

Minutes of the 6th State Level Technical Committee (SLTC) of AMRUT-2.0 held on the 20th & 24th of December 2022 through Video Conferencing by the Additional Chief Secretary, Local Self Government Department.

The meeting of the 6th State Level Technical Committee of AMRUT-2.0, chaired by Smt. Sarada Muraleedharan IAS, Additional Chief Secretary, Local Self Government Department commenced at 10.30 AM & 10.00 AM respectively on 20th December 2022 and on 4th December 2022. (List of participants is attached as Annexure-1).

Sri. Arun K Vijayan IAS, Mission Director, AMRUT presented the points in the Agenda note.

Agenda item No.1: APPROVAL OF MINUTES OF THE 4th&5th MEETING OF SLTC.

Decision taken:

The Committee approved the minutes of the 4th and the 5th SLTC meeting of AMRUT 2.0 held on 22.9.2022 and 18th October 2022 respectively.

Agenda Item No.2: ACTION TAKEN REPORT ON THE DECISIONS OF THE 4th & 5th SLTCs and 3rd SHPSC

Agenda Item	Action Taken	Decision
Agenda Item No. 2.1- Progress of AMRUT 2.0	Mission progress is included in the Agenda.	Noted
Agenda Item No.2.2: Procedure for Issuing Administrative Sanction for Projects	G.O. was issued vide G.O. (Rt) No. 2940/2022/LSGD dated 28.11.2022.	Noted
Agenda Item No.2.3: Procedure for Issuing Technical Sanction for Projects	G.O. was issued vide G.O. (Rt) No. 2960/2022/LSGD dated 30.11.2022.	Noted
Agenda Item No.2.4: Development& Implementation of Micro Water Supply Projects	G.O. was issued vide G.O. (Rt) No. 2901/2022/LSGD dated 23.11.2022.	Noted
Agenda Item No.2.5: Approval of IEC Action Plan (Information, Education, And Communication)	IEC detailed proposal Included as an Agenda.	Noted
Agenda Item No.2.6: Appointment of State Nodal Agency and Nodal Officer under the sub-scheme of Formulation of GIS-based Master Plans for Cities under AMRUT 2.0	GO was issued vide G.O. (Rt) No. 2871/2022/LSGD dated 21.11.2022	Noted
Agenda Item No.2.7: Sewerage& Septage Sector – Implementation of Faecal Sludge Treatment Plant Projects – Engagement of Accredited Agencies for Preliminary Report Preparation:	The Govt. Order is awaited from LSGD.	The Committee directed to expedite the process of issuance of the GO.
Agenda Item No.2.8: Approval for Procurement of Smart Application and Vehicles for the Collection of Septage in AMRUT Cities for Managing Septage Collection Activities:	The Govt. Order is awaited from LSGD.	The Committee directed to expedite the process of issuance of the GO.
Agenda Item No.2.9: Approval of 2 nd Tranche of State Water Action Plan (SWAP)	SWAP-2 nd tranche submitted to MoHUA.	Noted
Agenda Item No.2.10:Approval of 24x7 Water Supply Projects in 9 AMRUT-1.0 Cities	12 ULBs have been selected for implementing 24X7 WS schemes.	Noted

Agenda Item	Action Taken	Decision
Agenda Item No.2.11: Progress - Selection of Project Development and Management Consultants (PDMC)	Approval of the Technical bid evaluation report is included as an Agenda item.	Noted
Agenda Item No.2.12: Administrative Sanction of Projects Approved under 1 st Tranche of SWAP	GO issued vide G.O. (Rt) No. 2906/2022/LSGD dated 24.11.2022.	Noted
Agenda Item No.2.13: Reconstitution of the State-Level Technical Committee for AMRUT 2.0	G.O. issued. Vide G.O. (Rt) No. 2866/2022/LSGD dated 19.11.2022.	Noted
Agenda Item No.2.14: Approval of Restructuring proposal of SMMU & CMMUs for AMRUT 2.0.	The Govt. Order is awaited from LSGD.	The Committee directed to expedite the process of issuance of the GO.

Agenda Item No.3: PROGRESS OF AMRUT 2.0

The total outlay of AMRUT 2.0 for 93 Urban Local Bodies in Kerala is Rs.3495 Cr. with Central Assistance of Rs.1372 Cr. The 4th Apex committee meeting had approved the 1st Tranche of the State Water Action Plan (SWAP-1) for an amount of Rs.1938.52 Cr. (CAPEX - Rs.1842.658 Cr. & OPEX - Rs.95.86 Cr.)

The 2nd Tranche of the State Water Action Plan for an amount of Rs.683.082 Cr. (CAPEX – Rs.632.658 Cr. & OPEX – Rs.50.424 Cr., inclusive of Special Tranche for Water Body Rejuvenation) has been submitted to MoHUA for approval.

Following tranche 1 of SWAP approval of 222 projects for Rs. 1842.65 Cr., AS was issued for 77 projects for Rs. 588.62 Cr. A proposal of 75 WS projects for Rs. 740.591 Cr.(CAPEX)and 23 SEW projects for Rs. Rs 104.63 Cr. is placed in this Committee for Administrative sanction.

PROJECT PROGRESS

Sector	Total outlay	SWAP-1		SWAP-2		Total SWAP submitted		SWAP -3	DPR prepared		AS accorded	
		No of projects	SWAP Amount (CAPEX-Cr.)	No of projects	SWAP Amount (CAPEX-Cr.)	No of projects	SWAP Amount (CAPEX-Cr.)	Planned by March 2023 (Cr.)	No. of projects	CAPEX cost (Cr.)	No. of projects	CAPEX cost (Cr.)
Water supply(Including floating incentive of 100 Cr.)	1813.400											
Floating Incentive Fund from SEW (Cr.) for AMRUT cities	636.160	199	1738.02	10	171.388	209	1909.408	540.152	153	1331.188	77	588.616
Sewerage & Septage	902.160	23	104.63	3	385	26	489.63	412.530	23	104.63	0	0

Rejuvenation of Water bodies and developing green spaces and parks projects.	143.340	0	0	255	82.36	255	82.36	60.980	0	0	0	0
TOTAL	3495.060	222	1842.650	268	638.748	490	2481.398	1013.662	176	1435.818	77	588.616

DPR Preparation Status of SWAP- Tranche -1

City Name	Water Supply		Sewerage/ Septage Management		Micro Water Supply		City Wise Total	
	Total	Prepared	Total	Prepared	Total	Prepared	Total	Prepared
AMRUT1.0 Cities								
Trivandrum	34	33	23	23			57	56
Kollam	10	10	0	0			10	10
Alappuzha	4	4	0	0			4	4
Kochi	25	23	0	0			25	23
Thrissur	7	2	0	0			7	2
Guruvayoor	1	0	0	0			1	0
Palakkad	1	1	0	0			1	1
Kozhikode	3	3	0	0			3	3
Kannur	0	0	0	0			0	0
AMRUT Towns 2.0	84	77	0	0	30	0	114	77
Total	169	153	23	23	30	0	222	176

- As part of the implementation of 24X7 water supply projects, a State-level workshop on the 24X7 Water supply scheme was conducted on 28.11.2022. National Level Taskforce, State level Taskforce, Kerala Water Authority, and ULB Engineers participated in the workshop.

The way forward -Sewerage &Septage Projects in 9 AMRUT Cities

Thiruvananthapuram, Kollam, Kochi, and Kozhikode submitted Sewerage project proposals amounting to Rs. 489.63 Cr. The status of the remaining AMRUT cities is as follows;

Status of Septage Treatment Plant:

The CDD India and IRTC, Palakkad have been entrusted to explore the need and feasibility for Faecal Sludge Management in AMRUT cities. The CDD has made a rapid assessment of the existing sanitation

situation in Thiruvananthapuram, Kochi, Thrissur, Kozhikode, Kannur Corporations, and Alappuzha Municipality and assessed the need for FSM. Pre-feasibility reports for the cities have been provided by the CDD and transmitted to the respective ULBs. Projects are in the conception stage.

IRTC was entrusted to study Kollam Corporation, Alappuzha, and Guruvayoor Municipalities and the study is yet to begin.

Kannur ULB has the plan to take up the proposed 100 KLD Septage Treatment Plant at Chelora under Phase-1 AMRUT in AMRUT 2.0.

Status of Sewage Treatment Plant:

Alappuzha

Council approved the DPR prepared for a sewage plant of capacity 5 MLD with 0.5 MLD Co-treatment in Allissery. The network proposed for a length of 9 Km covering 2 Wards. DPR is yet to be finalized by KWA.

Thrissur

The proposal for constructing 5 MLD STP at Kottappuram along with a 42 km network covering 7 Divisions partially is to be finalized by the ULB and KWA.

The ULB has requested to take up the Decentralized sewerage scheme (2.5 MLD STP at Kokkala & 27 Km network) for Thrissur Corporation (Rs.64.2 Cr.) proposed under AMRUT 1.0 under AMRUT 2.0. The agenda for canceling the project from AMRUT-1.0 has been placed in the 26th SLTC of AMRUT-1.0.

Kannur

The proposal for 13 MLD STP at Maithanappally with an associated sewer network covering 15 Wards is to be finalized by ULB.

Palakkad

The core committee held on 17.12.2022 has entrusted the Engineering Wing of the ULB to verify the proposal for 600 KLD STP at Kalpathy River bank and to check the ownership as well as the nature of the land.

Guruvayur:

The proposal of KWA for expansion of the existing 3 MLD STP to 5 MLD with Co-treatment is expected to be finalized in the meeting scheduled by the ULB on 24.12.2022.

Deliberations & Decision Taken:

- ❖ **The Mission Director AMRUT presented the Status of proposed SEW/septage projects under AMRUT 2.0. The SLTC reviewed the land availability for the STPs in each city. The Chair also wanted ULBs to find out at least 50 cents of land for developing FSTPs in the urban-rural periphery. The Mission Director agreed to finalize the action plan within a week.**
- ❖ **Further, the chair stated that one of the NGT observations is either Trivandrum or Kochi is to be taken up and completed by way of best practices in liquid waste management. The MD KWA and the Director of Urban affairs were directed to**

finalize the action plan for complete coverage in liquid waste management. MD KWA assured that by March 2023, project proposals can be developed for complete coverage in TVM city.

Agenda Item No.4: OPERATION AND MAINTENANCE (O&M) COST OF STP/ESTP PROJECTS:

Regarding the Operation & Maintenance, the 2nd SHPSC meeting approved the following:

- a) The O & M Cost for projects implemented by the ULBs shall be borne by the ULBs and the Secretaries of the ULBs shall ensure that the matter is conveyed to the Council and other related committees of the ULB.
- b) The O & M Cost for projects implemented by KWA shall be borne by KWA as they are collecting water charges and related fees from consumers.

In the 4th SLTC Meeting, MD KWA informed that the O&M cost for water supply projects can be borne by KWA as water charges are being collected by KWA. For STPs, O&M costs would have to be met by ULB to avoid a financial burden on KWA. The Committee directed MD KWA to submit a detailed proposal on Operation & Maintenance for further review by the Committee.

MD KWA submitted a proposal vide letter No. KWA/JP/P3/58/2017 dated 12.10.2022 requesting that the same mode of meeting the operation maintenance of STP at Muttathara in Trivandrum city where the concerned ULB is meeting the expenditure of O&M may be followed for the STPs proposed under AMRUT 2.0.

Deliberations:

MD KWA explained that the sewerage charge collected for Trivandrum Corporation is only 10% of the water charge, which is not sufficient for meeting the operating expenses of STP. The O&M expenses of the sewerage network and pump houses only can be borne by KWA. The Secretary of TVM Corporation explained the current strategy for meeting the operating expenses of STP Muttathara. The Secretary also mentioned that nearly an amount of Rs. 6 Cr. per annum is incurred against the operation & maintenance of STP.

Decision taken: After discussions, the Committee directed KWA, TVM ULB & AMRUT to prepare 2 or 3 business models for long-term O&M sustainability for all the cities based on the financial situations of cities, prevailing Tariff, and user-cost recovery (financial) strategy.

Agenda Item No.5: CANCELLATION OF WATER SUPPLY PROJECTS IN THE 1ST TRANCHE OF SWAP:

Thrissur

Thrissur Corporation has submitted 7 water supply projects for an amount of Rs. 134.5 Cr under the 1st tranche of SWAP.

It is now reported by the Secretary, Thrissur Corporation vide letter No.PW2-AMRUT-41026/21 dated 13.12.2022 that one project namely **AMRUT-2.0 - Thrissur Corporation-Supply and Laying of 800 mm DI K9 Pipeline (Additional CWGM - 18.70 km) from Peechi WTP to GLSRs at Thekkinkadu-**

Pipeline Work for Rs. 61 Cr. (CAPEX-58 Cr., OPEX- Rs. 3 Cr.) is planning to take up under the phase 1 of AMRUT. Hence it is requested cancellation of the project. Council has approved the same vide resolution No. 78/A-1 dated 8.12.2022.

Kothamangalam

Kothamangalam Municipality has submitted 10 Micro water supply scheme projects for an amount of Rs. 8.548 Cr under the 1st tranche of SWAP.

It is now reported by the Secretary, Kothamangalam Municipality vide letter No.pw3-16391/21 dated 15.12.2022 that Council has decided vide decision No. 19-pw3-16391/21 to cancel two Micro Water supply schemes Namely- Ward-11: Valiyapara Colony Drinking Water Project for Rs. 1.2 Cr. and Ward-18: Kollikkad Drinking Water Project for Rs. 1.155 Cr. and has decided to take up a new proposal through KWA namely, **UWSS to Kothamangalam – Providing FHTCs to Urban Households in Kothamangalam Municipality for Rs.2.451 Cr.** to provide 500 FHTCs.

The project meets the criteria stipulated in the 2nd SHPSC that Cost per household benefitted less than or equal to Rs.50000/- and coverage achieved greater than 75%.

Karunagappally

Karunagappally ULB has submitted a water supply project- UWSS to Karunagappally - **Providing FHTC to households in Karunagappally Municipality for Rs. 13.744 Cr. (CAPEX-13.614 Cr., OPEX- Rs. 0.130Cr.)** The same was approved under the 1st tranche of SWAP.

It is now reported that the existing source of the scheme is the Achenkovil River, which is 30 km away from Karunagappally, and the existing system does not cater sufficient water to the coastal areas. Hence a new project to convey potable water, pumped from 37 MLD WTP at Sasthamcotta to Kollam Corporation, by tapping the pumping main at Kolathumukku in Panmana Grama Panchayat, to Thachayilmukku at Karunagappally Municipality has been prepared by the KWA for Rs. 17.14 Cr.

The Secretary, of Karunagappally Municipality, has requested vide letter No. PW1-12492/21 dated 18.11.2022 to cancel the approved project and to approve the new proposal- **AMRUT 2.0 - UWSS to Karunagappally – Supplying & Laying 500 mm DI K9 Clear Water Pumping Main – 7500 m from Kolathumukku in Panmana Panchayat to Thachayilmukku in Karunagappally Municipality for Rs. 17.14 Cr. (CAPEX-14.964 Cr., OPEX- Rs. 2.17 Cr.),** which is 10% above the allocated fund for the Municipality (Rs. 13.614 Cr.). Council has approved the same vide resolution No.23 dated 19.10.2022.

The project meets the criteria stipulated in the 2nd SHPSC that Cost per household benefitted less than or equal to Rs.50000/- and coverage achieved greater than 75%.

As per the AMRUT 2.0 guidelines Clause 6.9.1, the SHPSC will be competent to approve the replacement of projects costing up to 10% of the respective tranche of SWAP in admissible project components of AMRUT 2.0.

Deliberations & Decision taken:

- ❖ **The Committee expressed displeasure over the cancellation of projects at the conception stage itself. The Committee directed all to ensure proper groundwork before submitting project proposals.**
- ❖ **MD KWA mentioned that the subject work in Thrissur cannot be completed within the time frame of AMRUT 1.0. Hence, the Committee decided not to cancel the project and to take up the project in phase 2 of AMRUT itself.**

- ❖ **The Committee approved the cancellation of two Micro Water supply schemes in Kothamangalam Municipality Namely- 1) Ward-11- Valiyapara Colony Drinking Water Project for Rs. 1.2 Cr. and 2) Ward-18: Kollikkad Drinking Water Project for Rs. 1.155 Cr. and approved the replacement project - UWSS to Kothamangalam – Providing FHTCs to Urban Households in Kothamangalam Municipality for Rs.2.451 Cr.**
- ❖ **The Committee noted that the approved project of Karunagappally needs cancellation as the same was submitted without any proper groundwork by the officials. The technical Member KWA and Deputy Chief Engineer (works) submitted before the meeting that the new project is developed after a detailed study and also confirmed that the substituted project is technically viable.**
- ❖ **Based on the confirmation of KWA, the Committee approved the cancellation of the water supply project in Karunagappally Municipality –Providing FHTC to households in Karunagappally Municipality for CAPEX Rs. 13.614 Cr. & approved the replacement project - Supplying & Laying 500 mm DI K9 Clear Water Pumping Main – 7500 m from Kolathumukku in Panmana Panchayat to Thachayilmukku in Karunagappally Municipality for Rs. 14.964 Cr.**

Agenda Item No.6: ADMINISTRATIVE SANCTION OF 75 WATER SUPPLY PROJECTS APPROVED UNDER 1ST TRANCHE OF SWAP:

The 4th Apex committee meeting under the Atal Mission for Rejuvenation and Urban Transformation 2.0 (AMRUT 2.0) held on 12.08.2022 has approved tranche 1 of the State Water Action Plan (SWAP-1) comprises **199 WS projects** for 81/93 Urban Local Bodies and **23 SEW projects** for one ULB based on the criteria stipulated in the 2nd SHPSC that Cost per household benefitted less than or equal to Rs.50000/- and coverage achieved greater than 75%for an amount of Rs.1938.52 Cr.

As of now, detailed project reports for 153 Water Supply projects were received from various ULBs for CAPEX Rs.1331.188. The administrative sanction for 77 WS projects amounting to Rs.616.829 Cr. (CAPEX - Rs.588.616 Cr. & OPEX - Rs.28.213 Cr.) was accorded by the 3rd SHPSC and a Government order was also issued for the same.

All the DPRs have been scrutinized by the KWA Headquarters, State & City Mission Management Units of AMRUT. **Only feasible projects with admissible components, undisputed land, and Operation & Maintenance for 5 years are recommended for approval. A project proposal from Kottarakkara for an OHSR has been set aside for the time being as the land is not yet identified by the ULB.**

Major Components:

- **Two projects from Kozhikode for developing a 24X7 WS scheme.**
- **Construction of a 9 MLD WTP at Parappanangadi.**
- **Construction of 8 Storage tanks.**
- **Total New connections (FHTCs) – 1.68 lakhs**
- **Existing Connections served in – 1.77 lakhs**
- **Total households benefitted – 3.45 lakhs**

A major excess in the allocated fund was observed in the substituted WS project proposal from Karunagappally (Rs.1.35 Cr.) and a WS proposal from Mavelikkara (Rs. 0.362 Cr.). Excess cost is found necessary to meet the water demand of the towns. For AMRUT 2.0 towns, an amount of Rs.100 Cr. was earmarked as a floating fund for Water Supply Sector. The additional fund requirement can be met from this fund.

It is requested to issue AS for 75 projects amounting to Rs.774.092 Cr. (CAPEX - Rs.741.031 Cr. & OPEX – Rs.33.061 Cr.)

The recommended list of projects for issuing administrative sanctions is as follows;

Sl No.	ULB	Suggested Name	Amount as Per DPR			Major Components as per DPR
			Capex (Cr.)	O&M (Cr.)	Total Cost	
1	Ramanattukara <i>Approved SWAP Capex (Cr.) 9.618 O&M(Cr.) 0.02 Total cost 9.638</i>	AMRUT-2.0-Phase-1 - Providing Functional Household Tap Connections by Retrofitting/ Extension of pipelines in Ramanattukara Municipality in Kozhikode District	9.618	0.0283	9.6463	1)By retrofitting from existing pipelines -170 FHTC, 2) By pipe line extension- 3003 FHTC. TOTAL FHTCs- 3173 Nos. 3) 78.26 Km PVC distribution line.
2	Pandalam <i>Approved SWAP Capex (Cr.) 1.38 O&M(Cr.) 0.276 Total cost 1.656</i>	AMRUT - 2.0- Kadakkad Water Supply Scheme- Establishing Distribution network and FHTCs in Kadakkad area in Pandalam Municipality	1.38	0.2760	1.6560	1) Providing FHTCs- 130 2) Existing connections served in as per the KWA statement- 1362 3) Strengthenig and laying distribution network-4.6 KM
3	Pandalam <i>Approved SWAP Capex (Cr.) 8.71 O&M(Cr.) 1.74 Total cost 10.45Cr</i>	AMRUT - 2.0 -Layng and Strengthening existing the distribution system in Pandalam Municipality & Providing House connections in Municipal Area	8.71	1.7400	10.4500	1) Providing FHTCs- 3500 2) Existing connections served in as per the KWA statement- 1980 3) Pipeline extension- 25.5 KM
4	Pandalam <i>Approved SWAP Capex (Cr.) 1.65 O&M(Cr.) 0.33 Total cost 1.98Cr</i>	AMRUT - 2.0 - City Water Action Plan Athiramala Water Supply Scheme- Establishing Distribution network and FHTCs Athiramala area in Pandalam Municipality	1.65	0.3300	1.9800	1) Distribution network-4300 M 2) Providing new FHTCs- 210 Nos 3) Existing Connections to be served in as per Statement- 1135.
5	Parappanangadi <i>Approved SWAP Capex (Cr.) 21.73 O&M(Cr.) 1 Total cost 22.73Cr</i>	AMRUT 2.0 Water Supply Scheme to Parappanangadi Municipality- Construction of new 9 MLD WTP	21.73	1.0000	22.7300	1. Construction of new 9 MLD WTP 2. Providing, laying and commissioning of raw water pumping main- 3 KM 3. Providing FHTCs- 4500
6	Irinjalakkuda <i>Approved SWAP Capex (Cr.) 3.08 O&M(Cr.) 0.154 Total cost 3.234Cr</i>	AMRUT 2.0-Providing additional pumping system, FHTCs, and Construction of 2 LL OHSR for improving the water supply at chathakunnu area	3.08	0.1540	3.2340	1) Construction of 2 LL OHSR at Chanthakunnu 2) Providing FHTCs- 100 Nos. 3)Distribution netwrok- 1.2 KM 4) Existing connections served in as per the KWA statement- 1156
7	Irinjalakkuda <i>Approved SWAP Capex (Cr.) 1.6 O&M(Cr.) 0.08 Total cost 1.68Cr</i>	AMRUT 2.0- Providing Hot line from Mangadikkunnu WTP to wards 23 and 32 of Irinjalakuda Municipality. Strengthening of old AC and Pvc pipes by replacing them with new PE/PVC pipes, and providing 200 numbers of FHTCs	1.6	0.0800	1.6800	1) Providing FHTCs- 200 2) Replacement of old AC pipes with new PE/ PVC pipes- 10.05 Km 3) Existing connections served in as per the KWA Statement - 327
8	Irinjalakkuda <i>Approved SWAP Capex (Cr.) 0.8 O&M(Cr.) 0.04 Total cost 0.84Cr</i>	AMRUT2.0- Mini Water Supply Scheme to ward 1 and 2 of Irinjalakuda Municipality	0.8	0.0400	0.8400	1. Providing FHTCs- 200 2) Pumping main and Distribution 3) . Providing 0.30 MLD Pressure filter with Plat form 4). Supplying and erecting 7.5HP Submersible Pumpset 5) Construction of 20,000 litre capacity OH Tank 6) Existing connections served in

						as per the Statement provided by KWA- 344
9	Irinjalakkuda Approved SWAP Capex (Cr.) 7.578 O&M(Cr.) 0.379 Total cost 7.957Cr	"AMRUT 2.0- Improvement of Water supply systems of Irinjalakuda Municipality IWSS - strengthening of existing distribution pipes at various Wards by replacing old AC/PVC pipes with new PEIPVC pipes and providing 1500 numbers of FHTCs"	7.578	0.3790	7.9570	1) Providing FHTCs- 1500 2) Existing connections served in as per the Statement provided by KWA- 7079 3) Replacement of old AC pipes with new PE/PVC pipes - 33Km
10	Nedumangad Approved SWAP Capex (Cr.) 10.2891 O&M(Cr.) 0.5154 Total cost 10.8045Cr	AMRUT 2.0. Urban water supply system to Nedumangad municipality improvement of water supply distribution system, providing new water connections and alteration of existing water connections	10.29	0.5100	10.8000	1) Pipe Line Laying -28.64 Km 2) Providing FHTCs- 2420. 3) construction of kiosk 4) Replacement of existing connections- 3400 5) providing Booster pump Set
11	Perinthalmanna Approved SWAP Capex (Cr.) 10.3 O&M(Cr.) 0.515 Total cost 10.815Cr	AMRUT 2.0 - Providing FHTC and laying of distribution pipelines in various places in Perinthalmanna municipality Phase-1	10.300	0.5150	10.815	1) providing new FHTCs- 3000 2) Distribution network - 20 KM 3) Replacement of existing connection- 100 Nos
12	Kozhikkode Approved SWAP Capex (Cr.) 110 O&M(Cr.) 3 Total cost 113Cr	AMRUT 2.0 Priority 1 WSS for Kozhikkode corporation- Augmentation of 174 MLD WTP at Peruvannamuzhi to 210 MLD and associated works.	111.33	3.0000	114.3300	1) Augmentation of 174MLD to 210 MLD of WTP at Peruvannamuzhi- Construction of Pulsators and filters 2) Distrubution Network = 36Km (as perStatement) 3) FHTCs as per KWA Statement- 25513 4) Existing serviced in as per KWA Statement - 6200 4) Expansion of SCADA
13	Kozhikkode Approved SWAP Capex (Cr.) 5 O&M(Cr.) 0.05 Total cost 5.05 Cr	AMRUT 2.0 Priority 2 - 24X7 Water supply scheme at Nellikode and adjacent places	4.14	0.0500	4.1900	1)Distribution network-3.9 km 2)Providing FHTCs as per KWA Statement- 851 3) Existing serviced in as per KWA Statement - 200
14	Kozhikkode Approved SWAP Capex (Cr.) 5 O&M(Cr.)0.05 Total cost 5.050Cr	AMRUT 2.0 Priority 3 - 24X7 Water supply scheme at Edakkadu and adjacent places	4.53	0.0500	4.5800	1)Distribution network-4.2 km 2)Providing FHTCs as per KWA Statement- 861 3) Existing serviced in as per KWA Statement - 215
15	Vadakara Approved SWAP Capex (Cr.) 15.027 O&M(Cr.) 0.75 Total cost 15.777Cr	"AMRUTH 2.0 – water supply scheme to Vatakara municipality– rehabilitation of various components for improving water Supply to Vatakara municipality"	15.027	0.7500	15.7770	1) New FHTCs- 3150 2) Rehabilitation and renovation of existing 13 MLD WTP at Kappumala. 3) Supplying and laying of new distribution lines = 260m 4) Replacing old distribution lines existing AC pipes with PVC pipes = 7200m 5) Construction of two OHSR (10LL and 20LL) 6) Existing connections served in as per the google sheet- 9858 Nos.
16	Feroke Approved SWAP Capex (Cr.) 9.898 O&M(Cr.) 0.01 Total cost 9.908Cr	Amrut-2 Providing Functional household tap connections by retrofitting and extension of pipelines in Feroke Municipality	9.898	0.0098	9.9078	1)By retrofitting from existing pipelines -185 FHTC, 2) By pipe line extension- 4750 FHTC. TOTAL FHTCs- 4935 Nos. 3) 8.172 Km HDPE and GI distribution lines.
17	Mukkam	AMRUT 2.0 UWSS to Mukkam Municipality	12.444	0.0646	12.5086	1) Distribution network 10.25 km 2) New FHTCs- 2710

	Approved SWAP Capex (Cr.) 12.44 O&M(Cr.) 0.65 Total cost 13.09Cr					3) Existing Connections serviced in as per the google sheet- 900 Nos.
18	Sulthan Bathery Approved SWAP Capex (Cr.) 13.372 O&M(Cr.) 0.26 Total cost 13.632Cr	Amrut2.0 Augmentation of Water Supply Schemes in Sulthanbathery Municipality and providing FHTCs in Wayanad District	13.367	0.2600	13.6270	1) Providing of FHTCs - new = 3000 2) Existing connections served in as per the google sheet-1452 3) laying HDPE pipe in distribution system - 49km
19	Koyilandy Approved SWAP Capex (Cr.) 22.629 O&M(Cr.) 0.165 Total cost 22.794Cr	AMRUT.02 - WSS TO Koyilandy Municipality Providing Functional House Hold Tap Connection in Various Wards.	22.629	0.1645	22.7935	1) Distribution Line Extension 2500m at Various Locations 2) Providing FHTCs- 15000 Nos
20	Kalpetta Approved SWAP Capex (Cr.) 5.238 O&M(Cr.) 0.05 Total cost 5.288Cr	AMRUT 2.0 Augmentation and rehabilitation of water supply system -UIDSSMT WSS To Kalpetta Municipality- Providing water supply with household water tap connection to Kalpetta Municipality For the financial year -2022-2023	5.229	0.0590	5.2880	1) Providing new FHTCs - new - 1200 2) Existing connections served in as per the google sheet- - 4896 3) Replacing and laying of additional distribution system HDPE pipe - 36000 M
21	Chalakydy Approved SWAP Capex (Cr.) 11.78 O&M(Cr.) 1.2 Total cost 12.98Cr	AMRUT 2.0 Improvements to AUWSS at Chalakydy Municipality General Civil Ward.	11.78	1.20	12.9800	1) providing new FHTCs - 2500 2) Existing connections served in as per the google sheet- 5826 3) Renovation of 11 MLD WTP 4) Renovation of GL tank at Thanippara 5) Electrical standardisation with hot line feeder - 1LS 6) Replacing of damaged AC/ PVC pipes, pipe line extension - 17.24km
22	North Paravur Approved SWAP Capex (Cr.) 5.165 O&M(Cr.)0.01 Total cost 5.175Cr	AMRUT 2.0- - Providing FHTC by Augmenting or Retrofitting the Existing scheme & Replacement of old damaged AC Premo Pipe lines in North Paravur Municipality in Ernakulam District	5.165	0.0100	5.1750	1) Providing New FHTCs-1459 2) Replacing old and damaged distribution lines- 1.975Km 3) Extension of lines- 6 Km
23	Manathavadi Approved SWAP Capex (Cr.) 15.348 O&M(Cr.) 0.15 Total cost 15.498Cr	AMRUT 2.0 Augmentation of water supply schemes in Mananthavadi municipality and providing FHTCs in Wayanad district	15.346	0.1500	15.4960	1) Providing New FHTCs--3300 2) Laying of the Distribution mains- 49.5 Km 3) Construction of 3.00 LL OHSR at Kuttimoola, 4) Laying of the pumping mains- 4300m. 5) Erection of CF Pumpset-4 Nos.
24	Vaikom Approved SWAP Capex (Cr.) 6.86 O&M(Cr.) 0.3 Total cost 7.16	AMRUT 2.0 - Vaikom Municipality- Existing Water Line Replacement and New Water Connections- Implementation	6.806	0.3540	7.1600	1) Providng new FHTCs- 1392 2) Extension and replacement of old damaged pipes with PVC- 17394 m 3) Alteration of existing water connctcions- 2545 4) Pumpset -2 nos.
25	Payyoli Approved SWAP Capex (Cr.) 15.424 O&M(Cr.) 0.4627 Total cost 15.8867Cr	AMRUT 2.0- WSS to Payyoli Municipality in Kozhikkode District	15.42	0.4630	15.8830	1) Construction of 22LL OHSR 2) Laying pf transmission main- 1950 m 3) Laying of distribution lane- 5.424 Km 4) Providing FHTCs- 3200
26	Ettumanoor Approved SWAP Capex (Cr.) 11.31 O&M(Cr.) 1 Total cost 12.31Cr	AMRUT 2.0 Providing FHTC's and pipe line extension of 250 mm di pipe from OHSR at Caritas to GSLR at Ettumanoor and laying of 200mm di pipe from Caritas tank to Karayattupuzha tank	11.103	1.1900	12.2930	1) Providing new FHTCs- 2000 2) Existing connections serviced in as per KWA Statement- 1583 3) Providing 250mm gravity main -4000 m 4) Extension of pipe line- -20000 m

27	Kollam Approved SWAP Capex (Cr.) 37.0 O&M(Cr.) 4.5 Total cost 41.5Cr	AMRUT 2.0 AWSS To Kollam Corporation - Improvements To Water Supply In Kilikollur Zone, Kadavoor And Sakthikulangara Zone. Providing Pumping Main Using Di Pipes Of 700mm To 300mm Size For A Total Length Of 17kms From Vasoorchira Towards Moonamkutty, Sakthikulangaramathilil&Anchalumoodu. Providing Pump Sets At Wtp Pump House -180 Hp 2nos. Including Road Restoration Charges	52.8	5.3100	58.1100	1) Supply and laying of clear water transmission main line - 17km 2) 180 HP- 2 Nos pump at Vassorichira WTP. 3) Existing Connections to be served in as per Statement- 17387 Nos.
28	Kollam Approved SWAP Capex (Cr.) 7.5 O&M(Cr.) 0.090 Total cost 7.590Cr	AMRUT 2.0 AWSS To Kollam Corporation - Improvements To Water Supply In Thrikkadavoor Zone - Construction Of 15 Ll Ohrs In Anchalumoodu Kollam Corporation Phase -I- Distribution Improvements	7.355	0.1062	7.4612	1) Construction of 15LL at Anchalumoodu -Kadavoor Zone 2) Existing Connections to be served in as per Statement- 2514
29	Kollam Approved SWAP Capex (Cr.) 67.13 O&M(Cr.) 0.67 Total cost 67.801	AMRUT-2.0- Proposals for 100 % coverage of FIHTCS in Kollam Municipal Corporation- Providing 30500 FHTCs from the Existing Pipe lines at various places in Kollam Corporation.	67.801	0.6780	68.479	1) Providing new FHTCs- 30500 2) Pipe line extension 107.5 KM
30	Kollam Approved SWAP Capex (Cr.) 40.0 O&M(Cr.) 0.4 Total cost 40.4Cr	AMRUT 2.0 AWSS To Kollam Corporation - Extension Of Distribution System For A Total Of 30 Kms In Various Zones Using Pvc Pipes, Including Road Restoration Charges (Phase 2).	21.566	0.2545	21.8205	1) Extension of distribution lines - 30 Km in Different zones. 2) Existing Connections to be served in as per Statement- 52601
31	Kollam Approved SWAP Capex (Cr.) 37.2 O&M(Cr.)0.372 Total cost37.572Cr	AMRUT 2.0 AWSS To Kollam Corporation - Extension Of Distribution System For A Total Of 50 Kms In Various Zones Using Pvc Pipes, Including Road Restoration Charges (Phase 1).	37.431	0.4420	37.8730	1. Extension of distribution system for a total of 50 Kms in various zones using PVC pipes, including road restoration charges (Phase 1) 2) Existing Connections to be served in as per Statement- 12151.
32	Karunagappally Approved SWAP Capex (Cr.) 13.614 O&M(Cr.) 0.13 Total cost 13.744Cr	AMRUT 2.0UWSS to Kurunagappally - Phase.I - supplying & laying clear Water Pumping Main from kolathamukku tank site to Thachayilmukkuk old tank sile in Karunagappally Municipality)	14.96438	2.1757	17.1401	1) Supplying and laying 500mmDI K9 clear water pumping main- 7500m. 2) Existing connection serviced as per KWA statement - 7695
33	Mavelikkara Approved SWAP Capex (Cr.) 6.65 O&M(Cr.) 0.330 Total cost 6.98Cr	AMRUT 2.0 -Mavelikkara Municipality- Replacing old and damaged AC pipelines using PVC pipes in Mavelikkara municipality	6.98	0.0660	7.0460	1) Supplying and laying distribution system -15 Km 2) Providing new FHTCs- 950 3) Existing connection serviced as per checklist- 5200 4) Laying PVC pipes - 15000 m
34	Mavelikkara Approved SWAP Capex (Cr.) 1.2 O&M(Cr.) 0.024 Total cost 1.224	AMRUT 2.0 -Mavelikkara Municipality- Providing 1050 FHTCs in Mavlikkara Municipality	1.332	0.0133	1.3453	1) Providing new FHTCs- 1050 2) Pipe line Extension -7770 m
35	Attingal Approved SWAP Capex (Cr.) 7.81 O&M(Cr.) 0.5 Total cost 8.31Cr	AMRUT 2.0- Attingal Municipality PHAS-Proposals for Improving the Water Supply System In Attingal Muncipal Area Pipeline Work	7.81	0.5000	8.3100	1) Providing new FHTCs - 1600 2) Pipe line extension- 3200m 3) Laying PVC pipes - 9950m 4) Replacement of Connections - 400

36	Varkala Approved SWAP Capex (Cr.) 8.24 O&M(Cr.) 0.412 Total cost 8.652Cr	AMRUT2.0-Replacing of damaged AC pipes, Extension of pipes and providing Functional House Connections (4300 Nos.) at Varkala Municipality under WS-I, Varkala.	8.24	0.3980	8.6380	1) Pipe line Extension - 30100m 2) New FHTC's provided- 4300 3) Pipe line replacement -1300m
37	Neyyattinkara Approved SWAP Capex (Cr.) 13.89 O&M(Cr.) 0.3 Total cost 14.19Cr	AMRUT 2.0-Neyyattinkara Municipality - Replacement of AC pipes, Pipe line extension, and Providing FHTCs in Neyyattinkara Municipality- Pipeline Work-I	13.89	0.3000	14.1900	1) Replacing AC Pipes - 20600m 2) Providing New FHTCS - 2750 Nos. 3)Existing connections Serviced in as per KWA statement- 1250 Nos 4))Supply of 1 Nos Vertical Turbine Pumps set & Electro magnetic type Flow meter for Raw water pump house.
38	Thiruvanthapuram Approved SWAP Capex (Cr.) 2.8827 O&M(Cr.) 0.1441 Total cost 3.0268Cr	AMRUT 2.0-TWSS-Providing FHTCs to attain full coverage of all wards under Pattoor KWA section-Pipeline Work	2.8827	0.1441	3.0268	1) Providing FHTC-1250 2) Heavy duty Manhole covers- 10 Nos 3) Laying PVC pipe- 11 KM
39	Thiruvanthapuram Approved SWAP Capex (Cr.) 1 O&M(Cr.) 0.05 Total cost 1.05Cr	AMRUT 2.0-Laying new PVC pipes, alteration at various wards under Thirumala section PTP-Pipeline Work.	1	0.0500	1.0500	1) Providing FHTC-300 2) Alteration of existing connection - 150 3) Laying PVC pipes- 2950 M 4) Man hole Covers- 4 Nos
40	Thiruvanthapuram Approved SWAP Capex (Cr.) 2.7793 O&M(Cr.) 0.1389 Total cost 2.9182Cr	AMRUT 2.0--Providing FHTC to attain full coverage of all wards under Palayam KWA Section-General Civil Work.	2.7793	0.1389	2.9182	1) Providing FHTC-850 Nos. 2) Laying PVC pipe- 4100 M
41	Thiruvanthapuram Approved SWAP Capex (Cr.) 2.973 O&M(Cr.) 0.1486 Total cost 3.1216Cr	AMRUT 2.0-Proposal For 100% Coverage In Pangode, Ptp, Valyavila, Thirumala, Punnakkamugal, And Kanjirampara Wards Under Thirumala Section In Thiruvanthapuram Municipal Corporation-Replacing Existing Lines & Extension Of Existing Lines & Providing New Lines With Fite- Pipeline Work	2.973	0.1486	3.1216	1)Laying PVC pipe-7600 M 2) Providing FHTCs -600 Nos. 3) ALTERATION of existing connections - 100 Nos. 4) MH Cover- 10 Nos.
42	Thiruvanthapuram Approved SWAP Capex (Cr.) 0.9646 O&M(Cr.) 0.0482 Total cost 1.0128Cr	AMRUT 2.0 - Providing FHTCs to attain full coverage of all wards under Kowdiar KWA section.	0.9646	0.0482	1.0128	1) Laying PVC pipe-6500 M 2)Providing FHTCs -200 3) Existing connections served in as per KWA statement- 100
43	Thiruvanthapuram Approved SWAP Capex (Cr.) 4.8009 O&M(Cr.) 0.24 Total cost 5.0409Cr	AMRUT 2.0-Proposal for 100% coverage in Mudavanmugal, Poojappura, Karamana, Nedumcadu and Arannoor wards under the Karamana section in Thiruvanthapuram Municipal corporation- replacing existing lines& providing new lines with FHTC-pipeline work	4.8009	0.2400	5.0409	1) Providing new FHTCs =150 2) Alteration of Connections- 3000
44	Thiruvanthapuram Approved SWAP Capex (Cr.) 8.882 O&M(Cr.) 0.4441 Total cost 9.3261Cr	AMRUT 2.0 - Providing FHTCs for all wards (partial Coverage as Phase -I) under Kazhakuttam KWA section	8.882	0.4441	9.3261	1)Providing New FHTCs- 4000

45	Thiruvanthapuram Approved SWAP Capex (Cr.) 14.6267 O&M(Cr.) 0.7313 Total cost 15.358Cr	AMRUTH 2.0-proposal for partial coverage-phase 1 in poonkulam, punchakari thiruvallam vellar wards under WW section vandithadam in thiruvananthapuram municipal Corporation-replacing existing lines, Capacity Improvement of WTP, Extensions of existing lines and providing new lines with FHTCs-pipeline work	14.6267	0.7313	15.3580	1) PVC Pipe Laying Works-18.75 KM 2)Providing FHTC=1695, 3) ALTERATION of Existing connections - 1613 4) Providing The NRV At Thiruvallam Pump House 5) Improving The Water Quality Processing of WTP Plant in Vellayani lake. - Providing Vaccum type chlorinator unit. -Supplying Chlorine leak detector unit
46	Thiruvanthapuram Approved SWAP Capex (Cr.) 9.06 O&M(Cr.) 0.453 Total cost 9.513Cr	AMRUT 2.0 - Providing FHTCs for all wards (Partial Coverage as Phase -I) under Pongummoodu Section	9.06	0.4530	9.5130	1) Providing new FHTCs =3000 2) Laying PVC Pipe- 6 KM 3) MH Cover-40
47	Thiruvanthapuram Approved SWAP Capex (Cr.) 7.593 O&M(Cr.) 0.3796 Total cost 7.9726Cr	AMRUT 2.0-Proposal For Partial Coverage-Phase 1 In Poonthura, Bheemapally, Manikyavilakom, Bheemapally East, Valiyathura, Muttathara, Puthenpally Sangumugham (Part), Wards Of Thiruvananthapuram Municipal Corporation-Replacing Existing Lines & Providing New Lines With Fhtcs Under WW Section Kuriathy-Pipeline Work	7.593	0.3796	7.9726	1)PVC pipe laying- 9.9 KM 2)Providing New FHTC From Existing Pipe Lines=2300 3) ALTERATION of existing Connections - 1000
48	Thiruvanthapuram Approved SWAP Capex (Cr.) 2.4078 O&M(Cr.) 0.1203 Total cost 2.5281Cr	AMRUT 2.0 - Providing new FHTCs and improving water supply in various wards in Thiruvananthapuram Corporation under WW section Peroorkada	2.4078	0.1203	2.5281	1) FHTCs in Coverage Details - 1000 2) PVC Pipe laying -5 KM 3) MH Cover-15
49	Thiruvanthapuram Approved SWAP Capex (Cr.) 10.847 O&M(Cr.) 0.5423 Total cost 11.3893Cr	AMRUT 2.0- Proposal For 100% Coverage In Puthenpally , Sreekandeswaram Part, Thampanoor Part,Chala Fort Manacadu, Kuriathy, Attukal, Palkulangara Part,Chakka Part, Vallakkadavu, Perumthanni Ambalathara,Valiyathura, Sreevaraham Wards Under Kuriathy Section In Thiruvananthapuram Municipal Corporation, Replacing Existing Lines& Extension Of Existing Lines& Providing New Lines With Fhtcs-Pipeline Work	10.847	0.5423	11.3893	1) Providing New FHTC =1980, 2) Alteration - 3000 3)PVC Pipe Laying- 11 KM
50	Thiruvanthapuram Approved SWAP Capex (Cr.) 6.1 O&M(Cr.) 0.305 Total cost 6.405 Cr	AMRUT 2.0 - Providing FHTCs for all wards (Partial Coverage as Phase -II) under Kazhakootam KWA section	6.1	0.3050	6.4050	1) New FHTCs - 2000 2) Laying PVC Pipe line- 6 KM 3) MH Cover - 30
51	Thiruvanthapuram Approved SWAP Capex (Cr.) 5.7682 O&M(Cr.) 0.2884 Total cost 6.0566 Cr	AMRUT 2.0-Proposal For Partial Coverage-Phase 1-In Kalady, Pappanamcode, Melamcode, Estate, Nemom And Ponnurangalam Wards Under Karamana Section In Thiruvananthapuram Municipal Corporation-Replacing Existing Lines & Amp; Extension Of Existing Lines & Amp; Providing New Lines With	5.7682	0.2884	6.0566	1) Providing NEW FHTC=500, 2) ALTERATION OF CONNECTIONS- 2500 3) Laying PVC Pipe line- 14.15 KM

		Fhtcs-Amrut 2.0-Proposal For Partial Coverage-Phase I-In Kalady, Pappanamcode, Melamcode, Estate, Nemom And Ponnurangalam Wards Under Karamana Section In Thiruvananthapuram Municipal Corporation Replacing Existing Lines & Extension Of Existing Lines & Providing New Lines With Fhtcs-Pipeline Work				
52	Thiruvanthapuram Approved SWAP Capex (Cr.) 12.5448 O&M(Cr.) 0.6272 Total cost 13.172Cr	AMRUT 2.0 - Providing FHTCs for all wards (Partial Coverage as Phase -II) under Pongummoodu KWA Section-Pipeline Work-1	12.5448	0.6272	13.1720	1) Providing New FHTC=5000 2) Laying new pipe lines - 8000m
53	Thiruvanthapuram Approved SWAP Capex (Cr.) 0.25 O&M(Cr.)0.0125 Total cost 0.2625Cr	AMRUT 2.0 -Replacing old frequent bursting pipe with PVC pipe in Anoor, Thirumala, Rose garden in Thrikannapuram ward	0.25	0.0125	0.2625	1)PVC Pipe Laying- 800 M 2) Alteration of existing connection- 100
54	Thiruvanthapuram Approved SWAP Capex (Cr.) 0.45 O&M(Cr.) 0.0225 Total cost 0.4725Cr	AMRUT2.0--Replacing of pipe lines at Ammaveedu line and interconnection at Studio road under Nemom ward-Pipeline Work	0.45	0.0225	0.4725	1)Providing New FHTCs - 4 2) Alteration of existing connections- 250 3) Laying PVC Pipe line- 1500 M
55	Thiruvanthapuram Approved SWAP Capex (Cr.) 0.25 O&M(Cr.) 0.0125 Total cost 0.2625	AMRUT 2.0-Replacing of 80mm AC pipe line to110mm PVC pipe 6kg/cm2 works at Sankar Nagar, Pappanamcode-Pipeline Work	0.25	0.0125	0.2625	1)Providing New FHTCs - 7 2) Alteration of existing connections- 100 3) Laying PVC Pipe line- 1100 M
56	Thiruvanthapuram Approved SWAP Capex (Cr.) 0.6 O&M(Cr.) 0.03 Total cost 0.63Cr	AMRUT 2.0-Replacing of pipe lines at Arannoor ward-AMRUT 2.0- Replacing of pipe lines at Arannoor ward-Pipeline Work-1	0.6	0.0300	0.6300	1)Providing New FHTCs - 7 2) Alteration of existing connections- 265 3) Laying PVC Pipe line- 1850 M
57	Thiruvanthapuram Approved SWAP Capex (Cr.) 0.15 O&M(Cr.)0.0075 Total cost 0.1575Cr	AMRUT 2.0- Replacing of old AC pipes and extension and alterations in Nedumcadu ward-Pipeline Work	0.15	0.0075	0.1575	1)Providing New FHTCs - 6 2) Alteration of existing connections- 75 3) Laying PVC Pipe line- 700 M
58	Thiruvanthapuram Approved SWAP Capex (Cr.) 0.15 O&M(Cr.) 0.0075 Total cost 0.1575Cr	AMRUT 2.0-Replacing of old AC pipes and extension and alteration of Poojappars ward, construction of valve chamber and raising of valve chamber--Pipeline Work	0.15	0.0075	0.1575	1) Providing New FHTCs - 6 2) Alteration of existing connections- 150 3) Laying PVC Pipe line- 600 M
59	Thiruvanthapuram Approved SWAP Capex (Cr.) 0.85 O&M(Cr.) 0.0425 Total cost 0.8925 Cr	AMRUT 2.0-Pipeline extension works at various places of Mudavanmugal ward-Pipeline Work	0.85	0.0425	0.8925	1)Providing New FHTCs -30 2) Alteration of existing connections- 600 3) Laying PVC Pipe line- 3500 M
60	Thiruvanthapuram Approved SWAP Capex (Cr.) 0.2 O&M(Cr.) 0.01 Total cost 0.21Cr	AMRUT 2.0 Pipe laying works at various places of Kalady ward-Pipeline Work	0.2	0.0100	0.2100	1)Providing New FHTCs -8 2) Alteration of existing connections- 238 3) Laying PVC Pipe line- 600 M
61	Thiruvanthapuram Approved SWAP Capex (Cr.) 0.085 O&M(Cr.) 0.0042 Total cost 0.0892Cr	AMRUT-2.0 Supply & Erection & Commissioning Of Chlorine Absorbtion System AT 36MLD WTP	0.085	0.0042	0.0892	1.) Chlorine leak absorption system in 36 MLD WTP in Vellayambalam 2) Existing connection serviced in - 50

62	Thiruvanthapuram Approved SWAP Capex (Cr.) 9.7182 O&M(Cr.) 0.4859 Total cost 10.2041 Cr	AMRUT 2.0 proposal for partial coverage-phase 1 in poonthura, Bemapally, Manikkavilakam, Valiyathura part, and Beemapally east under of Thiruvanthapuram municipal corporation-replacing existing lines & extension of existing lines & providing new lines with FHTC under WW section Kuriathy-pipeline work	9.7182	0.4859	10.2041	1) Providing New FHTC - 850 2) Alteration of existing connections - 6000 3) Laying of PVC Pipe line- 11800 M
63	Thiruvanthapuram Approved SWAP Capex (Cr.) 2.8 O&M(Cr.) 0.14 Total cost 2.94Cr	AMRUT 2.0 - Providing FHTCs for all wards (partial coverage as Phase II) in Thiruvanthapuram Corporation under Peroorkada section.-Pipeline Work	2.8	0.1400	2.94	1) Providing New FHTC - 1000 2) Laying of PVC Pipe line- 11000 M
64	Thiruvanthapuram Approved SWAP Capex (Cr.) 1.832 O&M(Cr.) 0.0916 Total cost 1.9236Cr	AMRUT - 2.0 - Providing 160 mm and 110mm PVC Rider main And Alteration of Existing connections along Mukkilkada - Anandeswram Road-Pipeline Work	1.832	0.0916	1.9236	1) Alteration of existing connection - 400 2) Laying of PVC Pipe line- 5400 M
65	Thiruvanthapuram Approved SWAP Capex (Cr.) 1.2707 O&M(Cr.) 0.0635 Total cost 1.3342Cr	AMRUT 2.0-Replacing old pipe lines which are regularly breaking in Chettivilakom ward in Thiruvanthapuram corporation under Peroorkada Section-Pipeline Work	1.2707	0.0635	1.3342	1) Providing New FHTC - 30 2) Alteration of existing connections- 300 3) laying new pipe lines - 2050m.
66	Thiruvanthapuram Approved SWAP Capex (Cr.) 4.901 O&M(Cr.) 0.245 Total cost 5.146 Cr	AMRUT 2.0 - TWSS - Replacing old pipe lines which are regularly breaking in Kinavoor ward in Thiruvanthapuram corporation under Peroorkada Section.-Pipeline Work	4.901	0.2450	5.146	1) Providing New FHTC - 50 2) Alteration of existing connections- 1500 3) laying new pipe lines - 9050 m.
67	Thiruvanthapuram Approved SWAP Capex (Cr.) 2.466 O&M(Cr.) 0.1233 Total cost 2.5893 Cr	AMRUT 2.0 -TWSS - Replacing old pipe lines which are regularly breaking in Mannanthala and Nalanchira ward in Thiruvanthapuram corporation under Peroorkada section-Pipe line work	2.466	0.1233	2.5893	1) Providing New FHTC - 150 2) Alteration of existing connections- 800 3) laying new pipe lines - 4500 m.
68	Thiruvanthapuram Approved SWAP Capex (Cr.) 2.8601 O&M(Cr.) 0.143 Total cost 3.0031Cr	AMRUT 2.0 - TWSS - Replacing old pipe lines which are regularly breaking in Thuruthumoola ward and Peroorkada ward in Thiruvanthapuram Corporation under WW section Peroorkada.-Pipeline Work	2.860	0.1430	3.003	1) Providing New FHTC -200 2) Alteration of existing connections- 600 3) laying new pipe lines - 3400 m.
69	Thiruvanthapuram Approved SWAP Capex (Cr.) 6.204 O&M(Cr.) 0.3102 Total cost 6.5142 Cr	AMRUT 2.0 - - Replacement of old lines and laying new pipelines in various locations under central sub division Palayam-Pipeline Work	6.204	0.3102	6.514	1) Providing New FHTC - 0 2) Alteration of existing connections- 600 3) laying new pipe lines - 7200 m, 4) Existing Connections serviced in as per the statement-1350

70	Thiruvanthapuram Approved SWAP Capex (Cr.) 5.65 O&M(Cr.) 0.2825 Total cost 5.9325Cr	AMRUT 2.0-Proposal For Partial Coverage-Phase 1-In Vattiyoorkavu, Kodunganoor, Vazhottukonam, Nettayam ,Kachani And Thrikkannapuram And Thuruthumoola (Part) Wards Under Thirumala Section In Thiruvanthapuram Municipal Corporation-Replacing Existing Lines & Extension Of Existing Lines& Providing New Lines With Fhtcs-Pipeline Work	5.650	0.2825	5.933	1) Providing New FHTC - 1800 2) Alteration of existing connections- 300 3) laying new pipe lines - 18 KM.
71	Thrissur Approved SWAP Capex (Cr.) 5 O&M(Cr.) 0.5 Total cost 5.5Cr	AMRUT 2.0-Water supply schemes from Kadavaram Pond-Construction of Pump house-providing Treatment Facilities by pressure filters, Laying distribution network, and providing 1000 FHTC FOR Thrissur corporation	5.00	0.5000	5.5000	1).Construction of a Pressure filter 2) 1 No. Chlorine dosing system. 3) Construction of an Iron removal Plant 2).Renovation of existing OH tank. 3) New FHTCs- 1000 Nos. 4) Alteration of existing connection- 350
72	Thrissur Approved SWAP Capex (Cr.) 8.5 O&M(Cr.) 0.85 Total cost 9.35Cr	AMRUT 2.0- Renovation of 14.5MLD WTP Augmented to 20MLD at Peechi and Providing 3550 FHTCs in Thrissur Corporation	8.5	0.8500	9.35	1) Augmentation of existing 14.5 MLD WTP to 20 MLD WTP. - Providing Air compressor -1 Centrifugal Motor pump - Refurbishing Filter bed - Construction of alum and lime tank - Cost of materials- Chemicals,Laboratory Equipment& Glasswares and accessories. - Installation of Chlorinator & Chlorine cylinders - Clarifier,Floculator and Flash mixer Renovation - Partition of office room, rest room - Landscaping 2) Providing new FHTCs- 3550 nos
73	Adoor Approved SWAP Capex (Cr.) 2.4 O&M(Cr.) 0.48 Total cost 2.88Cr	AMRUT 2.0-Laying and strengthening the existing distribution system in Adoor Municipality	2.4	0.4400	2.8400	1) FHTCs new proposed - 2000 Nos 2) Existing connections served in as per KWA statement- 1683 2) pipe line extension-1750m
74	Adoor Approved SWAP Capex (Cr.) 7.6 O&M(Cr.) 1.5 Total cost 9.1Cr	AMRUT-2.0-UWSS to Kaimalappara scheme- Strengthening existing distribution system & Providing house connections in Adoor Municipality	7.6	1.5000	9.1000	1) Construction of 5LL OHSR at Kamalappara 3) Transmission Main from the 12 MLD WTP at Chiranikkal to 5LL at Kaimalappara. 4)Providing New FHTC - 800 5) Existing connections serviced in as per KWA Statement-1023 6) Renovation of WTP Components 7) Install 2 Nos. pumps at WWTPat Chiranikkal
75	Kothamangalam Approved SWAP Capex (Cr.) O&M(Cr.) Total cost Cr	AMRUT-2. Kothamangalam Municipality- Providing FHTC To Urban House Holds in Kothamangalam Municipality	2.4951	0.0049	2.5000	1) Providing New FHTCs- 500 2) Shifting of existing water connection- 50 Nos. 3) distribution network-200mm DI K-9 Pipe - 3000 m & 90mm PVC pipe -120m"
TOTAL			741.031	33.061	774.092	

Decision taken:

- ❖ The Committee reviewed all the projects proposed by the ULBs and noted that the cost per household varies from Rs. 4000 /- to Rs. 48,000/-. Hence KWA and AMRUT were directed to re-examine the estimates with the cost per household of more than 40,000/- and to explore alternative options like micro tunneling for the projects with higher road restoration charges as well.
- ❖ The Committee decided to submit the proposals of the 75 projects amounting to Rs.774.092 Cr. (CAPEX - Rs.741.031 Cr. & OPEX – Rs.33.061 Cr.) for Administrative sanction to the SHPSC after joint scrutiny by KWA and SMMU.
- ❖ KWA shall ensure technical viability, adequate source of water, justified provisions & rates, and necessary clearances, and only admissible components are included as per AMRUT guidelines before issuing the technical sanction.
- ❖ KWA shall ensure that Operation & Maintenance costs, Supervision charges, and Value of land/ structures required for the project development should not be booked under Central Assistance. If the said components are inevitable, the cost for the same may be met from the State/ ULB/KWA fund.

Agenda Item No.7: ADMINISTRATIVE SANCTION OF SEWERAGE PROJECTS APPROVED UNDER 1st TRANCHE OF SWAP:

The 4th Apex committee meeting under the Atal Mission for Rejuvenation and Urban Transformation 2.0 (AMRUT 2.0) held on 12.08.2022 has approved tranche 1 of the State Water Action Plan (SWAP-1) comprises **199 WS projects** for 81/93 Urban Local Bodies and **23 SEW projects** for Thiruvananthapuram Corporation.

The Thiruvananthapuram Corporation area has been divided into 18 sewerage blocks, namely, A to R. Sewerage facilities are available in A, B, C, D, and E Blocks either fully or partially. The coastal area has two Blocks, namely F & G have no sewerage facilities at present. In Amrut phase-1, projects have been taken up for the extension of the sewerage network and system for uncovered portions of the Thiruvananthapuram Corporation area and in I, J, K, and L Blocks.

In AMRUT Phase 2, Projects for providing an extension of sewer networks in 16 locations under Blocks A, B, D, and E, providing sewer networks in Block N (Ulloor block-Sewer line connected with Ulloor pump house serve Edavacode, Nalanchira, Ulloor, and a portion of Pongummoodu area) and for Providing Sewerage Lines in various areas for connecting lines already laid in Amrut 1.0 in blocks I, J, K & L.

KWA has submitted detailed project reports for 23 Sewerage projects of Thiruvananthapuram Corporation amounting to Rs. 109.86Cr. (CAPEX – Rs 104.63 Cr. & OPEX- Rs. 5.23 Cr.).

All the DPRs have been scrutinized by the KWA Headquarters, State & City Mission Management Unit of AMRUT. **Only feasible projects with undisputed land and with Operation & Maintenance for 5 years are recommended for approval.**

Hence, it is requested to issue AS for 23 SEW projects amounting to Rs. 109.86Cr. (CAPEX – Rs 104.63 Cr. & OPEX- Rs. 5.23 Cr.)

The recommended list of projects for issuing Administrativesanctions is as follows:

Sl No.	ULB	Name of the Project	PROJECT COST			Major Components
			Capex (Cr.)	O&M (Cr.)	Total Cost (Cr.)	

			A	B		
1	Trivandrum Approved SWAP: CAPEX - 25 Cr. O&M - 1.25 Cr. Total - 26.25 Cr.	AMRUT 2.0 - Providing Sewerage Lines in various areas for connecting lines already laid in Amrut 1.0 in block L ,J,K & I	23.43	1.19	24.62	1. Sewer network 2. Construction of manhole 3. New Connections: 1000, HH Benefitted: 5200
2	Trivandrum Approved SWAP: CAPEX - 8 Cr. O&M - 0.4 Cr. Total - 8.4 Cr.	AMRUT 2.0 - Construction of sewer Pumping Station in Kollavila in Block N Ulloor	5.22	0.28	5.5	1. Construction of pump house 2. Construction of Grit Chamber 3. Pipe laying works 4. Compound wall 5. Mechanical parts (Grantry crane) 6. New Connections: 0, HH Benefitted: 1800
3	Trivandrum Approved SWAP: CAPEX - 3 Cr. O&M - 0.15 Cr. Total - 3.15 Cr.	AMRUT 2.0 - Supplying and erection of pump sets , transformer and electrical accessories in the Kollavila Pumping Station	2.37	0.13	2.5	1. Supplying and erection of sewerage pumps 2. Electrical work of pump house 3. Supplying and erection of transformers and connected works 4. Supply and installation of diesel generator 5. New Connections: 0, HH Benefitted: 700
4	Trivandrum Approved SWAP: CAPEX - 3 Cr. O&M - 0.15 Cr. Total - 3.15 Cr.	AMRUT 2.0 - Supplying and laying 400mm DI K9 pumping main (Kollavila pump station to stilling chamber at Udhaya gardens)	3	0.1	3.1	1. Supplying and erection of sewerage pumps 2. Electrical work of pump house 3. Supplying and erection of transformers and connected works 4. Supply and installation of diesel generator 5. New Connections: 0, HH Benefitted: 800
5	Trivandrum Approved SWAP: CAPEX - 22 Cr. O&M - 1.1 Cr. Total - 23.1 Cr.	AMRUT 2.0 - Laying Transmission main and sewer networks in Block N (Ulloor)	22.8	1.2	24	1. Sewer network 2. Manholes 3. New Connections: 400, HH Benefitted: 4800
6	Trivandrum Approved SWAP: CAPEX - 22 Cr. O&M - 1.1 Cr. Total - 23.1 Cr.	AMRUT 2.0 - Providing Sewer lines for branch sewers to the collection mains of Block N	23.23	1.22	24.45	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 800, HH Benefitted: 4800
7	Trivandrum Approved SWAP: CAPEX - 13 Cr. O&M - 0.65 Cr. Total - 13.65 Cr.	AMRUT 2.0 - Providing sewer line from Kazhakkuttom area to Kulathoor Pumping Station	15.95	0.68	16.63	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 400, HH Benefitted: 2800
8	Trivandrum Approved SWAP: CAPEX - 0.7609 Cr. O&M -0.038 Cr. Total - 0.7989 Cr.	AMRUT 2.0 - T S S -Providing and laying 250mm SW Sewer line at Kanjirampara East Residence Association (KERA), (MH 1-MH15) under Sewerage section Sasthamangalam.	0.7609	0.038	0.7989	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 60, HH Benefitted: 60
9	Trivandrum Approved SWAP: CAPEX - 0.8308 Cr. O&M - 0.0415 Cr. Total - 0.8723 Cr.	AMRUT 2.0 - T S S -Providing and laying 250mm SW Sewer line at Kanjirampara East Residence Association (KERA), (MH16-MH 30) under Sewerage section Sasthamangalam.	0.8308	0.0415	0.8723	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 65, HH Benefitted: 65
10	Trivandrum Approved SWAP: CAPEX - 0.6078 Cr. O&M - 0.0303 Cr. Total - 0.6381 Cr.	AMRUT 2.0 - T S S --Providing and laying 200mm SW Sewer line at Harismrithy lane, Kanjirampara East Residents Association, Kanjirampara , under Sewerage section Sasthamangalam.	0.6078	0.0303	0.6381	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 55, HH Benefitted: 55

11	Trivandrum Approved SWAP: <i>CAPEX - 0.35 Cr.</i> <i>O&M - 0.0175 Cr.</i> <i>Total - 0.3675 Cr.</i>	AMRUT 2.0 - T S S --Providing and laying 200mm SW Sewer line at Parayil lane, Kanjirampara East Residents Association, Kanjirampara , under Sewerage section Sasthamangalam.	0.35	0.0175	0.3675	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 50, HH Benefitted: 50
12	Trivandrum Approved SWAP: <i>CAPEX - 0.3118 Cr.</i> <i>O&M - 0.0155 Cr.</i> <i>Total - 0.3273 Cr.</i>	AMRUT 2.0 - T S S -Providing and laying 200 mm s w sewer line towards SOUBHAGYA NAGAR and KALATHIL LANE, Medical college ward, under Sewerage Section , Sasthamangalam.	0.3118	0.0155	0.3273	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 50, HH Benefitted: 50
13	Trivandrum Approved SWAP: <i>CAPEX - 0.25 Cr.</i> <i>O&M - 0.0125 Cr.</i> <i>Total - 0.2625 Cr.</i>	AMRUT 2.0 - T S S -Corporation of Thiruvananthapuram- Providing and laying 200mm SW Sewer line at Devi Nagar ," T" lane Edakulam, at Peroorkada ward under Sewerage section Sasthamangalam.	0.25	0.0125	0.2625	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 50, HH Benefitted: 50
14	Trivandrum Approved SWAP: <i>CAPEX - 0.1404 Cr.</i> <i>O&M - 0.007 Cr.</i> <i>Total - 0.1474 Cr.</i>	AMRUT 2.0 - T S S -Providing and laying 200 mm s w sewer line from house MGRA 97 to 114 at Maharaja gardens, Kowdiar ward - under Sewerage Section, Sasthamangalam.	0.1404	0.007	0.1474	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 25, HH Benefitted: 25
15	Trivandrum Approved SWAP: <i>CAPEX - 2 Cr.</i> <i>O&M - 0.1 Cr.</i> <i>Total - 2.1 Cr.</i>	AMRUT 2.0 - T S S -Providing and laying 300 & 250mm s w sewer line from Kalakoumudi road Towards Koyikkal lane in the side of pond - under Sewerage Section , Sasthamangalam.	2	0.1	2.1	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 250, HH Benefitted: 250
16	Trivandrum Approved SWAP: <i>CAPEX - 0.1269 Cr.</i> <i>O&M - 0.0063 Cr.</i> <i>Total - 0.1332 Cr.</i>	AMRUT 2.0 - T S S-Providing and laying 200mm SW Sewer line at KK lane at Murinjapalam, under Sewerage section Sasthamangalam.	0.1269	0.0063	0.1332	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 25, HH Benefitted: 25
17	Trivandrum Approved SWAP: <i>CAPEX - 0.1871 Cr.</i> <i>O&M - 0.0093 Cr.</i> <i>Total - 0.1964 Cr.</i>	AMRUT 2.0 - T S S-Providing and laying 200 mm s w sewer line at Chithira lane Towards Kochar road Maruthankuzhy under sewerage section , Sasthamangalam.	0.1871	0.0093	0.1964	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 25, HH Benefitted: 25
18	Trivandrum Approved SWAP: <i>CAPEX - 0.1112 Cr.</i> <i>O&M - 0.0055 Cr.</i> <i>Total - 0.1167 Cr.</i>	AMRUT 2.0 - Providing and laying 200 mm s w sewer line From House no MGRA 135 Towards TKD Road Marapalam under Sewerage section Sasthamangalam.	0.1112	0.0055	0.1167	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 25, HH Benefitted: 25
19	Trivandrum Approved SWAP: <i>CAPEX - 0.25 Cr.</i> <i>O&M - 0.0125 Cr.</i> <i>Total - 0.2625 Cr.</i>	AMRUT 2.0 - Providing and laying 200 mm SW sewer line in Panchami Garden Hno. PGRA 1 to PGRA 35 in Jagathy ward ,Under sewerage section Sasthamangalam	0.25	0.0125	0.2625	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 50, HH Benefitted: 50
20	Trivandrum Approved SWAP: <i>CAPEX - 1.0623 Cr.</i> <i>O&M - 0.0531 Cr.</i> <i>Total - 1.1154 Cr.</i>	AMRUT 2.0 - SD - Providing and laying 300mm & 200 mm SW Sewer line at Arapura, Vattiyoor kavu, under Sewerage Section, Sasthamangalam, Reach 1	1.0623	0.0531	1.1154	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 250, HH Benefitted: 250
21	Trivandrum Approved SWAP: <i>CAPEX - 0.257 Cr.</i> <i>O&M - 0.0128 Cr.</i> <i>Total - 0.2698 Cr.</i>	AMRUT 2.0 - Providing and laying 200 mm s w sewer line near BSNL office Chalakuzhy, medical college and branch lane at SCT Nagar from SCTNRA-231 to PLRA-151 - under Sewerage Section , Sasthamangalam.	0.257	0.0128	0.2698	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 50, HH Benefitted: 50

22	Trivandrum Approved SWAP: CAPEX - 1.1961 Cr. O&M - 0.0598 Cr. Total - 1.2559 Cr.	SD - Providing and laying 300mm & 200 mm SW Sewer line at Arapura, Vattiyoor kavu, under Sewerage Section, Sasthamangalam, Reach 2	1.1961	0.0598	1.2559	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 250, HH Benefitted: 250
23	Trivandrum Approved SWAP: CAPEX - 0.19 Cr. O&M - 0.0095 Cr. Total - 0.1995 Cr.	AMRUT 2.0 - TSS-PLAN (30)-2022-23- Laying 150 mm dia SW sewer line towards Padayani garden Assosiation lane 17 (PRA 153 to PRA 158) & Lane 06 (PRA 29 to PRA 32) and laying PVC sewer line towards Punartham Garden Lane 11 (87 to 96) & Lane 8B in Padayani road in Maruthamkuzhy	0.19	0.0095	0.1995	1. Laying Sewer Line 2. Construction of manholes 3. New Connections: 70, HH Benefitted: 70
TOTAL			104.6323	5.2311	109.8634	

Decision taken:

- ❖ The Committee noted that the cost per household for three sewerage projects goes more than 1.2 lakhs. KWA clarified that deep rock excavation in narrow roads and shoring for full depth would be required in these areas, hence the higher cost.
- ❖ The Committee reviewed 23 Sewerage projects amounting to Rs. 109.86Cr. (CAPEX – Rs 104.63 Cr. & OPEX- Rs. 5.23 Cr.) proposed in Thiruvananthapuram and recommended for Administrative sanction to the SHPSC.
- ❖ KWA shall ensure technical viability, adequate source of water, justified provisions & rates, and necessary clearances, and only admissible components are included as per AMRUT guidelines before issuing the technical sanction.
- ❖ KWA shall ensure that Operation & Maintenance costs, Supervision charges, and Value of land/ structures required for the project development should not be booked under Central Assistance. If the said components are inevitable, the cost for the same may be met from the State/ ULB/KWA fund.
- ❖ The Operation & Maintenance costs for the sewerage networks and Pumping stations shall be borne by the KWA.

Agenda Item No.8: APPROVAL OF STATE ACTION PLAN UNDER THE SUB-SCHEME OF FORMULATION OF GIS-BASED MASTER PLAN OF CLASS-II TOWNS UNDER AMRUT 2.0.

The Ministry of Housing and Urban Affairs, Government of India has launched the sub-scheme of 'Formulation of GIS-based Master Plans for Class II towns under AMRUT 2.0'. Towns with a population of 50,000- 99,999 are eligible for getting financial assistance under this Scheme. In Kerala, there are 49 cities (including Kottayam town with a population >1 lakh which was not included in AMRUT 1.0) that meet these criteria duly considering the population in 2021 as suggested by TCPO, GoI. This is a 100 % Centrally Sponsored Scheme.

As per the reform Agenda, the State Town & Country Planning Department which is the implementing agency shall prioritize and intimate the cities to be taken up in the subscheme through State Action Plan and the proposal has to be approved by SLTC and SHPSC.

The Government of Kerala vide G.O (Rt) No.2871/2022/LSGD, Dt: 21.11.2022 nominated the Local Self Government Department (Planning) as the Nodal Agency and Chief Town Planner (Planning) is nominated as the Nodal Officer for the implementation of the sub-scheme of formulation of GIS-based Master Plans under AMRUT 2.0.

Five components under the above scheme are :

1. **Creation of Geo-database**– which can be done using
 - a. satellite imagery through NRSC, Hyderabad at the rate of 12,894/- sq.km (**or**)
 - b. drone technology through Survey of India at the rate of 18,000/- sq.km (**or**)
 - c. in house facility

for which funds will be directly released to the agencies concerned by the MoHUA.

2. **Formulation of GIS-based Master Plan** – which can be prepared using
 - a. In-house facility (or)
 - b. through outsourcing
3. **Capacity Building**
4. **Development of Centralized National Urban Geo-portal;** and
5. **Development of Integrated Mobile Application.**

Accordingly, State Action Plan for this Scheme is prepared as per the Reform Agenda for the scheme issued by MoHUA, Government of India, and a copy of the same is submitted before this committee for approval.

The salient points of the State Action Plan are listed below:

- i. For better clarity & detailing and also in view of weather conditions in the State, the creation of a Geo-database, using a Drone Survey through Survey of India is selected for all the towns.
- ii. As per the reform agenda for the sub-scheme under AMRUT 2.0, salary & wage components, furniture & fixtures and hardware & software, recurring expenses, etc. are inadmissible components. In this context, considering the no. of Master Plans to be handled simultaneously in each district within the Mission period and the constraints in the availability of adequate manpower and infrastructure in the Department exclusive for this scheme, the need for outsourcing the task of preparation of Master Plan preparation is found desirable, which is permissible as per the scheme guidelines.
- iii. For the Capacity Building under sub-scheme the following Institutes / Centres are suggested 1) IISM, Hyderabad, 2) IIRS, Dehradun, 3) NESAC, Shillong, 4) CEPT, Hyderabad, 5) KILA, Thrissur and 6) IMG, Thiruvananthapuram. The first three institutes are approved by TCPO whereas the last three institutes are included as venues for conducting customized training programs by LSGD(Planning) for effective implementation of the scheme from the list of institutes approved by 1st SHPSC held on 06.05.2022
- iv. The Mapping area of the Towns is selected based on the buffer guidelines suggested by GoI and as per the data provided by the District office duly considering the urban expansion and other factors.
- v. As per Reform Agenda, the Government of India has proposed a pattern of release of funds to State Governments. Accordingly, a proposal for the release of funds for Kerala is given in the State Action Plan.
- vi. The time schedule for completion of the Scheme is given in the proposal in the State Action Plan.

Considering all these, the Committee may approve the proposal and submit it to SHPSC for approval and onward transmission to the Government of India for the release of funds.

Decision Taken:

- ❖ **The Chief Town Planner briefly explained the State Action plan of the sub-scheme of 'Formulation of GIS-based Master Plans for Class II towns under AMRUT 2.0'.**
- ❖ **The SLTC reviewed the State Action Plan under the sub-scheme of 'Formulation of GIS-based Master Plans for Class II towns under AMRUT 2.0' and recommended the same to the SHPSC for approval.**

Agenda Item No.9: PROVIDING SUPPORT OF STATE NODAL AGENCY UNDER AMRUT 2.0

In the annual plan for 2022-23, the LSGD(Planning) has proposed "a new support scheme for AMRUT 2.0" under State Scheme. This scheme intends to meet the expenses for supporting the functioning of the State Nodal Agency (including setting up of project cell, hiring of personnel, purchase of computers etc). These expenses are very vital for the execution of the scheme and are included as inadmissible components as per the Reform Agenda for the sub-scheme of 'Formulation of GIS-based Master Plans for towns under AMRUT 2.0'Towns with population 50,000- 99,999.

In the discussion with State Planning Board, it was informed to explore whether the A & OE cost of AMRUT Mission may be utilized for supporting the functioning of the State Nodal Agency (including setting up of project cell, hiring of personnel, purchase of computers, etc). Subsequently, a discussion was made on 02.12.2022, and it was suggested that the space for the State Nodal Agency can be a part of the proposed new office space of the State Mission Management Unit (SMMU) under AMRUT 2.0. Since expenses for wages of hiring of personnel, hiring of one vehicle, purchase of stationery, etc. are inadmissible components as per the Sub scheme guidelines, it was decided that it may be addressed through the proposed State Scheme.

Decision Taken: **The Committee directed the Mission director AMRUT to work out the financial outlay for the proposed new office space of the State Mission Management Unit (SMMU) and to submit it before the next Committee after evaluating the same by the Chief Engineer LSGD.**

Agenda Item No.10: OPENING OF SEPARATE BANK ACCOUNT FOR SNA & IMPLEMENTING AGENCIES UNDER THE SCHEME

As per the revised procedure for handling the fund under CSS, the opening of separate Savings bank account & current bank account(holding account) for Single Nodal Agency [Director AMRUT Mission], separate Zero balance subsidiary savings bank accounts& current bank accounts(holding account) for State Nodal Agency in the name of Nodal Officer [Chief Town Planner (Planning)] and for Implementing Agencies (District Offices of LSGD(Planning) concerned to the cities selected for the scheme by Government of India based on the Approved State Action Plan) are required for the implementation of this Scheme.

In this context, separate Saving bank account & current bank account(holding account) for Single Nodal Agency [Director AMRUT Mission], separate Zero balance subsidiary savings bank accounts & current bank accounts(holding account) for State Nodal Agency in the name of Nodal Officer [Chief Town Planner (Planning)] and for Implementing Agencies (District Offices of LSGD(Planning) concerned to the cities selected for the scheme by Government of India based on the Approved State Action Plan) are to be opened for this Scheme in Indian Bank where the current SNA account of AMRUT is operational.

Decision Taken:	<p>The SLTC decided to approve the opening of the bank accounts in the Indian Bank where the current SNA account of AMRUT is operational, after working out the modalities with the State PFMS as follows;</p> <ul style="list-style-type: none"> ❖ Separate Savings bank account & current bank account(holding account) for the Single Nodal Agency [Director AMRUT Mission], ❖ Separate Zero balance subsidiary savings bank accounts & current bank accounts(holding account) for the State Nodal Agency in the name of Nodal Officer [Chief Town Planner (Planning)] and for Implementing Agencies (District Offices of LSGD(Planning) concerned to the cities selected for the scheme by Government of India based on the Approved State Action Plan)
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Agenda Item No.11: CONSTITUTION OF CONSULTANCY EVALUATION & REVIEW COMMITTEE (CERC) FOR MONITORING THE GIS-BASED MASTER PLAN.

As per the Guidelines for the Scheme of Formulation of GIS-based Master Plans, preparation of the Master Plans may be done outsourcing or in-house. The Consultant's work will be monitored and reviewed by a Consultancy Evaluation and Review Committee (CERC). The CERC will report to State Level Technical Committee (SLTC). The composition of the CERC is

- | | |
|------------------------------------------------------------------------|-----------|
| 1. Principal Secretary (UD)/ Director, State Mission Directorate AMRUT | -Chairman |
| 2. Director/ CTP, Town & Country Planning Dept. | -Member |
| 3. Municipal Commissioner of the AMRUT Town | -Member |
| 4. Chief Engineer, PWD & PHE | -Member |
| 5. Representative of Disaster Management Authority | -Member |
| 6. Representative of MoHUA/ TCPO | -Member |
| 7. Senior Town Planner of concerned State/ UT Member | -Convener |

It is mentioned in the Reform Agenda that the State may modify the composition of the CERC as per the requirements of the State Government. Accordingly, the composition of CERC consisting of the following members including a representative of the Director of Survey & Land Records and Executive Director, IKM is placed before the SLTC.

- | | |
|------------------------------------------------------|---------------------|
| 1. Mission Director, AMRUT State Mission Directorate | -Chairman |
| 2. Chief Town Planner (Planning) | - Member & Convener |
| 3. Director of Urban Affairs | -Member |
| 4. Representative of Disaster Management Authority | -Member |
| 5. Representative of Director Survey & Land Records | - Member |
| 6. Executive Director, IKM | - Member |
| 7. Representative of MoHUA/ TCPO | -Member |
| 8. Chief Engineer, LSGD | -Member |

- | | |
|-------------------------------------------------------------|------------------|
| 9. Senior Town Planner / Town Planner of District concerned | -Member |
| 10. Secretary of AMRUT Town concerned | -Special Invitee |
| 11. Municipal Engineer of AMRUT Town concerned | -Special Invitee |

Decision Taken: The SLTC approved the constitution of the CERC with the following members and recommended the same to the SHPSC;

1. The Principal Secretary, LSGD - Chairman
2. Mission Director, AMRUT State Mission Directorate - Co-Chairman
3. Chief Town Planner (Planning) - Member & Convener
4. Director of Urban Affairs - Member
5. Representative of Disaster Management Authority - Member
6. Representative of Director Survey & Land Records - Member
7. Executive Director, IKM - Member
8. Representative of MoHUA/ TCPO - Member
9. Chief Engineer, LSGD - Member
10. Senior Town Planner / Town Planner of District concerned - Member
11. Secretary of AMRUT Town concerned - Special Invitee
12. Municipal Engineer of AMRUT Town concerned - Special Invitee

Agenda Item No.12- AMRUT 2.0-TOOL KIT FOR URBAN REFORMS.

Atal Mission for Rejuvenation and Urban Transformation 2.0 (AMRUT 2.0) mission has a reform agenda focusing on improving the financial health of ULBs, the water security of cities, and the ease of living of citizens by improving the delivery of municipal services. To encourage the ULBs to implement the reforms, AMRUT 2.0 incentivizes the successful implementation of a set of reforms for better delivery of citizen-centric services and the financial health of the ULBs. Reforms will be implemented in the first four years of the Mission period. A self-assessment scorecard along with supporting documents of reforms to be implemented each year by the State and ULBs approved by the State High Powered Steering Committee has to be submitted to MoHUA to claim the reforms incentives.

The Reform agenda is expected to be achieved through the successful implementation of 2 Mandatory Reforms and 7 incentive-based reforms.

1)Mandatory reforms

Mandatory reforms will be on property tax and user charges. The reforms are to be implemented and submitted by 30th September 2023. **The States will have to implement these reforms in the first two years from the launch of the Mission to be eligible for Central Assistance from the third year onwards.**

2) Incentive-based reforms

Seven reforms have been included in Mission which will be incentivized for successful implementation. Rejuvenation of water bodies, reduction in Non-Revenue Water (NRW), and reuse of treated used water are the reforms oriented towards water security. Reforms on enhancing a few specified services through building bye-laws, efficient urban planning, online municipal services, grievance redressal system, and

GIS-based mapping of properties are aimed at improving urban governance. Improving municipal finances through the issuance of municipal bonds is also a reform that will be incentivized.

Also, the demonstration projects that are making a remarkable impact in the field of water management such as NRW reduction, 24x7 water supply, Drink from Tap facility, rejuvenation of waterbodies, SMART solutions targeting water metering in District Metered Areas (DMAs), etc.

An amount of ₹ 5,340 Crore has been earmarked as a reform incentive. Eight percent of the Central Assistance allocated to AMRUT 2.0 projects as per Budget Estimate has been earmarked as reform incentives. The incentive for reforms implemented in a year will be awarded in the succeeding financial year. The evaluation of the status of reforms will be done through a third party, citizen feedback, and interview with officials.

Decision Taken: The SLTC deliberated on the reform activities to be implemented under AMRUT 2.0. and directed AMRUT to prepare the Road map for implementing the same within the stipulated time frame.

Agenda Item No.13: PROPOSAL FOR THE IEC CAMPAIGN AMONG SCHOOL STUDENTS- 'JALAMJEEVITHAM' A CAMPUS-TO-CAMPUS CAMPAIGN ON SANITATION AND PROTECTION OF WATER RESOURCES.

As per the AMRUT 2.0 guidelines, Information Education Communication (IEC) including Behavior Change Communication is envisaged as a key strategy for spreading awareness on the conservation of water and enhancing water use efficiency, municipal services, creation of markets for treated used water, encouraging potential investors to invest in PPP projects in the water sector, etc among the masses. IEC will envisage converting the campaign into a movement- Jan Aandolan by people and stakeholders. IEC tools specified in the AMRUT 2.0 guidelines are Mass Media campaigns, Social Media Campaign, Targeted Marketing through collaterals, Outdoor Publicity, Activations, Community Engagement, and Exhibition/Melas of success stories. 1% of the central assistance is earmarked for IEC activities. As per the guidelines, an annual IEC action plan is required to be submitted to MoHUA along with SWAPs.

The 3rd State High Powered Steering Committee approved the action plan and decided to include school-based Information Education and Communication (IEC) campaign in the IEC Action Plan on Water Conservation & Sanitation at schools through various activities like, forming science clubs, doing projects on water conservation in Schools and Houses, water quality auditing, making competitions, and thereby spreading awareness to the Public through the students.

Based on the decision of the SHPSC, the Mission Director, AMRUT has requested the Education Department for a proposal for organizing an IEC campaign in the schools of the 93 Urban Local Bodies. The National Service Scheme (NSS) unit of the **Education Department is organizing similar** IEC activities in other departments also. They have submitted a proposal 'Jalam Jeevitham' – a Campus-to-Campus Campaign on the Protection and Sanitation of Water Resources. The IEC campaign covers 372 selected schools (4 schools from each ULB) in the 93 Urban Local Bodies including Lower Primary, Upper Primary, High School, and Higher Secondary Schools. The campaign aims to cover more than 1 lakh students through 300 NSS volunteers. The estimated cost for the campaign is Rs.39,22,800/-

Decision Taken : The SLTC reviewed the proposal 'Jalam Jeevitham' and decided to request the Director of Education Department to present the detailed proposal before the SHPSC.

Agenda Item No.14: REQUEST TO TAKE UP THE PROJECT SEWERAGE SYSTEM TO KOZHIKODE CORPORATION – ZONE B1- PART 1 UNDER DBOT DIRECTLY BY ULB.

Project proposal for Sewerage System to Kozhikode Corporation -Zone B1- Part1 for Rs. 160 Cr. comprises a well-planned sewerage pipeline network for the core area of zone B 1 part 1 (Area between Railway line to cannoli canal; Kallai river to KP Chandran road), pumping stations, a sewerage treatment plant with suitable technology of 27 MLD and a co-treatment plant with a capacity of 250 KLD to treat septage.

The Secretary, Kozhikode Corporation has requested permission vide letter No. EG21/61457/17(A) dated 12/12/2022 to take up the project through DBOT directly by ULB.

Deliberations:

- ❖ The Secretary of Kozhikode Corporation mentioned that the Corporation council has decided to take up the project through DBOT directly by ULB. Secretary informed that if ULB goes ahead with the KWA plan, huge Operation & Maintenance charges of about Rs. 30 Cr. will have to be borne by ULB itself. Moreover, only 4 wards are partially covered under the KWA plan and KWA is not ready to change the SBR technology proposed in the old DPR prepared.
- ❖ MD KWA assured that KWA will not demand centage charges or supervision charges from ULB for AMRUT projects.

Decision Taken: The Committee noted that ULB could not progress STPs in Avikkal thodu and Kothi under AMRUT 1.0. Hence it was decided to discuss and finalize the matter in the upcoming SHPSC.

Agenda Item No.15: SELECTION OF PROJECT DEVELOPMENT AND MANAGEMENT CONSULTANTS (PDMC)- APPROVAL OF TECHNICAL BID EVALUATION REPORT:

As per Clause-6.7 of AMRUT 2.0 guidelines, to ensure efficient implementation of projects, the State and ULBs should follow an approach wherein end-to-end support for project design, development, implementation, and management is provided to ULBs/ States/ UTs by external entities (PDMCs).

Vide G.O. (Rt) No. 565/ 2022/ LSGD dated 09.03.2022, Government has entrusted the Centre for Management Development (CMD) to invite RFPs for Project Development and Management Consultant (PDMC) for AMRUT 2.0. Bids were invited with a deadline of 14th April 2022. A pre-bid meeting was held on 31.03.2022, in which representatives of 13 bidders participated.

RFP was modified in line with the pre-bid queries, model RFP of MoHUA & RFPs of other states PDMC for AMRUT 2.0, and the Government has approved the same vide G.O. (Rt)No.1973/2022/LSGD dated 15.08.2022. The modified RFP was published on 23.08.2022 in the CMD portal. The due date for submission of the bid was 6th October 2022.

6 proposals were received from the following bidders;

1) Shah Technical Consultants 2) Tata Consulting Engineers Limited 3) WAPCOS Ltd. 4) URS Scott Wilson in JV with AECOM 5) Tata Consulting Engineers Limited & 6) Earnst & Young.

Subsequently, technical bids were opened on 14th October 2022 in the presence of CSC members and representatives of bidders. The evaluation committee had suggested rejecting the proposals submitted by TATA Consulting Engineers Limited due to the submission of multiple online bids (Ref. Clause 7 of Section 2 in the RFP document) and the remaining four (04) bids were opened in the technical bid opening meeting.

The technical proposals were evaluated by the 2nd & 3rd Consultant Selection Committees held on 3.12.2022 and 16.12.2022.

The Technical Proposal Evaluation Report is as follows;

Sl. No	Name of Bidder	Name of NGO Associated with Bidder	Total Marks scored
1	Shah Technical Consultants Pvt. Ltd. with CED	Centre for Environment and Development	90.50
2	WAPCOS Limited.	All Kerala Orphans Welfare Association	69.75
3	URS Scott Wilson India Pvt. Ltd. in JV with AECOM India Pvt. Ltd.	SHREYAS	84.50
4	ERNST & YOUNG LLP.	Water, Sanitation and Hygiene Institute (WASH Institute)	82.00

It may be noted that since all 04 bidders had secured more than 60 marks, all four bidders are eligible for financial bid opening.

Decision taken:

- ❖ The Committee noted that the NGO associated with the bidder M/s. WAPCOS Limited has not secured any marks in the Technical Evaluation. Hence the Committee suggested re-examining the eligibility of the NGO if M/s. WAPCOS Limited is the lowest evaluated bidder.
- ❖ The Committee approved the Technical Evaluation report of PDMC and sanction was given for the opening and evaluation of the financial bid of four eligible bidders.

Agenda Item No.16: REQUEST TO HIRE ADDITIONAL SPACE FOR SMMU, AMRUT

At present State Mission Management Unit, AMRUT is functioning in a building with an area of 260 sqm. With the commencement of operation of AMRUT 2.0, additional staff is required and the 3rd SHPSC approved the new staff pattern as well. Along with that, CTP has requested to provide office space for GIS mapping work. Also, the current conference hall is very small. Taking these facts into account, a proposal is submitted for obtaining permission to hire a building of 200 sqm area. The approximate rent in the locality is Rs. 450/m2.

Decision Taken: The Committee directed the Mission director AMRUT to work out the financial outlay for the proposed new office space of the State Mission Management Unit (SMMU) and to submit it before the next Committee after evaluating the same by the Chief Engineer LSGD.

Sharmila Mary Joseph
**Principal Secretary
LSGD**

DR. SHARMILA MARY JOSEPH IAS
Principal Secretary
Local Self Government Department
Government of Kerala
Thiruvananthapuram
Ph: 0471-2518008

[Signature]
**Mission Director
AMRUT**

**Additional Chief Secretary
Local Self Govt. department**

List of Participants

31st SLTC of AMRUT Phase 1 and 6th SLTC of AMRUT 2.0 held on 22th & 24th of December 2022 through VC

1. Sri.M.K. Varghese, Hon'ble Mayor, Thrissur Corporation
2. Smt. Soumya Raj, Hon'ble Chairperson, Alappuzha Municipality
3. Smt. Sarada Muraleedharan IAS, Additional Chief Secretary, LSGD
4. Smt. Sharmila Mary Joseph IAS, Principal Secretary, LSGD
5. Sri. Venkateshpathi S IAS, Managing Director, Kerala Water Authority
6. Sri. Arun.K.Vijayan IAS Mission Director, AMRUT
7. Sri. Sreekumar, Technical Member, Kerala Water Authority
8. Sri. Anil Kumar, K.K., Chief Engineer (Projects & Operations) KWA, TVPM
9. Sri. K.T.Balabhaskaran, Executive Director, Suchitwa Mission
10. Sri. Sandeep.K.G, Chief Engineer, LSGD
11. Sri. H. Prasanth, Chief Town Planner, Local Self Government Department (Planning)
12. Sri. Praveen.K.S, Director (LMW), Suchitwa Mission
13. Sri. Madhusoodhanan Nair.C.S, Under Secretary, Finance Department
14. Smt. Bincy.B.S, Executive Engineer, Kerala State Pollution Control Board, Thiruvananthapuram
15. Smt. Pravitha.P.K., Assistant Executive Engineer, Kerala State Pollution Control Board, Thiruvananthapuram
16. The Superintending Engineer, KWA, PH Circle, Thiruvananthapuram
17. The Superintending Engineer, KWA, PH Circle, Kollam
18. The Superintending Engineer, KWA, PH Circle, Thrissur
19. The Superintending Engineer, KWA, PH Circle, Kozhikode
20. The Superintending Engineer, KWA, PH Circle, Kochi
21. The Executive Engineer, Sewerage Circle, KWA, Kochi
22. Secretaries of 93 ULBs