

5th STATE LEVEL TECHNICAL COMMITTEE (SLTC)

AGENDA NOTE



Date: 18.10.2022 at 3.30 PM

VENUE: MEETING THROUGH VIDEO CONFERENCING



Local Self Government Department, Government of Kerala

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Agenda Item No.1: Sewerage & Septage Sector – Implementation of Faecal Sludge Treatment Plant Projects – Engagement of Accredited Agencies for Preliminary Report Preparation:

Vide Govt. Orders dated 22.08.2022 [G.O (Rt) No. 2055/2022/LSGD] and 16.08.2022 [G.O (Rt) No. 1983/2022/LSGD] (**Annexure-1**), the Local Self Government Department has sanctioned accreditation, respectively, to M/s. Consortium for DEWATS Dissemination Society (CDD), Bangalore and M/s. Integrated Rural Technology Centre (IRTC), Palakkad in the field of faecal sludge management. As part of the efforts to implement Faecal Sludge Treatment Plant (FSTP) Projects under AMRUT & AMRUT-2.0, these accredited agencies were contacted by the State Mission Management Unit (SMMU) and meetings were conducted with them for the preparation of preliminary reports on the implementation of FSTPs within a short timeframe of 2 months.

Subsequently, M/s. CDD informed their willingness to take up the preliminary report preparation activities in Thiruvananthapuram Corporation, Alappuzha Municipality, Kochi Corporation, Thrissur Corporation, Kozhikode Corporation, and Kannur Corporation without any fee (only accommodation & vehicle for site visit to be provided). Accordingly, they have been engaged and they have commenced the ULB visits for the preparation of preliminary reports on 12.10.2022.

M/s. IRTC has confirmed their willingness to take up the preliminary report preparation in Kollam Corporation, Guruvayur Municipality and Palakkad Municipality. As per the information received orally from the Secretary, IRTC-PIU the fee for preparation of preliminary report per ULB is Rs.2.5 Lakh (including all expenses). Confirmation in this regard is expected to be obtained from M/s.IRTC shortly.

It is also suggested that the expertise of Dr. Akshay Shende, Scientist, Environmental Technology Division, CSIR National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram may also be utilized for the implementation of FSTPs.

Fund available in the A & OE fund of AMRUT can be utilized for this purpose.

Decision to be Taken:

The SLTC may recommend the following to SHPSC

- ❖ **Ratification of the action taken in engaging, M/s. Consortium for DEWATS Dissemination Society (CDD), Bangalore in Thiruvananthapuram Corporation, Alappuzha Municipality, Kochi Corporation, Thrissur Corporation, Kozhikode Corporation & Kannur Corporation for the preparation of preliminary report for the implementation of FSTPs in AMRUT & AMRUT-2.0.**
- ❖ **Granting of permission for engaging, M/s. Integrated Rural Technology Centre (IRTC) in Kollam Corporation, Guruvayur Municipality & Palakkad Municipality for the implementation of FSTPs in AMRUT & AMRUT-2.0.**
- ❖ **Granting of permission for engaging, Dr. Akshay Shenda, Scientist, Environmental Technology Division, CSIR National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram for the implementation of FSTPs in AMRUT & AMRUT-2.0.**
- ❖ **Granting of permission for utilizing A & OE fund of AMRUT for these purposes.**

Agenda Item No.2: Approval for Procurement of Smart Application and Vehicles for the Collection of Septage in AMRUT Cities for Managing Septage Collection Activities:

Trivandrum Corporation started the application - Smart Trivandrum app so that the public can book licensed vehicles for desludging septic tanks. A call center functions in the ULB to manage online orders. The facility also allows online monitoring of the orders. All the collection vehicles are fitted with GPS and are monitored

throughout the trip till the completion of the order. People can report any attempted illegal disposal of sewerage waste through Smart Trivandrum App. This has helped in preventing the illegal disposal of liquid waste into water bodies.

Under AMRUT, STPs with co-treatment are under construction and under AMRUT-2.0, STPs with co-treatment & FSTPs are planned. Hence similar or better app may be procured for other AMRUT cities as per requirement. Septage desludging vehicles (big & small) may also be procured.

Funds available in the Sewerage & Septage Sector of AMRUT & AMRUT-2.0 can be utilized for this purpose.

Decision to be Taken:

The SLTC may recommend the following to the SHPSC:

- ❖ **Granting permission for the procurement of septage vehicles (big & small) for the collection of septage in AMRUT cities as and when required.**
- ❖ **Granting permission for the procurement of apps like Smart app or better app for management of septage collection in AMRUT cities as and when required.**
- ❖ **Granting permission for utilizing the funds available in the Sewerage & Septage Sector of AMRUT & AMRUT-2.0 for these purposes.**

Agenda Item No.3: Approval of 2nd Tranche of State Water Action Plan (SWAP):

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) comprising of 199 water supply projects for 81/93 Urban Local Bodies and 23 SEW projects for an amount of Rs.1938.52 Cr. (CAPEX - Rs.1842.658 Cr. & OPEX - Rs.95.86 Cr.) GoI has released the 1st installment against Central Assistance of SWAP amounting to Rs.148 Cr. to the State.

WATER SUPPLY SECTOR:

- Rs.1713.40 Cr. (CA - Rs.736.10 Cr.) is allocated for Water Supply projects for all 93 ULBs.
- Rs.100 Cr. (CA - Rs.50 Cr.) is allocated as a Floating Incentive Fund for Non-AMRUT ULBs (84 ULBs) from Sewerage & Septage Sector.
- Rs.636.16 Cr. (CA - Rs.212.39 Cr.) is allocated as a Floating Incentive Fund for AMRUT ULBs (9 ULBs) from Sewerage & Septage Sector which can be utilized for Water Supply Sector to achieve universal coverage. Once this is achieved balance amount if any can be used in Sewerage & Septage Sector.
- GoI had approved the 1st tranche of Water supply projects amounting to Rs.1828.65 Cr. (CAPEX - Rs. 1738.02 Cr. & OPEX - Rs. 90.63 Cr.)

Proposals under 2nd Tranche of the State Water Action Plan - Water Supply Sector:

- Nine ULBs (Kochi, Kattappana, Kannur, Kasargode, Sreekandapuram, Erattupetta, Koduvally, Kodungallur and Ponnani) submitted water supply proposals for **Rs.184.502 Cr.** (CAPEX - Rs.171.388 Cr. & OPEX – Rs.13.114 Cr.)
- Erattupetta and Sreekandapuram Municipalities submitted proposals for Micro Water Supply schemes for **Rs.16.009 Cr.** (CAPEX - Rs.15.109 Cr. & OPEX - Rs. 0.99 Cr.)
- All the projects that satisfied 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% except one micro water supply project of Sreekandapuram Municipality, where the coverage achieved is 73% and Cost per household benefitted is slightly high i.e., Rs.50,891.

SEWERAGE & SEPTAGE:

- Rs. 567.30 Cr. is earmarked for Sewerage & Septage Management Projects for 9 AMRUT 1.0 Cities.

project fund allocation for water supply projects in AMRUT cities may be taken up for 24x7 water supply. Additional funding for such projects will be admissible in form of reform incentives.

Ministry of Housing & Urban Affairs has constituted a National Level Task Force and GoK has constituted State & City Level Task Force, on 24X7 water supply systems for undertaking Capacity Building of States/ULBs to disseminate knowledge, best practices, guidelines on 24X7 water supply and to assist in the planning, design, and implementation of projects under AMRUT 2.0 on a long term basis. The government order is attached as **Annexure-3**.

Consequent to the workshop held in Puri, Orissa for 24X7 water supply projects, Kerala Water Authority has tentatively selected wards/ DMAs in each ULB suitable for such projects and submitted an action plan for implementing 24X7 water supply projects for **Rs. 55.918 Cr. The same is under review by the Urban Local Bodies.**

Decision to be Taken:

- ❖ **The 24X7 Water Supply guidelines may be noted by the SLTC.**
- ❖ **The 9 AMRUT-1.0 cities may be instructed to develop 24X7 Water Supply projects for AMRUT-1.0 cities with the support of KWA and with the aid of State and City Level Task Forces.**

Agenda Item No.5: Progress - Selection of Project Development and Management Consultants (PDMC):

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. Since Tata Consulting Engineers Limited has submitted two e-bids, the Committee has jointly recommended disqualifying the bids since RFP, Clause 7.1-Proposal stipulated that "*Consultants may only submit one proposal. If a Consultant submits or participates in more than one proposal, such proposals shall be disqualified*".

The technical proposals are being evaluated by the Consultant Selection Committee. The Technical Proposal Evaluation Report will be submitted to the SLTC for approval.

Decision to be Taken:

The Committee may take note of the progress achieved and that the Technical Evaluation report would be placed in the subsequent SLTC for approval.

- GoI had approved the 1st tranche of SEW projects for Thiruvananthapuram Corporation amounting to Rs.109.86 Cr. (CAPEX - Rs.104.63 Cr. & OPEX - Rs.5.23 Cr.)

Proposals under 2nd Tranche of the State Water Action Plan – Sewerage & Septage Sector:

- So far 3 Urban local bodies submitted Sewerage proposals for Rs.416.22 Cr. (CAPEX - Rs.385.00 Cr. & OPEX - Rs.31.22 Cr.)
- Kochi has submitted the proposal for the construction of 5 MLD proposed STP, network, and allied components incorporating a co-treatment facility to treat septage - **Project Cost excluding O&M Charges - Rs.185.00 Cr. against the allocated fund of Rs.189.86 Cr.**
- Kollam has submitted the proposal for rehabilitation of the existing sewerage system and extension of the sewerage system for Zone-A1, Part-II and commissioning of Pallihottam and Thamarakulam pumping stations balance works - **Project Cost excluding O&M Charges - Rs.40 Cr. against the allocated fund of Rs.69.57 Cr.**
- Kozhikode has submitted the proposal for designing and commissioning of a comprehensive sewerage scheme for Zone-B1, Part-1 of Kozhikode Corporation. The project proposes a well-planned sewerage pipeline network for the core area of Zone-B1, Part-1 (area between the railway line to Cannoli Canal; Kallai River to KP Chandran road), pumping stations and a STP with suitable technology of 27 MLD (for future expansion also) to ensure the quality of effluent as per KSPCB standards. A co-treatment plant is also proposed with a capacity of 250 KLD to treat septage of the non-networked area of the Kozhikode Corporation - **Project Cost excluding O&M Charges - Rs.160 Cr. against the allocated fund of Rs.163.54 Cr.**
- **Respective Council resolutions are yet to be obtained.**

WATER BODY REJUVENATION:

- 5% of the total fund is allocated for the Rejuvenation of Water Bodies and Developing Green Spaces and Parks projects. The total fund comes to Rs.143.34 Cr. (CA-Rs.68.6 Cr.)
- 4th SLTC had approved the special tranche of Rejuvenation of Water Bodies projects submitted by 64 ULBs for an amount of Rs.72.34 Cr. (excluding O&M).

Proposals under 2nd Tranche of the State Water Action Plan - Rejuvenation of Water Bodies Sector:

- The 4th SLTC had approved 4 Nos. Water body projects for Kannur Corporation under the special tranche amounting to Rs. 1.27 Cr. Now the ULB has informed that the estimated amount has been increased while revising the estimate with PRICE 3 and requested a revised amount of Rs. 2.7805 Cr.(CAPEX - Rs.2.75 Cr., O&M - Rs.0.0305 Cr.)
- Further to this, Chavakkad, Kottakkal, Panoor, Ponnani & Kanhangad Municipalities submitted 6 proposals for the rejuvenation of water bodies for Rs.2.79 Cr. (excluding O&M)
- The proposals for the Rejuvenation of Water bodies from 5 ULBs for the total cost of Rs.3.03 Cr. (CAPEX - Rs.2.79 Cr., OPEX - Rs.0.24 Cr.)

2nd Tranche of the State Water Action Plan for all the sectors comes to Rs.603.752 Cr. (CAPEX – Rs.559.178 Cr. & OPEX – Rs.44.574 Cr.) with the Central Assistance of Rs.196.699 Cr. Details are enclosed as Annexure-2.

Decision to be Taken:

The SLTC may recommend the approval of the 2nd Tranche of the State Water Action Plan for an amount of Rs.603.752 Cr. (CAPEX – Rs.559.178 Cr. & OPEX – Rs.44.574 Cr.) to the SHPSC.

Agenda Item No.4: Approval of 24x7 Water Supply Projects in 9 AMRUT-1.0 Cities:

As per the AMRUT-2.0 guidelines, AMRUT cities are mandated to undertake reforms for water conservation including projects on 24x7 water supply with a drink-from-tap facility. These projects should cover at least one ward or DMA with at least 2,000 households in a contiguous manner. Projects costing up to 20% of the

Agenda Item No.6: Administrative Sanction of Projects Approved under 1st Tranche of SWAP:

As per the AMRUT 2.0 guidelines, SLTC will be primarily responsible for the technical appraisal of DPRs and tender documents. **Before giving approval, SLTC shall ensure the availability of undisputed land for projects, the inclusion of O&M for at least five years, and the last stretch of tap/ sewerage connectivity to households.**

The SLTC in its 4th meeting approved the same procedure of AMRUT Phase-1 for issuing AS for Projects in AMRUT Phase 2 projects. The Committee also suggested appraising the DPRs to SLTC following technical vetting by the SMMU / PDMC.

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 74 Water Supply projects (CAPEX - Rs.694.004 Cr.) were received. The projects evaluated by the office of MD KWA as feasible and partially feasible only were taken for verification (59 projects – Rs.410.51 Cr.). All the DPRs have been scrutinized by the State & City Mission Management Units of AMRUT. Only feasible projects with undisputed land and with Operation & Maintenance for 5 years are recommended for approval.

- 8 project proposals from Kochi Corporation and 3 proposals from Punalur Municipalities were returned for the inclusion of Operation & Maintenance.
- One proposal from Tripunithura Municipality has been returned for corrections.
- Regarding the non-availability of land for proposed OHSRs at Pushapagiri & Puliparamba in Taliparamba Municipality, the Secretary assured vide Letter No. 14300/22 dated 14.10.2022 that land would be finalized within a month. Hence the same is recommended for approval.

Hence, it is recommended to issue AS for 47 projects with a total project cost of Rs.389.996 Cr. (CAPEX - Rs.371.565 Cr. & OPEX – Rs.18.438 Cr.).

For a few projects, while preparing the detailed engineering reports by the Kerala Water Authority, cost overruns were warranted due to the adoption of PRICE 3 and due to the inclusion of road restoration charges. Major increase in CAPEX Costs were observed mainly in 2 project proposals from Kollam (Rs.2.51 Cr.), 4 proposals from Kochi (Rs.0.53 Cr.), one each from Koothattukulam (Rs.50 Lakh), Thalassery (Rs.1.85 Cr.) and Koothuparamba (Rs.70 Lakh) Municipalities. Apart from this minor increase in CAPEX Costs were observed for Haripad, Maradu & Piravom Municipalities.

For AMRUT 2.0 cities an amount of Rs.100 Cr. was earmarked as floating fund for Water Supply Sector. So far, out of this, Rs.10.76 Cr. was allocated for 22 ULBs while approving the 1st Tranche of SWAP. Six AMRUT 2.0 ULBs required additional fund from the approved SWAP. Out of this, Koothattukulam Municipality's total project amount of Rs.5.213 Cr., (Rs.0.50 Cr. excess of approved SWAP, Rs.4.714 Cr.) is within the allotted fund (Rs.5.503 Cr.) for the ULB and hence there no additional fund is necessary. The additional fund requirement for the balance 5 ULBs comes to Rs.2.815 Cr. and this can be met from the balance floating fund.

The matter was informed to MoHUA and they have verbally informed that the same can be considered but they will only provide the CA corresponding to the approved State SWAP amount. Hence, the excess amount incurred for AMRUT 2.0 cities can be met from the available floating fund & balance if any has to be met by the ULB. In the case of AMRUT 1.0 cities, the excess amount has to be met by the respective ULBs.

The recommended list of projects for issuing Administrative sanctions is as follows (A detailed project list is attached as **Annexure-4**).

Sl No.	ULB	Name of the Project	Project Cost			Major Components
			CAPEX (Cr.)	O&M (Cr.)	Total Cost (Cr.)	
1	Paravoor (Kollam) <i>Approved SWAP:</i> <i>CAPEX – Rs.13.093 Cr.</i> <i>O&M – Rs.0.2 Cr.</i> <i>Total – Rs.13.293 Cr.</i>	AMRUT 2.0 - Providing house connections and distribution network in Paravoor Municipality	13.0071	0.1509	13.158	<ol style="list-style-type: none"> 1. House connection works 2. Laying additional Distribution including replacement of existing AC pipes, JICA gap closing works & new line extension 3. Valve chambers & other miscellaneous works 4. LSGD Road restoration works 5. JICA Pookulam 30LL OHSR Renovation 6. PWD Road Restoration 7. 5 year O & M
2	Kayamkulam <i>Approved SWAP:</i> <i>CAPEX – Rs.19.697 Cr.</i> <i>O&M – Rs.0.19 Cr.</i> <i>Total – Rs.19.887 Cr.</i>	AMRUT 2.0 - UWSS to Kayamkulam Municipality phase 1	19.697	0.190	19.887	<ol style="list-style-type: none"> 1. Urgent civil repair works of existing 12MLD WTP at Pathiyoor 2. Construction of 12LL OHSR at PH Section office compound 3. Laying Distribution network of 10KM in and around the Municipal area 4. Laying of Conveyance main for a length of 1200mm 5. Providing 4400 nos. FHTCs in various wards of the Municipality
3	Shornur <i>Approved SWAP:</i> <i>CAPEX – Rs.11.45 Cr.</i> <i>O&M – Rs.0.7 Cr.</i> <i>Total – Rs.12.15 Cr.</i>	AMRUT 2.0 - Shornur Municipality Pipeline replacement/ extension of various size pipes and providing 2290 FHTCs phase 1	11.450	0.700	12.150	<ol style="list-style-type: none"> 1. Supply and laying of distribution network New / Replacement of old AC pipes with 160mm,140mm,110mm PVC pipes -24000m 2. Providing 2290 nos of FHTC'S to Shoranur Municipality
4	Cherpulassery <i>Approved SWAP:</i> <i>CAPEX – Rs.10.029 Cr.</i> <i>O&M – Rs.0.602 Cr.</i> <i>Total – Rs.10.631 Cr.</i>	AMRUT 2.0 - Cherpulassery Municipality - Providing distribution Mains for a length of 12625 m and interlinking with existing network, Providing 2300 FHTCs.	10.029	0.6017	10.6307	<ol style="list-style-type: none"> 1. Supplying and Laying of Distribution Network pipe size 450mm DIK9 (1445m), 350mm DIK9 (895m), 160mm PE PN8 pipe (7335m) and 160mm PE PN10 pipe (1920m), 160mm PE PN12.5 pipe (1030m) 2. Providing 2300 nos. FHTCs
5	Kollam <i>Approved SWAP:</i> <i>CAPEX – Rs.22 Cr.</i> <i>O&M – Rs.0.22 Cr.</i> <i>Total – Rs.22.22 Cr.</i>	AMRUT 2.0 - Providing 10000 FHTCs in various zones in Kollam Corporation Phase 3	22.000	0.220	22.220	<ol style="list-style-type: none"> 1. 10000 FHTCs 2. Pipeline Extensio 3. 37 Km Replacement 4. Augmentation

Sl No.	ULB	Name of the Project	Project Cost			Major Components
			CAPEX (Cr.)	O&M (Cr.)	Total Cost (Cr.)	
6	Kollam <i>Approved SWAP: CAPEX – Rs.8 Cr. O&M – Rs.0.09 Cr. Total – Rs.8.09 Cr.</i>	AMRUT 2.0 - AWSS to Kollam Corporation - Improvements to Water Supply in Chinnakkada Zone - Construction of 15.67 LL OHSR in Bishop Jerome Nagar	7.363	0.090	7.453	1. OHSR tank of 15.67 LL capacity 2. Distribution improvements by interconnecting the outlet with existing distribution system.
7	Kollam <i>Approved SWAP: CAPEX – Rs.0.5 Cr. O&M – Rs.0.09 Cr. Total – Rs.0.59 Cr.</i>	AMRUT 2.0- AWSS to Kollam Corporation -Improvements to Water supply in Vasoorchira zone - Interconnecting 20 LL OHSR with Existing Distribution Network	0.500	0.090	0.590	Distribution System
8	Kollam <i>Approved SWAP: CAPEX – Rs.0.8 Cr. O&M – Rs.0.5 Cr. Total – Rs.1.3 Cr.</i>	AMRUT 2.0- AWSS to Kollam Corporation -Improvements to Water Supply in Cantonment zone- Interconnecting Existing Distribution Line M.S Gravity Main Near Kwa Botco Pump House Areas, Nandavalleswaram Zone, Manichithode	1.7883	0.500	2.2883	Interconnection works with distribution
9	Kollam <i>Approved SWAP: CAPEX – Rs.7 Cr. O&M – Rs.0.5 Cr. Total – Rs.7.5 Cr.</i>	AMRUT 2.0 - AWSS to Kollam Corporation- Improvements of Water Supply in Thamarakkulam & Mundakkal Area- Construction Of 8 LL OHSR in Mundakkal, 1 LL Sump, Providing 2 Nos 20 Hp Pumpsets, Providing Transmission Main To Mundakkal For 1500m Using 250mm Di Pipe, Including Road Restoration Charges	8.531	0.500	9.031	1. 8 lakh litre OHSR 2. Transmission network 3. Pumb sets (20 HP)
10	Chalakydy <i>Approved SWAP: CAPEX – Rs.11.78 Cr. O&M – Rs.1.2 Cr. Total – Rs.12.98 Cr.</i>	AMRUT 2.0 - Improvement to AUWSS at Chalakydy Municipality	11.340	1.640	12.980	1. Providing 2500 nos FHTCs 2. Rrenovation of 11 MLD WTP 3. Renovation of GL tank at Thanippara 4. Electrical standardisation with hot line feeder. 5. Replacing of damaged AC/ PVC pipes.
11	Chengannur <i>Approved SWAP: CAPEX – Rs.3.2 Cr. O&M – Rs.0.8 Cr. Total – Rs.4 Cr.</i>	AMRUT 2.0 - Pipe line extension and providing Household connections in Chengannur Municipality	3.200	0.150	3.350	1. Laying of new distribution lines and interconnection works 2. Providing new household water tap connections 3. Renovation of Kunnathumala WTP
12	Anthoor <i>Approved SWAP: CAPEX – Rs.6.755 Cr. O&M – Rs.0.5 Cr. Total – Rs.7.255 Cr.</i>	AMRUT 2.0 - Anthoor Municipality-Amrut 2.0- 2022-23 - Laying distribution system and providing FHTCs	6.755	0.500	7.255	1. Extension of distribution pipelines 2. Providing 3080 Nos. new FHTCs
13	Taliparamba <i>Approved SWAP: CAPEX – Rs.6.414</i>	AMRUT 2.0 - Taliparamba Municipality- 2022-23- Construction of OHSRs at	6.414	0.500	6.914	1. Consruction of OHSRs at Pushpagiri and Pulimparamba (2Num),

Sl No.	ULB	Name of the Project	Project Cost			Major Components
			CAPEX (Cr.)	O&M (Cr.)	Total Cost (Cr.)	
	<i>Cr.</i> <i>O&M – Rs.0.5 Cr.</i> <i>Total – Rs.6.914 Cr.</i>	Pushpagiri and Pulimparamba, Laying distribution pipeline, and providing FHTCs in Taliparamba				2. Laying distribution pipeline total length of 3200 m 3. Provision to Provide 996 Nos. new FHTCs in Taliparamba
14	Chittur Thathamangalam <i>Approved SWAP:</i> <i>CAPEX – Rs.7.812 Cr.</i> <i>O&M – Rs.0.7812 Cr.</i> <i>Total – Rs.8.5932 Cr.</i>	AMRUT 2.0 - Chittur Thathamangalam Municipality - Construction of 5 LL OHSR, Supply and erection of motor pump sets, pumping main, distribution main, pipe line extensions and providing FHTCs	7.812	0.7812	8.5932	1. Clear Water Pumps 2. 5 LL OHSR at Thathamangalam 3. FHTCs -2600 nos. 4. Clear Water Distribution network and extension of existing distribution network.
15	Perumbavoor <i>Approved SWAP:</i> <i>CAPEX – Rs.8.94 Cr.</i> <i>O&M – Rs.0.7 Cr.</i> <i>Total – Rs.9.64 Cr.</i>	AMRUT2.0 - Perumbavoor Municipality - Augmentation of water supply scheme	8.815	0.830	9.645	1. Renovation of 10 MLD WTP at Kanjirakkad 2. Replacing old and damaged AC pipe lines. 3. Erecting a new boosting pumb at kanjirakkad plant. 4. Laying boosting line of length 3.7 Km from Kanjirakkad plant to Pattal area. 5. Providing FHTCS - 1500 nos.
16	Muvattupuzha <i>Approved SWAP:</i> <i>CAPEX – Rs.6.4 Cr.</i> <i>O&M – Rs.0.5 Cr.</i> <i>Total – Rs.6.9 Cr.</i>	AMRUT 2.0 - Muvattupuzha Municipality-Renovation Of Existing Watter Supply Scheme UWSS to Muvattupuzha & Providing FHTC To all Households	6.400	0.0848	6.4848	1. Replacing and laying Distribution net work for a length of 18500 m, to meet the present demand 2. Provisions for 1500 new water connections for the residents in the Municipality
17	Koothattukulam <i>Approved SWAP:</i> <i>CAPEX – Rs.4.714 Cr.</i> <i>O&M – Rs.0.5 Cr.</i> <i>Total – Rs.5.214 Cr.</i>	AMRUT 2.0 - Kuthattukulam Municipality - Renovation of Existing Water Supply Scheme UWSS to Koothatukulam	5.213	0.0854	5.2984	1. Supplying and laying distribution lines 2. Providinng functional house hold tap connections - 500, from the existing distribution lines with necessary extension and replacement with augmenting the system
18	Piravom <i>Approved SWAP:</i> <i>CAPEX – Rs.4.331 Cr.</i> <i>O&M – Rs.0.2 Cr.</i> <i>Total – Rs.4.531 Cr.</i>	AMRUT 2.0- Improvement of waterline distribution, providing FHTC and supply, and fixing of new pump set to Urban households of Piravom Municipality	4.468	0.063	4.531	1. Providing FHTCs- 2000 from the existing distribution system with essential pipeline extensions and replacement by augmenting the system 2. 20 HP submersible Motor Pumping to Kombanamala and 5HP motor pumping to 16 MLD OH tank

SI No.	ULB	Name of the Project	Project Cost			Major Components
			CAPEX (Cr.)	O&M (Cr.)	Total Cost (Cr.)	
19	Thodupuzha <i>Approved SWAP:</i> <i>CAPEX – Rs.9.64 Cr.</i> <i>O&M – Rs.1 Cr.</i> <i>Total – Rs.10.64 Cr.</i>	AMRUT 2.0 - AUGMENTATION OF UWSS TO THODUPUZHA MUNICIPALITY - Providing Drinking water Connections to 2000 Households.	9.640	1.000	10.640	<ol style="list-style-type: none"> 1. Extension of distribution lines to uncovered areas of Municipality 2. Construction of Boosting Pump House at Karoopara 3. Providing Clear Water Pump sets and Pumping Mains 4. Construction of 0.501L capacity GLSRs at Kallumary and Idikettipara 5. Providing service connection facility to 2000nos Households
20	Angamaly <i>Approved SWAP:</i> <i>CAPEX – Rs.4.761 Cr.</i> <i>O&M – Rs.0.2 Cr.</i> <i>Total – Rs.4.961 Cr.</i>	AMRUT 2.0-Providing Functional Household tap connections to Angamaly Municipality, Replacement of damaged distribution lines , providing rider lines and extensions and allied works	4.761	0.200	4.961	<ol style="list-style-type: none"> 1. FHTCs- 1000 nos. 2. Replacement of existing damaged main, distribution lines 3. Street main extension 4. Providing rider lines for 8852 m
21	Thrikkakara <i>Approved SWAP:</i> <i>CAPEX – Rs.3.05 Cr.</i> <i>O&M – Rs.0.305 Cr.</i> <i>Total – Rs.3.355 Cr.</i>	AMRUT 2.0- Construction of 10LL GL Sump , Pump House and Allied Works in cochin university compound	3.050	0.3104	3.3604	<ol style="list-style-type: none"> 1. 10 LLGL SUMP & PUMPHOUSE 2. PUMP SET- 2Nos 150 HP VT pumps 3. TRANSMISSION MAIN- 500mm DI k9 for a length of 80m to extend from existing transmission main to the proposed sump
22	Eloor <i>Approved SWAP:</i> <i>CAPEX – Rs.7 Cr.</i> <i>O&M – Rs.0.35 Cr.</i> <i>Total – Rs.7.35 Cr.</i>	AMRUT 2.0 - Eloor Municipality - Construction Of 15 LL Capacity OHSR near old Ayurvedha Hospital Manjummel, laying 300mm DI (K9) Pipes and allied Works.	6.990	0.3505	7.3405	<ol style="list-style-type: none"> 1. Supply laying of 300 mm DI K9 pipe from CSIR junction to proposed tank site at Manjummel for a length of 2300 meter 2. Construction of 15LL overhead tank at Municipal land to Manjummel and allied works 3. Supply and laying 300 mm MS pipes for crossing the Manjummel regulator bridge - 100 m
23	Maradu <i>Approved SWAP:</i> <i>CAPEX – Rs.1.58 Cr.</i> <i>O&M – Rs.0.158 Cr.</i> <i>Total – Rs.1.738 Cr.</i>	AMRUT 2.0 - WSS to Maradu Municipality -Phase 1- Providing FHTC's by augmenting or retrofitting the existing Water Supply Scheme and pipeline extension	1.638	0.100	1.738	<ol style="list-style-type: none"> 1. Pipe line extension in varoius wards 2. Proposed FHTCs – 700 nos.
24	Kalamassery <i>Approved SWAP:</i> <i>CAPEX – Rs.13.413 Cr.</i> <i>O&M – Rs.1 Cr.</i> <i>Total – Rs.14.413 Cr.</i>	AMRUT 2.0 - Kalamassery Municipality-Construction of 20LL OHSR Tank Near CUSAT Pump House And Allied Works.	13.413	1.000	14.413	<ol style="list-style-type: none"> 1. Construction of 20LL OHSR 2. Extension of distribution line 3. 1000 Nos of new FHTCs 4. A pumb cum sump house
25	Thalassery <i>Approved SWAP:</i>	AMRUT 2.0 – WSS to Thalassery	26.494	1.9871	28.4811	<ol style="list-style-type: none"> 1. FHTCs- 5250 2. Extension of pipe lines.

Sl No.	ULB	Name of the Project	Project Cost			Major Components
			CAPEX (Cr.)	O&M (Cr.)	Total Cost (Cr.)	
	<i>CAPEX – Rs.24.646 Cr. O&M – Rs.1.848 Cr. Total – Rs.26.494 Cr.</i>	Municipality – Extension / Replacement of Distribution network & providing FHTCs in Thalassery Municipality				
26	Haripad <i>Approved SWAP: CAPEX – Rs.3 Cr. O&M – Rs.0.2 Cr. Total – Rs.3.2 Cr.</i>	AMRUT 2.0 - UWSS TO HARIPAD MUNICIPALITY - Laying distribution line	3.000	0.200	3.200	Laying of distribution lines. FHTCs- 900
27	Haripad <i>Approved SWAP: CAPEX – Rs.4 Cr. O&M – Rs.0.2 Cr. Total – Rs.4.2 Cr.</i>	AMRUT 2.0 - UWSS TO HARIPAD MUNICIPALITY - Construction of 7 LL OHSR at Thrippakkudam	4.080	0.200	4.280	Construction 7LL of OHSR at Thrippakkudam
28	Haripad <i>Approved SWAP: CAPEX – Rs.1.2 Cr. O&M – Rs.0.03 Cr. Total – Rs.1.23 Cr.</i>	AMRUT 2.0 - UWSS TO HARIPAD MUNICIPALITY - Providing FHTCs in Harippad Municipality	1.230	0.007	1.237	Providing FHTCs- 900
29	Haripad <i>Approved SWAP: CAPEX – Rs.0.7 Cr. O&M – Rs.0.01 Cr. Total – Rs.0.71 Cr.</i>	AMRUT 2.0 - UWSS TO HARIPAD MUNICIPALITY - Laying transmission main to newly proposed OHSR at Thrippakkudam	0.675	0.010	0.685	Supplying and laying of 400m transmission main
30	Aluva <i>Approved SWAP: CAPEX – Rs.1.348 Cr. O&M – Rs.0.13 Cr. Total – Rs.1.361 Cr.</i>	AMRUT 2.0 - Aluva Municipality - Providing new house connections, replacing old damaged AC/GI pipes ,supplying and installing 2 Nos VT pump sets at WTP.	1.348	0.013	1.361	1. Replacement of 620m of damaged AC/GI pipes with 110mm PVC pipe 2. 200m 90mm PVC pipe for interconnections 3. 2 numbers 120 HP VT pump sets to WTP 4. 500 numbers of FHTC.
31	Koothuparamba <i>Approved SWAP: CAPEX – Rs.9.37 Cr. O&M – Rs.0.7 Cr. Total – Rs.10.07 Cr.</i>	AMRUT 2.0 - WSS TO Koothuparamba Municipality And Pattiam, Kottayam Panchayaths-Laying Distribution Network And Providing Fhtcs In Koothuparmabu Municipality	10.07	0.7553	10.8253	1. Providing FHTCs – 3020 nos. 2. Extension of pipelines
32	Palakkad Haripad <i>Approved SWAP: CAPEX – Rs.18.24 Cr. O&M – Rs.0.6 Cr. Total – Rs.18.84 Cr.</i>	AMRUT2.0- PALAKKAD MUNICIPALITY - Providing new House Connections and carrying out works in Pipelines to improve water supply levels in the connections	18.240	0.600	18.840	1. Distribution lines 2. Providing FHTCs in AMRUT – 1500 nos. 3. 2350 Nos. - Shifting of Connections
33	Kochi <i>Approved SWAP: CAPEX – Rs.1 Cr. O&M – Rs.0.005 Cr. Total – Rs.1.005 Cr.</i>	AMRUT 2.0 - PRIORITY-3- Replacing old and damaged 100 AC PiPes and laYing of 160 mm PVC pipes in Perumbotta road and providing new FHTC in the division s 33'70' 7 1' and 72 of Kochi Corporation.	1.000	0.005	1.005	1. Distribution system 2. FHTCS - 352
34	Kochi <i>Approved SWAP: CAPEX – Rs.4 Cr. O&M – Rs.0.2 Cr.</i>	AMRUT2.0 - Priority-4 Water supply improvements to Pachalam zone - providing distribution mains from the	4.000	0.200	4.200	Distribution system

Sl No.	ULB	Name of the Project	Project Cost			Major Components
			CAPEX (Cr.)	O&M (Cr.)	Total Cost (Cr.)	
	<i>Total – Rs.4.2 Cr.</i>	Pachalam OHSR - PHASE 1				
35	Kochi <i>Approved SWAP:</i> <i>CAPEX – Rs.15 Cr.</i> <i>O&M – Rs.0.75 Cr.</i> <i>Total – Rs.15.75 Cr.</i>	AMRUT 2.0- Priority 06-Water supply improvements to Pachalam zone - providing distribution mains from the Pachalam OHSR- PHASE 2	15.000	0.750	15.750	Distribution system
36	Kochi <i>Approved SWAP:</i> <i>CAPEX – Rs.19 Cr.</i> <i>O&M – Rs.0.95 Cr.</i> <i>Total – Rs.19.95 Cr.</i>	AMRUT 2.0-Priority 7-Water supply improvements to Kaloor zone- laying distribution mains from the OHSR at Kaloor	19.000	0.950	19.950	Distribution system
37	Kochi <i>Approved SWAP:</i> <i>CAPEX – Rs.7.3 Cr.</i> <i>O&M – Rs.0.365 Cr.</i> <i>Total – Rs.7.665 Cr.</i>	AMRUT- 2.0 -Priority 9-Improving water supply to Mundamveli - feeder line from Karuvelippady PH to Mundamveli church - Manassery church and replacement of old and damaged pipes	7.180	0.4912	7.6712	1. Providing feeder lines 2. Replacement of old and damaged pipes
38	Kochi <i>Approved SWAP:</i> <i>CAPEX – Rs.4.8 Cr.</i> <i>O&M – Rs.0.005 Cr.</i> <i>Total – Rs.4.805 Cr.</i>	AMRUT 2.0 -Priority 10-Replacing old damaged primo pipe, laying rider line from shipyard quarters road to K.P. Vallon road and laying distribution pipe from Thevara market bridge	4.5134	0.005	4.5184	Replacement of old and damaged pipes
39	Kochi <i>Approved SWAP:</i> <i>CAPEX – Rs.7.11 Cr.</i> <i>O&M – Rs.0.356 Cr.</i> <i>Total – Rs.7.466 Cr.</i>	AMRUT 2.0- Priority 13-Construction of 4 lakh litres GLSR at Thoppumpady-interconnecting the pumping main from Maradu plant with proposed GLSR and renovation of pump house	7.110	0.357	7.467	1. Construction of 4LL GLSR 2. Replacement for existing distribution liens 3. Renovation of pump house
40	Kochi <i>Approved SWAP:</i> <i>CAPEX – Rs.2 Cr.</i> <i>O&M – Rs.0.002 Cr.</i> <i>Total – Rs.2.002 Cr.</i>	AMRUT 2.0- Priority 15-Improving the water supply to Ashoka road - replacing the old and damaged pipes	2.000	0.002	2.002	1. Replacement for existing damaged pipelines 2. Providing FHTCs - 200
41	Kochi <i>Approved SWAP:</i> <i>CAPEX – Rs.2.5 Cr.</i> <i>O&M – Rs.0.005 Cr.</i> <i>Total – Rs.2.505 Cr.</i>	AMRUT 2.0- Priority 17- Replacement of old AC pipe from Kathrikadavu over bridge (Kumaranassan junction) to Karshaka road	2.500	0.005	2.505	Supplying and laying of distribution lines from existing lines
42	Kochi <i>Approved SWAP:</i> <i>CAPEX – Rs.4.1 Cr.</i> <i>O&M – Rs.0.203 Cr.</i> <i>Total – Rs.4.303 Cr.</i>	AMRUT 2.0- Priority 18-Improving water supply at Perumpadappu and Edakochi area- providing feeder lines	4.076	0.227	4.303	Providing feeder lines
43	Kochi <i>Approved SWAP:</i> <i>CAPEX – Rs.0.92 Cr.</i> <i>O&M – Rs.0.005 Cr.</i> <i>Total – Rs.0.925 Cr.</i>	AMRUT 2.0- Priority 19- Replacement of old and damaged pipes at Vathuruthy colony in division 30	0.920	0.005	0.925	Laying of distribution lines
44	Kochi <i>Approved SWAP:</i> <i>CAPEX – Rs.5.25 Cr.</i> <i>O&M – Rs.0.53 Cr.</i>	AMRUT 2.0- Priority 20-Improvement of WS to divisions no. 13 to 20 - replacement of old pipes and	5.6978	0.0822	5.780	1. Replacement of AC pipes 2. Supply amd commissionins of 90HP DumD and motor 3. Renovation of PH

Sl No.	ULB	Name of the Project	Project Cost			Major Components
			CAPEX (Cr.)	O&M (Cr.)	Total Cost (Cr.)	
	<i>Total – Rs.5.78 Cr.</i>	improvements in pumping system, renovation of pump house etc				4. Supplying and fitting 500 KVA transformer and allied works
45	Kochi <i>Approved SWAP: CAPEX – Rs.14.5 Cr. O&M – Rs.1.125 Cr. Total – Rs.15.625 Cr.</i>	AMRUT 2.0- Priority-22- Providing FHTC to the existing completed schemes in Kochi Corporation division no 1 to 28 (new)	11.078	0.472	11.550	1. Providing FHTCs- 7000 2. Street main extension
46	Kochi <i>Approved SWAP: CAPEX – Rs.17 Cr. O&M – Rs.0.005 Cr. Total – Rs.17.005 Cr.</i>	AMRUT 2.0 - Priority-24- Construction of GLSR - 15LL & OHSR- 15 LL capacity, Supply and Erection of 120HP (2Nos) & 75Hp (2Nos) pump sets and interconnection works at Perumanoor pump house and replacement of old and damaged pipes in various roads in Division 39 (Old) of Kochi Corporation	17.000	0.005	17.005	1. Demolishing of existing sump and connected works 2. Construction of new GL tank and pump house 3. Construction of OH tank and other works 4. Erection of pump sets and other electrical works 5. Replacing old damaged pipeline in Manikkiri road and Bye lane of Ravipuram road
47	Kochi <i>Approved SWAP: CAPEX – Rs.11 Cr. O&M – Rs.0.55 Cr. Total – Rs.11.55 Cr.</i>	AMRUT 2.0- Priority 24 A- Improving water supply to Fort Kochi area - Supplying, laying, testing and commissioning of 600mm DI K9 pumping main for a length of 3300m from Beach road Jn. to Fort Kochi OHSR	11.078	0.472	11.550	Providing pumping main.

Decision to be Taken:

The SLTC may recommend the 47 DPRs amounting to Rs.389.996 Cr. (CAPEX - Rs.371.565 Cr. & OPEX – Rs.18.438 Cr.) to the SHPSC for according Administrative Sanctions subject to the condition that for AMRUT 1.0 cities, the excess amount from the approved SWAP shall be met by the respective ULBs and for AMRUT 2.0 cities, from the available floating incentive.


Mission Director
AMRUT