

Minutes of the 22nd State Level High Powered Steering Committee (SHPSC) of Atal Mission for Rejuvenation and Urban Transformation (AMRUT) held on 25th October 2019 at 02.30 pm in the Committee Room of the Chief Secretary, Government of Kerala.

The meeting of the 22nd State Level High Powered Steering Committee (SHPSC) of AMRUT chaired by Shri. Tom Jose IAS, Chief Secretary, Government of Kerala, commenced at 02.30 pm. (*List of Participants enclosed as Annexure- I*)

Smt. R. Girija IAS, Mission Director of AMRUT, presented the points in the agenda notes.

Agenda Item No. 1: Approval of the minutes of the 21st meeting of SHPSC

Decision: *The Committee approved the minutes of 21st meeting of SHPSC held on 27th February 2019 (Enclosed as Annexure II).*

Agenda Item No. 2: Action taken report on the decisions of the 21th SHPSC.

Decision: *The Committee took note on the action taken items and approved the same, with comments for Agenda Item No.2.9*

2.9: Guruvayur Municipality - Request for additional fund for road restoration works under Water Supply sector due to rate revisions by PWD	
Chairperson of Guruvayur Municipality vide letter E.5-8932/18 dated 21.02.2019 had informed that the ULB had remitted the amount to PWD for road restoration charge of the water supply projects under Pookode Zone and Guruvayur Zone for Rs. 2.49 Cr and Rs. 1.77 Cr respectively, in the mid of year 2018 and had obtained sanction from PWD for the same. But, when the projects were commenced, the PWD officials interrupted and cancelled the issued permit and submitted revised estimates of Rs. 10.17 Cr in lieu of Rs.2.49 Cr and Rs.8.18 Cr in lieu of Rs.1.77 Cr. Therefore, Municipality had requested the intervention of SHPSC to fix the charges of road restoration works without any financial burden to ULB and to enable them to commence the execution of water supply works during the months of March and April 2019.	
Decision Taken (21st SHPSC): The Chairman directed to take necessary urgent action for issuance of a G.O from PWD for the exclusive coverage of AMRUT work which has been directed in the previous SHPSC dated 11.12.2018. The MD, KWA shall liaise with WRD, PWD and LSGD for issuance of the G.O.	Action Taken: GO has been issued by the PWD vide GO. (Rt) No. 756/2019/PWD dated 20.06.2019 (Annexure-2). As per the GO: 1. The restoration responsibility and balance defect liability, if any, will rest with ULB concerned. 2. In case of restoration of road without DLP, security deposit valid up to the end of DLP of the restoration work should be remitted to PWD. 3. In case of restoration of road with DLP, security deposit should be remitted for the entire width of the length to be restored up to the end of DLP.
Decision Taken: <i>SHPSC decided to request PWD to revise the GO by modifying the conditions that the security deposit (roads with DLP) should be remitted for the cutting portion only instead of the entire width of the length to be restored up to the end of DLP.</i>	

Agenda Item No.3: PROGRESS OF ACTIVITIES SINCE 21ST SHPSC

3.1: ULB WISE PROGRESS (as on 19.10.2019)

City	Total Projects (No.)	Project Cost (Rs. Cr.)	AS Accorded		TS Issued		Tendered		Awarded		Completed (No.)	Total Expenditure (Completed + In Progress) (Rs. Cr.)	Expenditure %
			No.	Amount (Rs. Cr.)	No.	Amount (Rs. Cr.)	No.	Amount (Rs. Cr.)	No.	Amount (Rs. Cr.)			
Guruvayur	34	203.10	34	203.10	33	192.73	33	192.05	28	183.88	10	86.12	42.40
Alappuzha	199	222.72	199	217.18	196	208.50	196	208.50	183	188.34	56	68.80	31.68
Kannur	37	225.72	37	225.65	37	196.61	37	195.63	32	151.77	2	60.38	26.76
Kochi	97	328.77	97	268.79	97	261.62	97	261.62	93	187.81	29	71.19	26.48
Palakkad	150	221.71	150	218.30	150	201.38	150	200.98	146	177.63	29	53.12	24.34
Trivandrum	275	357.50	275	357.35	275	332.31	274	328.31	255	272.39	105	86.92	24.32
Thrissur	121	269.93	121	266.62	120	243.15	120	243.15	115	185.96	42	63.12	23.67
Kollam	60	253.45	60	207.19	60	209.00	60	207.90	51	110.90	13	35.02	16.90
Kozhikode	50	274.76	50	284.64	50	283.94	50	278.66	47	148.11	7	46.91	16.48
Total	1023	2357.66	1023	2248.82	1018	2129.24	1017	2116.80	950	1606.79	293	571.58	25.42

3.2: SECTOR-WISE PROGRESS (as on 19.10.2019)

Implementing Agency	Sector	AS Accorded		TS Issued		Tendered		Awarded		Not Started (No.)	Completed		Total Expenditure
		No.	Amt.	No.	Amt.	No.	Amt.	No.	Amt.		No.	Amt.	
KWA	Water Supply	166	1048.50	165	1051.47	165	1045.08	159	971.73	12	33	36.62	406.48
	Sewerage	115	203.36	115	195.27	114	191.27	92	91.65	8	38	8.89	25.45
KWA – Total		281	1251.86	280	1246.74	279	1236.35	251	1063.38	20	71	45.51	431.93
ULB	Water Supply	10	21.03	9	15.65	9	15.65	4	6.99	1	0	0.00	0.00
	Sewerage	13	312.00	12	262.41	12	262.01	0	0.00	0	0	0.00	0.00
	Septage	8	27.88	7	22.90	7	22.90	0	0.00	0	0	0.00	0.00
	Storm Water Drainage	509	382.42	509	349.31	509	348.30	506	336.45	34	198	64.37	106.99
	Urban Transport	129	206.82	128	188.55	128	188.55	118	159.66	21	11	3.30	23.97
	Parks	73	46.81	73	43.68	73	43.04	71	40.32	1	13	4.39	8.69
ULB – Total		742	996.96	738	882.50	738	880.45	699	543.42	57	220	72.06	139.65
Grand Total (KWA & ULB)		1023	2248.82	1018	2129.24	1017	2116.80	950	1606.79	77	293	117.57	571.58

3.3: PROGRESS ACHIEVED SINCE 21st SHPSC (HELD ON 27.02.2019)

Milestone	AS Accorded		TS Accorded		Tendered		Contract Awarded	
	No.	Cost (Rs. Cr.)	No.	Cost (Rs. Cr.)	No.	Cost (Rs. Cr.)	No.	Cost (Rs. Cr.)
Last SHPSC (27.02.2019)	1021	2232.86	1004	1905.19	989	1818.27	915	1506.76
Current SHPSC	1023	2248.82	1018	2129.24	1017	2116.80	950	1606.79
Progress	2*	15.96	14	224.05	28	298.53	35	100.03

*2 subprojects added

3.4: PENDING MILESTONES (AS ON 19.10.2019)

Kerala AMRUT Projects	AS Issued – TS Pending		TS Issued – Not Tendered		Tendered – Not Awarded		Awarded – Not Started	
	No.	Amount (Rs. Cr.)	No.	Amount (Rs. Cr.)	No.	Amount (Rs. Cr.)	No.	Amount (Rs. Cr.)
KWA	1	6.00	1	4.00	28	172.97	20	57.89
ULB	4	113.58	--	--	33	335.48	57	38.56
Total Pendency	5	119.58	1	4.00	61	508.45	77	96.45

Comments: Mission Director briefed the progress of works and expenditure incurred so far. Additional Chief Secretary, LSGD informed that all projects except Water Supply & Sewerage can be completed before Mar-2020. He also informed that water supply & sewerage projects will require time up to Mar-2021. He requested the Chairman to ensure sufficient cash flow for AMRUT projects, as payment worth Rs.111Cr. is pending. Smt.K.S. Usha, Additional Secretary, Finance Department informed that Rs.50Cr. will be released immediately to AMRUT. The Chairman raised concerns regarding the seriousness being shown by KWA in implementation of sewerage project works. He also asked to call for global tenders, if required for Sewerage & Septage projects. Chairman directed the KWA & ULB officials to improve the public objection handling mechanism as some projects are held up due to public protests.

Agenda Item No.4: PROJECTS BEING IMPLEMENTED BY KWA

4.1: Kochi – Water Supply Sector – Revision of AS – Replacement of 100mm AC Pipe by Laying Rider Line of 160mm PVC (6kg/cm²) along both side of Pandit Karuppan Road (4400m)

As per the Resolution No.114 of the Kochi Corporation Council held on 29.07.2019, the Secretary, vide Letter No. CSSS1/48036 dated 15.10.2019 (Annexure-3), had requested to revise the AS.

Details of Work	Reason for Revision	Source of Fund
AS Amount: Rs.1.61Cr. AS Date: 15.08.2017 TS Amount: Rs.1.61Cr. TS Date: 16.11.2017 Revised Project Cost: Rs.1.75Cr. Excess Amount: Rs.0.14Cr. (8.70% increase) Corporation Road: 4400m, BM & BC Road	The increase in amount is due to increase in road restoration charges (original estimate - Rs.1.02Cr. & revised estimate - Rs.1.07Cr.) due to revision of PWD rates and 10% tender excess (tendered amount - Rs.0.62Cr to awarded Cost – Rs.0.68Cr.). Revised Project Cost is Rs.1.75Cr. (Rs.1.07Cr. + Rs.0.68Cr.)	Total SAAP amount for Water Supply is Rs. 124.03Cr. Total AS amount is Rs. 114.04Cr. SAAPs savings - Rs. 9.99Cr. The excess amount Rs.0.14Cr. can be met from the savings.

Decision Taken: *The SHPSC accorded revised AS to the project amounting to Rs.1.75Cr. on condition that the excess amount of Rs.0.14Cr. should be met from the SAAP savings.*

4.2: Kochi – Water Supply Sector – Revision of AS – Laying of 450mm DI K9 Pipe from North End of Aroor Edakochi Bridge to KWA Tank Site (1050m)

As per the Resolution No.114 of the Kochi Corporation Council held on 29.07.2019, the Secretary, vide Letter No. CSSS1/48036 dated 15.10.2019 (Annexure-3), had requested to revise the AS.

Details of Work	Reason for Revision	Source of Fund
AS Amount: Rs.1.52Cr. AS Date: 15.08.2017 TS Amount: Rs.1.52Cr. TS Date: 16.11.2017 Revised Project Cost: Rs.1.67Cr. Excess Amount: Rs.0.15Cr. (9.87% increase) PWD Road: 1050m, BM & BC Road	The increase in amount is due to increase in road restoration charges (original estimate - Rs.0.58Cr. & revised estimate - Rs.0.81Cr.) due to revision of PWD rates. Tendered amount - Rs.0.93Cr Awarded cost - Rs.0.86Cr. Revised Project Cost is Rs.1.67Cr.	Total SAAP Amount for Water Supply is Rs. 124.03Cr. Total AS Amount is Rs. 114.04Cr. SAAPs Savings - Rs.9.99Cr. The excess amount of Rs.0.15Cr can be met from the savings.

Decision Taken: The SHPSC accorded revised AS to the project amounting to Rs.1.67Cr. on condition that the excess amount of Rs0.15Cr. should be met from the SAAP savings.

4.3: Kochi – Water Supply Sector – Revision of AS – Laying Rider Main from Kathrikkadavu to Elamkulam, Chettichira, Ponnurunni areas & Distribution Line in Chakkarapparambu, Chalikkavattom areas (5800m)

As per the Resolution No.114 of the Kochi Corporation Council held on 29.07.2019, the Secretary, vide Letter No. CSSS1/48036 dated 15.10.2019 (Annexure-3), had requested to revise the AS.

Details of Work	Reason for Revision	Source of Fund
AS Amount: Rs.3.25Cr. AS Date: 15.08.2017 TS Amount: Rs.3.25Cr. TS Date: 23.01.2018 Awarded Cost: Rs.1.11Cr. Road Restoration Charges: Rs. 2.49Cr. Additional Cost: Rs.0.06Cr. (Panampilly Nagar & Ponoth Road works) Revised Project Cost: Rs.3.65Cr. Excess Amount: Rs.0.40Cr. (12.31% increase) KMC Road: 4800m, BM & BC road	<p>The Original proposal is as follows:</p> <ol style="list-style-type: none"> 1. 200mm DI K9 pipe laying for a length of 1000m along Kumaranasan road from Kathrikkadavu. 2. 160mm PVC pipe laying for a length of 2000m along Fathima Church road up to Elamkulam Jn. 3. 160mm PVC branch line laying for a length of 500m along Subash Chandra Bose road and interconnection with the existing 450mm CI pipe line near Kathrikkadavu ROB. <p>As per the Resolution of Kochi Council dated 28.02.2019 the alignment was changed as follows:</p> <ol style="list-style-type: none"> a. 500m of 200mm DI K9 along Kumaranasan road was cancelled & the same was proposed to be laid in Panampilly Nagar from Shipyard Quarters to Keezhavana Road up to Panampilly Nagar Main Avenue. b. 2500m of 160mm PVC along Fathima Church Road & from Elamkulam to Subash Chandra Bose Junction was relocated to Ponoth Road. c. Due to the diversion of 200mm DI pipe to Panampilly Nagar, two extra items are to be included (1) interconnection to the existing 400 mm Primo pipe (2) conveyance of 200mm DI K9 Pipe from Elamkulam to Panampilly Nagar. – Rs.250000. d. Due to the diversion of 160mm PVC pipe to Ponoth Road, two extra items are to be included (1) interconnection to the existing 300mm CI pipe (2) conveyance of 160mm DI K9 Pipe from Elamkulam to Ponoth Road. – Rs.340000. <p>The increase in amount is due to increase in road</p>	<p>Total SAAP Amount for Water Supply is Rs. 124.03Cr.</p> <p>Total AS Amount is Rs. 114.04Cr.</p> <p>SAAPs Savings - Rs.9.99Cr.</p> <p>The excess amount of Rs.0.40Cr can be met from the savings.</p>

Details of Work	Reason for Revision	Source of Fund
	restoration charges (original estimate - Rs.2.24Cr. to revised estimate - Rs.2.49Cr.), the revision in rates and the change in alignment.	

Decision Taken: The SHPSC accorded revised AS to the project amounting to Rs.3.65Cr. on condition that the excess amount of Rs.0.40Cr. should be met from the SAAP savings.

4.4: Kochi – Water Supply Sector – Revision of AS – Laying 500mm DI Pipe from Thammanam Pump House to Kadavanthra OHSR

As per the Resolution No.114 of the Kochi Corporation Council held on 29.07.2019, the Secretary, vide Letter No. CSSS1/48036 dated 15.10.2019 (Annexure-3), had requested to revise the AS.

Details of Work	Reason for Revision	Source of Fund
AS Amount: Rs.7.65Cr. AS Date: 02.11.2017 TS Amount: Rs.7.65Cr. TS Date: 28.11.2017 Excess Amount: Rs.0.11Cr. (1.44% increase) Awarded Cost: Rs.4.45Cr. Road Restoration: Rs.3.23Cr. increased to Rs.3.30Cr Revised Project Cost: Rs.7.76Cr.	Due to the change in the alignment made (railway crossing) based on the direction of Railway, the length of pumping main to be laid increased by 802m (3465m to 4267m). Out of 802m, 702m can be executed using the savings in Maradu Pump House to Thammanam work (Agenda No.4.5). Revision of AS is required to meet the additional expense incurred for the balance length of 100m. Total length of pipe laying will become 3565m.	Total SAAP Amount for Water Supply is Rs. 124.03Cr. Total AS Amount is Rs. 114.04Cr. SAAPs Savings - Rs.9.99Cr. The excess amount of Rs.0.11Cr can be met from the savings.

Decision Taken: The SHPSC accorded revised AS to the project amounting to Rs.7.76Cr. on condition that the excess amount of Rs.0.11Cr. should be met from the SAAP savings.

4.5: Kochi – Water Supply Sector – Permission for Re-arrangement of Works Without Change in AS – Laying Pumping Main of 500mm DI K9 Pipe from WTP at Maradu to Pump House at Thammanam for Additional Pumping of Water to Kochi City

As per the Resolution No.114 of the Kochi Corporation Council held on 29.07.2019, the Secretary, vide Letter No. CSSS1/48036 dated 15.10.2019 (Annexure-3), had requested permission for the following re-arrangement without change in AS (Rs.16.5Cr.) of this project.

- To execute 6nos. of additional interconnection as extra items of Maradu - Thammanam work for utilizing the existing DI pipes and due to the lack of permission from NHAI to lay pipes in Kundanoor & Vytilla flyover.

- There is a saving of 702m of 500mm DI pipeline to manage the shortage of 802m of 500mm DI pipeline in Thammanam-Kadavanthra work

Decision Taken: *The SHPSC authorized MD, KWA to take a suitable decision.*

4.6: Kochi – Water Supply Sector – Approval for Tender Excess – Replacement of 100 mm CI Pipe by Laying 160 mm & 110 mm PVC Pipes (6 kg/cm²) from Valanjambalam Junction to Ravipuram

As per the Resolution No.114 of the Kochi Corporation Council held on 29.07.2019, the Secretary, vide Letter No. CSSS1/48036 dated 15.10.2019 (Annexure-3) had requested permission for the approval of tender excess for this project.

AS Amount:	Rs.0.66Cr. & AS Date: 15.08.2017
TS Amount:	Rs.0.66Cr. & TS Date: 30.10.2017
Tendered amount:	Rs.0.19Cr.
Road Restoration Charges envisaged:	Rs.0.47Cr.
Awarded amount:	Rs.0.23Cr. (19.62% Excess)
Actual Road Restoration Charges:	Rs.0.36Cr.
Revised Project Cost:	Rs.0.59Cr.

The work has been physically completed. The Secretary has requested for the approval of tender excess on 15.10.2019 based on the request from KWA.

Decision Taken: *The SHPSC approved the 19.62 % tender excess for the work.*

4.7: Kochi – Water Supply Sector – Permission for Utilizing Savings for Allied Works – Construction of 1.5ML OHSR & 0.2ML CWR at Vadathode, Cheranalloor

As per the Resolution No.114 of the Kochi Corporation Council held on 29.07.2019, the Secretary, vide Letter No. CSSS1/48036 dated 15.10.2019 (Annexure-3), had requested permission for utilizing the savings in this work for the following allied works.

- 45HP Pump Sets – 2nos. having a discharge of 106LPS against a head of 21m
- 100KVA Outdoor Type Transformer
- Allied electrical works

AS Amount:	Rs.7.75Cr. & AS Date: 27.09.2017
TS Amount:	Rs.5Cr. & TS Date: 23.01.2018
Awarded Cost:	Rs.4.94Cr.
Savings:	Rs.2.75Cr.

Reason for Savings: The AS proposal includes 1000mm dia pile-16nos. & 750mm dia pile-20nos. with 45m depth. TS proposal after soil investigation proposed 750mm dia pile-32nos. & 600mm dia pile-40nos. with 29m depth only.

Decision Taken: *The SHPSC authorized MD, KWA to take a suitable decision*

4.8: Kochi – Water Supply Sector – Sanction of Additional Works – Replacement of Damaged Service Connections – 5000nos.

As per the Resolution No.114 of the Kochi Corporation Council held on 29.07.2019, the Secretary, vide Letter No. CSSS1/48036 dated 15.10.2019 (Annexure-3), had requested permission for including the following additional works:

Sl. No.	Name of Work	Additional work	Cost of Additional Work (Lakh)
1	Replacement of 100mm AC pipe by laying rider line of 160mm PVC (6kg/cm ²) along both side of Pandit Karuppan Road AS - Rs.1.61Cr.	Shifting of existing water connections - 310nos. & Bye-lane connections - 44nos.	10.6
2	Replacement of old damaged pipeline from Valanjambalam to Ravipuram -size 160mm & 110mm PVC (1000m) AS - Rs.0.66Cr.	Shifting of existing water connections - 185nos. & Bye-lane connections - 12nos.	9.85
3	Laying rider main from Kathrikkadavu to Elamkulam, Chettichira, Ponnuranni areas and distribution lines in Chakkaraparambu, Chalikkavattom areas AS - Rs.3.25Cr.	Shifting of existing water connections - 191nos. & Bye-lane connections - 3nos.	18.29
TOTAL		House Connections - 686nos. Bye-lane Connections - 59nos.	38.74

AS was accorded for the work - Replacement of Damaged Service Connections – 5000nos. for an amount of **Rs.5.00Cr.** This work was tendered on 17.02.2019 but KWA has not yet finalized the beneficiary list. Now the Contractor has refused to execute the agreement in local market rate. Hence the work needs to be retendered. The 3 above-mentioned ongoing WS works, additionally require 686nos. house connections & 59nos.bye-lane connections amounting to Rs.38.74Lakh for the successful completion of works.

Decision Taken: *The SHPSC accorded sanction to execute the additional works amounting to Rs.38.74Lakh without any change in AS Amount.*

4.9: Palakkad – Water Supply Sector – Permission for Utilizing Savings for Paying Road Restoration Charges

As per the Resolution No. 2351 & 2353 (Annexure-4) held on 14.10.2019, the Secretary requested additional amount for road restoration utilizing the savings.

Administrative Sanction has been accorded for Rs.109.33Cr for Water Supply Sector (6 sub-projects) in Palakkad Municipality under AMRUT scheme. In the estimate prepared by KWA, provision of only Rs.8.73Cr. was given for restoration of roads for total 6 sub-projects. But as per the actual estimate prepared by the LSGD engineering wing of Palakkad Municipality, the amount for road restoration comes to Rs.30.82Cr. for 3 sub-projects.

The Secretary of the Municipality has reported that, it is beyond the financial capacity of the Municipality to meet the fund from other sources.

Details of Work	Reason for Revision	Source of Fund
Total AS Amount for the 3 works: Rs.54.33Cr. AS Date: 24.05.2018 TS Amount: Rs.54.33Cr. TS Date: 23.02.2018 Additional commitment due to Road Restoration Charge: Rs.30.82Cr. (56.72% increase) Revised Project Cost: Rs.85.15Cr.	Reasons for Excess in Road Cutting Lumpsum amount of 8% was kept in the DPR prepared by KWA for the road restoration. Detailed estimate was not prepared during the DPR Preparation. As per the latest GO for road restoration, ULB had signed tripartite agreement with PWD and KWA for undertaking all restoration works. LSGD Engineering wing visited all sites and took actual site measurements and prepared detailed estimate using the PRICE Software with current DSR. Hence, estimate rates changed.	Savings from Water Supply (SAAP 1, 2 & 3) – Rs. 12.21Cr. Septage & Sewerage (SAAP 1 & 2) – Rs. 17.26 Cr Storm Water Drainage (SAAP 1, 2 & 3) – Rs. 1.35 Cr. Total – Rs. 30.82 Cr.
Mattumantha Zone – Providing rider main pipelines, replacing AC pipelines & service connection for proper zoning Original Amount for Road Restoration: Rs.2.5Cr. Actual Amount required for Road Restoration: Rs.8.96Cr.	In the case of PWD roads, the estimate was prepared considering the cutting width (1.5m) and re-tarring for the full width of roads under DLP (5m).	
Moothanthara Zone – 47.613km (600mm DI K9, 200mm DI K9 & 160mm PVC) Construction of Transformer Room Original Amount for Road Restoration: Rs.3.03Cr. Actual Amount required for Road Restoration: Rs.9.86Cr.	In the case of ULB roads the estimate was prepared for cutting width (1 to 1.5m) and tarring for full width of roads (3m) as the pipes are laid through the centre line of roads damaging the entire width.	
Kalmandapam Zone – 43.996km (450mm DI K9, 200mm DI K9 & 160mm PVC) Original Amount for Road Restoration: Rs.2.53Cr.	Total 75km ULB road, 12km PWD	

Actual Amount required for Road Restoration: Rs.11.96Cr.	Road, 4.5km PWD - NH & 2.6km NHAI. Restoration is required only for BM/BC cuttings.	
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Decision Taken: The SHPSC decided to sanction Additional cost due to the Road Restoration charge amounting to Rs.30.82Cr utilizing the fund from the Savings from Water Supply (SAAP 1, 2 & 3) – Rs.12.21Cr., Septage & Sewerage (SAAP 1 & 2) – Rs.17.26Cr. and Storm Water Drainage (SAAP 1, 2 & 3) – Rs.1.35Cr.

4.10: Kannur Corporation – KWA- Water Supply Sector -Sanction to execute 4950 new house connections

Kannur Municipal Corporation had obtained administrative sanction for 114.47Cr. in the water supply sector under 12 sub-projects. These projects had obtained technical sanction for 114.47Cr. and all the works were awarded. These works are under good progress, with pipe laying completed for 3 projects, 95% completed for 5 projects & 75% completed for remaining 4 projects.

AS Amount: Rs.114.47Cr.

In the approved DPRs there was provision only for reconnecting the existing house connections to the new supply lines and no provision was made for the new house connections. Kannur Municipal Corporation informed that, if the new house connections are provided during the pipe laying time itself, it will help the Kerala Water Authority to provide connections in a single stretch and not to cut the roads later for providing connections. Also, the beneficiaries will get the water supply during the commissioning time itself.

Kerala Water Authority had given an additional proposal of 4950 new house connections (including Water Meter) for Elayavoor Zonal, Edakkad Zonal and Pallikkunnu-Puzhathi Zonal where the proposed AMRUT projects are under progress. The estimated cost is **Rs. 2.92 Cr.**

Additional Amount Required: Rs.2.92Cr.

The Municipal Council held on 29.08.2019 decided to approve the revised proposal of Kerala Water Authority and recommended for the approval of SHPSC (Annexure-5)

KWA is expecting **Rs.2.50Cr.** savings in SAAP-I from the project, 'Laying Gravity Main from JICA project at Mangattuparamba to Pallikkunnu OHSR'. Also, there is a savings of **Rs.3.39Cr.** in the Storm Water Drainage Sector SAAP-III and **Rs.3.72Cr.** savings in the Urban Transport Sector – SAAP II.

Decision Taken: The SHPSC approved the proposal of 4950 new house connections (including Water Meter) at an estimated cost of Rs.2.92Cr. utilizing the fund from the savings of Water Supply Sector (SAAP-I) - Rs.2.50Cr. from the project, 'Laying Gravity Main from JICA project at Mangattuparamba to Pallikkunnu OHSR'. and savings of Rs.3.39Cr. from the Storm Water Drainage Sector (SAAP-III) and Rs.3.72Cr. savings from the Urban Transport Sector (SAAP II).

4.11: Revision of AS – Kollam – Water Supply Sector – Augmentation of Water Supply Scheme to Kollam (2015-16, 2016-17 & 2017-18 – Phase-1, II & III)

As per the Resolution no.69 of the Council held on 14.10.2019, the Secretary of Kollam Corporation, vide Letter No. CSSS1/48036 dated 15.10.2019 (Annexure-6), had requested to revise the AS.

AS Amount: Rs.78.35Cr. (as a single work)

AS Date: 28.09.2017

TS Amount: Rs.92.08Cr.

Excess Amount: Rs.13.73Cr.

This project had multiple work components for which TS was issued separately. The details of these work components are as follows:

1) Construction of Weir at Njankadavu across Kallada river:

Apportioned Cost: Rs. 13.98Cr. (prepared by using DSR-2014)

TS Amount: Rs.25.86Cr. (increase of Rs.11.88Cr. – 84.98% from apportioned cost)

TS Date: 04.09.2019

Reason for AS Revision: Final estimate for this work was prepared by Irrigation Department using DSR-2016 for an amount of Rs.25.86 Cr. Increase in TS is due to the change in DSR from 2014 to 2016.

Work Award Status: Tendered with due date as 26.10.2019 & opening date 28.10.2019.

2) Construction of 12m dia. Intake Well at Njankadavu:

Apportioned Cost: Rs.1.59Cr.

TS Amount: Rs.1.93Cr. (increase of Rs.0.34Cr. – 21.38% from apportioned cost)

TS Date: 22.12.2017

Reason for AS Revision: The increase in TS amount was due to the change in DSR from 2014 to 2016.

Work Award Status: Work awarded (Awarded Cost: Rs.2.01Cr. & Date: 19.03.2018) & in progress.

3) Design, construction, commissioning & maintaining of 100MLD WTP at Vasoorchira:

Apportioned Cost: Rs.55.07Cr.

TS Amount: Rs.57.12Cr. (increase of Rs.2.05Cr. – 3.72% from apportioned cost)

TS Date: 07.03.2018

Reason for AS Revision: The increase in TS amount was due to the change in DSR from 2014 to 2016.

Work Award Status: Work awarded (Awarded Cost: Rs.43.92Cr. & Date: 20.12.2018) & in progress.

4) Supplying laying commissioning & maintaining 500mm DI K9 CWPM (3520m) from WTP at Vasoorchira to OHSR at Vadakkevila:

Apportioned Cost: Rs.4.73Cr.

TS Amount: Rs.4.33Cr. (decrease of Rs.0.40Cr. – -8.46% from apportioned cost)

TS Date: 15.12.2017

Reason: decrease happened after detailed estimation.

Work Award Status: Work awarded (Awarded Cost: Rs.3.86Cr. & Date:23.07.2018) & in progress.

5) *Clear Water Pumping Main – 350mm DI (150m) from WTP at Vasoorchira to 2ML OHSR at WTP:*

Apportioned Cost: Rs.0.09Cr.

TS Amount: Rs.0.10Cr. (increase of Rs.0.01Cr. – 11.11% from apportioned cost)

TS Date: 25.06.2019

Reason for AS Revision: The increase in TS amount is due to revision of estimate incorporating GST.

Work Award Status: Retendering process initiated after revising the estimate incorporating GST.

6) *Transformer & Power Line extension:*

Apportioned Cost: Rs.0.47Cr.

TS Amount: Rs.2.75Cr. (increase of Rs.2.28Cr. from apportioned cost)

Reason for AS Revision: As decided in the 21st SHPSC an amount of Rs.2.75Cr. was envisaged for this work.

Work Award Status: This is a deposit work involving KSEB. This amount has been remitted to them & the work is in progress.

Out of the excess amount of Rs.13.73Cr., Rs.8.25Cr. could be taken from the savings which have been already approved by SHPSC as follows:

A. UT Sector: Rs.2.69Cr. (Decision No.7 of the 16th SHPSC dated 13.03.2018)

B. SWD Sector: Rs.3.02Cr. (Decision No.21.A.3 of the 21st SHPSC dated 27.02.2019)

C. Parks Sector: Rs.1.50Cr. (Decision No.21.A.3 of the 21st SHPSC dated 27.02.2019)

D. Water Supply Sector: Rs.1.04Cr. (Decision No.21.A.3 of the 21st SHPSC dated 27.02.2019)

Total Savings from A to D: Rs.8.25Cr.

Excess amount after Savings: 5.48Cr. (Rs.13.73Cr. – Rs.8.25Cr.)

Decision Taken: *The SHPSC accorded revised AS for the work 'Augmentation of Water Supply Scheme to Kollam' amounting to Rs.92.08Cr. on condition that the excess amount should be met from the savings amounting to Rs.8.25Cr. (UT Sector-Rs.2.69Cr., SWD Sector-Rs.3.02Cr., Parks Sector- Rs.1.50Cr., Water Supply Sector: Rs.1.04Cr.). Excess amount after Savings (Rs.5.48Cr.) should be borne by ULB.*

Agenda Item No.5: PROJECTS BEING IMPLEMENTED BY ULB

5.1: Alappuzha Municipality - Revised AS for the work - SEWERAGE & SEPTAGE SECTOR - SAAP III - 15 KLD Sewerage Treatment Plant at Shatabdi Mandiram In Alissery Ward

As per the Council held on 20.08.2019 vide resolution No. 26, Secretary, Alappuzha Municipality, vide Letter dated 20.8.2019 (Annexure-7), has requested revised Administrative Sanction for the work -15 KLD Treatment Plant at Shatabdi Mandiram in Alissery Ward.

Details of Work	Reason for Revision	Source of Fund
AS Amount: Rs.30Lakh AS Date: 30.03.2019 TS is Awaited Excess Amount: Rs.14.21Lakh (47.37% increase) Revised AS Amount requested: Rs.44.21Lakh	The Preliminary report was prepared with the market rates prevailed during the year 2018. Increase in rate of mechanical items in DPR during the current financial year increased the cost. Also, as per the GO: GST/2017/ LSGD dated 26.03.2019, an additional GST component of 12% was included in the estimate before tendering.	Total allocation under Sewerage / Septage Sector is Rs.10.09 Cr. An amount of Rs 6Cr. is allocated under SAAP-III of which AS for Rs.1.1Cr has been accorded so far. Hence there is a saving of Rs 4.9 Cr. in the SAAP-III.

Decision Taken: The SHPSC accorded revised AS for the work - 15 KLD Sewerage Treatment Plant at Shatabdi Mandiram in Alissery Ward (SEW& SEP SECTOR - SAAP III) amounting to Rs. 44.21Lakh. on condition that the excess amount of Rs.14.21Lakh should be met from the savings from Sewerage / Septage Sector (SAAP III)- Rs 4.9 Cr.

5.2: Alappuzha Municipality - Revised AS for the work - URBAN TRANSPORT - SAAP I- FOB across Muthalapozhi

As per the Council resolution No. 06 dated 20.08.2019, the Secretary, Alappuzha Municipality, vide letter dated 20.08.2019 (Annexure-8), has requested revised Administrative Sanction for the work - FOB across Muthalapozhi.

Details of Work	Reason for Revision	Source of Fund
AS Amount: Rs.22 Lakh AS Date: 13.11.2017 TS Amount: Rs.16 Lakh TS Date: 02.03.2018 Excess Amount: Rs.13Lakh (59.09% increase) Revised AS Amount requested: Rs.35Lakh Work awarded on: 25.06.2019 Name of Consultant: M/s.KITCO Ltd. Contractor has not executed the Agreement.	When work was about to start, a test piling was done with coconut poles and the pile test failed. As the site is inaccessible for the transportation of barge/piling unit, the driving of precast pile is not feasible. Hence the design has been revised from the pile structure to box type structure. The estimate has been revised based on the new cost index and GST provision. And the final estimate is Rs.35Lakh. The excess amount for the same may be utilised from the cancelled project namely FOB between outpost and KSRTC - Rs.29Lakh	The excess amount of Rs. 13 Lakh can be met from the saving in SAAP 2016-17.

Decision Taken: The SHPSC accorded revised AS for the work- **FOB across Muthalapozhi (UT - SAAP I)** amounting to Rs.35Lakh. on condition that the excess amount of Rs.13Lakh should be met from the Savings from SAAP 2016-17.

Agenda Item No.5.3: Alappuzha Municipality – Request for Cancellation of Works

List of Projects to be Cancelled					
SL No	Sector & Name of project	SAAP	AS Amount (in Lakh)	Reason for Cancellation	Remarks
1	Storm water drainage - Drain near Munnodi road culvert to Malikamukku St.Joseph road culvert	2017-18	6.50	Work completed by Irrigation department	Alappuzha Municipal Council held on 5.7.2019 vide resolution No.3 cancelled the 6 sub projects (Annexure-9).
2	Storm water drainage - Drain near Chathanad Ration shop	2017-18	25.00	Work completed by utilizing Plan fund	
3	Urban transport - FOB across Ambalapuzha canal	2015-16	20.00	No bidder turned up to undertake the project even after several tenders	
4	Urban transport - FOB across Ramapuram Thodu	2015-16	15.00	Road widening proposal by KRFB	
5	Urban transport - FOB opposite KSRTC bus stand	2015-16	29.00	Work taken up by other Agencies	
6	Urban transport - Pedestrian network from Nehru Trophy starting Point to finishing point.	2016-17	197.00		
Total Amount for Cancelled Projects			292.50		

Decision Taken: The SHPSC approved the cancellation of 2 SWD projects & 4 UT projects of Alappuzha Municipality, amounting to Rs.2.93Cr.

5.4: Alappuzha Municipality –AS for newly proposed work – 50 KLD Sewage Treatment Plant and Associated Networks at Thottumadi Colony for an amount of Rs.2.24 Cr.

The Secretary, Alappuzha vide letter dated 28.08.2019 has requested Administrative Sanction for 50KLD Sewage Treatment Plant and Associated Networks at Thottumadi Colony for an amount of Rs 2.24 Cr.

The total amount allocated for Septage/Sewerage Sector for Alappuzha Municipality is Rs.10.09 Cr. An amount of Rs.6Cr. is allocated under SAAP III of which AS for Rs.1.1Cr. has been accorded so far. Hence there is a saving of Rs.4.9Cr. in the SAAP III. The consultant has prepared the DPR for

this work for an estimated cost of Rs.2.24Cr. The Municipal council held on 20.08.2019 vide resolution No. 10 (Annexure-10) had decided to place the agenda before the SHPSC for approval.

AS Amount: Rs.2.24Cr.

Decision Taken: *As the Municipal Engineer Sri. Anil Kumar assured the Committee that the work can be awarded by Dec 2019, the SHPSC accorded Administrative Sanction for the work – ‘50 KLD Sewage Treatment Plant and Associated Networks at Thottumadi Colony’ (SEW/SEP) amounting to Rs.2.24Cr. utilizing the savings in Septage/Sewerage Sector-SAAP III.*

5.5: Alappuzha Municipality - AS for new works in Storm Water Drainage Sector at an estimated cost of Rs.1.28 Cr.

The Municipal Chairman, Alappuzha vide letter dated 30.08.2019 has requested Administrative Sanction for 4 works in Storm Water Drainage Sector for an amount of Rs.1.28 Cr. Total amount of Rs. 48.17 Cr. has been allocated to the Storm water drainage sector for 144 works. Out of this, 40 works have been completed and there is a savings of Rs.1.3Cr. (from the TS amount to final bill amount). Total number of SWD projects in Alappuzha is 144nos & SWD network length is 42km. The Municipal Council held on 01/08/2019 vide resolution No 04, (Annexure-11) approved the same and recommended for SHPSC.

Details of proposed work are as follows:

Sl No.	Name of work	Estimate Amount (in Lakh)
1	Improvement of Shadamani Thodu in Valiamaram Ward	49.00
2	Improvement of Shadamani Thodu in Municipal Office Ward	25.00
3	Construction of new drain from South end of SD College in NH47 to Govt. LPS Kalarkode in Kalarkode ward	44.00
4	Malika parambu road drainage in Eravukad Ward	10.00
TOTAL		128.00

Decision Taken: *As the Municipal Engineer Sri. Anil Kumar assured the Committee that the work can be awarded by Dec-2019 & will be completed by Mar-2020, the SHPSC accorded Administrative Sanction for 4 SWD works amounting to Rs. 1.28 Cr. utilizing the savings from the completed works, as requested above.*

5.6: Guruvayur Municipality - Revised AS for the work URBAN TRANSPORT SECTOR - Construction of foot paths in 4 locations in Temple Circle Areas

As per the Council held on 14.10.2019 vide resolution No. 01, the Secretary, vide letter no. E5-16195/19, 10851/18 dated 18.10.2019 (Annexure-12), had requested revised Administrative Sanction for the work - Construction of foot paths in 4 locations in Temple Circle Areas.

Details of Work	Reason for Revision	Source of Fund
AS Amount: Rs.8.17Cr. AS Date: 27.09.2017 TS Amount: Rs.8.17Cr. Excess Amount: Rs. 40 Lakh. (4.89% increase) Revised AS Amount requested: Rs.8.57Cr. Work awarded on: 11.05.2018 Name of Consultant: M/s. ISA	Now 80 Lamp Posts & 11 LED Lights are required to be erected on the footpaths for an estimated additional amount of Rs.40Lakh, which was not envisaged earlier.	The additional amount of Rs.40Lakh has to be taken from the savings in the Urban Transport Sector (MLCP work). In the same resolution the Secretary mentioned that as per the Municipal Engineer's report the additional amount required can be borne by the Guruvayur Devaswom.

Decision Taken: As the Municipal Secretary, Guruvayur Sri. A.S. Sreekumar assured the Committee that the additional cost amounting to Rs.40 Lakh will be borne by Guruvayur Devaswom & that the Council resolution in this regard will be obtained shortly, the SHPSC accorded revised Administrative Sanction for work - Construction of foot paths in 4 locations in Temple Circle Areas amounting to Rs.8.57Cr. without any additional commitment to Govt.

5.7: Thrissur Corporation - Revised AS for the work - PARKS & GREEN SPACES SECTOR - Nehru Park Phase-I

As per Council held on 21.10.2019, resolution No.18 (Annexure-13), Secretary of Thrissur Corporation, vide Letter No.DW7/22785/15 dated 18.10.2019 had requested to revise the AS.

AS Amount: Rs.0.91Cr.
TS Amount: Rs.0.91Cr.
Work Awarded on: 05.06.2018
Awarded Cost: Rs.0.63Cr.
Revised AS required for: Rs.1.32Cr.
Excess Amount required: Rs.41Lakh (45.55%)
Name of Consultant: M/s. Suresh Babu & Partners

Reason for Revision:

Sl No.	Item of Work	Reason for Revision	Source of Fund
1	Civil works Rs.64.77Lakh increased to Rs.80.75Lakh	Demolishing existing aquarium, musical fountain pond, seating and hand rail for musical fountain, interlocking paver block and land scaping were included in civil work. 20 Nos extra items amounting to Rs. 388112/- needed for the work and there is quatity variation for all the items in	This excess amount can be taken from the savings of Rs.41Lakh from Phase-II & Phase-III works of the same park sector. Nehru Park

		the civil work	Phase-II (SAAP-II) is having an AS amount of Rs.0.75Cr with an expected savings of Rs.0.35Cr & Nehru Park Phase-III (SAAP-III) is having AS amount of Rs.1.00Cr with an expected savings of Rs.0.06Cr.
2	Providing and fixing musical fountain set Rs.19.75Lakh increased to Rs.44.93Lakh	Water effects of musical fountain proposed in the original estimate was not sufficient enough to cover the pond area. Enquiries were done by the park committee at Corporation level for the selection of a suitable musical fountain proportionate to the pond size and aesthetics. A better design was selected from the presentations of vendors, and specification of the same was adopted for making an estimate by collecting market rate from different vendors.	

Decision Taken: The SHPSC accorded revised Administrative Sanction for the work - Nehru Park Phase-I amounting to Rs.1.32Cr. utilizing the fund from savings of Rs. 41Lakh from Phase-II & Phase-III works of the Nehru Park.

5.8: Palakkad Municipality: Administrative Sanction to take up additional 2 works utilizing tender Savings (Rs.3.86Cr in SWD Sector and UT Sector and Rs.71lakh from the savings of cancelled projects in SWD Sector and Parks & Green Spaces Sector)

As per the Council held on 14-10-2019 vide its resolutions 2353, 2354 and 2355 (Annexure-14), Secretary, Palakkad Municipality vide letter No.E1-1685/2017 dated 17.10.2019 has requested, to utilize the savings for taking up two additional works (Yard at Stadium Bus Terminal – Rs.1.85Cr. & Rejuvenation of Kottaimaithanam for Rs,1,37Cr).

Details of Work	Reason for Revision	Source of Fund
UT- Yard at Stadium Bus Terminal		
AS Amount: Rs.3.18Cr. AS Date: 27.09.2017 TS Amount: Rs.3.18Cr. TS Date: 25.02.2019 Excess Amount: Rs.1.85Cr. (58.17% increase) Revised AS Amount requested: Rs.5.03Cr.	In the approved DPR of Stadium bus terminal project (AS-Rs.3.18Cr), provision was made for Bus Terminal as well as yard. But due to the subsequent change of design from isolated footings to pile foundation as recommended by the NSS Engineering College Expert team, the original estimate was revised and yard construction component was completely excluded. Since the Bus Terminal project would be incomplete without the construction of yard, detailed estimate for yard	Municipal Council has decided to earmark the unutilized savings from UT Sector (SAAP 1, 2 & 3) Rs. 96,00,000/- and SWD Sector (SAAP 1, 2 & 3) Rs. 89,00,000/- for the construction of Bus Stand Yard. There are 86 SWD projects & 31 UT projects. Almost 33km of drain is being constructed in SWD sector. Most of the works are awarded below the estimated rate. Hence the savings.

	construction was prepared by the LSGD Engineering wing for Rs. 1.85Cr.	
Details of Work	Reason for Revision	Source of Fund
Rejuvenation of Kottaimaithanam Park - Phase 2 – New Work		
AS Amount: Rs.1.04Cr. AS Date: 26.03.2016 Excess Amount required: Rs.1.62Cr. Total Project Cost: Rs.2.66Cr.	<p>Administrative Sanction was accorded for Rs. 1.04 Cr for the Rejuvenation of Kotta Maidhan Park Phase -1 in SAAP – 2015-16. (The original scope of work included a compound wall for the entire Fort Maidan, an open stage, toilet block, Children play area, Walkways with Kerbs using designer top tiles, Entry and Exit Gates, Landscaping, Tree Guards, benches and electrification etc.)</p> <p>Technical Sanction for the work-Compound wall with course rubble masonry was issued for Rs.85.80 Lakh and the work was awarded. During the execution, as per the direction of the Municipal council the boundary wall of fort Maidan was constructed using the Ashlar Masonry works, in order to match the masonry design of existing Palakkad Fort and RCC tree guards were provided for all the trees to avoid tree cutting, which were not in the existing estimate. Hence, the boundary wall could not be completed within the AS Amount of 85.80 Lakhs.</p> <p>Therefore, Palakkad Municipality decided to complete the balance portion of boundary wall (Rs.25 lakh) and to develop the entire Fort Maidan similar to their initial proposal for Rs.1.37Cr. (entry & exit Gates, Walkways using designer tile tops, developing the Martyr's Square area, soft landscaping etc.</p>	<p>Savings of Rs. 25,00,000/- from the unused SAAP amount in SAAP 2016-17 and from the Storm Water Drainage Sector (SAAP1,2 &3): Rs.96,02,406/- and Parks (SAAP 1, 2 &3): Rs. 41,00,000/-</p>

Decision Taken: As the Municipal Secretary Sri. Raghu Raman assured the Committee that the work can be awarded by Dec-2019 & will be completed by Mar-2020, the SHPSC accorded Administrative sanction to take up additional 2 works:

UT- Yard at Stadium Bus Terminal utilizing the unutilized savings from UT Sector (SAAP 1, 2 & 3) Rs.96,00,000/- and SWD Sector (SAAP 1, 2 & 3) Rs.89,00,000/- &

Rejuvenation of Kottaimaithanam Park - Phase 2 utilizing the Savings of Rs.25,00,000/- from unused SAAP amount in SAAP II and from the Storm Water Drainage Sector (SAAP1,2 &3)- Rs.96,02,406/- and Parks (SAAP 1, 2 &3): - Rs.41,00,000/-

5.9: Kannur Corporation – Award of Multi Level Car Parking project with Tender Excess 24.9%.

The Secretary, Kannur Corporation vide letter dated 04.09.2019 requested for awarding the MLCP Project with tender excess 24.9%. It is reported that no bidders were participated in the first bid and on retendering, single bid was received. The single bidder M/s.Adisoft Technologies Private Limited had quoted Rs.11.71Cr. (30.95% above) for the work in Stadium premises & bank road. The PAC value of the project is Rs.8.94Cr.

On negotiation with the company on 30/08/2019, the amount has been reduced to Rs.11.17Cr. which is **24.9%** (i.e. Rs.2.23Cr.) higher than the estimate rate.

The Secretary informed that excess amount can be allocated from the savings of Rs.3.6Cr. from the same sector in SAAP-II. The Municipal Council held on 05.10.2019 vide resolution No.1 (Annexure-15) approved the same and recommended for SHPSC decision.

Decision Taken: SHPSC observed that out of the total MLCP projects awarded in Trivandrum and Kollam, the average tender excess is less than 5%. Hence the SHPSC suggested to explore the possibility of inviting NHIDCL (National Highways and Infrastructure Development Corporation), a fully owned company of the Ministry of Road Transport & Highways, Government of India to execute the MLCP at Kannur. The Chairman directed the Secretary of the Corporation to visit the MLCP constructed by NHIDCL at Transport Bhavan, Delhi within 3 days.

Agenda Item No.6: O & M Agency for Parks

Under AMRUT there are 73 projects under Park Sector, amounting to a total project cost of Rs.49.89Cr. out of which 13 projects have been completed. It is observed that diligent efforts are not seen taken by ULBs on the parks completed, to ensure proper maintenance & up keep of assets created. If the grass is not mowed regularly & plants trimmed, watered, fertilizers applied in time, the greenery created can give an unkept look, thereby inviting criticism from public & media. Independent Review & Monitoring Agency (IRMA) in its deliverables, is required to inspect all completed projects & report on the upkeep to GOI. Reporting Format for Parks in the Post-Construction Stage the following has to be reported:

- 1) List of operational performance of the project since trial run / commissioning stage to the period of inspection:

- a) Performance of the equipment & playing instruments
- b) Break downs (Number of Days / Number of Times)
- c) Is the project meeting all functional requirements?
- 2) Provide details of the performance of the contractual obligations relating to the aspects related to plants, machinery & projects.
- 3) Report on impact on beneficiary community from the project.
- 4) Provide details on the assessment of the O & M performance for the project, specifically of its adequacy, financial arrangement & sustainability.

As IRMA is provided with separate Reporting Format for Park Sector but standard Reporting Format for all other Sectors, it is clear that the Park Sector is given great importance and as per AMRUT Guidelines, O & M has to be arranged by the concerned ULBs for parks that have come under the Post-Construction Stage.

ULBs may find it difficult to employ enough staff for security, watering plants & monitoring the equipment as well as arrange funds for the recurring expenditure for electricity charges, water charges etc; from their own funds. Hence it is suggested to treat each park as a business enterprise & call for expression of interest from interested private players to take up management of these parks to:

- Provide the necessary man power & machinery required for maintaining the park in a Safe, Child friendly, Senior Citizen friendly & Divyang friendly manner as per the AMRUT guidelines & as per the instructions given by the ULB.
- Maintain the trees & plants in the park properly and keep the park free of unwanted shrubs.
- Maintain all the facilities provided in the park including child friendly play equipment, lights etc; & maintain a break down register for the same.
- Remit the electricity, water & any other utility service bills of the park in a timely manner & maintain the record of the same in a professional manner.
- Keep the park open for use from morning to night as per the time schedule provided by the ULB & collect a reasonable Entry Fee, as approved by the ULB, from the people who use the park.
- Set-up amenities like food court, play zone, video game kiosks etc; inside the park at their own cost & collect User Fee for the
- same after taking the consent of ULB.

Option may be given to the prospective bidders to quote the amount that will be remitted to ULB as Premium Fee annually / quote the amount that will be required as grant annually from ULB for maintaining the park. The prospective bidder who quotes the highest amount that will be remitted as Premium Fee to ULB annually / quotes the lowest amount that will be required as grant annually from ULB shall be made the O & M Agency for the park for an initial period of 5 years & which can be extended further.

By operating & maintaining the park in the above-mentioned manner the ULB can maintain the park in a proper way & perhaps generate reasonable revenue from it.

Decision Taken: *SHPSC approved the proposal, put forward by SMMU, of inviting bids from companies interested in taking up the O&M of parks.*

Agenda Item No.7: IRMA - Request of IRMA (M/s. WAPCOS) to consider the proposal for substitutes

Ministry of Housing and Urban Affairs Department selected M/s WAPCOS Ltd, Gurugram as Independent Review and Monitoring Agency (IRMA) for AMRUT Mission, Kerala. The agreement with IRMA was executed on 01.03.2019. The scope of services carried out by IRMA is to monitor all projects in all the stages of project execution. 21st SHPSC held on 27.02.2019 approved the staffing schedule proposed by M/S WAPCOS and kick off meeting held on 1st April 2019. M/s. WAPCOS, vide their letter No.WAP/KERALA/2019/0921/928 dated 21.10.2019 (Annexure-16), have requested Mission Director to consider the proposal for substitution of staff. In their letter, it has informed that the Team Leader for IRMA, Mr. Haris filed his resignation because of some health issues. In this circumstances WAPCOS proposed Mr. Swaminath, who is now working as the Technical Expert with IRMA and having the same qualification and experience as Mr. Haris (CV of Mr. Swaminath is enclosed herewith). WAPCOS has also been submitted 2 more CVs of Senior Engineers to select one among them in place of Mr. Swaminath as the Technical Expert.

Illustrative comparison of the original and replacement staff proposal of M/s. WAPCOS is given below for deliberations and decisions:

Position	Technical expert selected for IRMA	Qualification	Experience	Proposal for substitution	Qualification	Experience
TEAM LEADER	Mr.Haris.S	<ul style="list-style-type: none"> Bachelor of Engineering (Civil). M.Tech in Environmental Engineering. MSC (Sanitary Engineering) MBA 	32 years of experience in <u>KWA</u> from Assistant Engineer to Chief Engineer.	Mr. Swaminath Age-56 years	<ul style="list-style-type: none"> Bachelor of Engineering (Civil). M.Tech in Environmental Engineering. MBA P.G Diploma in computer aided design of concrete structures. 	32 years of experience in <u>KWA</u> from Assistant Engineer to Chief Engineer.
TECHNICAL EXPERT	Mr. Swaminath	<ul style="list-style-type: none"> Bachelor of Engineering (Civil). M.Tech in Environmental Engineering. MBA P.G Diploma in computer aided design of concrete structures. 	32 years of experience in <u>KWA</u> from Assistant Engineer to Chief Engineer.	Ajayan.V.K Age- 56 years	<ul style="list-style-type: none"> Bachelor of Engineering (Civil). M.Tech in Environmental Engineering. 	26 years of experience in <u>KWA</u> from Assistant Engineer to Superintending Engineer.
				Yusuf. M.O Age- 57 years	<ul style="list-style-type: none"> BSc- Civil Engineering. 	27 years of experience in LSGD from Assistant Engineer to Superintending Engineer.

Decision Taken: The SHPSC approved the revised staffing schedule proposed by M/s. WAPCOS except for the candidature of Sri. Yusuf M.O.

Agenda Item No.8: Reform Incentive for the year 2018-19 & strategy for the utilization & distribution of funds to Mission Cities

AMRUT Mission envisages improving governance through a set of 11 urban reforms which have to be implemented by achieving 54 milestones over a period of 5 years (2015-20) which are detailed in the Mission guidelines. These reforms have to be implemented in the Mission cities. AMRUT incentivizes reform implementation by setting aside 10% funds of annual budgetary allocation as incentives for the State.

Out of the 54 milestones, 3 milestones have to be accomplished in the financial year 2018-19. A self-assessment score card of reforms implementation by ULBs approved by the State Mission Director has to be submitted annually to MoHUA to claim the reforms incentive.

In line with the above, the state had submitted its claim for reforms accomplishment for the year 2018-19 with all supporting documents to MoHUA on 29.04.2019. Based on the assessment done by Central Ministry, Kerala was accorded a score of 24.5 (Out of 30) for achieving milestones specified in the reform incentive toolkit for the year and awarded an amount of Rs.12.25 Cr. as reform incentive for the year 2018-19.

In addition to the above, SHPSC may consider the proposal of SMMU to distribute the incentive of Rs. 12.25Cr. for the reform milestones of 2018-19 based on the weightages "Performance in Project Implementation - 75% and Reform Implementation - 25% (Annexure-17)" as per the breakdown given below:

Reform Incentive Distribution 2018-19

(Amount in Cr.)

<i>Sl No</i>	<i>AMRUT City</i>	<i>Project Performance (75%)</i>	<i>Reform Performance (25%)</i>	<i>Total</i>
1	Thiruvananthapuram	1.21	0.26	1.47
2	Guruvayoor	0.89	0.27	1.16
3	Kochi	0.85	0.25	1.10
4	Thrissur	0.81	0.25	1.06
5	Palakkad	0.75	0.24	0.99
6	Alappuzha	0.73	0.26	0.99
7	Kannur	0.66	0.27	0.93
8	Kozhikode	0.62	0.26	0.88
9	Kollam	0.42	0.25	0.67
10	SMMU			3.00
	TOTAL	6.94	2.31	12.25

SMMU proposes the above distribution to the Mission Cities after retaining Rs. 3 Cr. with the State Mission Management Unit.

Decision Taken: SHPSC approved the proposal, put forward by SMMU, for distributing the Reform Incentive

Additional Agenda Item No.1: Revision of AS for Kochi – Sewerage Sector – Rehabilitation of 5MLD STP plant at Elamkulam

Details of Work	Reason for Revision
AS Amount: Rs.13.70Cr. AS Date: 01.01.2018 TS Amount: Rs.13.70Cr. Tendered PAC: Rs.11.63Cr. Lowest Quoted Amount: Rs.14.45Cr Excess Amount: Rs.2.82Cr. (24.24% increase) Anticipated Revised AS Amount: Rs.16.52Cr. (Rs.13.70Cr. + Rs.2.82Cr.)	<ol style="list-style-type: none"> 1. There are very few Contractors/firms in the field of Municipal Sewage treatment in the State and hence the bidders are fewer. 2. This is small project costing around Rs. 11 Crores but all mechanical components and machinery for each unit are required. 3. The water table is very high in the proposed location and special precautions have to be taken during excavation for foundation. <p>Current Status: The consortium partner of the single bidder, is a registered Limited Company registered in New Jersey, United States of America, they had already participated in tenders in Kerala and work awarded by Irrigation Department and KSUDP.</p> <ul style="list-style-type: none"> • The tender was placed before the 409th meeting of KWA held on 17/05/2019 and the Authority vide resolution No. 10841, resolved to obtain legal opinion from a leading law firm or designated Senior Advocate and to inform the Government. • Accordingly, legal opinion was sought for from the legal consultant M/s Menon & Pai, Advocates. The legal opinion is that M/s. Marymatha Tomar Consortium does qualify as a “Contracting firm in India”, there by meeting the eligibility criteria as laid down in the tender. • The legal opinion was submitted to Government on 29/07/2019.

Decision Taken: As the Secretary, Kochi Corporation Smt. R.S. Anu agreed to obtain Council approval for the tender excess, the SHPSC decided to approve the 24.24 % tender excess and accorded revised AS for the work - Rehabilitation of 5MLD STP plant at Elamkulam amounting to Rs.16.52Cr.(Rs.13.70Cr. + Rs.2.82Cr.) on condition that excess amount should be met from the SAAP Savings in Kochi. The responsibility of ensuring that the work will be awarded by Dec- 2019 lies with Sri.R.S. Anu, Secretary, Kochi Corporation which will form part of her Performance Appraisal.

Additional Agenda No.2: Revision of AS for Trivandrum – Sewerage Sector

1. Construction of Sewerage Pump House at Edathara in Thiruvananthapuram

Details of Work	Reason for Revision
AS Amount: Rs.5.87Cr. AS Date: 23.02.2017 TS Amount: Rs.5.57Cr. Tendered PAC: Rs.5.56Cr. Lowest Quoted Amount: Rs.8.20Cr. Excess Amount: Rs.2.64Cr. (47.37 % increase) Anticipated Revised AS Amount: Rs.8.51Cr. (Rs.5.87Cr. + Rs.2.64 Cr.)	<ul style="list-style-type: none"> • High quoted rate for the subject tender is that the site for the construction of pumping station is slushy soil and there is high risk of tilting of the well. • The site is adjacent to the Amayizhanjan thodu. Throughout the year there will be water, hence quantity of bailing out of water will be more and the scheduled rate for bailing out of water is less compared to the market rate. • Due to slushy soil, during dredging out of soil, possibility of caving in resulting in collapse of nearby structures is likely. Hence heavy precautionary measures to be taken to avoid collapse of nearby structures. Connection pipeline to the well has to cross Amayizhanjan thodu at above 10 metre depth from ground level. • Since the pumping station included in the subject work, is the terminal pumping station and if not executed, the other works arranged under AMRUT for the completion of the whole project will not be fruitful. • Since this is the third tender call, chances for getting better offer is remote.

Decision taken: As the Secretary, Thiruvananthapuram Corporation Smt. L.S. Deepa agreed to obtain Council approval for the tender excess, the SHPSC decided to approve the 47.37 % tender excess and accorded revised AS for the work - Construction of Sewerage Pump House at Edathara in Thiruvananthapuram amounting to Rs.8.21Cr. (Rs.5.57Cr. + Rs.2.64Cr.) on condition that excess amount should be met from the SAAP Savings in Trivandrum. The responsibility of ensuring that the work will be awarded by December 2019 lies with Smt.L.S. Deepa, Secretary, Thiruvananthapuram Corporation which will form part of her Performance Appraisal.

2. Providing new networks (Sewerage facility in the Kalladimugham Housing Colony):

Details of Work	Reason for Revision
AS Amount: Rs 9.47Cr. AS Date: 01.01.2018 TS Amount: Rs.9.39Cr. Tendered PAC: Rs.6.37Cr. Lowest Quoted Amount: Rs.10.13Cr. Excess Amount: Rs.3.76Cr. (59 % increase) Anticipated Revised AS Amount: Rs.13.23Cr. (Rs.9.47Cr. + Rs.3.76Cr.)	<ul style="list-style-type: none"> • High quote is due to high risk factor in execution in slushy soil. • Work also includes network in narrow roads resulting in conveyance of excavated soil to & fro from the site. • Water logged area (Presence of river very close to site). • Carrying out of the work is absolutely essential to abate river (Karamana river) pollution due to sewage discharge. National Green Tribunal (NGT) has passed severe criticism on river pollution. • Since this is the third tender call, chances for getting better offer is remote.

Decision Taken: As the Secretary, Thiruvananthapuram Corporation Smt. L.S. Deepa agreed to obtain council approval for the tender excess, the SHPSC decided to approve the 59% tender excess and accorded revised AS for the work - Providing new networks (Sewerage facility in the Kalladimugham Housing Colony) amounting to Rs.13.15Cr. (Rs.9.39Cr. + Rs.3.76Cr.) on condition that excess amount should be met from the SAAP Savings in Thiruvananthapuram. The responsibility of ensuring that the work will be awarded by December 2019 lies with Smt.L.S. Deepa, Secretary, Thiruvananthapuram Corporation which will form part of her Performance Appraisal.

3. Providing sewer trunk main from Kazhakoottam area to Pumping Station of Block-I through the bank of Thettiyar Thodu - collection & conveyance system, pumping station, pumps & electrical installation and pumping mains:

AS Amount:	Rs.9.8Cr. (4 Works)
AS Date:	02.11.2017
TS Amount:	Rs.9.54Cr.
Excess Amount:	Rs.1.02Cr. (10.69 % increase)
Anticipated Revised AS Amount:	Rs.10.82Cr.
This project had 4 work components for which TS was issued separately. The details of these work components are as follows:	
Details of Work	Reason for Revision
Sewer trunk main along Thettiyarthodu - Phase-I - Supplying, Laying, Testing and Commissioning of 400mm HDPE pipe by HDD method and allied works Apportioned Cost: Rs.3.81Cr. TS Amount: Rs.3.81Cr. Lowest Quoted Amount: Rs.4.79Cr. Excess Amount: Rs.0.99Cr. (25.98% increase) Anticipated Revised AS Amount: Rs.4.80Cr.	In the first tender, three bidders quoted and lowest 27.83% above TPAC and the lowest bidder was not willing to execute the work at LMR amount (Rs.3.87Cr) sanctioned by CE(SR). In the 2nd tender only single bidder quoted (and the single bidder is the lowest bidder in 1st tender) and quoted amount is 25.98% above TPAC. The work is special nature and HDD method is adopted.
350mm DI K9 pumping main from well at Kulathoor to stilling chamber at Arasumoodu TS Amount: Rs.1.03Cr. Tendered PAC: Rs.0.94Cr. Lowest Quoted Amount: Rs.0.97Cr. Excess Amount: Rs.0.03Cr. (3.19% increase) Revised Project Cost: Rs.1.0Cr.	Work completed.
Remaining Two works	Tendered with due date on 23.10.2019.

Decision Taken: As the Secretary, Trivandrum Corporation, Smt. L.S. Deepa agreed to obtain council approval for the tender excess, the SHPSC decided to approve the 25.98% tender excess for the work - Sewer trunk main along Thettiyarthodu - Phase-I - Supplying, Laying, Testing and Commissioning of 400mm HDPE pipe by HDD method and allied works and accorded revised AS for the work - amounting to Rs.10.56Cr. (Rs.9.54Cr. + Rs.1.02Cr.) on condition that excess amount should be met from the SAAP Savings in Trivandrum. The responsibility of ensuring that the work will be awarded by December 2019 lies with Smt.L.S. Deepa, Secretary, Thiruvananthapuram Corporation which will form part of her Performance Appraisal.

4. Laying transmission main and sewer networks in Block-L (Edathara) - Collection and Conveyance System:

AS Amount: Rs.25Cr. (6 Works) AS Date: 02.11.2017 TS Amount: Rs.24.27Cr. Excess Amount: Rs.5.96Cr. (24.55% increase) Anticipated Revised AS Amount: Rs.30.96Cr. This project had 6 work components for which TS was issued separately. The details of these work components are as follows:	
Details of Work	Reason for Revision
Laying trunk main from Stilling chamber at Pulayanarkotta to MH-10 of Pumping station at Edathara Apportioned Cost: Rs10.06Cr. TS Amount: Rs.10.06Cr. Tendered PAC: Rs.7.36Cr. Lowest Quoted Amount: Rs.12.88Cr. Excess Amount: Rs.5.52Cr. (74.99% increase) Anticipated Revised AS Amount: Rs.15.58Cr.	During estimate preparation, provision given only for an average width and depth as per rules (with DSR 2016). Since the depth of excavation varies from 3.5m to 9m in very slushy soil in water logged area, there are chances for caving in and collapse during dredging out of soil. Sliding of land, road, near by compound walls and even building may also happen in this condition. Due to narrow road excavated earth is to be conveyed to convenient stacking place. <ul style="list-style-type: none"> • The pipe laying by HDD method is not suitable due to change in horizontal alignment. • Pumping arrangement instead of gravity sewer taken at deeper depth is also not feasible due to the requirement of connection of branch sewers from surrounding locality. • The rate of bailing out of water and cost of RCC pipes provided in DSR are very less compared to market rate. Moreover, working 9m below ground level and keeping the heavy pipes in line, length and gradient using cranes is highly risky. This is the fourth tender call.

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Details of Work	Reason for Revision
<i>Supply and laying trunk main from silting chamber at Udhaya Garden to MH 89</i> TS Amount: Rs.1.81Cr. Tendered PAC: Rs.1.52Cr. Lowest Quoted Amount: Rs.1.67Cr. Excess Amount: Rs.0.15Cr. (10% increase) Revised Project Cost: Rs.1.96Cr.	Agreement executed on 15.07.2019.
<i>Laying sewer network in L block (Edathara) from MH110 to MH 150</i> TS Amount: Rs.1.76Cr. Tendered PAC: Rs.1.41Cr. Lowest Quoted Amount: Rs.2.05Cr. Excess Amount: Rs.0.64Cr. (45% increase) Revised Project Cost: Rs.2.40Cr.	1st tender - 2 offers received - Tender cancelled due to high quoted rate (25% and 95% above TPAC). 2nd tender call, opened on 01/10/2019. Two offers received Lowest bidder quoted 45% above TPAC.
<i>Remaining Three works</i>	Not Awarded

Decision Taken: *As the Secretary, Trivandrum Corporation Smt. L.S. Deepa, agreed to obtain council approval for the tender excess, the SHPSC decided to approve the 74.99 % tender excess for the work- Laying trunk main from stilling chamber at Pulayanarkotta to MH-10 of pumping station at Edathara and the 45% tender excess for the work - Laying sewer network in Block-L (Edathara) from MH-110 to MH-150. SHPSC accorded revised AS for the work- amounting to Rs.30.23Cr. (Rs.24.27Cr. + Rs.5.96Cr.) on condition that excess amount should be met from the SAAP Savings in Trivandrum. The responsibility of ensuring that the work will be awarded by December 2019 lies with Smt.L.S. Deepa, Secretary, Thiruvananthapuram Corporation which will form part of her Performance Appraisal.*

Additional Agenda Item No.3: Revision of AS for Alappuzha - Water Supply Sector - Augmentation & Modernization of Water Supply Distribution System in Alappuzha Municipality (Phase-I)

AS Amount:	Rs.33.90Cr. (8 Works)
AS Date:	23.02.2017
Excess Amount:	Rs.2.52Cr.
Anticipated Revised AS Amount:	Rs.36.42Cr.
This project had 8 work components for which TS was issued separately. The details of these work components are as follows:	

Details of Work	Reason for Revision
<p><i>Construction of 28 LL capacity OHSR at Valiyakulam (Zone VII)</i> Apportioned Cost: Rs.11.31Cr. TS Amount: Rs.9.14Cr. Tendered PAC: Rs.9.01Cr. Lowest Quoted Amount: Rs.9.67Cr. Excess Amount: Rs.2.52Cr. Anticipated Revised AS Amount: Rs.13.83Cr.</p>	<p>The tender has been invited based on the estimate prepared as per the initial soil investigation report (in 2017), which was done by KWA through College of Engineering, Thiruvananthapuram (CET), with piles having depth of 16.54m and twin piles of dia 600/700mm.</p> <ul style="list-style-type: none"> • The work was awarded to lowest bidder (at the LMR) and the Contractor has executed the agreement. • As per the fresh soil investigation report (in 2018) of M/s CGL Geoinformatics submitted by the Contractor, the pile foundation depth increased to 45m and diameter 1000mm. • Due to this variation another soil testing was conducted for the same site through CCE, Govt. Engineering College, Barton Hill, Thiruvananthapuram. The soil testing report of Govt. Engineering College, Barton Hill is close to the report submitted by M/s CGL Geoinformatics. • After reviewing the above three soil investigation reports, the HOD, Civil Engineering Department, Government Engineering College, Thrissur recommended to adopt pile depth of 45m which will have more capacity and be safe based on settlement criteria. CE, WASCON has also vetted it. • Due to the increase in depth and diameter of the piles for foundation, the contractor has requested for additional amount for increased quantum of work. • KWA Board directed Chief Engineer (CR) to calculate the actual financial commitment as per the agreement conditions and the same is reported by Chief Engineer (CR) as Rs.2,51,88,442.47/-.
Details of Work	Reason for Revision
<p><i>Construction of 21LL OHSR at Kommadi (Zone-I)</i> AS Amount: Rs.9.27Cr. TS Amount: Rs.5.28Cr. Tendered PAC: Rs.4.99Cr. Lowest Quoted Amount: Rs.5.22Cr. Excess Amount: Rs.0.23Cr. (4.51% increase)</p>	<p>Work in progress</p>
<p><i>Construction of 12.00LL OHSR at Thathampally (Zone-IV)</i> AS Amount: Rs.6.50Cr. TS Amount: Rs.3.11Cr. Tendered PAC: Rs.3.11Cr. Lowest Quoted Amount: Rs.3.33Cr. Excess Amount: Rs.0.22Cr. (7.14% increase)</p>	<p>Work in progress</p>

<i>Construction of 10 LL OHSR at Pazhavangadi (Zone-VI)</i> AS Amount: Rs.5.72Cr. TS Amount: Rs.2.87Cr. Tendered PAC: Rs.2.86Cr. Lowest Quoted Amount: Rs.3.05Cr. Excess Amount: Rs.0.19Cr. (6.60% increase)	Work in progress
<i>Digital Survey & Design of Network</i> AS Amount: Rs.0.50Cr. TS Amount: Rs.0.20Cr. Tendered PAC: Rs.0.20Cr. Lowest Quoted Amount: Rs.0.16Cr. Savings: Rs.0.04Cr. (18.76% decrease) Revised Project Cost: Rs.0.16Cr.	Work Completed
<i>Remaining Three works</i>	To be tendered

Decision Taken: As the Municipal Engineer, Alappuzha Sri. R.S. Anil Kumar agreed to obtain Council approval for the additional financial commitment due to redesign amounting to Rs.2.52Cr., the SHPSC accorded revised AS for the work - amounting to Rs.11.66Cr. (Rs.9.14Cr. + Rs.2.52Cr.), on condition that excess amount should be met from the SAAP Savings in Alappuzha. The responsibility of ensuring that the work will be awarded by December 2019 lies with Sri.R.S. Anil Kumar, Municipal Engineer, Alappuzha which will form part of his Performance Appraisal.

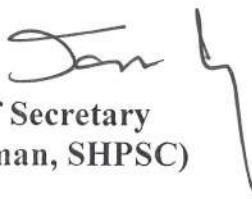
The meeting came to a close at 03:20pm.



Additional Chief Secretary,
LSGD



Mission Director,
AMRUT



Chief Secretary
(Chairman, SHPSC)

Participants of 22nd SHPSC Meeting of AMRUT held on 25.10.2019 at 02.30 PM in the Committee Room of Chief Secretary

1. Sri. Tom Jose IAS, Chief Secretary, Government of Kerala
2. Sri T K Jose IAS, Additional Chief Secretary, LSGD
3. Sri. Vishwas Mehta IAS, Additional Chief Secretary, Water Resources Dept
4. Dr. Usha Titus IAS, Principal Secretary, Environment Department
5. Dr. A Kowsigan IAS, Managing Director, KWA
6. Smt. R. Girija IAS, Mission Director, AMRUT
7. Sir. Mir Muhammed Ali IAS, Executive Director, Suchitwa Mission
8. Smt. Sonia Washington, Joint Secretary, PWD
9. Smt.K.S. Usha, Additional Secretary, Finance Department
10. Smt. Shiny George, Additional Secretary, Plg. & Economic Affairs Dept
11. Sri. Rajan.M.V., Chief Engineer, LSGD
12. Sri. Gigi George, Chief Town Planner (Planning)
13. Smt. Ajitha Devi.T. Deputy Chief Engineer (Planning) KWA, Thiruvananthapuram
14. Smt. Leena Kumari, Chief Engineer (P&O), KWA
15. Smt. Deepa.L.S, Secretary, Thiruvananthapuram Corporaton
16. Sri.D.Saju, Secretary, Kannur Corporation
17. Smt.A.S. Anuja, Secretary, Kollam Corporation
18. Smt.. Anu.R.S., Secretary,Kochi Corporation & Regional Joint Director
19. Sri. Raghuraman, Secretary, Alappuzha Municipality
20. Sri. Sreekumar A.S. , Secretary, Guruvayur Municipality
21. Sri.Vinu.C.Kunjappan, Additional Secretary, Thrissur Corporation
22. Sri.M. Madhu, Superintending Engineer, KWA, Pathanamthitta
23. Sri. Suresh Chandran, Superintending Engineer, KWA
24. Sri. A. Mohammed Ashrif, Superintending Engineer, TVPM Corporation
25. Sri. Anil Kumar R.S., Municipal Engineer, Alappuzha
26. Smt. Anju.K., Assistant Executive Engineer (M), KWA
27. Sri. Ansar.M.S. Assistant Executive Engineer (Planning), KWA
28. Sri. Johnson Joseph, Executive Engineer, KWA, JnNURM, Kochi
29. Sri. John Koshy, Executive Engineer, Planning, KWA