

## **Minutes of the 2<sup>nd</sup> State Level Technical Committee (SLTC) of AMRUT 2.0 held on 25<sup>th</sup> April 2022 at 04:00 PM through Video Conferencing by Additional Chief Secretary, Local Self Government Department**

The meeting of the 2<sup>nd</sup> State Level Technical Committee of AMRUT 2.0, chaired by Smt. Sarada Muraleedharan IAS, Additional Chief Secretary, Local Self Government Department commenced at 04.30 PM (List of participants attached as Annexure 1).

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

### **Agenda Item No.1: Finalization of Funding Pattern for AMRUT 2.0- Water Supply and Rejuvenation of Water Bodies &Green Spaces:**

The 1<sup>st</sup> Meeting of SLTC reviewed the options in finalizing fund pattern for Water Supply, Sewerage/Septage and Rejuvenation of Water bodies &Green spaces put forwarded by the Mission Director, SMMU with respect to need based gap and weightage for population & area. After detailed deliberations, following decisions were taken.

- 1) Detailed ULB wise data analysis of gap in household connection (%), shortage in quantity of drinking water supplied/available (%) & gap in treated water facility (%) is to be undertaken to determine comparative weightage to be given for Water Supply Sector by CWRDM.
- 2) A subcommittee consisting of the following members was constituted to discuss and finalize the methodology for service level gaps and funding pattern for Water Supply within a week's time, based on the data analysis by CWRDM.
  - 1) Sri. Johnson K, Chief Engineer, LSGD
  - 2) Sri. Charles AL, Deputy Mission Director, SMMU, AMRUT (Convener)
  - 3) Sri. Praveen KS, Director, Suchitwa Mission.
  - 4) Sri. Vivek B, Scientist, CWRDM
  - 5) Sri. Rahul, AE to MD, Kerala Water Authority
- 3) Sewerage/Septage- Option-1 suggested for Sewerage/ Septage sector along with floating incentive fund is approved as the fund distribution pattern.
- 4) Rejuvenation of Water Bodies- Committee decided that water deficit areas should be identified and prioritized for taking up projects under this sector. The subcommittee proposed for Water Supply to prioritize the projects under this sector.

Subcommittee meetings were held on 11.04.2022, 18.04.2022 &19.04.2022 and finalized the fund pattern for Water Supply and Rejuvenation of Water Bodies as follows.

#### **Item 1: Water Supply based on Need-based Gaps at Service Level**

AMRUT Mission had presented three gaps in Water Supply Sector namely; Gap in Connection, Quantity of Shortage of Water and Shortage in Quality of Water and each were given weightage of 50%, 25% and 25% respectively. It was suggested for considering option 1 with 75% weightage for gap and 25% weightage for population as this would provide adequate weightage for the need as well as the population to be benefited.

#### Action Taken by / Observations of - CWRDM:

The three service level gap data provided by KWA/AMRUT were assessed and it was found that all the three variables are independent. Principal Component Analysis (PCA) was performed to assess the importance of each variable. Analysis was performed separately for AMRUT 1 cities and AMRUT 2 cities. The PCA showed that all the three parameters are equally significant. So, it was suggested for 33.33%, i.e. giving equal importance for all the three parameters. The quantity of available water resources will be the key item. So, it was asked to provide a higher percentage for the quantity and other two be equally.

Box plot was made for 83 municipalities to see the out layers in the values. Few cities showed out layers and that has to be taken up individually to check whether the values are really required or not.

#### Recommendation of the Sub Committee:

*Subcommittee had recommended for 40:30:30 (Gap in Quantity: Quality: Connection). For the water supply future forecasting 20% loss also included for both quantity and quality. The domestic water demand was calculated for 150 LPCD.*

### **Item 2: Water Body Rejuvenation & Green Spaces Sector**

#### Action Taken by / Observations of - CWRDM:

The data available is very limited at this stage to evaluate. The water scarcity could be the decisive factor for selecting the ULB's. With less data available with AMRUT, prioritization could not be performed. If there is any available topographic, drought indexes or aquifer recharge plans in the ULB's it would be very helpful in deciding.

#### Recommendation of the Sub Committee:

*Since there will be minimum one water body in each ULB, it can be distributed to each city individually. The prospective water bodies can be identified later. The ULB's can take the help of CWRDM for finalizing the water body.*

*Subcommittee had recommended to give 3 Crore equally shared with 6 municipal corporations from the Central assistance of Rs. 68.6 Cr. and the remaining municipalities can be given based on the quantity of water sources being used for supply. The committee recommends giving maximum limit of 1 Cr. to all municipalities. The remaining fund will be kept in common pool and can be allocated based on the DPR submitted by the municipality.*

#### Action Taken based on the Subcommittee Recommendations by SMMU, AMRUT:

The budget was re-allotted based on the recommendations of the Subcommittee.

#### **The Sector-wise tentative distribution of Central Fund Allocation:**

Description	Tentative Central Allocation(Cr)	Total Project Cost (Cr)
Water Supply Projects	736.10	1731.05
Sewerage & Septage Management Projects (for AMRUT Cities)	567.30	1638.32
Rejuvenation of Water Bodies and Developing Green Spaces and Parks projects	68.60	143.20
<b>Total</b>	<b>1372</b>	<b>3512.57</b>

**Water Supply Sector:**

According to the tentative distribution of central fund allocation, the Central Assistance earmarked for the Water Supply Projects component is Rs.736.10 Cr.

**Option Suggested by the Subcommittee:**

Service level gaps in Water Supply are worked out by providing weightage as follows:

Service Level Gaps		Weightage
Quantity		40%
Connection		30%
Quality		30%

**AMRUT 2.0 - WATER SUPPLY - TENTATIVE FUND ALLOCATION PATTERN**

Need based Gap (Quantity: Connection: Quality - 40:30:30)				
Sl. No.	ULB	CA (Cr.)	State Share (Cr.)	Total (Cr.)
1	Thiruvananthapuram	33.56	67.12	100.68
2	Kozhikode	57.31	114.62	171.94
3	Kochi	38.70	77.41	116.11
4	Kollam	40.89	81.78	122.67
5	Kannur	23.22	46.44	69.67
6	Thrissur	28.33	56.66	84.99
7	Alappuzha	14.70	29.40	44.10
8	Palakkad	6.08	12.16	18.24
9	Guruvayoor	11.87	11.87	23.73
<b>NON-AMRUT CITIES: TOTAL</b>		<b>481.43</b>	<b>497.49</b>	<b>978.93</b>
<b>GRAND TOTAL</b>		<b>736.10</b>	<b>994.95</b>	<b>1731.05</b>

**Water Body Rejuvenation & Park Sector:**

According to the tentative distribution of central fund allocation, the Central Assistance earmarked for the Water supply project component is Rs.68.60 Cr.

Rs.3 Cr. may be equally shared with the 6 Corporations from the Central assistance of Rs.68.6 Cr. For the remaining 87 Municipalities, the CA may be distributed based on the quantity of water sources being used for supply. The amount thus worked out may be limited to Rs.1 Cr. and the balance amount may be kept as floating incentive. The floating incentive may be allocated based on the DPR submitted by the Municipalities.

**WATER BODY REJUVENATION & PARK SECTOR - TENTATIVE FUND ALLOCATION PATTERNS: Option -1 (Population: Area-50:50)**

Sl.No.	ULB	CA (Cr.)	State & ULB Share (Cr.)	Total (Cr.)
1	6 Municipal Corporations	3.00	6.00	9.00
2	87 Municipalities	51.80	54.80	106.60
3	Floating Incentive fund for Municipalities	13.80	13.80	27.60
	<b>Grand Total</b>	<b>68.60</b>	<b>74.60</b>	<b>143.20</b>

## **Deliberations:**

CWRDM official presented the analysis done on the available Water Supply & Water Body Rejuvenation & Green Spaces data. After detailed deliberation the Committee observed that the fund allocation for Non-AMRUT cities in Water Supply Sector varies from Rs.1.34 Cr. to Rs.48.17 Cr. which is less compared to AMRUT cities. Hence it would be better to enhance the fund allocation of Non-AMRUT cities.

## **Decision Taken:**

### **Water Supply Sector:**

The SLTC took note of the suggestions of the Subcommittee regarding the fund allocation for Water Supply and decided to recommend as follows to the SHPSC:

- a) The funding pattern for Water Supply Sector may be worked out for all ULBs by providing weightages of 40%, 30% & 30% for service level gaps in quantity of water supplied, water supply connections & quality of water supplied respectively.
- b) The amount thus worked out for AMRUT cities may be limited to Rs.120 Cr. and the balance amount may be allocated to Non-AMRUT cities based on their service level gaps in Water Supply Sector.
- c) The KWA may prepare Water Supply projects under AMRUT-2.0 for ULBs after conducting discussions with the respective Chairpersons, Councilors & ULB officials. KWA may finalize the projects based on their inputs and according to the fund allocated.

### **Water Body Rejuvenation & Green Spaces:**

The SLTC took note of the suggestions of the Subcommittee regarding the fund allocation for Water Body Rejuvenation & Green Spaces and decided to recommend as follows to the SHPSC:

- a) Rs.3 Cr. may be equally shared with the 6 Corporations from the Central Assistance of Rs.68.6 Cr.
- b) For the remaining 87 Municipalities, the balance Central Assistance (Rs.65.6 Cr.) may be distributed based on the quantity of water sources being used for supply.
- c) The amount worked out for 87 Municipalities may be limited to Rs.1 Cr. and the balance amount may be kept as floating incentive.
- d) The floating incentive may be allocated based on the DPR submitted by the Municipalities.

## **General Decision:**

The SLTC decided to recommend as follows to the SHPSC:

- a) The unused fund in any sector within 2 years of approval of Administrative Sanction of any ULB will be reallocated to other ULBs that require financial support.
- b) CWRDM to point out the out-layer values to SMMU, AMRUT to have a check on the data available and correction if required.



**Additional Chief Secretary**  
Sarada Muraleedharan IAS  
**LSG**  
Additional Chief Secretary  
Local Self Government Department  
Government Secretariat  
Thiruvananthapuram.



**Mission Director**  
**AMRUT**

## **2<sup>nd</sup> SLTC of AMRUT 2.0**

### ***List of Participants***

1. Sri. Arun.K.Vijayan, Mission Director, AMRUT
2. Sri. G. Sreekumar, Technical Member, Kerala Water Authority
3. Sri. Anil Kumar.M, Joint Secretary, Finance Department
4. Sri. Prasanth.H, Chief Town Planner (Planning)
5. Sri. Koshy John, Chief Electrical Engineer, PWD
6. Sri. Praveen.K.S., Director (LWM), Suchitwa Mission
7. Dr. Manoj.P.Samuel, Executive Director, CWRDM, Kozhikode
8. Smt. Sreekala.S, Chief Environmental Engineer, Kerala State PCB
9. Smt. Madhumathi, Chief Engineer (Administration), PWD
10. Smt. Sreedevi.P., Deputy Chief Engineer, Irrigation Department
11. Smt. Asha Ajoy Ghosh, Town Planer, O/o. the Chief Town Planner
12. Sri. Vivek.B, Scientist, CWRDM
13. Sri. Jaichand.J, Scientific Officer, State PH Lab, TVPM

