	15.5	04 February 2020	25 May 2020	17.74	2.24
9.	Water Supply System to Guruvayur Municipality Package (Guruvayur)	28 September 2017	77.18	04 February 2020	25 May 2020	81.34	4.16
10.	WSS to Guruvayur Municipality in Thrissur District balance distribution network in Guruvayur Municipality (Guruvayur)	23 December 2017	19.68	04 February 2020	25 May 2020	23.00	3.32
11.	Laying distribution networks in Thykkad Zone Guruvayur Municipality (Guruvayur)	22 February 2018	10.00	04 February 2020	25 May 2020	12.13	2.13
12.	Augmentation of WSS to Palakkad Municipality (Palakkad)	24 May 2018	54.33	25 October 2019	03 January 2020	85.16	30.83
Sewerage and Septage							
13.	Supplying and erection of pump set, transformer and electrical accessories in Block L Edathara Pumping Station (Thiuruvanathapuram)	02 November 2017	1.80	27 February 2019	30 March 2019	4.00	2.20
14.	De-centralised sewage and septage treatment plants and associated sewerage networks for Zone A in Kozhikode - Corporation (Kozhikode)	22 February 2018	106.69	27 February 2019	30 March 2019	116.50	9.81
15.	Rejuvenation of STP at Kochi (Kochi)	01 January 2018	13.70	25 October 2019	25 January 2020	16.52	2.82
16.	Sewage Treatment Plant at Kureepuzha (Kollam)	22 February 2018	30.00	04 February 2020	17 June 2020	31.92	1.92
17.	15 KLD STP at Shathabdi Mandiram in Alissery Ward (Alappuzha)	30 March 2019	0.30	25 October 2019	31 January 2020	0.44	0.14
Storm Water Drain							
18.	Construction of Storm Water Drainage at various Municipal Corporation roads Phase II - Thangassery Area" (Kollam)	02 November 2017	2.631	15 September 2020	15 October 2020	3.203	0.57
Urban Transport							
19.	GB Road Escalator (Palakkad)	22 February 2018	3.545	17 December 2020	28 January 2021	5.70	2.16
20.	Bus Terminal Yard near Stadium Bus Stand (Palakkad)	27 September 2017	3.18	25 October 2019	03 January 2020	5.03	1.85
21.	FoB across Muthalapozhi (Alappuzha)	13 November 2017	0.22	25 October 2019	31 January 2020	0.35	0.13

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Sl. No.	Name of project (Name of ULB)	Original Administrative Sanction		SHPS held on	Revised Administrative Sanction		Excess amount
		Date	Amount		Date	Amount	
22.	MLCP in Kollam Corporation (Kollam)	23 December 2017	10.40	04 February 2020	18 June 2020	10.91	0.51
Green Space and Parks							
23.	Veliyilkulangara Park (Kollam)	22 February 2018	0.28	15 September 2020	15 October 2020	0.30	0.02
24.	Rejuvenation of Nehru Park in Thrissur Corporation Phase I (Thrissur)	23 February 2017	0.91	25 October 2019	04 January 2020	1.32	0.41
25.	Rejuvenation of Kottamaithanam Park Phase I (Palakkad)	26 March 2016	1.04	25 October 2019	03 January 2020	2.66	1.62
Total			472.12			557.30	85.19

c) Tender excess

(₹ in crore)

Sl. No.	Name of project (Name of ULB)	Tendered PAC*	Lowest quote received	Tender excess		SHPS held on	Date of Government Order
				Percentage	Amount		
Sewerage and Septage							
1	Rehabilitation and up-gradation of existing sewer network at Manjalikulam branch road, Ootukuzhy, Vanrose Junction branch road (Thiruvananthapuram)	0.276	0.365	32.25	0.089	15 September 2020	16 October 2020
2	Inter connection of sewer networks from trunk main manholes of both sides of the road from Arasumoodu (Thiruvananthapuram)	0.503	0.639	27	0.136	15 September 2020	15 October 2020
3	Providing new network in the missing areas of core city" (Thiruvananthapuram)	0.509	0.713	40	0.204	15 September 2020	15 October 2020
4	"Laying 700 mm dia RCC NP3 Pipe Sewer Trunk Main-I from Murinjapalam Kannamoola" (Thiruvananthapuram)	0.78	1.09	40	0.31	15 September 2020	16 October 2020
5	TSS - Urgent laying of 300 mm dia HDPE pipe and construction of new Manholes at Chengalloor and Vattavila of Punnakkamugal ward (Thiruvananthapuram)	0.67	0.97	45	0.30	15 September 2020	16 October 2020
6	Decentralised Sewerage System for Division 15 (Kochi)	42.94	55.23	36.64	12.29	17 December 2020	18 January 2021
7	Decentralised Sewerage System for Division 16 (Kochi)			25.95			
8	Decentralised Sewerage System for Division 17 (Kochi)			25.92			

Sl. No.	Name of project (Name of ULB)	Tendered PAC*	Lowest quote received	Tender excess		SHPSC held on	Date of Government Order
				Per-centage	Amount		
9	Decentralised Network with STP in Old Kannur Municipal area (Kannur)	16.398	19.665	19.92	3.267	17 December 2020	19 January 2021
10	Sewage Treatment Plants at Karukodi and Sundaram Colony (Palakkad)	7.425	8.80	18.51	1.375	17 December 2020	25 January 2021
11	Rejuvenation of Elamkulam STP at Kochi (Kochi)	11.63	14.45	24.24	2.82	25 October 2019	25 January 2020
	Total	81.131	101.922		20.791		

*PAC - Probable Amount of Contract
(Source: Data furnished by SMMU and ULBs)