Azadi Ka Amrit Mahotsav

Ministry of Housing and Urban Affairs
Government of India

Atal Mission for Rejuvenation and Urban Transformation 2.0

Atal Mission for Rejuvenation and Urban Transformation 2.0

AMRUT 2.0

Making Cities Water Secure

Operational Guidelines

October 2021

हरदीप एस पुरी
HARDEEP S PURI

सत्यमेव जयते

आवासन और शहरी कार्य मंत्री
पेट्रोलियम एवं प्राकृतिक गैस मंत्री
भारत सरकार
Minister of
Housing and Urban Affairs; and
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Government of India

आज़ादी का अमृत महोत्सव

Message

Atal Mission for Rejuvenation and Urban Transformation (AMRUT) launched in 500 selected cities across the country in June 2015 by the Hon'ble Prime Minister has been successful in enhancing liveability in AMRUT cities. AMRUT made states equal partners in planning and implementation of projects, thus actualizing the spirit of cooperative federalism.

AMRUT 2.0 launched by Hon'ble Prime Minister on 1 October 2021, with a total outlay of ₹2,99,000 crores – nearly 3 times of the AMRUT - is the outcome of confidence gained during implementation of AMRUT scheme and our resolve to extend the basic services to every household. The Mission envisages providing water tap connections to households in all statutory towns through 2.68 crore new household tap connections and providing universal household coverage of sewerage/septage services in 500 AMRUT cities through 2.64 crore new sewer connections/coverage with septage management. Rejuvenation of water bodies and green spaces and parks are other components of the Mission. Outcome based funding is a major feature of AMRUT 2.0.

In this context, I am happy to see the operational guidelines for AMRUT 2.0 issued by the AMRUT Mission Directorate. I am hopeful that AMRUT 2.0 will go a long way in improving the quality of life for all urban dwellers, especially the poor and the disadvantaged and make our cities water secure.

(Hardeep S Puri)

New Delhi
26 October, 2021

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भारत सरकार
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संदेश

घरों के लिए बुनियादी सेवाएं (जैसे जल आपूर्ति, सीवरेज) प्रदान करना और शहरों में सुविधाएं उपलब्ध कराना, जो सभी के जीवन की गुणवत्ता में सुधार करें, राष्ट्रीय प्राथमिकता रही है। इसी उद्देश्य से अमृत योजना को 500 शहरों में 25 जून 2015 को प्रारम्भ किया गया था। मिशन के सफलता को देखते हुए तथा इसे सभी वैधानिक शहरों में क्रियान्वित करने के उद्देश्य से माननीय प्रधानमंत्री जी ने अमृत 2.0 मिशन का शुभारम्भ 1अक्टूबर 2021 को किया है।

अमृत 2.0 सभी वैधानिक शहरों में सभी को नल कनेक्शन प्रदान करने का लक्ष्य रखता है। साथ ही, इसमें सभी 500 अमृत शहरों में सीवरेज/सेप्टेज सेवाओं का सार्वभौमिक घरेलू कनेक्शन प्रदान करने का प्रस्ताव है। जल निकायों का नवीकरण, हरित स्थान और पार्क इस मिशन के अन्य घटक हैं। परिणाम आधारित वित्तपोषण इसकी प्रमुख विशेषता है।

इन सब को ध्यान में रखते हुए आज मै गर्व से कहना चाहता हूँ कि अमृत 2.0 मिशन की परिचालन दिशानिर्देश, जोकि अमृत मिशन निदेशालय द्वारा जारी किया गया है, सभी वैधानिक शहरों को जल सुरक्षित बनाएगा और आत्मनिर्भर भारत के स्वप्न को साकार करने में मदद करेगा।

जय हिन्द।

01/01/2021

(कौशल किशोर)

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Foreword

Hon'ble Prime Minister launched AMRUT 2.0 on 1 October, 2021. It aims to develop water secure cities in the spirit of **AatmaNirbhar Bharat.** It targets to provide reliable **2.68 crore** new water tap connections to all in about **4,800 statutory towns.** Also, it proposes to get universal household coverage of sewerage/ septage services in **500 AMRUT cities through 2.64 crore** new sewer connections. Rejuvenation of water bodies, green spaces and parks are other components of this Mission. Outcome based funding is its major feature. Total indicative outlay for AMRUT 2.0 is **₹ 2,99,000 crore** which includes allocation for projects of ongoing AMRUT Mission to the tune of **₹ 22,000 crore** for **two years** from FY 2021-22 to FY 2022-23 and the rest is for five years. Total indicative central share is **₹86,760 crore** including **₹10,000 crore** for AMRUT projects.

I am pleased to share AMRUT 2.0 guidelines with the stakeholders. Guidelines gives way forward for implementing the Mission. To begin with, cities are expected to prepare and submit City Water Balance Plans (CWBPs) online on a robust Mission Portal of MoHUA. CWBPs will give the status of water sources, quantum of water available, water demand and supply in the city culminating in gaps in services. These gaps will lead to formulating projects with target of filling these gaps. Mission mandates implementation of 10% worth of funds allocated to million plus cities under PPP mode. Projects on 24x7 water supply in 500 AMRUT cities are encouraged. Mission management will be paperless on an online platform.

All projects proposed by State will aggregate to State Water Action Plan (SWAP) which will be submitted in three tranches for approval of Apex Committee. Mission will provide central assistance for implementing projects in three instalments. Third instalment will be released only on the basis of achieved outcomes. Notification of Property Tax and User charges by States are mandatory reforms to be implemented in first two years for continuity of central funding. Aquifer Management Plans of cities are to be submitted by States. Mission will provide funds separately for outcomes achieved through sources not funded through AMRUT and AMRUT 2.0. Central funding will be admissible for Administrative and Other Expenses (A&OE) to the States.

Pey Jal Survekshan, Information Education & Communication (IEC) and Technology sub-Mission are key components of Mission. Start-ups in water sector will also be encouraged through sub-Mission. Reform agenda of Mission has reforms on municipal governance and water security of cities. Major reforms are reducing non-revenue water to below 20%; recycle of treated used water to meet at least 20% of total city water demand and 40% for industrial water demand at State level; 24x7 water supply with 'Drink from tap' facility; GIS based master plans of the cities & efficient town planning; raising funds through issuance of municipal bonds and rejuvenation of water bodies. Successful implementation of reforms will be incentivized.

I hope these guidelines will be used extensively by the States/UTs and ULBs to implement the Mission in the field. I look forward to whole heartedly participation to achieve the Mission outcomes in a time bound manner.

Durga Shanker Mishra

New Delhi
25TH October, 2021

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Preface

The AMRUT 2.0 guidelines have been formulated with the aim of assisting States/ UTs for making our cities **Aatma Nirbhar** and '**water secure**'. Several stakeholder consultations across 36 States/ UTs have been conducted as well as inputs from the key players such as development banks, private sector players, water sector consultants as well as NGOs have been taken into consideration.

MoHUA in partnership with States aims to achieve functional tap connections to all households, undertaking water source conservation/ augmentation, rejuvenation of water bodies and wells, recycle/re-use of treated used water and rainwater harvesting. Mission will extend the ease of living by upscaling universal coverage in water supply from 500 cities to about 4,800 statutory towns and universal coverage of sewerage and septage management to 500 AMRUT cities.

City Water Balance Plan will help cities to identify scope for projects focusing on the objectives of Mission stated above. Based on the projects identified in City Water Balance Plans, City Water Action Plan (CWAP) will be devised. These CWAPs will be aggregated in the form of State Water Action Plans (SWAP).

Another significant shift in the running the national Mission will be to attain data equity - AMRUT 2.0 will be a paperless mission with complete digital monitoring of projects progress and its funding. Funding to States will be predominately outcome based.

Mission has a reform agenda with focus on strengthening of urban local bodies and water security of the cities. Major reforms are reducing non-revenue water to below 20%; create a 'new tap of water' through recycle of treated used water to meet at least 20% of total city water demand and 40% for industrial water demand at State level; electric vehicle charging points; 24x7 water supply; reforms on property tax and user charges; GIS based master plans of the cities; raising funds through issuance of municipal bonds and rejuvenation of water bodies.

Further, to encourage start-ups involved in water sector, Technology Sub-Mission will be launched. Under the gig economy model, Mission will co-opt women and youth for concurrent feedbacks about its progress. Women SHGs will be involved in water demand management, water quality testing and water infrastructure operations. Pey Jal Survekshan will instill healthy competition among cities and act as a monitoring tool and Mission accelerator. Capacity building programs will be extended to various stakeholders.

We welcome this grand Mission launched by the Hon. PM and we wish to contribute to his vision of making this Mission a Jan Aandolan (people's movement).

Jai Hind.

Sd/-
(**D. Thara**)

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Abbreviations:

A&OE	Administrative and Other Expenses
AC	Apex Committee
ACA	Admissible Central Assistance
ADB	Asian Development Bank
AFD	Agence Française de Dévelopement
AMRUT	Atal Mission for Rejuvenation and Urban Transformation
AMRUT 2.0	Atal Mission for Rejuvenation and Urban Transformation 2.0
BCC	Behavioural Change Communication
C&AG	Comptroller and Auditor General of India
CA	Central Assistance
CGWB	Central Ground Water Board
CMMUs	City Mission Management Units
CPHEEO	Central Public Health and Environmental Engineering Organisation
Cr	Crore
CWAP	City Water Action Plan
CWBP	City Water Balance Plans
DLAMC	District Level Advisory and Monitoring Committee
DM	District Magistrate
DMA	District Metered Area
DPIIT	Department for Promotion of Industry and Internal Trade
DPR	Detailed Project Report
FA	Financial Advisor
FC	Finance Commission
FSSM	Faecal Sludge and Septage Management
FSSTP	Faecal sludge and Sewage treatment plant
FY	Financial Year
GIS	Geographical Information System
GoI	Government of India

HAM	Hybrid Annuity Model
HH	Household
I&D	Interception and Diversion
IEC	Information, Education and Communication
IRMA	Independent Review and Monitoring Agency
LAP	Local Area Planning
MD	Managing Director
MLD	Million Liter per Day
MoHUA	Ministry of Housing and Urban Affairs
MoU	Memorandum of Understanding
NEHU	North Eastern Hill University
NGO	Non-Governmental Organization
NIUA	National Institute of Urban Affairs
NRSC	National Remote Sensing Centre
NRW	Non revenue water
NUDM	National Urban Digital Mission
NULM	National Urban Livelihood Mission
O&M	Operation and Maintenance
PDMC	Project Development and Management Consultant
PFMS	Public Financial Management System
PHE	Public Health Engineering
PIU	Project Implementation Units
PMIS	Programme Management Information System
PMU	Project Management Unit
PPP	Public Private Partnership
RWH	Rain Water Harvesting
SBM	Swachh Bharat Mission
SCADA	Supervisory Control and Data Acquisition System
SCM	Smart City Mission
SDG	Sustainable Development Goal

SHG	Self- Help Groups
SHPSC	State High Powered Steering Committee
SLB	Service Level Benchmarks
SLTC	State Level Technical Committee
SMMU	State Mission Management Unit
SNA	Single Nodal Agency
SOI	Survey of India
SOP	Standard Operating Procedure
STP	Sewage Treatment Plant
SWAP	State Water Action Plan
TCPO	Town and Country Planning Organisation
TPS	Town Planning Scheme
UAV	Unmanned Aerial Vehicle
UC	Utilization Certificate
UD	Urban Development
ULB	Urban Local Body
UT	Union Territory
VG	Viability Gap

1 Introduction

1.1 Hon'ble Prime Minister, during his address to the nation on 15 August 2019 stated, "… nearly half of the households do not have water…women have to travel two to three km to fetch water…we need to work in the field of water conservation, irrigation, rainwater conservation, rejuvenation of water bodies, desalination of sea water and treatment of wastewater...". To holistically address these issues, he announced the launch of Jal Jeevan Mission.

1.2 Earlier, to facilitate ease of living to citizens, Atal Mission for Rejuvenation and Urban Transformation (AMRUT), was launched in 500 cities on 25 June 2015, as a first focused national water Mission.

1.3 AMRUT aimed to provide universal coverage of water supply by providing 1.39 crore household tap connections. Likewise, coverage of sewer/ septage connections were proposed to increase from 31% to 62% by providing 1.45 crore connections. So far, 1.12 crore tap connections and 87 lakh sewer connections have been provided. Sewage treatment plants of capacity 1,800 MLD have been created; out of this 907 MLD is being reused. This Mission has decreased disease load and improved quality of life of all, especially women in terms of time and energy saved to be put to constructive use.

1.4 Sustainable Development Goal 6.4 aims to substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity, by 2030. In order to meet (SDG 6), and to extend ease of living in water sector from 500 to all statutory towns, Atal Mission for Rejuvenation and Urban Transformation 2.0 (AMRUT 2.0) has been launched. This will also ensure 100% coverage of sewerage/ septage management in 500 AMRUT cities.

2 Atal Mission for Rejuvenation and Urban Transformation 2.0 (AMRUT 2.0)

2.1 AMRUT 2.0 is a step towards **AatmaNirbhar Bharat** with aim of **making the cities 'water secure'** and providing functional water tap connections to all households. This will be achieved through circular economy of water by effecting water source conservation, rejuvenation of water bodies and wells, recycle/ reuse of treated used water, and rainwater harvesting by involving **community at large.** This Mission will be run as people's program i.e. **Jan Aandolan**. Mission also targets to provide 100% sewage/ septage management in 500 AMRUT cities.

2.1.1 Mission will focus on empowering States/ UTs and cities for efficient implementation of projects in the spirit of cooperative and competitive federalism by providing flexibility to the States/ UTs to formulate, plan and implement the projects. CA released can be utilized for projects in any of the ULBs as per physical/ financial progress of the projects.

2.2 **Ensuring community participation:**

Mission will co-opt women and youth for concurrent feedbacks about its progress. Women SHGs will be involved in water demand management, water quality testing and water infrastructure operations. A concerted effort will be made to train women to test water quality in all the cities. This training program will be spearheaded by PHEDs or water and sewerage boards under the overall guidance of urban development department at the State level.

2.3 Mission has a reform agenda focused towards financial sustainability and water security of ULBs. Meeting 20% of water demand through recycled water, reducing non-revenue water to less than 20% and rejuvenation of water bodies are major water related reforms. Reforms on property tax, user charges, and enhancing credit worthiness of ULBs and urban planning are other important reforms.

2.4 Mission will encourage smart elements to be incorporated in every project. Mission will have a sub-Scheme on well rejuvenation.

2.5 Capacity building programs will be conducted for all stakeholders including contractors, plumbers, plant operators, students, women and citizens. Technical institutions will be roped in for assessment of Mission outcomes. Students will be engaged for survey of projects and outputs through **gig economy model**.

2.6 Technology Sub-Mission will help in identifying the proven and potential global technologies in water sector. Entrepreneurships / start -ups involved in low-cost indigenous equipment and processes will be encouraged.

2.7 **Mission will be paperless and monitored on a robust technology-based monitoring & evaluation platform.**

3 Components of AMRUT 2.0

3.1 Projects

ULBs will submit detailed City Water Balance Plans (CWBPs) and City Water Action Plans (CWAPs) through online portal covering proposed projects in the thrust areas. The projects will be prioritized based on following outcomes with the focus on improving sustainability and efficiency in water sector:

i. Universal coverage of water supply;
ii. Sewerage, septage management and recycle/ reuse of treated used water; and
iii. Rejuvenation of water bodies (including urban wetland) and creation of green spaces.

Detailed information on project formulation and funding is in **Article 4, 6 and 7**.

3.2 Administrative & Other Expenses (A&OE)

A&OE will be fully funded by the Centre and shall be utilized to cover the cost of preparing CWBPs, Program Management Units (PMUs), Detailed Project Reports (DPRs), Project Implementation Units (PIUs), Project Development and Management Consultants (PDMCs), development of Aquifer Management Plans and Independent Review and Monitoring Agencies (IRMAs). It will also be used for capacity building. Detailed information on A&OE funds is in **Article 7.4**

3.3 Reforms

Mission has a reform agenda on ease of living of citizens through reduction of non-revenue water, recycle of treated used water, rejuvenation of water bodies, augmenting double entry accounting system, urban planning, strengthening urban finance etc. Successful implementation of reforms will be incentivised. Reforms are described in **Article 7.5 and Article 8.**

3.4 **Technology Sub-Mission**

Technology Sub-Mission will encourage start-up ideas and private entrepreneurship, and commissioning them into the pilot projects after screening of expert committee. Sub-Mission will also encourage innovative light house projects which will be partly funded. This component is detailed further in **Article 10**.

3.5 **Information, Education and Communication**

Information Education and Communication (IEC) including **Behavior Change Communication** under AMRUT 2.0 is envisaged as a key strategy for spreading awareness on conservation of water and enhancing water use efficiency among the masses. This component is detailed further in **Article 14**.

3.6 **Pey Jal Survekshan**

Pey Jal Survekshan is proposed in cities as a challenge process to assess the compliance of service level benchmarks with respect to quality, quantity, and coverage of water supply, sewerage & septage management, extent of reuse & recycle of used water, and conservation of water bodies in the city. Pey Jal Survekshan will instill healthy competition among cities and act as a monitoring tool and Mission accelerator. This component is detailed further in **Article 9**.

3.7 **Community Participation with focus on woman self help groups** to be co-opted in management of water infrastructure and quality assensement. This will be facilitated through National Urban Livelihood Mission (NULM) management unit.

3.8 **Outcome based funding is the most important defining feature of this Mission.** The cities will submit roadmap for outcomes to be achieved by them during the mission period.

3.9 **Evidence based evaluation of outcomes using online monitoring platform** combined with citizen feedback through gig economy will enable **community partnership**.

3.10 **Public Private Partnership (PPP) projects are mandatory in million plus cities** and at least a minimum of **10% of total fund allocation** at the city level shall be committed to PPP projects.

4 Projects

4.1 Mission will focus on achieving functional outcomes through project implementation under Amrut 2.0 as one of the means. While formulating the projects, it should be ensured that households of **informal settlements and low-income groups** are duly considered. These admissible projects/ need to be prioritized as per functional outcomes envisaged in the table below:

Sl. No.	Functional outcomes	Admissible elements of Projects
1	Providing universal piped water supply with household water tap connection	• Water source improvement and augmentation in the city • Fresh Water treatment • Water distribution system in uncovered areas • Augmentation of existing water distribution system • Sustainability of quality and quantity of water supply • Reuse of treated used water • Provision for 24x7 water supply# • Smart solutions like SCADA • Last mile connectivity to households (Not exceeding ₹ 3,000 per HH)
2	Providing universal coverage of sewerage and septage management in 500 AMRUT cities and promoting circular economy of water	• Sewerage network • Interception and Diversion (I&D) infrastructure • Sewage Treatment Plants (STPs) • Tertiary Treatment with end-to-end reuse plan (preferably in PPP mode) • Faecal sludge and Septage management (FSTP cum STP Plant & collection mechanism) • Provision/ augmentation and rehabilitation of sewerage systems with end-to-end treatment and reuse • Tapping of used water for recycling • Identifying the bulk users of recycled used water and facilitating sale of used water to potential users (e.g. industrial clusters such as textile/ leather/ paper/ power plants/ railways, etc.) • Smart solutions like SCADA • Last mile connectivity to households (Not exceeding ₹ 3000 per HH)
3	Rejuvenation of water bodies to	• Rejuvenation of wetlands, water bodies by desilting, strengthening the embankments, and stone packing.

	augment water and enhance amenity value and development of green spaces	• Diverting the polluting drains to treatment plants • Harvesting the rain water through storm water drains into water body (which is not receiving sewage/ effluent) • Strengthening/ rejuvenation of the aquifers/ community wells • Creation/ strengthening of storm water drains around water body • Provision of STP to treat inflow into water body. • Development of the community green spaces linked to a clean water body • Funds for the projects of this sector shall not exceed 5% of total project allocation (4% for rejuvenation of water bodies and 1% for development of green spaces & parks).
	Outcome based funding	• Functional outcomes in terms of functional water tap and sewer connections to households beyond baseline and not covered by AMRUT, implemented on or after 1 Nov 2021, shall be considered for funding. (Note 3)

In AMRUT cities, **projects on 24x7 water supply** with drink from tap facility may be taken up. These projects should cover at least one ward or DMA with at least 2,000 households in the contiguous manner. Projects costing up to 20% of the 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 incentive.**

Note 1: All admissible projects should have at least five-year O&M for infrastructure, which may be duly incorporated through the tender process.

Note 2: All water supply and sewerage projects will have smart elements.

Note 3: Outcome based funding is to be considered for the outcomes achieved with respect to sewer and water connections after the launch of AMRUT 2.0 by projects taken up by States/ UTs and achievement beyond baseline established for the city as on 1 November 2021.

4.2 Tentative distribution of central fund allocation among project components of Mission is as under:

#	Description	Central Share (₹ Cr)
1	Water supply projects	35,250
2	Rejuvenation of water bodies and developing green spaces & parks projects	3,900
3	Sewerage and septage management projects	27,600
	Total	**66,750**

*The above table provides a broad picture of fund allocation. At city level, if universal water supply is achieved, then other components which are admissible can be taken up to achieve Mission objectives. The State Mission directorate shall ensure that universal water supply and sewage/ septage treatment is achieved in all cities as the first priority in that order.

5 Fund allocation

5.1 The total indicative outlay for AMRUT 2.0 is ₹ 2,77,000 crore including central share of ₹ 76,760 crore for five years from FY 2021-22 to FY 2025-26.

5.2 The central budgetary allocation for various Mission components will be as under:

S.no	Mission component	Central Allocation (₹ Cr)
1	Projects	66,750
2	Incentive for Reforms (8% of project CA allocation)	5,340
3	Administrative & Other Expenses (A&OE) for States/ UTs (3.25% of project CA allocation)	2,169
4	Administrative & Other Expenses (A&OE) for MoHUA (1.75% of project CA allocation)	1,168
5	Technology Sub-Mission (1% of project CA allocation)	667
6	IEC Activities (1% of project CA allocation)	667

5.3 Ongoing AMRUT projects will be funded with central assistance up to 31 March 2023. **No funds will be released for any AMRUT project incomplete by that date and it will become the responsibility of the State/ UT to complete them from their own resources**.

5.4 **Funding for projects**

Funding for the projects will be shared by Centre, States/ UTs and ULBs. Central share for various classes of ULBs will be as under:

ULBs	Central share
Union Territories	100% project funds by Centre
North eastern States and Himalayan States	90% of the project funds by Centre
With less than one lakh population	50% of the project funds by Centre
With population one lakh to ten lakh (both included)	1/3rd of the project funds by Centre
With population more than ten lakh	25% of the project funds by Centre (except for projects taken up under PPP mode)

5.5 **Public Private Partnerships (PPP): Projects amounting to at least 10% of total project allocation for all cities with population above ten lakh in a State will be mandatorily taken up in PPP mode.** Projects with focus on selling treated water to industries and other users may be the potential projects for implementing under PPP mode. Such projects can be taken up in Hybrid Annuity Model (HAM) or any other suitable model. **Viability gap funding for such projects will be provided through CA**. CA will be 50% of the **viability gap subject to maximum of 30% of the project cost**. Balance viability gap will be borne by State/ ULB. Total viability gap will not exceed 60% of project cost.

5.5.1 States/ UTs and ULBs may augment their share of funding through alternative sources like raising municipal bonds, accessing capital markets, loans/ credits, State grants and central finance commission grants etc.

5.5.2 States/ UTs may avail loan from the funds earmarked by multi-lateral/ bilateral agencies like ADB, KFW, AFD and World Bank etc.

6 Mission Implementation

6.1 Memorandum of Understanding (MoU):

States/ UTs and ULBs have accepted a tripartite Memorandum of Understanding (MoU) with MoHUA. This MoU represents collective intent of MoHUA, State/ UT, and ULBs towards making urban India 'Water-secure' by effecting water source conservation, rejuvenation of water bodies and wells, recycle/ reuse of treated used water, and rainwater harvesting by engaging the community at large. MoHUA, States/ UTs and ULBs shall align themselves to the roles and responsibilities as per the MoU.

6.2 The implementation of Mission will be **paperless**. Preparatory steps (CWBP, CWAP, SWAP, reform roadmap), project planning, reform outcome achievement reporting, functional outcome reporting, evidences reporting, progress reporting and claims will be made on a robust online technology platform. Industry, community and implementing agencies will be onboarded on a colloborative platform.

6.3 City Water Balance Plans (CWBPs):

6.3.1 CWBPs will comprise details of water sources including water bodies, water treatment and distribution infrastructure, area-wise water coverage, status of NRW and sewerage network including STPs etc. **(Annex- 1 illustrative**). ULBs will compile baseline data on household water tap and sewer/ septage connections, and gaps in service delivery will be worked out. Based on assessed gaps, potential projects will be identified targeting functional outcomes.

6.3.2 State and ULBs will target to achieve universal coverage of water supply to all households in all ULBs and sewer/ septage connections in 500 AMRUT cities through projects proposed under AMRUT 2.0, ongoing AMRUT projects and projects/ initiatives funded by State/ ULB funds, XV FC grants, funding from external sources and PPP etc. The extent of gaps proposed to be filled through each of aforementioned sources will be clearly identified. CWBPs will be filled on the online formats provided for this purpose on the portal. CWBP should also be published on respective ULB and State websites.

6.4 **City Water Action Plans (CWAPs):**

6.4.1 CWAP will comprise the list of projects proposed by the ULB in the priority sectors of water supply; sewerage/ septage management; rejuvenation of water bodies including green spaces & parks. It will be ensured that projects are taken up with a view to meet 20% of city water demand through recycle/ reuse of treated used water. The projects proposed under AMRUT 2.0 and ongoing/ proposed projects through sources other than AMRUT 2.0 in three sectors will be provided **(Annex-2a, Annex 2b & Annex 2c are illustrative**). CWAPs will be submitted to SHPSC by State Mission Director online on Mission portal.

6.4.2 Projects amounting to **at least 10%** of total project allocation for all cities with population above ten lakh (**million plus cities**) in a State will be mandatorily taken up in **PPP mode**. Such projects maybe identified in the CWAPs.

6.4.3 ULBs will furnish year-wise roadmap of providing household water tap connections with a view to achieve universal coverage of water supply **(Annex- 2d illustrative).** Likewise, roadmap of achieving universal coverage of household sewer/ septage connections in 500 AMRUT cities will also be furnished **(Annex-2e illustrative).**

6.5 **State Water Action Plans (SWAPs):**

6.5.1 SWAPs will be prepared by State Mission director by aggregating CWAPs submitted by the ULBs. SWAPs will comprise entire list of projects, city-wise and sector-wise, proposed to be undertaken by States/ UTs. Cost of projects taken up will exclude cost of land acquisition. SWAP will include project wise number of proposed new household water tap connections, sewer connections and coverage of existing water tap and sewer connections to be augmented, which shall be outcomes of such projects. The projects to be implemented in PPP mode will be clearly identified. It will be ensured that projects are taken up only when land is available with clear title without any disputes. SWAPs will be submitted on portal to Apex committee in three tranches as per **Annex-3 (illustrative)**.

The first tranche will be submitted within five to nine months, second tranche within twelve to sixteen months and third tranche preferably within twenty-four months of launch of Mission. It can be submitted in advance also.

6.5.2 SWAPs will be approved by SHPSC before progressing to Apex Committee. State High Powered Steering Committee (SHPSC), while approving the SWAP will consider the following:

i. SWAP is oriented towards achieving desired functional outcomes such as universal coverage of water supply and sewerage/ septage management,

ii. Water body rejuvenation and parks & green spaces parks have been taken in specified proportion,

iii. Water supply projects oriented towards 24x7 water supply in AMRUT cities have been taken,

iv. There is no duplication of projects with AMRUT or any other government schemes,

v. Low economic and informal settlements are duly included in SWAP,

vi. At least meeting 10% of fund allocation in PPP projects as mandated have been included for million plus cities,

vii. Projects facilitating Rural-Urban Synergy have been taken up wherever feasible,

viii. Every city should achieve universal coverage and become water secure through either AMRUT 2.0 or any other funding. State assures that all the cities are moving in this direction,

ix. It will also be ensure that used water (waste water) is treated and put to reuse to meet 20% of cities water demand and 40% of Industry water demand in aggregate at the state level.

x. Projects being proposed in SWAP will have O&M for atleast five years to be funded by way of levy of user charges or other revenue streams. Project cost will exclude O&M. ULBs shall fund O&M through an appropriate cost recovery mechanism in order to make them self-reliant and cost effective.

6.6 **Urban Aquifer Management Plan**

6.6.1 The Aquifer Management Plan will focus on maintaining positive groundwater balance in urban aquifer systems. The cities will strategize groundwater recharge augmentation by developing a roadmap for improving rainwater harvesting within city limits. Cities will conduct aquifer mapping with technical support from Central Groundwater Board (CGWB)/ State Groundwater Board/ other agencies to identify recharge and discharge zones and integrate aquifer management into urban planning. Cities will develop an annual groundwater balance report to ascertain the current and future availability of groundwater.

6.6.2 The template for aquifer mapping shall be made available to the ULBs along with a technical guidance manual on urban aquifer management following the Mission launch. Urban Aquifer Management Plan shall be submitted within 24 months from the launch of Mission by 500 AMRUT cities.

6.7 **Implementation of projects**

Projects as per approved SWAP will be planned, tendered, awarded and implemented by ULBs. Where ULBs do not have adequate capacity, specialized parastatal agencies will implement the projects. In order to ensure efficient implementation of projects, the States/ UTs, 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). Maintenance and upkeep of the assets created will be responsibility of the State/ UT/ ULB. Smart elements will be part of the projects.

6.8 **Monitoring of projects**

The achievement of mission objectives will be monitored through an online module. This module will directly be the precursor for availaing funds. Therefore, the portal needs to be regularly updated by State/ UT/ ULB functionaries for flow of information and sanctioning of funds. The fields to be updated will include physical progress, financial progress, documents required for seeking central assistance, photographs, videos, third party reports, etc. The progress reported on portal will be randomly verified through citizen/ third party feedback. Implementing agencies and community stakeholders will also be facilitated to access the portal and upload the progress and feedback.

6.9 **Replacement of projects**

6.9.1 The projects approved by the Apex committee will not be replaced in normal course. However, in case some projects are required to be replaced due to unavoidable circumstances, State Mission Director will submit such proposal to SHPSC along with justification. The SHPSC will be competent to approve replacement of projects costing up to 10% of respective tranche of SWAP in admissible project components of AMRUT 2.0. Replacement of projects beyond 10% of respective tranche of SWAP, if approved by SHPSC shall be sent to the Apex committee with proper justification for consideration and approval. No expenditure shall be booked against any project proposed to be replaced.

6.9.2 The SHPSC, while considering replacement of projects, shall ensure that there is no duplication of projects through replacement, overall State allocation is not exceeded, new proposed projects are in line with Mission objectives.

7 Release of funds

7.1 General conditions for release of project funds

7.1.1 Central assistance will be processed through online claims and settlement system, which will emerge from the actual progress updated on portal through physical/ financial data, photos and videos obtained through citizen feedback and third-party assessment.

7.1.2 Fund flow under Mission will be as per instructions issued vide Ministry of Finance OM No. F. No. 1(13) PFMS |FCD/2020, dated 23 March 2021, which is explained in **Article 7.6**.

7.1.3 **Central fund allocation** to States/ UTs for projects will be worked out by distributing entire central project funds (₹ 66,750 crore) among States/ UTs giving weightage to urban population (Census 2011) and area of States/ UTs in ratio 90:10.

7.1.4 States shall ensure that the further allocation to cities is oriented towards achieving universal coverage of water supply in all ULBs and universal coverage of sewerage/ septage management in 500 AMRUT cities through AMRUT 2.0. If a city has already achieved universal coverage of water and sewerage, it will be clearly brought out in CWBP and further actions can be taken to make the city water secure through AMRUT 2.0. In case of a city where all indicated outcomes are planned to be achieved from other sources of funding (not through AMRUT 2.0), these may be clearly indicated in the format provided for the same purpose in CWAP.

7.1.5 Project funds will be released for implementation of AMRUT 2.0 projects. Functional outcomes achieved beyond baselines (as on 1 Nov 2021) through funding from sources other than AMRUT/ AMRUT 2.0 will also be funded. These other sources of funds can be XV Finance Commission grants, State Funds, ULB funds or funds from external agencies.

7.1.6 **Admissible Central Assistance (ACA)** will be worked out based on total amount of SWAPs submitted and applying proportion for the category of the State/ City as per Table in **Article 5.4**.

7.1.7 Total project fund release to a State/ UT through all instalments will not exceed the central fund allocation**.**

7.1.8 CA released for a particular tranche of SWAP can be utilized for implementation of approved projects of another tranche. Similarly, States/ UTs can utilize CA for projects in any of the ULBs as per physical/ financial progress of the projects.

7.2 **Release of project funds (other than PPP)**

Central assistance (CA) to the States/ UTs has been divided in two components as under:

7.2.1 **Component-1:** This component will comprise of CA for projects approved under SWAPs. This will be provided in three instalments of 20:40:40 as under.

7.2.1.1 **First instalment under component-1**

i. This will be 20% of CA admissible against SWAP submitted by the State/ UT and approved by Apex Committee.

ii. First instalment for component-1 shall be claimed in three (almost equal) tranches against submission and approval of each of three tranches of SWAP.

7.2.1.2 **Second Instalmentunder component-1**

i. Second instalment will be 40% of the total CA for the State/UT.

ii. AMRUT 2.0 projects for which contracts have been awarded will be eligible for consideration for release of second instalment.

iii. Approved cost of projects will be the basis for working out instalment. Approved cost will be lower of appraised cost and contract award cost.

iv. Following should be achieved before claiming second instalment:

a) Second instalment will be applicable to projects which have achieved 15% physical and financial progress. The work should have been started on site.

b) Submission of City Aquifer Management Plan (At least 20% AMRUT cities of the State with first tranche of SWAP, 30% AMRUT cities of the State with second tranche and remaining 50% AMRUT cities of the State with third tranche of SWAP). States having less than ten AMRUT cities may submit City Aquifer Management Plan with third tranche.

c) Submission of UC of A&OE grants and reform incentive.

d) Submission of assessment report of AMRUT 2.0 by IRMA (to be appointed by MoHUA) and ATR by the State/ UT thereon and compliance report by IRMA.

e) Citizen feedback.

7.2.1.3 **Third instalment under component-1**

i. Third instalment will be 40% of admissible CA to the State/UT. It will be released entirely on achieving functional outcomes through AMRUT 2.0 projects. Third instalment will be worked out as per following Table:

#	Outcome	Formula for working out 3rd instalment
1	Tap connections (both new and serviced through augmentation)	(0.4) X (ACA for water supply projects) X (WA/ WT)
2	Sewer/ septage connection (both new and serviced through augmentation)	(0.4) X (ACA for sewerage/ septage projects) X (SA/ ST)
3	Water body rejuvenation projects	(0.4) X (ACA for Water body rejuvenation projects) X (WBA/ WBT)
4	Parks & green spaces	(0.4) X (ACA for Parks & green spaces projects) X (PA/ PT)
Sum of all above will be the admissible amount of third instalment. This is an illustration. Actual apportionment of third instalment for projects will be based on achievement of actual outcomes pertaining to those projects.		

Description of terms in the Table

Outcomes	Achievement through AMRUT 2.0	Cumulative target under AMRUT 2.0
Number of new household water tap connections provided + number of tap connections serviced through augmentation + tap connections provided with 24x7 water supply as per real outcomes.	WA	WT
Number of new household sewer connections provided + sewer connections serviced through new sewerage network + households covered with septage management + households covered with tertiary treatment	SA	ST
Number of water body rejuvenation projects completed under AMRUT 2.0	WBA	WBT
Number of parks projects completed under AMRUT 2.0	PA	PT

ii. Targets in the last column will be submitted through Tables 3(b), 3(c) and 3(d)

iii. Third instalment can be claimed in three tranches against approved tranches of SWAPs.

7.2.2 **Component-2**: **Funding at the rate of ₹ 3,000 (Rupees three thousand) per new household water tap connection** provided in ULBs beyond the baseline as on 1 November 2021 will be awarded. Similarly, **funding at the rate of ₹ 3,000 (Rupees three thousand) for each new household sewer connection** provided in all 500 AMRUT ULBs beyond the baseline as on 1 November 2021 will be provided. Only those new connections, which are not funded under AMRUT and AMRUT 2.0 will be considered for the above funding. Funds against these outcomes can be claimed once every quarter in tranches from launch of Mission after baseline is firmed up. Funds will be released after due verification through citizen feedback and third-party. Funds provided under component-2 will be used by the State/ UT/ ULB on components of AMRUT 2.0 only.

7.3 **Funds for projects implemented in PPP mode:**

For the projects planned for implementation under PPP mode in cities with population above ten lakh, State/ ULB will prepare appropriate financial model and work out viability gap of such projects. Total viability gap for a project shall not exceed 60% of the project cost. 50% of the viability gap not exceeding 30% of project cost will be admissible to be funded as CA.

For such projects, CA worked out as above will be released in three instalments like non-PPP projects. First instalment worth 20% of the admissible CA will be released on approval of DPR and finalization of financial model of PPP project. While claiming first instalment, details of the PPP projects will be submitted online as under:

Sl. No.	**Name of PPP project**	**Total cost of project (₹ crore)**	**Total Viability Gap (VG)**		**Viability gap to be funded**		**Brief detail of financial model adopted**
			Amount (₹ crore)	VG as % of project cost	By Centre(₹ crore)	By State(₹ crore)	

Second instalment worth 40% of admissible CA for PPP project will be released on achieving 15% of physical as well as financial progress of the project. Third instalment will be released on achievement of functional outcomes as described in **Article 7.2.** Payment of annuity over the agreed period of time as per financial model will be done by the State/ ULB. To bring in confidence for PPP projects, States may facilitate ULBs to operate Escrow accounts for ensuring seamless fund flow.

7.4 **Administrative and Other Expenses (A&OE) for States & MoHUA:**

7.4.1 3.25% of annual budget allocation will be earmarked for States/ UTs. State A&OE funds will be allocated among all States/ UTs/ ULBs depending on their urban population and area in the ratio 90:10.

7.4.2 A&OE funds will be released to the State in the beginning to kickstart the Mission. Some funds will be provided to the State for establishing State Mission Management Units like PDMC. To enable ULBs to prepare City Water Balance Plans (CWBPs), ₹ 20 lakh will be provided per AMRUT City to the State, to be passed on to each AMRUT ULB based on their claim in SNA account and ₹ 10 lakh each for rest of the ULBs. This can also be used to establish dedicated unit for Mission management in ULBs. The States may initiate immediate action to onboard resources for assisting the cities/ parastatals for operationalizing Mission.

7.4.3 A&OE action plan will be submitted by States/ UTs along with SWAPs as per **Annex-4**. Annual A&OE allocation to a State/ ULB will be released in two instalments. First instalment for the first year will be released on receipt of A&OE action plan. Second instalment will be released on receipt of online claims and UC worth at least 75% of central assistance already released. In subsequent years, first instalment will be released on receipt of action plan and UC worth 75% of all the A&OE fund released in previous years. Eligible A&OE funds will be restricted as per proportion of actual expenditure.

7.4.4 State A&OE funds can be spent on following:

i. Capacity building, preparation of CWBPs, Programme Management/ Implementation Unit (PMU/ PIU),

ii. Project Development and Management Consultant (PDMC), State Mission Management Unit (SMMU),
iii. City or City cluster Mission Management Unit (CMMU),
iv. Preparation of Detailed Project Reports (DPRs),
v. Publications like e-Newsletter, guidelines, brochures etc., promotional activities for Mission,
vi. Display of the logo and tagline of AMRUT 2.0 prominently on all projects,
vii. Reform implementation.

7.4.5 Due to smaller size and fewer ULBs, North-Eastern and Himalayan States may need specialized handholding for efficient project implementation. On their written request MoHUA may deploy additional support/ experts/ institutions to augment capacities. Representatives from local technical institutions, colleges and universities may be employed in these PDMCs/ PMUs.

7.4.6 In addition to water sector experts, hydrogeologists and data analysts may be part of Mission management units at State, regional and city level. Model guidance document for procurement of these team members will be provided by MoHUA, if required.

7.4.7 The A&OE funds for MoHUA will be utilized at the National Mission Directorate level on following:

i. Capacity building,
ii. Convening national & regional workshops,
iii. Conferring awards and recognition, up-scaling and replication of best practices & smart solutions,
iv. Commissioning of research and applied studies through Center of Excellence and other institutions,
v. Independent Review and Monitoring Agency (IRMA) to be positioned at State/ sub-State/ regional level,
vi. Feedback using gig economy model,
vii. International cooperation for capacity building and technology development, etc.,
viii. Pey Jal Survekshan components

7.4.8 Following is the indicative (not exhaustive) list of **inadmissible** components under A&OE:

i. Purchase of land for projects or project related works,

ii. Regular staff salaries of State Governments/ULBs,

iii. Any other purpose not oriented towards achieving Mission objectives.

7.5 **Reform Incentive:**

7.5.1 Funds totaling ₹ 5,340 Crore has been earmarked as reform incentive. Eight percent of the annual budget allocation will be given as reform incentive to States/ UTs every year for achievement of Reforms from second year of Mission onwards. Incentive for reforms implemented in a year will be awarded in the succeeding financial year. States/ UTs will submit reform roadmap along with SWAPs. Reforms covered under AMRUT 2.0 under various categories have been brought out in **Article 8.**

7.5.2 A toolkit for marking system will be issued before commencement of financial year. Procedure of assessing reforms and working out of incentive to the States/ UTs will be described in toolkit.

7.5.3 The incentive can be used in Mission cities on admissible components of the AMRUT 2.0 as additionality for achieving the objectives of Mission as an untied fund. The State High Power Steering Committee (SHPSC) will decide the use of the incentive amount.

7.5.4 UCs against incentive released shall be submitted in time as per guidelines of Ministry of Finance (MoF). Unutilized funds for reform incentives will be transferred to project fund every year.

7.6 **Fund flow**

Adoption of Public Financial Management System stipulated by Ministry of Finance will be the pre-condition to submit CWBPs. To receive funds under AMRUT 2.0, all transactions will have to be made through Single Nodal Agency (SNA) by using EAT as applicable, as per revised procedure for fund release stipulated in Department of Expenditure (GoI)'s OM No. F. No. 1(13)PFMS |FCD/2020, dated 23 March 2021, as updated from time to time.

8 Reforms

8.1 Mission has a reform agenda to enhance city water security, financial health of ULBs and ease of living of citizens. Reforms will be implemented in first four years of Mission. Reform milestones to be achieved, criteria for evaluation along with timelines will be released in reform toolkit. The evaluation will be done through third party, citizen feedback and interview with officials.

There will be two type of reforms:

1) Mandatory reforms
2) Incentive based reforms

8.2 **Mandatory reforms**

Mandatory reforms will be on property tax and user charges. The States will have to implement these reforms in first two years from launch of Mission to be eligible for central assistance from third year onwards.

8.2.1 **Property tax reform** will be focused on notifying property tax calculation containing guidance value/ circle rate along with provision for its periodic increase. The increase in property tax will be ensured through this notification and increase in coverage, & collection efficiency.

8.2.2 **Reforms on User Charges** will be focused on notification by State on user charges for water supply and sewerage, resolution of its adoption by all ULBs. User charges will offset O&M expenses substantially and a periodic increase mechanism has to be put in place.

500 AMRUT cities where water supply coverage has improved substantially shall submit road map for achieving 90% billing and collection. The status of billing and collection efficiency will be verified by IRMA or in any other manner decided by MoHUA.

8.2.3 **Effective system for grievance redressal** will be put in place in ULBs.

8.3 **Incentive based reforms**

Incentive based reforms will be on water conservation, urban governance and energy efficiency.

(A) Reforms on water conservation:

8.3.1 **Reduction in non-revenue water to below 20%:**

The ideal target for non revenue water of any ULB will be 20%. Cities will submit roadmap including regularization of illegal connections and minimizing leakage in distribution system due to damages of pipes. The system in place for leakage detection and grievance redressal will be evaluated based on its effectiveness. Measuring stations at source, storage and distribution as well as number of metered connections will be the criteria for evaluation. Proactive approach to train the plumbers and infrastructure managers to ensure minimal leakages will also be assessed. Development of mobile application for reporting of pipe leakages will be the criteria for evaluation for incentive to States. MoHUA may also facilitate the mobile application development. When ULBs adopt this mobile application and implement the successful leakage detection and repair system, they will be incentivized through this reform.

8.3.2 **Recycle of treated used water to meet at least 20% of total city water demand and 40% of industrial water demand at State level**

Issue of Policy Guidelines by State for Recycling and Reuse of treated used water and its resolution by ULBs will be a **State level reform.**

Mechanism of institutionalisation to check the quality, treatment capacity of STP, treated used water recycled, percentage of recycled water used by city, industrial, agriculture and other demand, whether the treated used water is released in water bodies will also be assessed.

8.3.3 **Rejuvenation of water bodies with area preferably one acre**

ULBs which take up projects for rejuvenation of water bodies will be incentivised based on the number of water bodies taken up for rejuvenationas per the city population, DPR prepatration, award of contract and execution of work.

City population	Number of water bodies to be rejuvenated
above 40 lakh	5
10 lakh to 40 lakh	3

1 lakh to 10 lakh	2
less than 1 lakh	1

ULBs will be evaluated based on improvement of quality of water in water body, diversion of drain/ sewer from water body and quality public spaces around water body.

8.3.4 **24x7 water supply with 'Drink from tap' facility in the selected wards**

24x7 water supply can be taken up in the form of projects. Successful implementation of such projects will be incentivized. 24x7 water supply with 'Drink from tap' facility will be evaluated on parameters of quality, accessibility and availability of water.

8.3.5 **Development of green spaces and parks**

ULBs will implement projects on divyang friendly green spaces and parks. Reform evaluation will be based on progress of implementation of these projects. Each park preferably will not be below 0.5 acre area. Park projects will be taken up as under:

City population	Number of green spaces and parks to be developed/ augmented
50,000 to 1 lakh	2
less than 50,000	1

(B) Reforms on governance:

8.3.6 **Ease of getting water and sewer connections**

ULBs will endeavour to simplify the procedure for getting sewer/ water connections for the households. The ease in getting these connections with respect to SLB achieved in getting connections, documents required and cost incurred will be evaluated under this reform.

8.3.7 **Credit rating and issuance of municipal bonds**

This reform will involve Credit rating of Tier-2 cities (population 50,000 to 99,999), enhancing credit worthiness of AMRUT ULBs and issuance of municipal bonds. Credit rating will be a **State level reform**.

8.3.8 **Online municipal services system**

Online delivery of municipal services by ULBs will be evaluated for the services such as Property tax, Death and Birth certificate, Shop license, Health license and Grievance redressal. The SLB targeted and achieved for municipal services will also be evaluated. Similarly, the

online extent of ULB's grievance redressal system will be also be evaluated for water, sanitation, solid waste, street lights and drainage services. The guidelines issued under National Urban Digital Mission (NUDM) will be adopted for the same.

8.3.9 **Electrical Vehicle Charging Points in cities with population above 50,000**

Preparing and issuing notification and guidelines by State for providing electric vehicle charging points in specified class of buildings/ areas and resolution by ULBs for adoption of guidelines will be the evaluation criteria.

8.3.10 **Augmenting double entry accounting system**

Double entry account system shall be adopted for all the ULBs. Complete migration to double entry accounting system and obtaining audit certificate will be evaluated.

8.3.11 **PPP project in non-million plus cities**

Planning and implementation of projects in PPP mode in water sector in cities with population below ten lakh will be evaluated.

8.3.12 **Involvement of community** including women SHGs in water demand and water infrastructure management will be incentivised.

(C) Reform on energy efficiency:

8.3.13 **Reform on energy efficiency**

Effective O&M SOPs for water supply and sanitation infrastructure will be evaluated. Energy efficiency of pumps and cleaning procedures for filters will also be evaluated.

(D) Reforms on urban planning and unlocking land value through urban planning

Land monetization, unlocking land value and improving land use efficiency will be undertaken through sub-schemes as under:

8.3.14 **GIS based master plans of Class-II Towns with population of 50,000 - 99,999 - sub Scheme**

A sub Scheme is proposed to be launched for GIS based master plans of Class-II Towns with population of 50,000 - 99,999. The Sub Scheme will be in line with AMRUT GIS sub Scheme, which will comprise three major components i.e. Geo-database creation, formulation of GIS based master plans and capacity building. The Geo-database will be created as per the design & standards approved by MOHUA namely "Design & Standards for Formulation of GIS based

Master Plans for AMRUT Cities" and "Design & Standards for Application of Drone/UAV technology for Formulation of GIS based Master Plans for Small and Medium Towns". The creation of Geo-database will be taken up in-house or through out-sourcing. The MoUs for Geo-database will be signed with National Remote Sensing Centre (NRSC) for Satellite based geo-data creation or Survey of India (SOI) for drone/ UAV based geo-data creation, based on requirement of State/UTs Governments.

The GIS based Master Plans will be formulated by State Governments in-house or through out-sourcing as per the State Town Planning Acts using the Geo-database created through above mentioned State of Art technologies.

8.3.15 **Sub-Scheme on Local Area Plan (LAP) and Town Planning Scheme (TPS)**

The sub-Scheme will encourage implementation of LAP and TPS in select cities targeting optimum land utilisation. It will help States and cities in preparing LAP/ TPS plans through stakeholder consultation. Handholding will be provided for the same.

9 Pey Jal Survekshan

9.1 Pey Jal Survekshan will foster healthy competition among ULBs, wherein following parameters will be assessed:

i. Water supply management & innovative practices,
ii. Compliance of water supply service level benchmarks w.r.t. coverage, quality, quantity, and user charges reforms,
iii. Reduction in Non-Revenue Water (NRW) through District Metered Areas (DMAs) and training to check leakages,
iv. Operational efficiency of sewage and water treatment plants,
v. Rejuvenation of water bodies and wells,
vi. Evaluation of collection, treatment, and reuse of treated used water.

9.2 Feedback will be taken from citizens and municipal officials to assess above parameters. Water samples will be collected and their laboratory testing will be carried out.

9.3 The results of the survey will be the basis of ranking the ULBs in terms of water sector services and water security at city and household level.

10 Technology Sub-Mission

10.1 Technology Sub-Mission will facilitate identification of innovative, proven and potential environment friendly technologies in the fields of water & used water treatment, distribution and water body rejuvenation. Following are the major initiatives to be taken under Technology Sub- Mission:

10.1.1 **Start- ups entrepreneurs:**

i. Start- ups will be encouraged in water/ sewerage sector. The Start-ups fulfilling the definition given by "Start-up India" initiative of DPIIT[1] shall be eligible to participate. Start-ups can apply to the State Mission Director by submitting a brief proposal online comprising details of the project, technology proposed, cost and intended benefits. Projects costing up to ₹ 20 lakh will be approved by a **State Water Start-Up Screening Committee** consisting of State Mission Director, representative of technical institute and/ or practitioners in water sector. Approved projects can be taken up for which necessary assistance will be provided by the concerned ULB.

ii. Start-up projects with path breaking technologies, costing more than ₹ 20 lakh will be approved by **National Water Start-Up Screening Committee** consisting of representatives of MoHUA, CPHEEO and experts in water sector.

iii. Funds will be released in three instalments of 50:40:10. First instalment (50%) will be released after approval of project by **State/ National Water Start-Up Screening Committee** as per cost of the project.

iv. Second instalment (40%) will be released on receiving the claim for the same after having achieved progress of the project and reported online.

v. Third instalment (10%) will be released after the project is completed and intended outcomes are achieved.

[1] https://www.startupindia.gov.in/content/sih/en/startupgov/startup-recognition-page.html

vi. The first shortlisting of start-ups projects for funding should be completed within six month of launch of mission and first instalment should be released within seven months from start of mission.

10.1.2 **Technology Melas**:

Mission will support innovative, low-cost indigenous technologies including equipment, through technology challenge and melas at National/ State level.

10.1.3 **Light house projects**:

National and international agencies/entrepreneurs will be encouraged to take up lighthouse projects and demonstrate the results in water sector. Interested agency can apply to the State Mission Director for such projects with clearly defined objectives and outcomes. MoHUA will approve such projects on recommendation of SMD. Initially, such projects will be funded by the concerned agency, however, on achieving the intended outcomes within Mission period, 20% of project cost, restricted to ₹ 50 Lakhs will be reimbursed to the agency by MoHUA.

11 Synergies for effective outcomes

11.1 **Rural-Urban Synergy**:

Water markets for reuse of treated used water shall be ascertained in rural urban continuum. Co-treatment of sewage/ septage from nearby villages in spare capacities of STPs will be explored by ULBs.

To facilitate this, National, State and ULB level committees on water/ sewerage/ river/ water body coordination shall be represented by members of rural areas also, especially for peri-urban areas.

There will be a capacity building convergence between urban and rural, wherever feasible.

11.2 **Urban-Urban synergy:**

Mission covers all ULBs across the country. Many of the ULBs are very small with population below 10,000. For such ULBs, water supply projects may be techno-economically sustainable, if planned for a cluster of ULBs which are adjacent to each other. For example, a common intake line may be laid from a far-away water source for a group of ULBs. State/ULBs will endeavor to plan such projects for cluster of cities where ever feasible. Viability of such projects will be analyzed specifically by the SHPSC before including in the SWAP.

11.3 **Synergy among Missions:**

Swachh Bharat Mission (SBM), Smart City Mission (SCM) and National Urban Livelihood Mission (NULM) have components common with AMRUT 2.0. Sanitation and FSSM are components of SBM and water supply with smart elements is a component of SCM. Employment generation through various components of AMRUT 2.0 like project implementation and capacity building contribute to the cause of urban livelihood, which is also the motto of NULM.

Convergence/ synergy among these Missions is essential to achieve the outcomes targeted towards enhancing ease of living. The ULBs which cannot plan projects to achieve intended outcomes due to resource crunch can plan the projects in convergence.

12 Capacity building

12.1 Capacity building will be taken up for elected representatives, ULB functionaries, contractors & their staff and citizens. Purpose of capacity building is to enhance the functional knowledge and improve the job-related skills of targeted groups.

12.2 Suggested targeted groups and fields of capacity building are as under:

	Targeted group for capacity building	**Suggested fields of capacity building**
1	Elected representatives and Municipal functionaries	a. AMRUT 2.0 and its Reform agenda b. Recycle/ Reuse of treated used water, Rejuvenation of Water bodies, Rain water harvesting. c. Project and financial management d. E-governance and soft skills

2	Contractors, managers and consultants	a. Project and financial management b. Aspects of water & sewerage infrastructure and recycle of treated used water
3	Plant operators, Plumbers and Workmen	a. O&M of water supply & sewerage networks and treatment plants b. Aspects of plumbing and plugging the leakages. c. RWH structures, NRW reduction,
4	Citizens including Women and members of SHGs	a. Water quality testing b. Management of water demand c. Feedbacks on functional outcomes
5	Town planners	a. Land monetization b. Form based planning, local area plans and town planning scheme c. GIS based master plans

12.3 States/ UTs may impart capacity building in fields other than those described in the Table above as per specific requirements of the State/ ULB. Training can be of any duration as decided by State and can be imparted through class room courses as well as online classes.

12.4 International and Intra-national visits to best water managing cities will also be taken up.

12.5 Capacity building plans will be submitted along with action plan for State A&OE funds as per **Annex-5**. States/ UTs will bear the expenses on capacity building through A&OE funds allocated to them. The capacity building plan will include the list of agencies that are proposed to impart training. States/ UTs may explore the institutions in their proximity to impart capacity building. North-Eastern States may also explore North-Eastern Hill University (NEHU) to impart training. Small States/ UTs can adopt cluster approach whereby persons from different States can participate in common capacity building program.

12.6 1,00,000 persons are targeted to be trained under capacity building program.

13 Urban Aquifer Management Plan

13.1 AMRUT 2.0 acknowledges the importance of wells and aquifers, and the dependence of urban population on these systems. Mission intends to prioritize management of urban aquifer systems towards its pursuit of water secure cities.

13.1.1 ULBs under Mission are expected to develop sound strategies for management of groundwater resources with specific focus on the following parameters:

i. ULB's dependence on groundwater
ii. Key characteristics of city's aquifer systems
iii. Available recharge potential within city limits

13.1.2 Mission will promote and encourage citizen's engagement for groundwater management in cities. Dug wells are identified as a common entry point towards citizen engagement and awareness generation on well recharge and rejuvenation for shallow aquifer systems in the city.

13.1.3 ULBs will facilitate a scientific approach towards management of groundwater aquifer systems by enhancing their technical capacities. ULBs shall monitor groundwater usage, identify aquifer potential and recharge opportunities.

13.1.4 Mission shall support the development of protocols for operating a scientific routine around data collection on groundwater resources that will assist in the development of aquifer management plan and its refinement.

13.1.5 A technical guidance manual specific to different aquifer systems in urban India shall be developed under Mission to assist the cities in developing an aquifer management plan.

13.1.6 The City Aquifer Management Plan will be a dynamic document that shall be revised every year until 2026 to assess the change in the dynamic groundwater balance over the mission period.

13.1.7 For the purpose of development of aquifer management plan, cities/ ULBs may provide baseline information in the first year of Mission to understand the relationship between the urban area and its underlying aquifer systems and work towards generating further information pertaining to the aquifer systems that shall be incorporated in the subsequent plans.

14 IEC Campaign

14.1 In order to ensure extensive outreach of Mission and its objectives; Information, Education and Communication (IEC) will be undertaken. IEC campaign shall target to build the capacities of local communities through information, education, and persuasion of people effecting Behavioral Change Communication (BCC). IEC will envisage to convert the campaign into a movement- *Jan Aandolan* by engaging ward committees, resident welfare associations, senior citizens, home makers, NGOs and civil society groups, students and youth, celebrities, brand ambassadors, and SHG groups.

Ensuring community participation: NULM Mission management will be involved in training and mobilizing SHGs in water quality testing and infrastructure management. At least one project's operation and maintenance of AMRUT/ AMRUT 2.0 in each city may be considered for deployment of well-trained SHG.

14.2 Objectives of IEC campaign areas under:

- To create awareness about practices for water conservation like rainwater harvesting, clean water bodies, ground water recharge and intensive plantation, etc.
- To make people aware about municipal services, especially new water connection.
- To effect behavioral changes about optimum usage and minimizing wastage of water.
- To inculcate sense of ownership of water supply infrastructure among citizens.
- To enhance awareness about creation of markets for treated used water in rural/ peri-urban areas.
- To encourage potential investors to invest in PPP projects in water sector through project profiles.

14.3 **Strategy for IEC:**

MoHUA will devise strategy for IEC activities at National, State, and ULB level. It will include the tools of awareness campaigns on the objectives brought out above. MoHUA may appoint external consultants/ agencies/ organizations etc. to devise the strategy.

This strategy will be designed into two folds – 1) primary creative strategy & master templates and its adaption into multiple tools of IEC campaign. 2) Optimum utilization of such tools for information dissemination.

Similarly, States shall leverage the MoHUA's creative strategy and localize the content at the State, district and ULB level and facilitate its information dissemination.

14.4 IEC tools and action plan

Below is a snapshot of the tools of IEC plan to be used in AMRUT 2.0:

Mass Media - TV, Radio, Newspapers, Movies, AMRUT 2.0 anthem,etc.	**Social media campaign** through influencers, celebrities and Recognition of Water Warriors	**Targeted marketing** through- **Collaterals** – Pamphlets, brochures, leaflets, snippets, **Outdoor publicity** – hoardings, banners, standees, wall paintings etc.
Activations – competition among children, local community	**Community engagement** through train the trainer	**Exhibition/ Melas** of success stories

14.4.1 Mass Media - TV, Radio, Newspapers, Movies

Broadcast of "Audio-Visual spots" through internet, television, local cable TV and social media networks. Advertisements and success stories in newspapers/ magazines and short films on objectives of Mission. An audio-visual anthem on AMRUT 2.0 may be created to effect behavioral change in people regarding water and sanitation.

Radio may also be used to achieve above objectives. Audio spots, anthem and jingles through local FM channels roping in influential radio jockeys may be broadcasted.

14.4.2 Social media campaign and recognition of Water Warriors

Social media campaign can involve celebrities to spread awareness among masses about Mission; optimum usage of water; importance and avenues for recycle/ reuse of treated used water; significance of rejuvenation of water bodies, plantation and rain water harvesting etc. For this purpose, platforms such as WhatsApp, Facebook, Instagram, YouTube, LinkedIn, Twitter, etc. may be used. Mission will recognize citizens who have done outstanding work in the related fields, as '**Water Warriors'. Documentary films/ movies** on Mission objectives and success stories of water warriors may be made and shown during campaign.

14.4.3 **Targeted marketing through collaterals and outdoor campaign**

Pamphlets, brochures, leaflets, snippets may be distributed to schools, RWAs, Slum Welfare Associations, Mohalla Samitis, academic institutions, health workers, key opinion leaders and beneficiaries, etc. **Outdoor campaign may be done via hoardings, banners**, **standees, wall paintings etc**. at ULB offices, schools, institutions, railway stations, bus stops, malls, markets, subways, inside and outside public transport buses, etc.

14.4.4 **Local level activations**

Organizing competitions on painting and essay writing, etc. on water related topics in schools, colleges, slums, and RWAs, etc.

14.4.5 **Community engagement using 'Train the Trainer' workshops**

Community young leaders at local level may be identified and trained in 'Train the Trainer' workshops. These leaders may further train the community and create sensitisation among community in water related aspects.

14.4.6 **Exhibition and Melas of success stories**

Start-ups, entrepreneurs, research centers, institutions etc. may be engaged in local level exhibitions/ Melas to showcase their technologies and processes. This will help in increasing awareness of ULB functionaries, contractors, plant operators, and citizens.

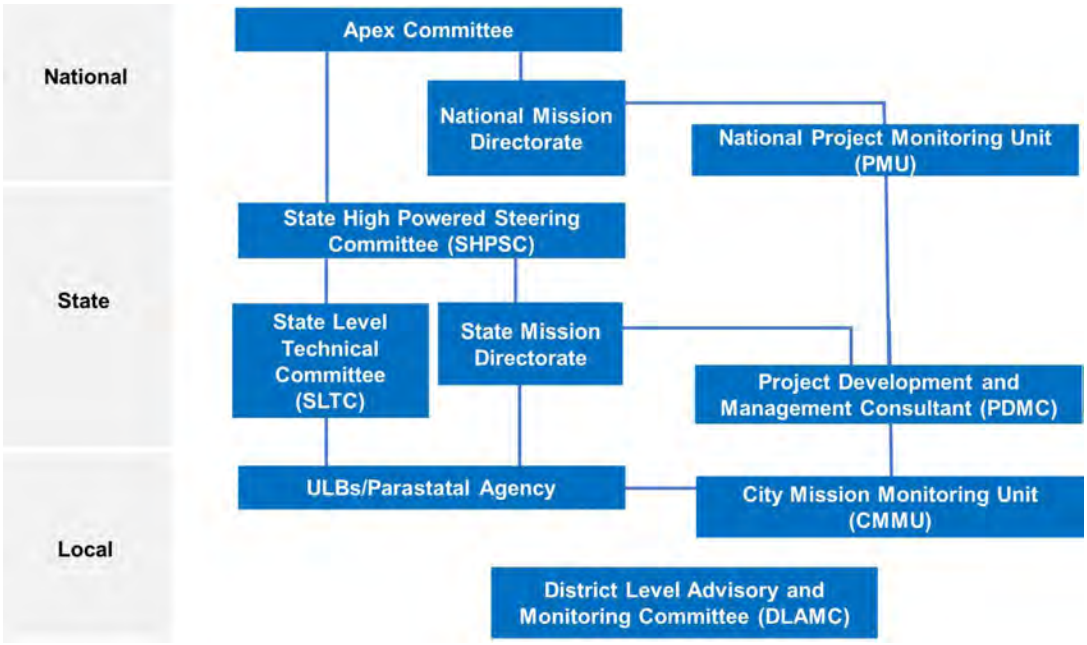
14.5 **Funding**:

MoHUA will receive 1/3rd of annual IEC funds, and remaining funds will be disbursed to States/ UTs. State share will be worked out giving weightage to urban population and area of States in ratio of 90:10.

Annual IEC action plan will be submitted by States/ UTs along with SWAPs as per **Annex-6**. Annual IEC allocation to a State/ ULB will be released in two instalments. First instalment for the first year will be released on receipt of IEC action plan. Second instalment will be released on receipt of online claims and UC worth at least 75% of central assistance already released. In subsequent years first instalment will be released on receipt of action plan and UC worth 75% of all the IEC fund released in previous years.

15 Institutional Mechanism

15.1 A three-tier institutional mechanism has been devised for implementing Mission as under:



15.2 **National Level**

15.2.1 **Apex Committee (AC)**

An Apex Committee (AC) chaired by the Secretary, MoHUA and comprising representatives of related ministries and organizations will monitor Mission. For the successful implementation of Mission, the Apex Committee (AC) will have following responsibilities:

i. Policy guidance formulation, central assistance, and technical support to States/ UTs.
ii. Approval of State Water Action Plans (SWAPs).
iii. Allocate and release funds to the States/ UTs/ Mission Directorate.
iv. Monitoring of Mission progress & fund utilization at State/UT level.
v. Advise States/ UTs on roadmap for reform implementation and monitoring progress.
vi. Advise the State/UT/ implementing agencies on innovative ways for resource mobilization, private financing, and land leveraging.

vii. The Apex Committee may delegate, as it considers appropriate, some of the functions within prescribed limits to the Mission Director for ensuring speedy implementation of Mission.

Apex committee will be empowered to take any decision required for uninterrupted progress of Mission within broad framework of approved Cabinet note. Apex committee shall meet at intervals not exceeding once every quarter.

The composition of the Apex Committee will be:

1	Secretary (MoHUA)	Chairman
2	Secretary (Department of Expenditure)	Member
3	Secretary(Department of Economic Affairs)	Member
4	Secretary (Drinking Water & Sanitation)	Member
5	Secretary (Environment & Forest)	Member
6	Joint Secretary/ Advisor, NITI Ayog	Member
7	Joint Secretary & FA, MoHUA	Member
8	Adviser (CPHEEO)	Member
9	TCPO	Member
10	Director, NIUA	Member
11	Mission Director, AMRUT 2.0	Member Secretary

15.2.2 **National Project Management Unit (PMU)**

National Project Management Unit may be employed to support National Mission Directorate. It will monitor the physical and financial progress of the overall Mission, visit States/ cities as required, liaise with PDMC/ CMMU to keep the portal updated and undertake any other duties as directed by Mission director.

15.2.3 **Independent Review and Monitoring Agency (IRMA)**

IRMAs shall be selected for a State/ UT or cluster of States/ UTs by MoHUA through bidding process. Payments to IRMAs will be made by MoHUA. States/ UTs will facilitate IRMAs in undertaking reviews and feedbacks etc. Periodic reports and other documents will be submitted by IRMA to MoHUA with copy to States/ UTs. Brief description of activities to be performed by IRMAs is as under:

I. Review of projects and reforms undertaken by the States/ UTs. Ascertaining if the projects are taken up in accordance with the approved SWAPs.
II. Verification of Action Taken Report furnished by States/ UTs against IRMA observations and confirmation to MoHUA.
III. Verification of outcomes submitted/ uploaded on portal by the States/ UTs.
IV. Collecting user feedback in form of recorded video interviews and testimonials etc.
V. Assisting States/ UTs in updating the portal on regular basis.

15.3 State level

15.3.1 State High Powered Steering Committee (SHPSC)

State High Powered Steering Committee (SHPSC) chaired by Chief Secretary of State will steer the Mission program at State level. The responsibilities of SHPSC will be as under:

I. Approve State Water Action Plan (SWAP) and accord administrative approval of Detailed Project Reports (DPRs).
II. Monitor Mission including progress of projects, capacity building, IEC campaign and reform implementation, etc.
III. Recommend proposals for release of instalment of funds for projects to the Centre.
IV. Finalize State and ULB share of funds for project implementation.
V. Allocate and release of Central and State share of funds to ULBs in time.
VI. Encourage and facilitate start-ups and private entrepreneurs to participate in Mission through technology sub-Mission.
VII. Approve plans for capacity building, issue notifications, etc. for speedy implementation of reforms.
VIII. Advise State Mission Director on Operations & Maintenance of plants erected under Mission.

The indicative composition of the SHPSC will be:

1	Chief Secretary	Chairman
2	Pr. Secretary (Finance)	Member
3	Pr. Secretary (Housing)	Member
4	Pr. Secretary (Environment & Forest)	Member

5	Representative of MoHUA	Member
6	State Mission Director	Member
7	Representative of PHE Department	Member
8	Pr. Secretary (UD)	Member Secretary
9	Pr. Secretary/ Secretary Rural Development	Member

SHPSC may co-opt members from other State government departments / organizations and may invite experts in the field to participate in its deliberations.

Mission at State level will be led by State Mission Director, who will be an officer not below the rank of Secretary, nominated by the State Government. The State Mission Directorate will be responsible for developing DPRs and bid documents with the help of ULBs & PDMCs and forwarding them to the SLTC for technical approval. State Mission director may seek guidance from SHPSC to ensure speedy implementation of AMRUT 2.0.

15.3.2 **State Level Technical Committee (SLTC)**

States/ UTs shall appoint SLTC which will be primarily responsible for technical appraisal of DPRs and tender documents. Before giving approval, SLTC will ensure availability of undisputed land for projects, inclusion of O&M for at least five years and last stretch of tap/ sewerage connectivity to households.

The indicative composition of the SLTC is given below.

1	Pr. Secretary (UD)/ Secretary (UD)	Chairman
2	Water Resources/Ground Water Department	Member
3	Public health department	Member
4	Electricity Department	Member
5	Finance Department	Member
6	State Mission Director	Member
7	Technical Head (e.g. Engineer-in-Chief) Urban Water Supply & Sewerage Board	Member Secretary
8	M.D. of Parastatal	Member

15.3.3 **Project Development and Management Consultant (PDMC)**

The PDMCs may be procured by the States/ UTs through a contract, model Request for Proposal (RfP) which is available in Mission toolkit. Each PDMC will have one State office at State capital comprising management and design professionals and multiple field offices comprising project implementation professionals. PDMC in place for AMRUT Mission can continue to work for AMRUT 2.0 at the discretion of State Mission Director.

The scope of PDMCs will broadly cover planning, design, supervision and management of projects. They will prepare CWBPs, CWAPs and SWAPs and carry out investigation, design, procurement, and implementation using PMIS / latest IT tools and techniques. They will help in monitoring physical & financial progress of projects and updating Mission portal. They will also help States/ UTs in conducting capacity building activities.

The PDMCs will examine convergence with other similar schemes in terms of coverage, fund flow, impact and outcomes. The scheduling of projects for next five years will be done in consultation with citizens. During the process of developing the SWAP, the PDMCs shall explore the possibility of Public Private Partnerships (PPP) in project implementation. PDMCs will prepare Detailed Project Reports (DPRs), which shall include financial plan and O&M strategy for complete life cycle of projects. Based on approved DPRs, PDMCs will provide bid documents and support States/ULBs in procurement of contracting firms. They will subsequently provide extensive support to ULBs/State parastatal for project implementation.

15.4 **ULB level**

At the city level, the ULB represented by Municipal Commissioner/ administrative head of ULB, etc. will be responsible for implementation for Mission. The responsibilities of ULB will be as under:

i. Submit City Water Balance Plans in time.
ii. Help State Mission Director/ PDMC in preparation of DPRs.
iii. Act for tendering and award of contracts as per financial rules & regulations and ensure timely completion of work under contract.
iv. Participate actively and provide necessary support for Pey Jal Survekshan.
v. Ensure that the reforms are achieved within timeline.

15.5 City Mission Management Units (CMMUs)

The States/ UTs may decide to appoint CMMUs comprising sector experts to support a city or a cluster of cities within the State.

15.6 District level

The Ministry of Housing & Urban Affairs has issued Guideline regarding District Level Advisory and Monitoring Committee (DLAMC) to be formed under District Magistrate (DM) to review and monitor several programs in urban sector including AMRUT 2.0. Elected representatives and representatives from ULBs and Gram Panchayats in the district will be the part of this committee. The Committee will monitor and review the implementation of AMRUT 2.0 projects in accordance with the applicable guidelines.

15.7 Audit and litigation matters

State Mission Directorate shall be responsible for all matters connected with C&AG Audit and litigation including cases before Courts/Tribunals and Arbitrators. State Mission Directorate shall be responsible for defending the Central Government interests on behalf of the National Mission Directorate, MoHUA.

15.8 Ongoing projects of AMRUT

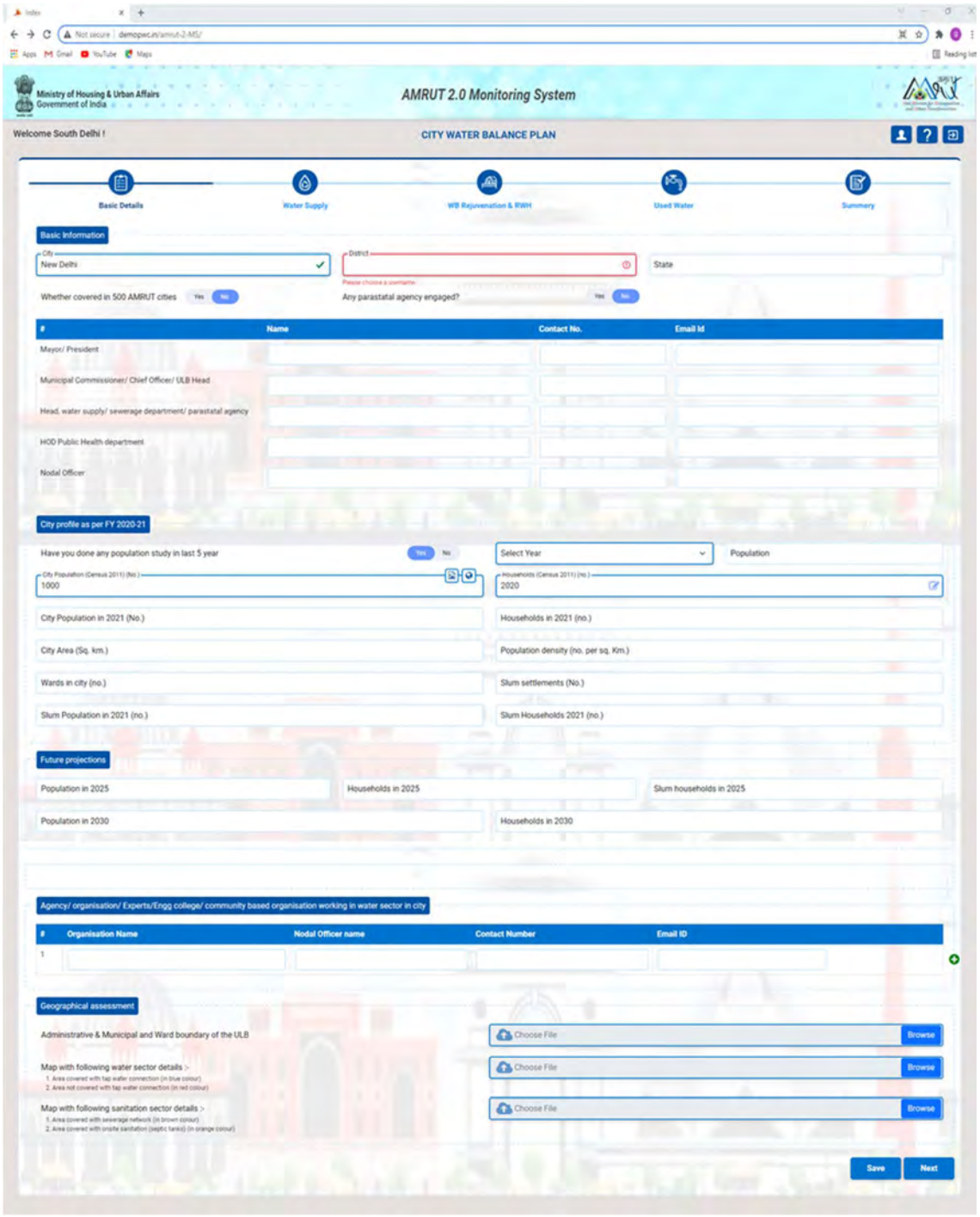
Ongoing AMRUT projects will continue to be funded as per AMRUT guidelines.

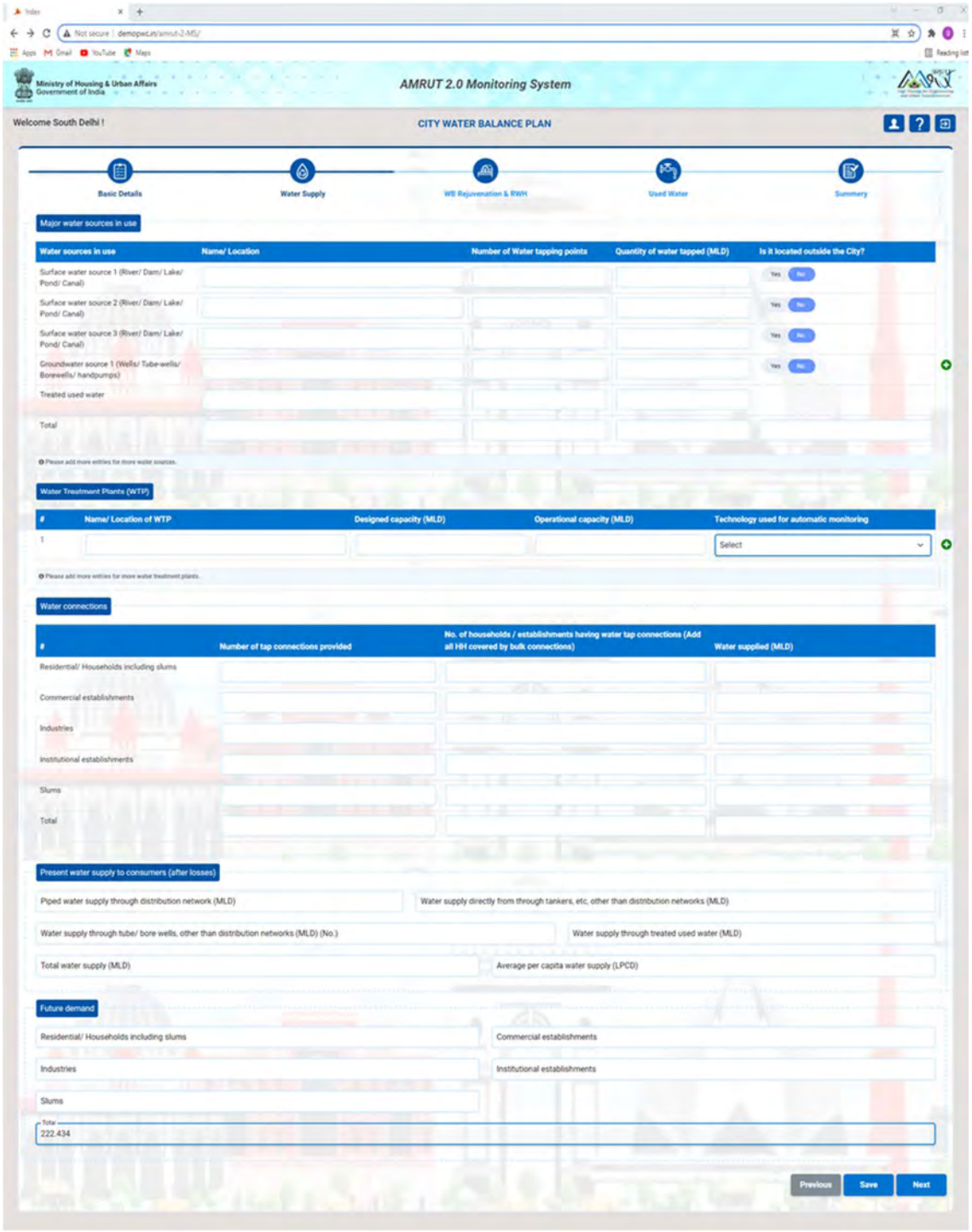
16 Indicative Annexures

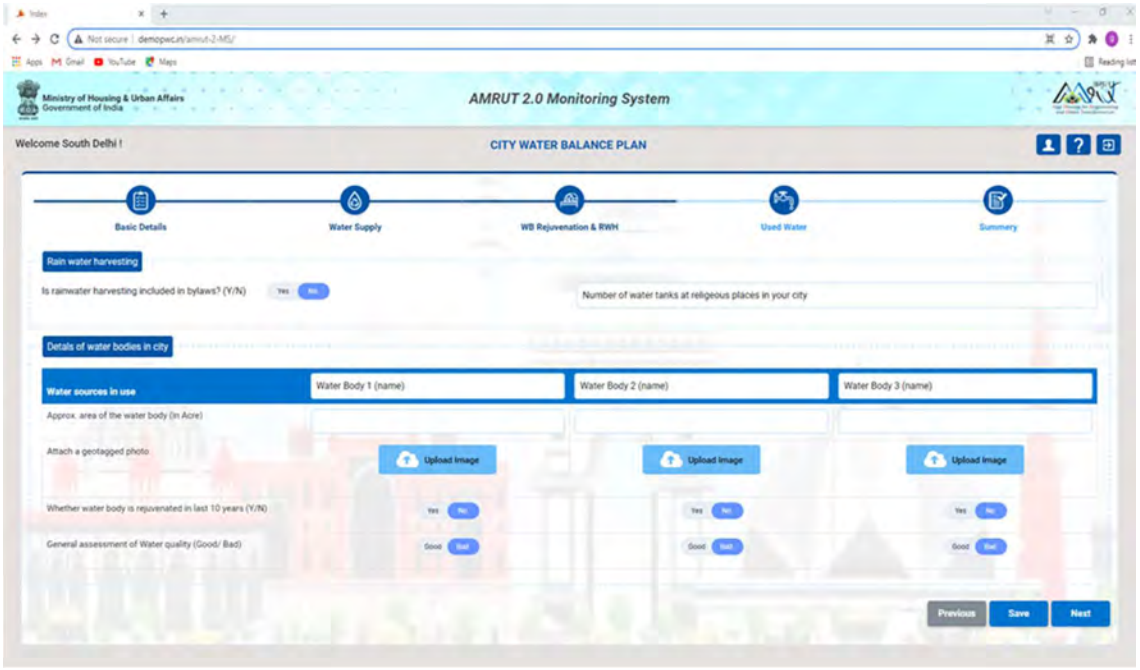
The annexures give indicative formats. The final formats will be made available through online portal developed by MoHUA.

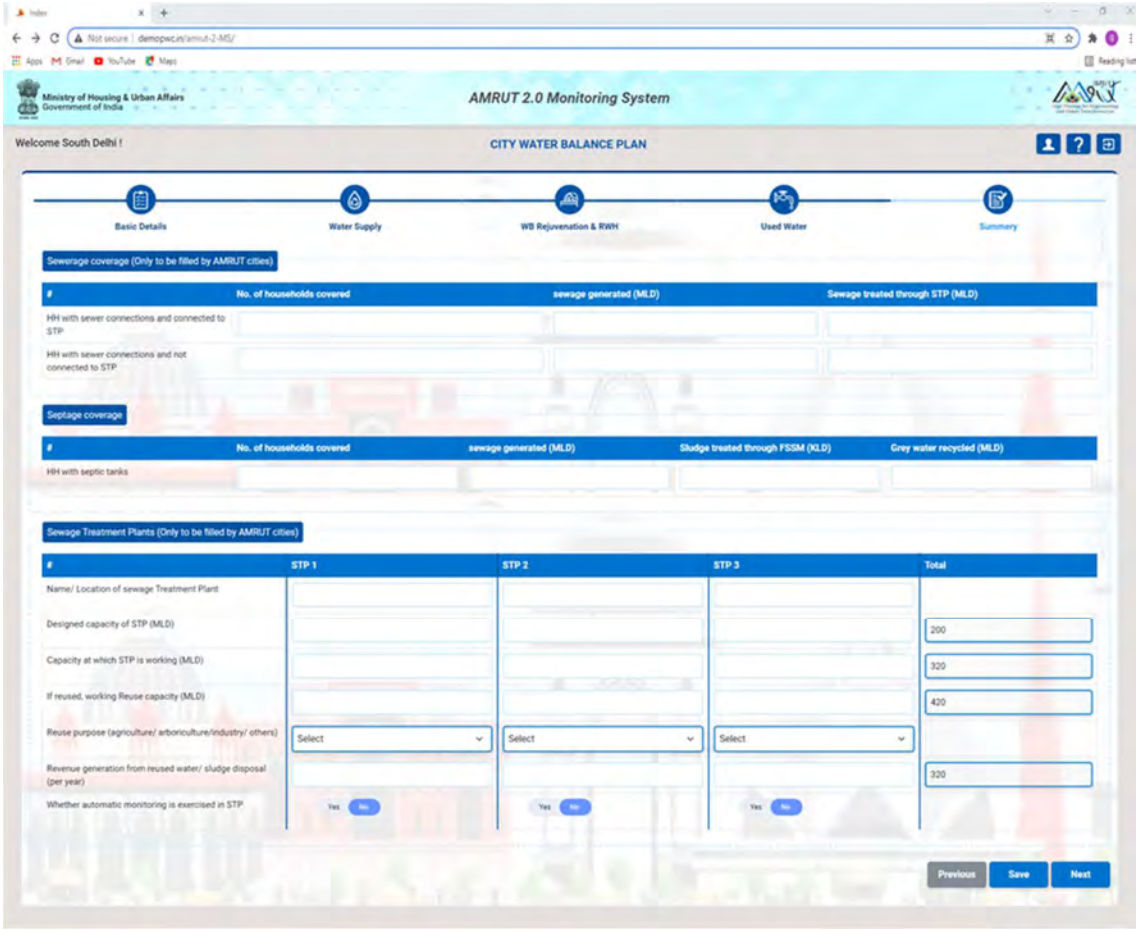
Annexure 1

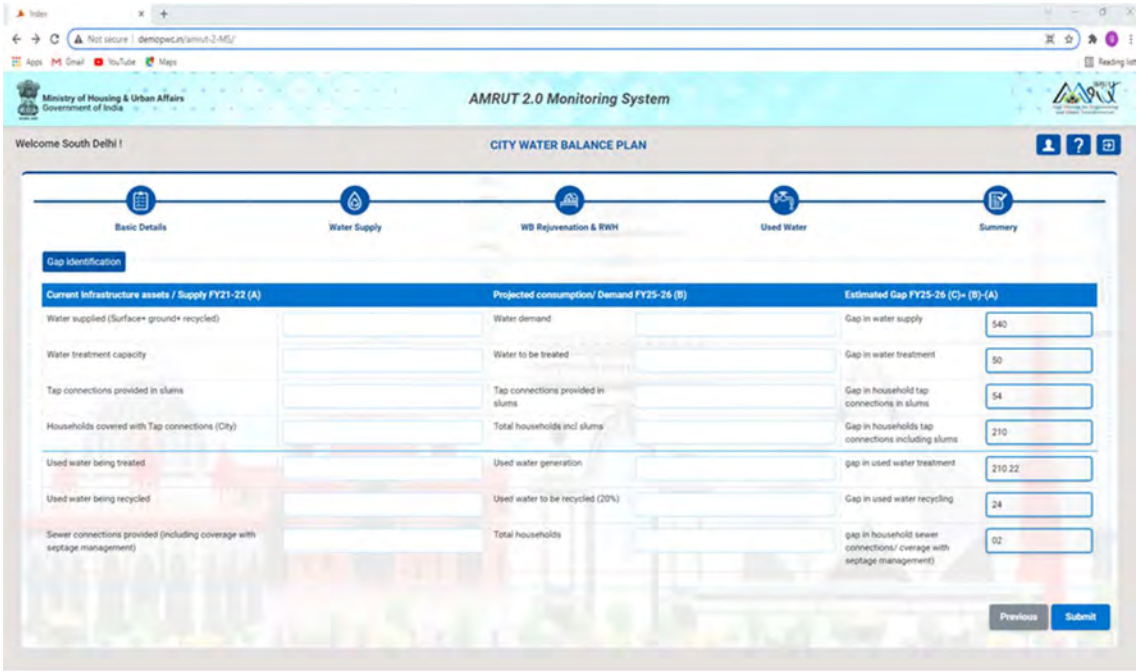
City Water Balance Plan




Ministry of Housing & Urban Affairs
Government of India
AMRUT 2.0 Monitoring System
Welcome South Delhi !
CITY WATER BALANCE PLAN
Basic Details
Water Supply
WB Rejuvenation & RWH
Used Water
Summery
Major water sources in use
Water sources in use
Name/ Location
Number of Water tapping points
Quantity of water tapped (MLD)
Is it located outside the City?
Surface water source 1 (River/ Dam/ Lake/ Pond/ Canal)
Surface water source 2 (River/ Dam/ Lake/ Pond/ Canal)
Surface water source 3 (River/ Dam/ Lake/ Pond/ Canal)
Groundwater source 1 (Wells/ Tube-wells/ Borewells/ handpumps)
Treated used water
Total
Water Treatment Plants (WTP)
#
Name/ Location of WTP
Designed capacity (MLD)
Operational capacity (MLD)
Technology used for automatic monitoring
Select
Water connections
Number of tap connections provided
No. of households / establishments having water tap connections (Add all HH covered by bulk connections)
Water supplied (MLD)
Residential/ Households including slums
Commercial establishments
Industries
Institutional establishments
Slums
Total
Present water supply to consumers (after losses)
Piped water supply through distribution network (MLD)
Water supply directly from through tankers, etc, other than distribution networks (MLD)
Water supply through tube/ bore wells, other than distribution networks (MLD) (No.)
Water supply through treated used water (MLD)
Total water supply (MLD)
Average per capita water supply (LPCD)
Future demand
Residential/ Households including slums
Commercial establishments
Industries
Institutional establishments
Slums
Total
222.434
Previous
Save
Next


Ministry of Housing & Urban Affairs
Government of India
AMRUT 2.0 Monitoring System
Welcome South Delhi !
CITY WATER BALANCE PLAN
Basic Details
Water Supply
WB Rejuvenation & RWH
Used Water
Summery
Rain water harvesting
Is rainwater harvesting included in bylaws? (Y/N)
Number of water tanks at religeous places in your city
Detals of water bodies in city
Water sources in use
Water Body 1 (name)
Water Body 2 (name)
Water Body 3 (name)
Approx. area of the water body (in Acre)
Attach a geotagged photo
Upload Image
Whether water body is rejuvenated in last 10 years (Y/N)
General assessment of Water quality (Good/ Bad)
Previous
Save
Next


Ministry of Housing & Urban Affairs
Government of India
AMRUT 2.0 Monitoring System
Welcome South Delhi !
CITY WATER BALANCE PLAN
Basic Details
Water Supply
WB Rejuvenation & RWH
Used Water
Summery
Sewerage coverage (Only to be filled by AMRUT cities)
No. of households covered
sewage generated (MLD)
Sewage treated through STP (MLD)
HH with sewer connections and connected to STP
HH with sewer connections and not connected to STP
Septage coverage
No. of households covered
sewage generated (MLD)
Sludge treated through FSSM (KLD)
Grey water recycled (MLD)
HH with septic tanks
Sewage Treatment Plants (Only to be filled by AMRUT cities)
STP 1
STP 2
STP 3
Total
Name/ Location of sewage Treatment Plant
Designed capacity of STP (MLD)
200
Capacity at which STP is working (MLD)
320
If reused, working Reuse capacity (MLD)
420
Reuse purpose (agriculture/ arboriculture/industry/ others)
Select
Revenue generation from reused water/ sludge disposal (per year)
320
Whether automatic monitoring is exercised in STP
Previous
Save
Next


Ministry of Housing & Urban Affairs
Government of India
AMRUT 2.0 Monitoring System
Welcome South Delhi !
CITY WATER BALANCE PLAN
Basic Details
Water Supply
WB Rejuvenation & RWH
Used Water
Summery
Gap identification
Current Infrastructure assets / Supply FY21-22 (A)
Projected consumption/ Demand FY25-26 (B)
Estimated Gap FY25-26 (C)= (B)-(A)
Water supplied (Surface+ ground+ recycled)
Water demand
Gap in water supply
540
Water treatment capacity
Water to be treated
Gap in water treatment
50
Tap connections provided in slums
Tap connections provided in slums
Gap in household tap connections in slums
54
Households covered with Tap connections (City)
Total households incl slums
Gap in households tap connections including slums
210
Used water being treated
Used water generation
gap in used water treatment
210.22
Used water being recycled
Used water to be recycled (20%)
Gap in used water recycling
24
Sewer connections provided (including coverage with septage management)
Total households
gap in household sewer connections/ cverage with septage management)
02
Previous
Submit

Annexure 2

City Water Action Plan (CWAP)

2(a) CWAP for Water supply projects

Name of city: _____					
Sl. No.	**Name of water supply project**	**Number of household water tap connections proposed under project (New, augmented, 24x7 water supply connections)**	**Ward number and name of locality covered under project**	**Estimated cost of the project (₹ Crore)**	**Other source of funding for projects under AMRUT 2.0 in addition (if any)**
Proposed under AMRUT 2.0					
					NA
					NA
Ongoing/ planned projects, other than AMRUT, funded through sources like State/ ULB owned funds, XV FC grants, external funding, PPP, etc.					

2(b) CWAP for Sewerage/ septage management projects (for AMRUT cities only)

Name of city: _____							
Sl. No.	**Name of sewerage/ septage management project**	**Number of household sewer/ septage connections proposed under project**	**Ward number and name of locality covered under project**	**Proposed recycle/ reuse of treated used water and buyer/ receiver**		**Estimated cost of the project (₹ Crore)**	**Other source of funding for projects under AMRUT 2.0in addition (if any)**
				Proposed recycle/ reuse (MLD)	Name of buyer/ receiver		
Proposed under AMRUT 2.0							
							NA
							NA
Ongoing/ planned projects, other than AMRUT, funded through sources like State/ ULB owned funds, XV FC grants, external funding, PPP, etc.							

2(c) CWAP for projects on Rejuvenation of water bodies and development of parks & green spaces

Name of city: _____						
Sl. No.	**Name of project on rejuvenation of water bodies/ parks**	**Identification of water body / park (Name and latitude -longitude)**	**Area of**		**Estimated cost of the project (₹ Crore)**	**Other source of funding for projects under AMRUT 2.0 in addition (if any)**
			water body (acre)	**Park (acre)**		
Proposed under AMRUT 2.0						
						NA
						NA
Ongoing/ planned projects, other than AMRUT, funded through sources like State/ ULB owned funds, XV FC grants, external funding, PPP, etc.						

2(d) Roadmap for water tap connections

Name of the City: ____														
Number of households in the city	**Number of households having functional water tap connections as on 1 Nov 2021 (Base line)**	**Number of households to be covered through AMRUT (Post 1 Nov 2021)**	**Gap in household water tap connections (a) - (b) - (c)**	**Year wise Connections proposed (FY)**										
				2021-22		**2022-23**		**2023-24**		**2024-25**		**2025-26**		
				AMRUT 2.0	**Other than AMRUT 2.0**	**AMRUT 2.0**	**Other than AMRUT 2.0**	**AMRUT 2.0**	**Other than AMRUT 2.0**	**AMRUT 2.0**	**Other than AMRUT 2.0**	**AMRUT 2.0**	**Other than AMRUT 2.0**	**Total of (e) to (n)**
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	

2(e) Roadmap for sewer/ septage connections (AMRUT cities only)

Name of the City: ____														
Number of households in the city	**Number of households having functional sewer / septage connections till 1 Nov 2021**	**Number of households to be covered through AMRUT (Post 1 Nov 2021)**	**Gap in household sewer / septage connections (a) - (b) - (c)**	**Year wise Connections proposed (FY)**										
				2021-22		**2022-23**		**2023-24**		**2024-25**		**2025-26**		
				AMRUT 2.0	**Other than AMRUT 2.0**	**AMRUT 2.0**	**Other than AMRUT 2.0**	**AMRUT 2.0**	**Other than AMRUT 2.0**	**AMRUT 2.0**	**Other than AMRUT 2.0**	**AMRUT 2.0**	**Other than AMRUT 2.0**	**Total of (e) to (n)**
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	

Annexure 3

3(a) State Water Action Plan (SWAP)

Name of State:_____

Sl. No.	Name of the City	Name of the project including Ward number and locality	Name of the sector	Number of new household connections, rehabilitated connections, connections provided with 24x7 water supply, as applicable proposed as applicable (To be left blank for water body rejuvenation and park projects)		Estimated cost of the project (₹ Crore)
				Tap connections	Sewer/ septage connections	

3(b) State Roadmap for achieving universal coverage of household water tap connections

Name of the State: ____														
Total Number of households in the State	**Total Number of households having functional water tap connections as on 1 Nov 2021**	**Number of households to be covered through AMRUT (Post 1 Nov 2021)**	**Total Gap in household water tap connections (a) - (b) - (c)**	**Year wise Connections proposed by State (FY)**										**Total of (e) to (n)**
				2021-22		**2022-23**		**2023-24**		**2024-25**		**2025-26**		
				AMRUT 2.0	Other than AMRUT 2.0/ AMRUT	AMRUT 2.0	Other than AMRUT 2.0/ AMRUT	AMRUT 2.0	Other than AMRUT 2.0/ AMRUT	AMRUT 2.0	Other than AMRUT 2.0/ AMRUT	AMRUT 2.0	Other than AMRUT 2.0/ AMRUT	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)

3(c) State Roadmap for achieving universal coverage of household sewer/septage connections

Name of the State: ____														
Total Number of households in the State	**Total Number of households having functional sewer connections as on 1 Nov 2021**	**Number of households to be covered through AMRUT (Post 1 Nov 2021)**	**Total Gap in household water tap connections (a) - (b) - (c)**	**Year wise Connections proposed by State (FY)**										**Total of (e) to (n)**
				2021-22		**2022-23**		**2023-24**		**2024-25**		**2025-26**		
				AMRUT 2.0	Other than AMRUT 2.0/ AMRUT	AMRUT 2.0	Other than AMRUT 2.0/ AMRUT	AMRUT 2.0	Other than AMRUT 2.0/ AMRUT	AMRUT 2.0	Other than AMRUT 2.0/ AMRUT	AMRUT 2.0	Other than AMRUT 2.0/ AMRUT	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)

3(d) State Roadmap for rejuvenation of water bodies and development of parks & green spaces

Name of city	Water bodies proposed for rejuvenation		Number of water bodies proposed to be rejuvenated under AMRUT 2.0							
			FY 2023-24		FY 2024-25		FY 2025-26		Total	
	Number of water bodies	Total area (Acre)	Number	Total area (Acre)	Number	Total area (Acre)	Number	Total area (Acre)	Number	Total area (Acre)

Name of city	Parks & green spaces proposed to be developed		Number of parks & green spaces to be developed							
			FY 2023-24		FY 2024-25		FY 2025-26		Total	
	Number of parks	Total area (Acre)	Number	Total area (Acre)	Number	Total area (Acre)	Number	Total area (Acre)	Number	Total area (Acre)

Annexure 4

A&OE action plan of State

Name of State :_ _____								
Sr. No.	**Items proposed**	**Proposed spending**						
		FY 2021-22	**FY 2022-23**	**FY 2023-24**	**FY 2024-25**	**FY 2025-26**	**Total**	
1.	Procurement of PDMC / SMMU/ CMMU for preparation of CWBPs, CWAPs, Aquifer management plans, DPRs, Bid documents							
2.	Capacity Building							
3.	Reform implementation							
4.	Publications (e-Newsletter, guidelines, brochures, etc.)							
5.	Others							

Annexure 5

Capacity Building plan of State (To be submitted with State A&OE plan of Action)

Name of State:													
	Targeted group for capacity building	**Suggested fields of capacity building**	**Year 1**		**Year 2**		**Year 3**		**Year 4**		**Year 5**		**Total (₹ crore)**
			No. of trainees	**Cost (₹ crore)**	**No. of trainees**	**Cost (₹ crore)**	**No. of trainees**	**Cost (₹ crore)**	**No. of trainees**	**Cost (₹ crore)**	**No. of trainees**	**Cost (₹ crore)**	
1	Elected representatives and Municipal functionaries	a. AMRUT 2.0 and its Reform agenda b. Recycle/ Reuse of treated used water, Rejuvenation of Water bodies, Rainwater harvesting. c. Project and financial management d. egovernance and soft skills											

2	Contractors and managers	a. Project and financial management b. Aspects of water & sewerage infrastructure and recycle of treated used water											
3	Plant operators, Plumbers and Workmen	a. O&M of water supply & sewerage networks and treatment plants b. Aspects of plumbing and plugging the leakages. c. RWH structures, NRW reduction,											
4	Citizens including Women	a. Management of Water Demand											

		b. Feedbacks on functional outcomes											
5	Town planners	a. Land monetization b. Form based planning, Local area plans and town planning scheme c. GIS based master plans											

Annexure 6

IEC action plan

Name of State :_ _____								
Sr. No.	**Elements proposed**	**Proposed spending**						**Remarks (If Any)**
		FY 2021-22	**FY 2022-23**	**FY 2023-24**	**FY 2024-25**	**FY 2025-26**	**Total**	
1.	**Mass Media** - TV, Radio, Newspapers, Movies, AMRUT 2.0 anthem, etc.							
2.	**Social media campaign** through- influencers, celebrities and recognition of Water Warriors							
3.	**Targeted marketing** through- **Collaterals** – Pamphlets, brochures, leaflets, snippets, **Outdoor publicity** – hoardings, banners, standees, wall paintings etc.							
4.	**Activations** – competition in institutions, local community							
5.	**Community engagement** through train the trainer							
6.	**Exhibition/ Melas** of success stories							

Annexure-2.1 AMRUT 2.O - FUNDING PATTERN

Amount in Cr.

SL . NO	ULB	Water supply			Water Body Rejuvenation & Park Sector			Sewerage & septage			Floating incentive fund (Cr)			Total Central Assistance	Total Project Cost
		Option 1			Option 1			Option 1							
		Central Assistance	State Share	Total Cost	Central Assista	State Share	Total Cost	Central Assistance	State Share	Total Cost	Central Assistance	State Share	Total Cost		
		A	B	C=A+B	D	E	F=D+E	G	H	I=G+H	J	K	L=J+K	M=A+D+G+J	N=C+F+I+L
1	Thiruvananthapuram (M Corp.)	51.75	103.50	155.25	8.21	16.42	24.63	51.70	103.40	155.11	43.08	86.15	129.23	154.74	464.22
2	Kozhikode (M Corp.)	52.80	105.60	158.39	4.79	9.58	14.36	55.51	111.01	166.52	46.85	93.70	140.55	159.94	479.83
3	Kochi	43.26	86.52	129.78	4.45	8.91	13.36	64.53	129.05	193.58	23.76	47.51	71.27	136.00	407.99
4	Kollam (M Corp.)	38.78	77.55	116.33	3.04	6.07	9.11	23.59	47.18	70.76	36.10	72.21	108.31	101.51	304.52
5	Kannur (M)	22.36	44.72	67.09	2.26	4.52	6.79	42.47	84.94	127.40	8.71	17.43	26.14	75.81	227.42
6	Thrissur	31.52	63.04	94.56	3.00	6.00	9.00	35.09	70.17	105.26	21.12	42.23	63.35	90.72	272.16
7	Alappuzha (M)	13.15	26.29	39.44	1.57	3.14	4.72	23.08	46.16	69.24	7.82	15.63	23.45	45.62	136.85
8	Palakkad	6.83	13.65	20.48	1.04	2.08	3.11	15.83	31.66	47.50	4.29	8.59	12.88	27.99	83.96
9	Guruvayoor	9.59	9.59	19.17	0.76	0.76	1.52	12.82	12.82	25.65	0.96	0.96	1.92	24.13	48.26
10	NON AMRUT CITIES (84 ULBS)	454.51	468.61	923.12	51.04	52.49	103.53				50.00	50.00	100.00	555.55	1,126.65
GRAND TOTAL		**724.54**	**999.07**	**1723.61**	**80.16**	**109.97**	**190.13**	**324.62**	**636.41**	**961.03**	**242.68**	**434.41**	**677.09**	1,372.00	3,551.86

Annexure-2.2 AMRUT 2.O - FUNDING PATTERN

Amount in Cr.

SL . NO	ULB	Water supply			Water Body Rejuvenation & Park Sector			Sewerage & septage			Floating incentive fund (Cr)			Total Central Assistance	Total Project Cost	Population	Project Cost in Rs. (R	Per person (Rs)
		Option 1			Option 1			Option 1										
		Central Assistance	State Share	Total Cost	Central Assistance	State Share	Total Cost	Central Assistance	State Share	Total Cost	Central Assistance	State Share	Total Cost					
		A	B	C=A+B	D	E	F=D+E	G	H	I=G+H	J	K	L=J+K	M=A+D+G+J	N=C+F+I+L			
1	Thiruvananthapuram (M Corp.)	51.75	103.50	155.25	8.21	16.42	24.63	51.70	103.40	155.11	43.08	86.15	129.23	154.74	464.22	788271	4,642,198,469.33	5,889.09
2	Kozhikode (M Corp.)	52.80	105.60	158.39	4.79	9.58	14.36	55.51	111.01	166.52	46.85	93.70	140.55	159.94	479.83	609224	4,798,305,114.14	7,876.09
3	Kochi	43.26	86.52	129.78	4.45	8.91	13.36	64.53	129.05	193.58	23.76	47.51	71.27	136.00	407.99	602046	4,079,924,184.86	6,776.76
4	Kollam (M Corp.)	38.78	77.55	116.33	3.04	6.07	9.11	23.59	47.18	70.76	36.10	72.21	108.31	101.51	304.52	388288	3,045,161,961.26	7,842.53
5	Kannur (M)	22.36	44.72	67.09	2.26	4.52	6.79	42.47	84.94	127.40	8.71	17.43	26.14	75.81	227.42	232486	2,274,159,035.26	9,781.92
6	Thrissur	31.52	63.04	94.56	3.00	6.00	9.00	35.09	70.17	105.26	21.12	42.23	63.35	90.72	272.16	315957	2,721,586,965.59	8,613.79
7	Alappuzha (M)	13.15	26.29	39.44	1.57	3.14	4.72	23.08	46.16	69.24	7.82	15.63	23.45	45.62	136.85	180856	1,368,461,036.02	7,566.58
8	Palakkad	6.83	13.65	20.48	1.04	2.08	3.11	15.83	31.66	47.50	4.29	8.59	12.88	27.99	83.96	131019	839,645,628.76	6,408.58
9	Guruvayoor	9.59	9.59	19.17	0.76	0.76	1.52	12.82	12.82	25.65	0.96	0.96	1.92	24.13	48.26	70012	482,596,354.35	6,893.05
10	NON AMRUT CITIES (84 ULBS)	454.51	468.61	923.12	51.04	52.49	103.53				50.00	50.00	100.00	555.55	1,126.65			
GRAND TOTAL		724.54	999.07	1723.61	80.16	109.97	190.13	324.62	636.41	961.03	242.68	434.41	677.09	1,372.00	3,551.86			

Annexure 2.3- WATER SUPPLY - TENTATIVE FUND ALLOCATION PATTERNS

Amount in Cr.

SL . NO	ULB	Option 1 = 0.75A+0.25B (A- Need based Gap- connection: Quality : Quantity -50:25:25 B- Population: Area-90:10)			Option 2 (Need based Gap) connection: Quality : Quantity -50:25:25)		
		Central assistance	State Share	Total	Central assistance	State Share	Total
AMRUT CITIES							
1	Thiruvananthapuram (M Corp.)	51.75	103.50	155.25	43.61	87.23	130.84
2	Kozhikode (M Corp.)	52.80	105.60	158.39	51.71	103.43	155.14
3	Kochi	43.26	86.52	129.78	39.39	78.77	118.16
4	Kollam (M Corp.)	38.78	77.55	116.33	39.80	79.61	119.41
5	Kannur (M)	22.36	44.72	67.09	22.42	44.85	67.27
6	Thrissur	31.52	63.04	94.56	32.03	64.05	96.08
7	Alappuzha (M)	13.15	26.29	39.44	11.89	23.79	35.68
8	Palakkad	6.83	13.65	20.48	5.08	10.16	15.23
9	Guruvayoor	9.59	9.59	19.17	10.51	10.51	21.02
NON AMRUT CITIES							
10	Neeleswaram	5.59	5.59	11.17	6.08	6.08	12.16
11	Kanhangad (M)	10.02	10.02	20.04	10.91	10.91	21.82
12	Kasaragod (M)	5.33	5.33	10.66	5.40	5.40	10.80
13	Payyannur (M)	10.82	10.82	21.65	11.90	11.90	23.81
14	Thalassery (M)	11.09	11.09	22.18	11.89	11.89	23.79
15	Panoor	8.22	8.22	16.45	9.06	9.06	18.12
16	Mattannur (M)	6.35	6.35	12.71	6.68	6.68	13.36
17	Iritty	5.25	5.25	10.51	5.47	5.47	10.95
18	Sreekandapuram	4.73	4.73	9.46	4.80	4.80	9.60
19	Koothuparamba (M)	4.21	4.21	8.42	4.54	4.54	9.08
20	Taliparamba (M)	2.93	2.93	5.87	2.47	2.47	4.95
21	Anthoor	3.12	3.12	6.23	3.14	3.14	6.29
22	Mananthavadi	7.52	7.52	15.03	8.59	8.59	17.17
23	Sultan Bathery	6.60	6.60	13.20	6.68	6.68	13.35
24	Kalpetta (M)	2.48	2.48	4.96	2.07	2.07	4.14
25	Quilandy (M)	10.11	10.11	20.23	11.16	11.16	22.33
26	Vadakara (M)	6.60	6.60	13.20	6.28	6.28	12.56
27	Koduvally	6.61	6.61	13.22	7.21	7.21	14.42
28	Payyoli	7.02	7.02	14.04	7.75	7.75	15.49
29	Mukkam	5.72	5.72	11.44	6.20	6.20	12.40
30	Ramanattukara	4.07	4.07	8.13	4.28	4.28	8.57
31	Feroke	4.49	4.49	8.98	4.29	4.29	8.58
32	Manjeri (M)	10.65	10.65	21.30	10.96	10.96	21.92
33	Ponnani (M)	9.52	9.52	19.03	9.87	9.87	19.74
34	Parappananangadi	9.86	9.86	19.72	10.89	10.89	21.78
35	Tanur	9.43	9.43	18.85	10.39	10.39	20.78
36	Kondotty	7.73	7.73	15.47	8.35	8.35	16.69
37	Tirurangadi	6.63	6.63	13.25	7.05	7.05	14.09
38	Valancherry	6.07	6.07	12.14	6.62	6.62	13.25
39	Tirur (M)	5.55	5.55	11.10	5.63	5.63	11.27
40	Nilambur	4.85	4.85	9.69	4.83	4.83	9.66
41	Kottakkal	6.76	6.76	13.53	7.45	7.45	14.89
42	Perinthalmanna (M)	4.64	4.64	9.27	4.46	4.46	8.93
43	Malappuram (M)	3.43	3.43	6.87	2.33	2.33	4.66

44	Pattambi (New)	3.20	3.20	6.41	3.31	3.31	6.63
45	Chittoor	3.62	3.62	7.24	3.76	3.76	7.53
46	Ottappalam	4.90	4.90	9.80	4.71	4.71	9.42
47	Mannarkkad (New)	2.63	2.63	5.26	2.47	2.47	4.94
48	Shornur	4.21	4.21	8.42	4.10	4.10	8.19
49	Cheruppulasserry (New)	4.76	4.76	9.53	4.94	4.94	9.88
50	Kodungalloor	6.66	6.66	13.32	6.59	6.59	13.17
51	Wadakkancherry (New)	9.15	9.15	18.30	10.01	10.01	20.02
52	Kunnamkulam	7.23	7.23	14.47	7.80	7.80	15.60
53	Iringalakuda	6.96	6.96	13.92	7.26	7.26	14.52
54	Chalakkudy	5.67	5.67	11.33	5.92	5.92	11.83
55	Chavakkad	5.12	5.12	10.24	5.59	5.59	11.18
56	Thrippunithura	5.72	5.72	11.44	4.70	4.70	9.41
57	Kalamassery	6.39	6.39	12.79	6.25	6.25	12.50
58	Thrikkakkara	3.60	3.60	7.21	2.66	2.66	5.33
59	Eloor	3.35	3.35	6.69	3.31	3.31	6.61
60	Kothamangalam	3.17	3.17	6.33	2.78	2.78	5.56
61	Angamali	2.84	2.84	5.69	2.60	2.60	5.20
62	Perumbavoor	2.42	2.42	4.84	2.17	2.17	4.35
63	Piravom (New)	2.56	2.56	5.13	2.34	2.34	4.69
64	Muvattupuzha	1.81	1.81	3.62	1.42	1.42	2.85
65	Maradu	2.78	2.78	5.56	2.31	2.31	4.62
66	Koothattukulam	1.81	1.81	3.61	1.72	1.72	3.44
67	Paravoor (North)	2.37	2.37	4.73	2.17	2.17	4.34
68	Aluva	1.13	1.13	2.26	0.80	0.80	1.60
69	Kattappana (New)	6.19	6.19	12.37	6.60	6.60	13.19
70	Thodupuzha	4.45	4.45	8.89	4.14	4.14	8.28
71	Ettumanoor	8.39	8.39	16.79	9.48	9.48	18.97
72	Kottayam (M)	14.09	28.19	42.28	14.33	28.66	42.99
73	Erattupetta	3.52	3.52	7.05	3.79	3.79	7.59
74	Changanassery (M)	5.45	5.45	10.90	5.52	5.52	11.05
75	Palai (M)	2.52	2.52	5.03	2.58	2.58	5.17
76	Vaikom (M)	2.67	2.67	5.33	2.81	2.81	5.62
77	Mavelikkara (M)	3.64	3.64	7.28	3.95	3.95	7.91
78	Chengannur (M)	2.51	2.51	5.03	2.56	2.56	5.12
79	Kayamkulam (M)	7.23	7.23	14.47	7.41	7.41	14.83
80	Cherthala (M)	4.25	4.25	8.51	4.21	4.21	8.43
81	Haripad	4.01	4.01	8.02	4.29	4.29	8.58
82	Thiruvalla (M)	5.52	5.52	11.05	5.61	5.61	11.21
83	Pandalam	5.05	5.05	10.10	5.19	5.19	10.37
84	Pathanamthitta (M)	4.60	4.60	9.21	4.86	4.86	9.72
85	Adoor (M)	3.97	3.97	7.93	4.28	4.28	8.55
86	Karunagapally	5.30	5.30	10.59	5.61	5.61	11.23
87	Kottarakkara	4.64	4.64	9.29	5.18	5.18	10.36
88	Punalur (M)	3.59	3.59	7.19	3.16	3.16	6.33
89	Paravoor (M)	5.04	5.04	10.08	5.51	5.51	11.02
90	Nedumangad (M)	3.82	3.82	7.64	3.09	3.09	6.18
91	Neyyattinkara (M)	9.54	9.54	19.08	10.44	10.44	20.88
92	Varkala (M)	3.63	3.63	7.26	3.55	3.55	7.11
93	Attingal (M)	2.81	2.81	5.62	2.52	2.52	5.04
NON AMRUT CITIES - TOTAL		**454.51**	**468.61**	**923.12**	**468.09**	**482.42**	**950.52**
GRAND TOTAL		**724.54**	**999.07**	**1,723.61**	**724.54**	**984.81**	**1,709.35**

ANNEXURE-2.5 -AMRUT 2.0 - WATER SUPPLY - TENTATIVE FUND ALLOCATION BASED ON DOMESTIC & NON DOMESTIC WATER SUPPLY (CA- Rs. 724.54 Cr)

	Name of District	Name of ULB	Region Name	Household, Population & Area						Water Supplied-Domestic			Future Water Demand 2025			Gap in Water Supply- Domestic & Non Domestic		GAP in water quality-Domestic & Non Domestic				Gap in water Connection- Domestic				B (Population: Area-90:10)			OPTION 2 (Need based Gap) connection: Quality : Quantity -50:25:25)							OPTION 1=0.75A+0.25B (A- Need based Gap- connection: Quality : Quantity -50:25:25 B- Population: Area-90:10)					
				City Population (Census 2011)	City Population in 2021	City Population in 2025	Households (Census 2011) (No.)	Households in 2021 (No.)	Households in 2025 (No.)	Domestic(Households including slums)	Non domestic(Institutional, commercial & Industries)	Total	Domestic(Households including slums)	Non domestic(Institutional, commercial & Industries)	Total	Gap in WS-Households including slums(based on 150 LPCD)-2025	Gap % Domestic & Non domestic	Present Water Treatment Capacity	Water to be Treated as per CWBP	Gap in Water Treatment as per CWBP	Gap in water quality% (Domestic & Non domestic)	Present-Households Covered with Tap Connections (City)	2025-Total Households Including Slums	Gap in Households Tap Connections Including Slums	Gap in Connection %(Domestic connections)	Weightage for Population (@90%)	Weightage for Area (@10%)	Total Weightage	Weightage for Gap in Connection (@50%)	Weightage for Gap in treatment (@25%)	Weightage for Gap in water supply (@25%)	Total Weightage	Total Weightage Based Central Share of Fund	State Share	Total Fund	Need based Gap- Total Weightage(connection: Quality : Quantity - 50:25:25) 75%	Population & Area based- Total Weightage(90:10) 25%	Total weightage(Need based Gap@75% and Population & Area @25%)	Total Weightage Based Central Share of Fund	State Share	Total Fund
										A	B	C=A+B	D	E	F=D+E	G=F-A	H=G/Total G	J	K	L=K-J	M=L/ L Total	N	O	P=O-N	R=P/Ptotal	S=90%	T=10%	U=S+T	W= R*50%	X= M*25%	Y= H*25%	Z=W+X+Y	A1=Z*7 24.54			8	9	10	11	12	13
AMRUT 1.0 CITIES																																									
1	Thiruvananthapuram	Thiruvananthapuram (M Corp.)	South	788271	957675	1121069	196202	292022	385598	126.850	39.800	166.650	168.160	58.475	226.635	59.985	5.45%	382.800	226.635	0.000	0.00%	253737	385598	131861	9.32%	9.52%	0.99%	10.51%	4.66%	0.00%	1.36%	6.02%	43.61	87.23	130.84	4.51%	2.63%	7.14%	51.75	103.50	155.25
2	Kozhikode	Kozhikode (M Corp.)	North	609224	731069	789555	150426	180511	194952	44.115	17.706	61.821	118.433	22.133	140.566	78.745	7.15%	105.000	140.566	35.566	4.11%	72617	194952	122335	8.64%	7.36%	0.38%	7.74%	4.32%	1.03%	1.79%	7.14%	51.71	103.43	155.14	5.35%	1.93%	7.29%	52.80	105.60	158.39
3	Ernamkulam	Kochi	Central	602046	722455	780251	148653	178384	192655	102.600	30.000	132.600	173.000	65.000	238.000	105.400	9.57%	200.000	238.000	38.000	4.40%	137617	192655	55038	3.89%	7.27%	0.30%	7.57%	1.94%	1.10%	2.39%	5.44%	39.39	78.77	118.16	4.08%	1.89%	5.97%	43.26	86.52	129.78
4	Kollam	Kollam (M Corp.)	South	388288	465946	503222	98396	115048	124252	30.070	2.500	32.570	74.560	2.950	77.510	44.940	4.08%	11.000	77.510	66.510	7.69%	52062	124252	72190	5.10%	4.69%	0.24%	4.93%	2.55%	1.92%	1.02%	5.49%	39.80	79.61	119.41	4.12%	1.23%	5.35%	38.78	77.55	116.33
5	Kannur	Kannur (M)	North	232486	248514	254926	61883	112000	114935	16.576	9.493	26.069	38.239	11.867	50.106	24.037	2.18%	34.000	50.106	16.106	1.86%	55950	114935	58985	4.17%	2.81%	0.25%	3.06%	2.08%	0.47%	0.55%	3.10%	22.42	44.85	67.27	2.32%	0.77%	3.09%	22.36	44.72	67.09
6	Thrissur	Thrissur	Central	315957	379148	409480	78014	93617	101106	26.116	5.600	31.716	82.000	7.500	89.500	57.784	5.25%	37.700	89.500	51.800	5.99%	55518	101106	45588	3.22%	3.82%	0.32%	4.14%	1.61%	1.50%	1.31%	4.42%	32.03	64.05	96.08	3.32%	1.04%	4.35%	31.52	63.04	94.56
7	Alappuzha	Alappuzha (M)	South	180856	217027	234389	44656	53587	57874	21.580	3.600	25.180	35.160	6.980	42.140	16.960	1.54%	26.000	42.140	16.140	1.87%	35519	57874	22355	1.58%	2.18%	0.15%	2.33%	0.79%	0.47%	0.39%	1.64%	11.89	23.79	35.68	1.23%	0.58%	1.81%	13.15	26.29	39.44
8	Palakkad	Palakkad	Central	131019	157223	169801	32350	38820	41926	12.800	7.200	20.000	30.000	9.450	39.450	19.450	1.77%	66.500	39.450	0.000	0.00%	34588	41926	7338	0.52%	1.58%	0.08%	1.67%	0.26%	0.00%	0.44%	0.70%	5.08	10.16	15.23	0.53%	0.42%	0.94%	6.83	13.65	20.48
9	Thrissur	Guruvayoor	Central	70012	84014	90735	17287	20744	22404	4.000	1.000	5.000	15.900	13.000	28.900	23.900	2.17%	23.000	28.900	5.900	0.68%	1540	22404	20864	1.47%	0.85%	0.10%	0.94%	0.74%	0.17%	0.54%	1.45%	10.51	10.51	21.02	1.09%	0.24%	1.32%	9.59	9.59	19.17
AMRUT 2.0 CITIES																																									
Kasaragod																																				0.00%	0.00%		0.00		
10	Kasaragod	Neeleswaram	North	39752	47702	51518	9815	11778	12720	0.590	0.000	0.590	7.728	0.750	8.478	7.888	0.72%	0.000	8.478	8.478	0.98%	971	12720	11749	0.83%	0.48%	0.09%	0.57%	0.42%	0.25%	0.18%	0.84%	6.08	6.08	12.16	0.63%	0.14%	0.77%	5.59	5.59	11.17
11	Kasaragod	Kanhangad (M)	North	73536	88243	95302	18157	21788	23531	0.821	0.289	1.110	14.295	0.362	14.657	13.547	1.23%	0.000	14.657	14.657	1.70%	1617	23531	21914	1.55%	0.89%	0.13%	1.01%	0.77%	0.42%	0.31%	1.51%	10.91	10.91	21.82	1.13%	0.25%	1.38%	10.02	10.02	20.04
12	Kasaragod	Kasaragod (M)	North	54172	54700	55462	13376	13506	18375	2.709	1.225	3.934	8.319	1.531	9.850	5.916	0.54%	5.200	9.850	4.650	0.54%	4886	18375	13489	0.95%	0.65%	0.05%	0.71%	0.48%	0.13%	0.13%	0.75%	5.40	5.40	10.80	0.56%	0.18%	0.74%	5.33	5.33	10.66
Kannur																														0.00%											
13	Kannur	Payyannur (M)	North	72131	90684	98105	17061	25875	29490	1.279	0.215	1.494	14.716	0.519	15.235	13.741	1.25%	2.000	15.235	13.235	1.53%	2643	29490	26847	1.90%	0.87%	0.18%	1.05%	0.95%	0.38%	0.31%	1.64%	11.90	11.90	23.81	1.23%	0.26%	1.49%	10.82	10.82	21.65
14	Kannur	Thalassery (M)	North	92864	111437	120352	22929	27515	29717	2.710	0.965	3.675	18.053	1.207	19.260	15.585	1.42%	4.800	19.260	14.460	1.67%	5096	29717	24621	1.74%	1.12%	0.08%	1.20%	0.87%	0.42%	0.35%	1.64%	11.89	11.89	23.79	1.23%	0.30%	1.53%	11.09	11.09	22.18
15	Kannur	Panoor	North	57730	69276	74818	14254	17105	18474	0.111	0.045	0.156	11.223	0.556	11.779	11.623	1.06%	0.000	11.779	11.779	1.36%	183	18474	18291	1.29%	0.70%	0.09%	0.79%	0.65%	0.34%	0.26%	1.25%	9.06	9.06	18.12	0.94%	0.20%	1.14%	8.22	8.22	16.45
16	Kannur	Mattannur (M)	North	47196	56635	61166	11653	13984	15103	1.123	0.334	1.457	9.175	0.418	9.593	8.136	0.74%	0.000	9.593	9.593	1.11%	2091	15103	13012	0.92%	0.57%	0.17%	0.74%	0.46%	0.28%	0.18%	0.92%	6.68	6.68	13.36	0.69%	0.19%	0.88%	6.35	6.35	12.71
17	Kannur	Iritty	North	40369	48443	52318	9968	11961	12918	0.999	0.575	1.574	7.848	0.969	8.817	7.243	0.66%	2.000	8.817	6.817	0.79%	1763	12918	11155	0.79%	0.49%	0.15%	0.63%	0.39%	0.20%	0.16%	0.76%	5.47	5.47	10.95	0.57%	0.16%	0.73%	5.25	5.25	10.51
18	Kannur	Sreekandapuram	North	33489	37826	42568	8211	8897	9645	0.417	0.198	0.615	6.385	0.498	6.883	6.268	0.57%	0.000	6.883	6.883	0.80%	546	9645	9099	0.64%	0.40%	0.22%	0.62%	0.32%	0.20%	0.14%	0.66%	4.80	4.80	9.60	0.50%	0.16%	0.65%	4.73	4.73	9.46
19	Kannur	Koothuparamba (M)	North	32405	38886	41997	8001	9601	10370	0.775	0.220	0.995	6.300	0.778	7.078	6.083	0.55%	1.300	7.078	5.778	0.67%	1275	10370	9095	0.64%	0.39%	0.05%	0.45%	0.32%	0.17%	0.14%	0.63%	4.54	4.54	9.08	0.47%	0.11%	0.58%	4.21	4.21	8.42
20	Kannur	Taliparamba (M)	North	44247	48672	50619	11881	12892	12499	3.986	0.579	4.565	7.593	0.974	8.567	4.002	0.36%	6.000	8.567	2.567	0.30%	7503	12499	4996	0.35%	0.53%	0.06%	0.59%	0.18%	0.07%	0.09%	0.34%	2.47	2.47	4.95	0.26%	0.15%	0.40%	2.93	2.93	5.87
21	Kannur	Anthoor	North	28218	33862	36571	6967	8361	9030	1.497	0.150	1.647	5.486	0.438	5.924	4.277	0.39%	2.140	5.924	3.784	0.44%	2590	9030	6440	0.45%	0.34%	0.08%	0.42%	0.23%	0.11%	0.10%	0.43%	3.14	3.14	6.29	0.33%	0.10%	0.43%	3.12	3.12	6.23
Wayanad																														0.00%	0.00%										
22	Wayanad	Mananthavadi	North	47974	54536	83000	11845	13466	22750	2.430	0.150	2.580	12.450	0.875	13.325	10.745	0.98%	3.500	13.325	9.825	1.14%	4150	22750	18600	1.31%	0.58%	0.01%	0.59%	0.66%	0.28%	0.24%	1.19%	8.59	8.59	17.17	0.89%	0.15%	1.04%	7.52	7.52	15.03
23	Wayanad	Sultan Bathery	North	45417	54500	58860	11214	13457	14533	0.768	0.194	0.962	8.829	0.493	9.322	8.360	0.76%	0.000	9.322	9.322	1.08%	1452	14533	13081	0.92%	0.55%	0.33%	0.88%	0.46%	0.27%	0.19%	0.92%	6.68	6.68	13.35	0.69%	0.22%	0.91%	6.60	6.60	13.20
24	Wayanad	Kalpetta (M)	North	31580	33964	35156	7798	8386	8680	2.211	1.096	3.307	5.273	1.371	6.644	3.337	0.30%	4.300	6.644	2.344	0.27%	4656	8680	4024	0.28%	0.38%	0.13%	0.51%	0.14%	0.07%	0.08%	0.29%	2.07	2.07	4.14	0.21%	0.13%	0.34%	2.48	2.48	4.96
Kozhikode																														0.00%	0.00%										
25	Kozhikode	Quilandy (M)	North	71929	86315	93220	17760	21312	23017	0.194	0.000	0.194	13.500	0.900	14.400	14.206	1.29%	0.000	14.400	14.400	1.67%	319	23017	22698	1.60%	0.87%	0.09%	0.96%	0.80%	0.42%	0.32%	1.54%	11.16	11.16	22.33	1.16%	0.24%	1.40%	10.11	10.11	20.23
26	Kozhikode	Vadakara (M)	North	80356	96427	104141	19841	23809	25714	6.757	1.512	8.269	15.621	1.890	17.511	9.242	0.84%	11.000	17.511	6.511	0.75%	12453	25714	13261	0.94%	0.97%	0.07%	1.04%	0.47%	0.19%	0.21%	0.87%	6.28	6.28	12.56	0.65%	0.26%	0.91%	6.60	6.60	13.20
27	Kozhikode	Koduvally	North	48687	58424	63098	12021	14426	15580	0.815	0.156	0.971	9.465	0.445	9.910	8.939	0.81%	0.000	9.910	9.910	1.15%	1269	15580	14311	1.01%	0.59%	0.08%	0.66%	0.51%	0.29%	0.20%	1.00%	7.21	7.21	14.42	0.75%	0.17%	0.91%	6.61	6.61	13.22
28	Kozhikode	Payyoli	North	49470	59364	64113	12215	14658	15830	0.158	0.007	0.165	9.617	0.509	10.126	9.961	0.90%	0.000	10.126	10.126	1.17%	260	15830	15570	1.10%	0.60%	0.07%	0.67%	0.55%	0.29%	0.23%	1.07%	7.75	7.75	15.49	0.80%	0.17%	0.97%	7.02	7.02	14.04
29	Kozhikode	Mukkam	North	40670	48804	52708	10042	12050	13014	0.547	0.155	0.702	7.906	0.694	8.600	7.898	0.72%	0.000	8.600	8.600	0.99%	900	13014	12114	0.86%	0.49%	0.10%	0.59%	0.43%	0.25%	0.18%	0.86%	6.20	6.20	12.40	0.64%	0.15%	0.79%	5.72	5.72	11.44
30	Kozhikode	Ramanattukara	North	35937	43124	46574	8873	10648	11500	1.712	1.911	3.623	6.986	2.639	9.625	6.002	0.55%	4.500	9.625	5.125	0.59%	2818	11500	8682	0.61%	0.43%	0.04%	0.47%	0.31%	0.15%	0.14%	0.59%	4.28	4.28	8.57	0.44%	0.12%	0.56%	4.07	4.07	8.13
31	Kozhikode	Feroke	North	54074	64889	70080	13352	16022	17304	4.712	0.319	5.031	10.512	0.399	10.911	5.880	0.53%	6.500	10.911	4.411	0.51%	7939	17304	9365	0.66%	0.65%	0.05%	0.70%	0.33%	0.13%	0.13%	0.59%	4.29	4.29	8.58	0.44%	0.18%	0.62%	4.49	4.49	8.98
Malappuram																														0.00%	0.00%										
32	Malappuram	Manjeri (M)	North	97102	116522	125844	23976	28771	31073	5.037	0.000	5.037	18.877	0.750	19.627	14.590	1.33%	6.600	19.627	13.027	1.51%	8292	31073	22781	1.61%	1.17%	0.17%	1.34%	0.80%	0.38%	0.33%	1.51%	10.96	10.96	21.92	1.13%	0.34%	1.47%	10.65	10.65	21.30
33	Malappuram	Ponnani (M)	North	90491	108589	117276	22343	26812	28957	4.760	0.461	5.221	17.591	0.830	18.421	13.200	1.20%	7.000	18.417	11.417	1.32%	8221	28957	20736	1.46%	1.09%	0.07%	1.17%	0.73%	0.33%	0.30%	1.36%	9.87	9.87	19.74	1.02%	0.29%	1.31%	9.52	9.52	19.03
34	Malappuram	Parappananangadi	North	71239	85487	92326	17590	21108	22797	0.372	0.054	0.426	13.849	0.568	14.417	13.991	1.27%	0.450	14.417	13.967	1.62%	667	22797	22130	1.56%	0.86%	0.07%	0.93%	0.78%	0.40%	0.32%	1.50%	10.89	10.89	21.78	1.13%	0.23%	1.36%	9.86	9.86	19.72
35	Malappuram	Tanur	North	69534	83441	90116	17169	20603	22251	0.703	0.292	0.995	13.517	0.370	13.887	12.892	1.17%	0.000	13.882	13.882	1.61%	1304	22251	20947	1.48%	0.84%	0.06%	0.90%	0.74%	0.40%	0.29%	1.43%	10.39	10.39	20.78	1.08%	0.23%	1.30%	9.43	9.43	18.85
36	Malappuram	Kondotty	North	59256	71107	76796	14631	17557	18962	1.559	0.050	1.609	11.519	0.313	11.832	10.223	0.93%	0.000	11.832	11.832	1.37%	2612	18962	16350	1.16%	0.72%	0.10%	0.81%	0.58%	0.34%	0.23%	1.15%	8.35	8.35	16.69	0.86%	0.20%	1.07%	7.73	7.73	15.47
37	Malappuram	Tirurangadi	North	56632	67958	73395	13983	16780	18122	2.314	0.197	2.511	11.009	0.500	11.509	8.998	0.82%	3.000	11.505	8.505	0.98%	3337	18122	14785	1.04%	0.68%	0.06%	0.74%	0.52%	0.25%	0.20%	0.97%	7.05	7.05	14.09	0.73%	0.19%	0.91%	6.63	6.63	13.25
38	Malappuram	Valancherry	North	44437	53324	57590	10972	13166	14220	0.831	0.069	0.900	8.639	0.590	9.229	8.329	0.76%	0.000	9.225	9.225	1.07%	1240	14220	12980	0.92%	0.54%	0.07%	0.61%	0.46%	0.27%	0.19%	0.91%	6.62	6.62	13.25	0.69%	0.15%	0.84%	6.07	6.07	12.14
39	Malappuram	Tirur (M)	North	56058	67270	72652	13841	16610	17939	3.466	0.624	4.090	10.898	1.030	11.928	7.838	0.71%	5.400	11.928	6.528	0.76%	6311	17939	11628	0.82%	0.68%	0.05%	0.73%	0.41%	0.19%	0.18%	0.78%	5.63	5.63	11.27	0.58%	0.18%	0.77%	5.55	5.55	11.10
40	Malappuram	Nilambur	North	46342	55610	60059	11442	13731	14829	2.604	0.345	2.949	9.009	0.430	9.439	6.490	0.59%	4.000	9.440	5.440	0.63%	4585	14829	10244	0.72%	0.56%	0.12%	0.68%	0.36%	0.16%	0.15%	0.67%	4.83	4.83	9.66	0.50%	0.17%	0.67%	4.85	4.85	9.69
41	Malappuram	Kottakkal	North	48342	58010	62651	11936	14323	15469	0.346	0.000	0.346	9.398	0.750	10.148	9.802	0.89%	0.500	10.148	9.648	1.12%	569	15469	14900	1.05%	0.58%	0.07%	0.65%	0.53%	0.28%	0.22%	1.03%	7.45	7.45	14.89	0.77%	0.16%	0.93%	6.76	6.76	13.53
42	Malappuram	Perinthalmanna (M)	North	49723	59668	64441	12277	14733	15911	3.609	0.846	4.455	9.666	1.310	10.976	6.521	0.59%	6.000	10.974	4.974	0.58%	6730	15911	9181	0.65%	0.60%	0.11%	0.71%	0.32%	0.14%	0.15%	0.62%	4.46	4.46	8.93	0.46%	0.18%	0.64%	4.64	4.64	9.27
43	Malappuram	Malappuram (M)	North	68127	79166	82850	14750	16900	18250	9.078	1.764	10.842	12.428	2.210	14.638	3.796	0.34%	13.000	14.633	1.633	0.19%	12919	18250	5331	0.38%	0.82%	0.11%	0.93%	0.19%	0.05%	0.09%	0.32%	2.33	2.33	4.66	0.24%	0.23%	0.47%	3.43	3.43	6.87
Palakkad																														0.00%	0.00%										
44	Palakkad	Pattambi (New)	Central	28632	34358	37107	7070	8483	9162	0.800	0.500	1.300	6.49	1.200	7.690	6.390	0.58%	2.500	7.690	5.190	0.60%	4566	9162	4596	0.32%	0.35%	0.05%	0.40%	0.16%	0.15%	0.15%	0.46%	3.31	3.31	6.63	0.34%	0.10%	0.44%	3.20	3.20	6.41
45	Palakkad	Chittoor	Central	32480	38976	42094	8020	9624	10394	4.510	0.721	5.231	7.36	0.860	8.220	2.989	0.27%	5.300	8.224	2.924	0.34%	0	10394	10394	0.73%	0.39%	0.05%	0.44%	0.37%	0.08%	0.07%	0.52%	3.76	3.76	7.53	0.39%	0.11%	0.50%	3.62	3.62	7.24
46	Palakkad	Ottappalam	Central	53792	64550	69714	13282	15938	17213	5.900	1.05	6.950	11.7	2.800	14.500	7.550	0.69%	6.950	14.500	7.550	0.87%	9834	17213	7379	0.52%	0.65%	0.11%	0.76%	0.26%	0.22%	0.17%	0.65%	4.71	4.71	9.42	0.49%	0.19%	0.68%	4.90	4.90	9.80
47	Palakkad	Mannarkkad (New)	Central	31902	38282	41345	7877	9452	10209	2.050	0.25	2.300	6	1.500	7.500	5.200	0.47%	7.000	7.500	0.500	0.06%	4316	10209	5893	0.42%	0.39%	0.05%	0.43%	0.21%	0.01%	0.12%	0.34%	2.47	2.47	4.94	0.26%	0.11%	0.36%	2.63	2.63	5.26
48	Palakkad	Shornur	Central	43528	52234	56413	10748	12897	13929	5.500	5.000	10.500	8.5	9.000	17.500	7.000	0.64%	10.000	17.500	7.500	0.87%	8567	13929	5362	0.38%	0.53%	0.10%	0.63%	0.19%	0.22%	0.16%	0.57%	4.10	4.10	8.19	0.42%	0.16%	0.58%	4.21	4.21	8.42
49	Palakkad	Cheruppulasserry (New)	Central	39919	47903	51735	9857	11828	12774	2.725	0.525	3.250	9.000	2.000	11.000	7.750	0.70%	0.000	11.000	11.000	1.27%	7463	12774	5311	0.38%	0.48%	0.10%	0.58%	0.19%	0.32%	0.18%	0.68%	4.94	4.94	9.88	0.51%	0.15%	0.66%	4.76	4.76	9.53
Thrissur																														0.00%	0.00%										
50	Thrissur	Kodungalloor	Central	71244	85493	92332	17591	21109	22798	5.250	0.230	5.480	15.45	1.300	16.750	11.270	1.02%	5.500	16.750	11.250	1.30%	13517	22798	9281	0.66%	0.86%	0.09%	0.95%	0.33%	0.33%	0.26%	0.91%	6.59	6.59	13.17	0.68%	0.24%	0.92%	6.66	6.66	13.32
51	Thrissur	Wadakkancherry (New)	Central	61341	73609	79498	15146	18175	19629	1.330	2.100	3.430	13	4.220	17.220	13.790	1.25%	2.400	17.220	14.820	1.71%	1510	19629	18119	1.28%	0.74%	0.16%	0.91%	0.64%	0.43%	0.31%	1.38%	10.01	10.01	20.02	1.04%	0.23%	1.26%	9.15	9.15	18.30
52	Thrissur	Kunnamkulam	Central	54071	64885	70076	13351	16021	17303	2.300	0.325	2.625	12.25	0.790	13.040	10.415	0.95%	2.300	13.040	10.740	1.24%	2303	17303	15000	1.06%	0.65%	0.11%	0.76%	0.53%	0.31%	0.24%	1.08%	7.80	7.80	15.60	0.81%	0.19%	1.00%	7.23	7.23	14.47
53	Thrissur	Iringalakuda	Central	60507	72608	78417	14940	17928	19362	4.600	0.400	5.000	15.13	0.870	16.000	11.000	1.00%	5.000	16.000	11.000	1.27%	7079	19362	12283	0.87%	0.73%	0.11%	0.84%	0.43%	0.32%	0.25%	1.00%	7.26	7.26	14.52	0.75%	0.21%	0.96%	6.96	6.96	13.92
54	Thrissur	Chalakkudy	Central	49481	59377	64127	12218	14661	15834	2.500	1.310	3.810	11.22	1.660	12.880	9.070	0.82%	4.000	12.880	8.880	1.03%	5815	15834	10019	0.71%	0.60%	0.08%	0.68%	0.35%	0.26%	0.21%	0.82%	5.92	5.92	11.83	0.61%	0.17%	0.78%	5.67	5.67	11.33
55	Thrissur	Chavakkad	Central	39095	46914	50667	9653	11584	12510	1.000	0.700	1.700	8.9	1.700	10.600	8.900	0.81%	5.000	10.600	5.600	0.65%	982	12510	11528	0.81%	0.47%	0.04%	0.51%	0.41%	0.16%	0.20%	0.77%	5.59	5.59	11.18	0.58%	0.13%	0.71%	5.12	5.12	10.24
Ernakulam																														0.00%	0.00%										
56	Ernamkulam	Thrippunithura	Central	92522	111026	119908	22845	27414	29607	17.690	1.310	19.000	19	5.000	24.000	5.000	0.45%	19.000	24.000	5.000	0.58%	18534	29607	11073	0.78%	1.12%	0.09%	1.21%	0.39%	0.14%	0.11%	0.65%	4.70	4.70	9.41	0.49%	0.30%	0.79%	5.72	5.72	11.44
57	Ernamkulam	Kalamassery	Central	70776	84931	91725	20576	20971	22648	8.400	2.400	10.800	17	5.200	22.200	11.400	1.04%	11.000	22.200	11.200	1.30%	14717	22648	7931	0.56%	0.85%	0.09%	0.94%	0.28%	0.32%	0.26%	0.86%	6.25	6.25	12.50	0.65%	0.24%	0.88%	6.39	6.39	12.79
58	Ernamkulam	Thrikkakkara	Central	65984	79181	85515	16292	19551	21115	22.500	1.600	24.100	22.000	2.400	24.400	0.300	0.03%	20.000	24.400	4.400	0.51%	14500	21115	6615	0.47%	0.80%	0.09%	0.89%	0.23%	0.13%	0.01%	0.37%	2.66	2.66	5.33	0.28%	0.22%	0.50%	3.60	3.60	7.21
59	Ernamkulam	Eloor	Central	36722	41256	43801	9159	12783	15340	6.006	1.45	7.456	8	1.500	9.500	2.044	0.19%	7.450	9.500	2.050	0.24%	5418	15340	9922	0.70%	0.44%	0.04%	0.48%	0.35%	0.06%	0.05%	0.46%	3.31	3.31	6.61	0.34%	0.12%	0.46%	3.35	3.35	6.69
60	Ernamkulam	Kothamangalam	Central	38837	46604	50332	9589	11507	12428	5.500	3.600	9.100	7.5	5.700	13.200	4.100	0.37%	9.000	13.200	4.200	0.49%	7645	12428	4783	0.34%	0.47%	0.13%	0.60%	0.17%	0.12%	0.09%	0.38%	2.78	2.78	5.56	0.29%	0.15%	0.44%	3.17	3.17	6.33
61	Ernamkulam	Angamali	Central	33391	40069	43275	8245	9894	10685	4.773	0.894	5.667	8.2	0.760	8.960	3.293	0.30%	5.600	8.962	3.362	0.39%	5401	10685	5284	0.37%	0.40%	0.09%	0.49%	0.19%	0.10%	0.07%	0.36%	2.60	2.60	5.20	0.27%	0.12%	0.39%	2.84	2.84	5.69
62	Ernamkulam	Perumbavoor	Central	28105	33726	36424	6940	8327	8994	2.220	4.330	6.550	3.000	7.500	10.500	3.950	0.36%	10.000	10.500	0.500	0.06%	3453	8994	5541	0.39%	0.34%	0.10%	0.44%	0.20%	0.01%	0.09%	0.30%	2.17	2.17	4.35	0.22%	0.11%	0.33%	2.42	2.42	4.84
63	Ernamkulam	Piravom (New)	Central	29105	34926	37720	7186	8624	9314	5.000	1.060	6.060	7.544	1.800	9.344	3.284	0.30%	6.060	9.344	3.284	0.38%	4956	9314	4358	0.31%	0.35%	0.09%	0.45%	0.15%	0.09%	0.07%	0.32%	2.34	2.34	4.69	0.24%	0.11%	0.35%	2.56	2.56	5.13
64	Ernamkulam	Muvattupuzha	Central	30397	36476	39394	7505	9006	9727	2.600	5.400	8.000	5.300	6.120	11.420	3.420	0.31%	10.500	10.500	0.000	0.00%	6361	9727	3366	0.24%	0.37%	0.04%	0.41%	0.12%	0.00%	0.08%	0.20%	1.42	1.42	2.85	0.15%	0.10%	0.25%	1.81	1.81	3.62
65	Ernamkulam	Maradu	Central	44704	53645	57937	11038	13246	14305	14.426	1.574	16.000	16.625	4.375	21.000	5.000	0.45%	16.000	21.000	5.000	0.58%	12593	14305	1712	0.12%	0.54%	0.04%	0.58%	0.06%	0.14%	0.11%	0.32%	2.31	2.31	4.62	0.24%	0.14%	0.38%	2.78	2.78	5.56
66	Ernamkulam	Koothattukulam	Central	17253	20704	22360	4260	5112	5521	1.100	0.950	2.050	2.300	3.020	5.320	3.270	0.30%	4.500	5.320	0.820	0.09%	1570	5521	3951	0.28%	0.21%	0.08%	0.29%	0.14%	0.02%	0.07%	0.24%	1.72	1.72	3.44	0.18%	0.07%	0.25%	1.81	1.81	3.61
67	Ernamkulam	Paravoor (North)	Central	31493	37792	40815	7776	9331	10078	5.100	2.000	7.100	8.000	4.000	12.000	4.900	0.45%	7.100	12.000	4.900	0.57%	8769	10078	1309	0.09%	0.38%	0.03%	0.41%	0.05%	0.14%	0.11%	0.30%	2.17	2.17	4.34	0.22%	0.10%	0.33%	2.37	2.37	4.73
68	Ernamkulam	Aluva	Central	22428	26914	29067	5538	6645	7177	5.660	2.950	8.610	6.660	3.040	9.700	1.090	0.10%	8.610	9.700	1.090	0.13%	5641	7177	1536	0.11%	0.27%	0.02%	0.29%	0.05%	0.03%	0.02%	0.11%	0.80	0.80	1.60	0.08%	0.07%	0.16%	1.13	1.13	2.26
Idukki																														0.00%	0.00%										
69	Idukki	Kattappana (New)	Central	42646	51175	55269	10419	12636	13647	1.380	0.000	1.380	8.500	2.500	11.000	9.620	0.87%	0.000	8.700	8.700	1.01%	1180	13647	12467	0.88%	0.52%	0.17%	0.68%	0.44%	0.25%	0.22%	0.91%	6.60	6.60	13.19	0.68%	0.17%	0.85%	6.19	6.19	12.37
70	Idukki	Thodupuzha	Central	52025	62430	67424	12846	15415	16648	5.276	1.210	6.486	10.920	2.250	13.170	6.684	0.61%	7.200	13.170	5.970	0.69%	9650	16648	6998	0.49%	0.63%	0.11%	0.74%	0.25%	0.17%	0.15%	0.57%	4.14	4.14	8.28	0.43%	0.19%	0.61%	4.45	4.45	8.89
																															0.00%										
71	Kottayam	Ettumanoor	South	51129	61355	66263	12624	15149	16361	2.100	0.200	2.300	15.000	3.000	18.000	15.700	1.43%	3.000	18.000	15.000	1.74%	1677	16361	14684	1.04%	0.62%	0.09%	0.71%	0.52%	0.43%	0.36%	1.31%	9.48	9.48	18.97	0.98%	0.18%	1.16%	8.39	8.39	16.79
72	Kottayam	Kottayam (M)	South	138283	165940	179215	34144	40973	44251	14.000	18.000	32.000	32.000	23.000	55.000	23.000	2.09%	33.000	55.000	22.000	2.54%	21047	44251	23204	1.64%	1.67%	0.18%	1.85%	0.82%	0.64%	0.52%	1.98%	14.33	28.66	42.99	1.48%	0.46%	1.95%	14.09	28.19	42.28
73	Kottayam	Erattupetta	South	29075	34890	37681	6486	8615	9304	2.000	0.350	2.350	5.000	2.500	7.500	5.150	0.47%	0.000	7.500	7.500	0.87%	3930	9304	5374	0.38%	0.35%	0.02%	0.38%	0.19%	0.22%	0.12%	0.52%	3.79	3.79	7.59	0.39%	0.09%	0.49%	3.52	3.52	7.05
74	Kottayam	Changanassery (M)	South	56049	67259	72640	13839	16607	17936	2.500	2.500	5.000	8.000	4.000	12.000	7.000	0.64%	5.000	12.000	7.000	0.81%	6579	17936	11357	0.80%	0.68%	0.04%	0.72%	0.40%	0.20%	0.16%	0.76%	5.52	5.52	11.05	0.57%	0.18%	0.75%	5.45	5.45	10.90
75	Kottayam	Palai (M)	South	22056	26467	28584	5446	6535	7058	2.500	1.000	3.500	6.000	2.250	8.250	4.750	0.43%	4.200	8.250	4.050	0.47%	3335	7058	3723	0.26%	0.27%	0.05%	0.32%	0.13%	0.12%	0.11%	0.36%	2.58	2.58	5.17	0.27%	0.08%	0.35%	2.52	2.52	5.03
76	Kottayam	Vaikom (M)	South	23245	27894	30126	5740	6887	7439	1.230	0.500	1.730	5.000	3.000	8.000	6.270	0.57%	1.730	8.000	6.270	0.73%	5619	7439	1820	0.13%	0.28%	0.03%	0.31%	0.06%	0.18%	0.14%	0.39%	2.81	2.81	5.62	0.29%	0.08%	0.37%	2.67	2.67	5.33
Alappuzha																														0.00%	0.00%										
77	Alappuzha	Mavelikkara (M)	South	27556	33067	35712	6804	8165	8818	1.200	0.612	1.812	7.000	2.500	9.500	7.688	0.70%	2.000	9.500	7.500	0.87%	4455	8818	4363	0.31%	0.33%	0.04%	0.37%	0.15%	0.22%	0.17%	0.55%	3.95	3.95	7.91	0.41%	0.09%	0.50%	3.64	3.64	7.28
78	Alappuzha	Chengannur (M)	South	23456	28147	30399	5792	6950	7506	4.250	0.420	4.670	6.000	2.500	8.500	3.830	0.35%	4.750	8.500	3.750	0.43%	3040	7506	4466	0.32%	0.28%	0.04%	0.33%	0.16%	0.11%	0.09%	0.35%	2.56	2.56	5.12	0.26%	0.08%	0.35%	2.51	2.51	5.03
79	Alappuzha	Kayamkulam (M)	South	68634	82361	88950	16947	20336	21963	1.850	0.560	2.410	9.000	3.000	12.000	9.590	0.87%	5.000	12.000	7.000	0.81%	4889	21963	17074	1.21%	0.83%	0.09%	0.92%	0.60%	0.20%	0.22%	1.02%	7.41	7.41	14.83	0.77%	0.23%	1.00%	7.23	7.23	14.47
80	Alappuzha	Cherthala (M)	South	45827	54992	59391	11315	13578	14664	5.870	1.000	6.870	10.000	3.000	13.000	6.130	0.56%	6.870	13.000	6.130	0.71%	7161	14664	7503	0.53%	0.55%	0.05%	0.60%	0.27%	0.18%	0.14%	0.58%	4.21	4.21	8.43	0.44%	0.15%	0.59%	4.25	4.25	8.51
81	Alappuzha	Haripad	South	30977	37172	40146	7649	9178	9913	2.040	0.070	2.110	5.450	0.750	6.200	4.090	0.37%	0.000	6.200	6.200	0.72%	850	9913	9063	0.64%	0.37%	0.06%	0.44%	0.32%	0.18%	0.09%	0.59%	4.29	4.29	8.58	0.44%	0.11%	0.55%	4.01	4.01	8.02
Pathanamthitta																														0.00%	0.00%										
82	Pathanamthitta	Thiruvalla (M)	South	52883	63460	68537	13058	15669	16923	9.010	5.000	14.010	15.000	10.000	25.000	10.990	1.00%	17.000	25.000	8.000	0.93%	8627	16923	8296	0.59%	0.64%	0.09%	0.73%	0.29%	0.23%	0.25%	0.77%	5.61	5.61	11.21	0.58%	0.18%	0.76%	5.52	5.52	11.05
83	Pathanamthitta	Pandalam	South	45497	54596	58964	11234	13480	14559	2.000	0.206	2.206	8.840	0.455	9.295	7.089	0.64%	6.000	9.295	3.295	0.38%	1545	14559	13014	0.92%	0.55%	0.09%	0.64%	0.46%	0.10%	0.16%	0.72%	5.19	5.19	10.37	0.54%	0.16%	0.70%	5.05	5.05	10.10
84	Pathanamthitta	Pathanamthitta (M)	South	37545	45054	48658	9270	11124	12014	4.556	2.300	6.856	7.500	8.200	15.700	8.844	0.80%	6.500	15.700	9.200	1.06%	6250	12014	5764	0.41%	0.45%	0.08%	0.53%	0.20%	0.27%	0.20%	0.67%	4.86	4.86	9.72	0.50%	0.13%	0.64%	4.60	4.60	9.21
85	Pathanamthitta	Adoor (M)	South	29165	34998	37798	7201	8641	9333	4.000	4.000	8.000	8.000	8.000	16.000	8.000	0.73%	10.000	16.000	6.000	0.69%	2674	9333	6659	0.47%	0.35%	0.07%	0.42%	0.24%	0.17%	0.18%	0.59%	4.28	4.28	8.55	0.44%	0.10%	0.55%	3.97	3.97	7.93
Kollam																														0.00%	0.00%										
86	Kollam	Karunagapally	South	47483	56980	61538	11724	14069	15195	6.100	0.200	6.300	9.000	6.000	15.000	8.700	0.79%	4.300	15.000	10.700	1.24%	7613	15195	7582	0.54%	0.57%	0.03%	0.60%	0.27%	0.31%	0.20%	0.77%	5.61	5.61	11.23	0.58%	0.15%	0.73%	5.30	5.30	10.59
87	Kollam	Kottarakkara	South	30055	36066	38951	7421	8905	9618	1.100	1.500	2.600	7.180	4.000	11.180	8.580	0.78%	2.690	11.180	8.490	0.98%	1844	9618	7774	0.55%	0.36%	0.06%	0.42%	0.27%	0.25%	0.19%	0.71%	5.18	5.18	10.36	0.54%	0.10%	0.64%	4.64	4.64	9.29
88	Kollam	Punalur (M)	South	46702	56042	60525	12606	13838	14944	4.560	3.512	8.072	9.070	4.190	13.260	5.188	0.47%	8.500	13.260	4.760	0.55%	9810	14944	5134	0.36%	0.56%	0.11%	0.67%	0.18%	0.14%	0.12%	0.44%	3.16	3.16	6.33	0.33%	0.17%	0.50%	3.59	3.59	7.19
89	Kollam	Paravoor (M)	South	37189	44627	48197	9182	11019	11900	3.000	1.000	4.000	8.000	7.000	15.000	11.000	1.00%	4.000	15.000	11.000	1.27%	6439	11900	5461	0.39%	0.45%	0.05%	0.50%	0.19%	0.32%	0.25%	0.76%	5.51	5.51	11.02	0.57%	0.13%	0.70%	5.04	5.04	10.08
Thiruvananthapuram																														0.00%	0.00%										

ANNEXURE-2.5 -AMRUT 2.0 - WATER SUPPLY - TENTATIVE FUND ALLOCATION BASED ON DOMESTIC & NON DOMESTIC WATER SUPPLY (CA- Rs. 724.54 Cr)

	Name of District	Name of ULB	Region Name	Household, Population & Area						Water Supplied-Domestic			Future Water Demand 2025			Gap in Water Supply- Domestic & Non Domestic		GAP in water quality-Domestic & Non Domestic				Gap in water Connection- Domestic				B (Population: Area-90:10)			OPTION 2 (Need based Gap) connection: Quality : Quantity -50:25:25)							OPTION 1=0.75A+0.25B (A- Need based Gap- connection: Quality : Quantity -50:25:25 B- Population: Area-90:10)					
				City Population (Census 2011)	City Population in 2021	City Population in 2025	Households (Census 2011) (No.)	Households in 2021 (No.)	Households in 2025 (No.)	Domestic(Households including slums)	Non domestic(Institutional, commercial & Industries)	Total	Domestic(Households including slums)	Non domestic(Institutional, commercial & Industries)	Total	Gap in WS-Households including slums(based on 150 LPCD)-2025	Gap % Domestic & Non domestic	Present Water Treatment Capacity	Water to be Treated as per CWBP	Gap in Water Treatment as per CWBP	Gap in water quality% (Domestic & Non domestic)	Present-Households Covered with Tap Connections (City)	2025-Total Households Including Slums	Gap in Households Tap Connections Including Slums	Gap in Connection %(Domestic connections)	Weightage for Population (@90%)	Weightage for Area (@10%)	Total Weightage	Weightage for Gap in Connection (@50%)	Weightage for Gap in treatment (@25%)	Weightage for Gap in water supply (@25%)	Total Weightage	Total Weightage Based Central Share of Fund	State Share	Total Fund	Need based Gap- Total Weightage(connection: Quality : Quantity -50:25:25) 75%	Population & Area based- Total Weightage(90:10) 25%	Total weightage(Need based Gap@75% and Population & Area @25%)	Total Weightage Based Central Share of Fund	State Share	Total Fund
										A	B	C=A+B	D	E	F=D+E	G=F-A	H=G/Total G	J	K	L=K-J	M=L/ L Total	N	O	P=O-N	R=P/Ptotal	S=90%	T=10%	U=S+T	W= R*50%	X= M*25%	Y= H*25%	Z=W+X+Y	A1=Z*7 24.54			8	9	10	11	12	13
90	Thiruvananthapuram	Nedumangad (M)	South	60161	72193	77968	14855	17825	19251	8.250	1.900	10.150	10.000	4.250	14.250	4.100	0.37%	13.750	14.250	0.500	0.06%	10225	19251	9026	0.64%	0.73%	0.10%	0.83%	0.32%	0.01%	0.09%	0.43%	3.09	3.09	6.18	0.32%	0.21%	0.53%	3.82	3.82	7.64
91	Thiruvananthapuram	Neyyattinkara (M)	South	70840	85008	91809	17491	20990	22669	5.000	1.180	6.180	20.000	5.000	25.000	18.820	1.71%	6.600	25.000	18.400	2.13%	9035	22669	13634	0.96%	0.86%	0.09%	0.95%	0.48%	0.53%	0.43%	1.44%	10.44	10.44	20.88	1.08%	0.24%	1.32%	9.54	9.54	19.08
92	Thiruvananthapuram	Varkala (M)	South	40048	48058	51903	9888	11866	12816	5.200	1.700	6.900	9.000	4.000	13.000	6.100	0.55%	7.000	13.000	6.000	0.69%	7762	12816	5054	0.36%	0.48%	0.05%	0.53%	0.18%	0.17%	0.14%	0.49%	3.55	3.55	7.11	0.37%	0.13%	0.50%	3.63	3.63	7.26
93	Thiruvananthapuram	Attingal (M)	South	37382	44858	43083	9768	11076	10665	4.000	0.950	4.950	7.000	3.000	10.000	5.050	0.46%	5.000	10.000	5.000	0.58%	8149	10665	2516	0.18%	0.45%	0.05%	0.51%	0.09%	0.14%	0.11%	0.35%	2.52	2.52	5.04	0.26%	0.13%	0.39%	2.81	2.81	5.62

ANNEXURE - 3.1

AMRUT 2.0 - SEWERAGE & SEPTAGE - FLOATING FUND CALCULATION
(IF 30% STP + 75% FSTP SELECTED)

Amount in Cr.

Sl. No.	ULB	Option-1 Need Based Only Deducting AMRUT 1.0 Projects (30% STP & 70% FSTP)			Option-2 [75% * Population & Area Based Weightage) + (25% * Need Based Weightage)			Option-1 CA - Option-2 CA	Floating Incentive Fund
		Central Assistance	State Share	Total Cost	Central Assistance	State Share	Total Cost		Central Assistance
		A	B	C = A+B	D	E	F = D+E	G = D-A	
1	Thiruvananthapuram (M Corp.)	51.70	103.40	155.11	105.96	211.91	317.87	54.25	43.08
2	Kozhikode (M Corp.)	55.51	111.01	166.52	114.51	229.03	343.54	59.01	46.85
3	Kochi	64.53	129.05	193.58	94.45	188.90	283.34	29.92	23.76
4	Kollam (M Corp.)	23.59	47.18	70.76	69.06	138.12	207.19	45.47	36.10
5	Kannur (M)	42.47	84.94	127.40	53.44	106.88	160.33	10.97	8.71
6	Thrissur	35.09	70.17	105.26	61.68	123.36	185.04	26.59	21.12
7	Alappuzha (M)	23.08	46.16	69.24	32.92	65.85	98.77	9.84	7.82
8	Palakkad	15.83	31.66	47.50	21.24	42.48	63.72	5.41	4.29
9	Guruvayoor	12.82	12.82	25.65	14.03	14.03	28.06	1.21	0.96
	RESERVE FOR NON AMRUT								50.00
	GRAND TOTAL	**324.62**	**636.41**	**961.03**	**567.30**	**1120.57**	**1687.87**	**242.68**	**242.68**

NET AVAILABLE CA (Cr)	242.68
NET AVAILABLE CA (Cr)	242.68
RESERVE AMOUNT IN CA (Cr) FOR NON AMRUT CITIES	50
NET AVAILABLE FUND (Cr)	192.68
PERCENTAGE OF TOTAL AVAILABLE AMOUNT	79.40%

ANNEXURE - 3.2

AMRUT 2.0 - SEWERAGE & SEPTAGE - TENTATIVE FUND ALLOCATION PATTERNS

Amount in Cr.

Sl. No.	ULB	Option-1 Need Based			Option 2 [75% * Population & Area Based Weightage) + (25% * Need Based Weightage)		
		Central Assistance	State Share	Total	Central Assistance	State Share	Total
1	Thiruvananthapuram (M Corp.)	51.70	103.40	155.11	105.96	211.91	317.87
2	Kozhikode (M Corp.)	55.51	111.01	166.52	114.51	229.03	343.54
3	Kochi	64.53	129.05	193.58	94.45	188.90	283.34
4	Kollam (M Corp.)	23.59	47.18	70.76	69.06	138.12	207.19
5	Kannur (M)	42.47	84.94	127.40	53.44	106.88	160.33
6	Thrissur	35.09	70.17	105.26	61.68	123.36	185.04
7	Alappuzha (M)	23.08	46.16	69.24	32.92	65.85	98.77
8	Palakkad	15.83	31.66	47.50	21.24	42.48	63.72
9	Guruvayoor	12.82	12.82	25.65	14.03	14.03	28.06
GRAND TOTAL		**324.62**	**636.41**	**961.03**	**567.30**	**1120.57**	**1687.87**

ANNEXURE - 3.3

AMRUT 2.0 - SEWERAGE & SEPTAGE - TENTATIVE FUND ALLOCATION

Household, Population & Area					OPTION-1 Need Based Only Deducting AMRUT 1.0 Projects (30% STP & 70% FSTP)														
Sl. No.	Name of ULB	City Population (Census 2011)	City Area (sq. km.)	Total Households - 2025	STP & Network - 30% of Total Households in 2025 (nos.)	Existing Sewer Connection	Proposed Sewer Connection Under AMRUT 1.0	STP & Network - Required Households (nos.)	FSTP - 70% of Total Households in 2025	Existing Septage Coverage	Proposed Septage Coverage Under AMRUT 1.0	FSTP - Required Households (nos.)	Required STP Capacity in MLD (1 MLD = 2000 Households)	Required FSTP Capacity in KLD (1 KLD = 500 Households)	Required Amount - STP Network (1 Household = Rs.25000) (in Cr.)	Required Amount - STP (1 MLD = Rs.2.58 Cr.) (in Cr.)	Required Amount - FSTP (1 KLD = Rs.0.06 Cr.) (in Cr.)	Required Total Amount (in Cr.)	Required Central Share (in Cr.)	Required State Share (in Cr.)
		A	B	D	AZ = 30%D	X1 As per CWBP	X2 As per MoHUA VC Data	BA = AZ - X1 - X2	BB = 70%D	Y1 As per CWBP	Y2 As per MoHUA VC Data	BC = BB - Y1 - Y2	BD = BA / 2000	BE = BC / 500	BF = BA * 25000 / 10000000	BG = BD * 2.58 Cr.	BH = BE * 0.06 Cr.	BJ = BF + BG + BH	BJ **	BK **
1	Thiruvananthapuram #	788271	310.00	385598	115679	53424	213	62042	269919	269919	0	0	0	0	155.11	0.00	0.00	155.11	51.70	103.40
2	Kozhikode	609224	118.00	194952	58486	0	18764	39722	136466	0	3328	133138	20	266	99.30	51.24	15.98	166.52	55.51	111.01
3	Kochi	602046	94.88	192655	57797	1718	6498	49581	134859	87600	0	47259	25	95	123.95	63.96	5.67	193.58	64.53	129.05
4	Kollam	388288	74.00	124252	37276	0	21358	15918	86976	0	0	86976	8	174	39.79	20.53	10.44	70.76	23.59	47.18
6	Kannur	232486	79.00	114935	34481	0	1500	32981	80455	0	60383	20072	16	40	82.45	42.54	2.41	127.40	42.47	84.94
5	Thrissur	315957	101.42	101106	30332	0	2706	27626	70774	0	66120	4654	14	9	69.06	35.64	0.56	105.26	35.09	70.17
7	Alappuzha $	180856	46.77	57874	17362	0	90	17272	40512	0	9000	31512	9	63	43.18	22.28	3.78	69.24	23.08	46.16
8	Palakkad	131019	26.00	41926	12578	0	442	12136	29348	0	16843	12505	6	25	30.34	15.66	1.50	47.50	15.83	31.66
9	Guruvayoor	70012	30.00	22404	6721	0	0	6721	15683	0	14217	1466	3	3	16.80	8.67	0.18	25.65	12.82	12.82
TOTAL		**3318159**	**880.07**	**1235702**	**370711**	**55142**	**51571**	**263998**	**864991**	**357519**	**169891**	**337582**	**101**	**675**	**659.99**	**260.52**	**40.51**	**961.03**	**324.62**	**636.41**

** For cities having population >100000, State Share is 2/3 of the total cost & Central Share is 1/3 of the total cost.
For cities having population <100000, State Share is 1/2 of the total cost & Central Share is 1/2 of the total cost.

Thiruvananthapuram #

Assuming 100 MLD out of the 107 MLD STP will be used sewage treatment & balance 7 MLD will be used for septage treatment

100 MLD = 100 * 2000 Households = 200000 Households

Balance Households = 385598 - 200000 = 185598 Households

FSTP capacity required for 185598 Households = 185598 / 500000 = 0.3712 MLD, Since this is less than 7 MLD it can be treated in the existing 107 MLD STP. Hence gap is considered as 0.

Alappuzha $

1 Mobile Septage Vehicle of 10 KLD capacity is expected to cover 3 Houses per day

300 Days * 3 Houses = 900 Houses / Year

Two Mobile Septage Vehicles = 900 * 2 = 1800 Houses / Year

Coverage for 5 Years = 1800 * 5 = 9000 Houses, Hence considered as 9000

ANNEXURE - 3.4

AMRUT 2.0 - SEWERAGE & SEPTAGE - TENTATIVE FUND ALLOCATION

Household, Population & Area										OPTION-A (Population : Area - 90 : 10)			OPTION-B (Need Based)						OPTION-2 (75% * Option-A) + (25% * Option-B)					
Sl. No.	Name of ULB	City Population (Census 2011)	City Area (sq. km.)	Sewer Connections Provided (Including Coverage with Septage Management)	Total Households - 2025	Gap in Household Sewer Connections/ Coverage with Septage Management	Gap %	Population %	Area %	Weightage for Population (@90%)	Weightage for Area (@10%)	Total Weightage	Expected Sewer Coverage Under AMRUT 1.0	Sewerage Remarks	Expected Septage Coverage Under AMRUT 1.0	Septage Remarks	Gap in Sewerage & Septage Coverage	Gap Based Weightage	Need Based Weightage	Population & Area Based Weightage	Total Weightage	Central Share (in Cr.)	State Share (in Cr.)	Total Fund (in Cr.)
		A	B	C	D	E = D - C	F = E / Total E	G = A / Total A	H = B / Total B	P = 90% * G	Q = 10% * H	R = P + Q	Sw		Sp		Sg = E - Sw - Sp	G1 = Sg / Total Sg	AN = 25%G1	AO = 75%R	AP = AN + AO	AQ = AP* 567.3 Cr.	AR **	AS = AQ + AR
1	Thiruvananthapuram	788271	310.00	53637	385598	331961	30.87%	23.76%	35.22%	21.38%	3.52%	24.90%	0	##	0	##	0	0.00%	0.00%	18.68%	18.68%	105.96	211.91	317.87
2	Kozhikode	609224	118.00	0	194952	194952	18.13%	18.36%	13.41%	16.52%	1.34%	17.87%	0		3328	MC only	191624	27.13%	6.78%	13.40%	20.18%	114.49	228.98	343.47
3	Kochi	602046	94.88	89318	192655	103337	9.61%	18.14%	10.78%	16.33%	1.08%	17.41%	1897	Div-16 only	0		101440	14.36%	3.59%	13.06%	16.65%	94.44	188.87	283.31
4	Kollam	388288	74.00	0	124252	124252	11.55%	11.70%	8.41%	10.53%	0.84%	11.37%	21358	12 MLD	0		102894	14.57%	3.64%	8.53%	12.17%	69.05	138.10	207.15
6	Kannur	232486	79.00	0	114935	114935	10.69%	7.01%	8.98%	6.31%	0.90%	7.20%	1500	1 MLD only	0		113435	16.06%	4.02%	5.40%	9.42%	53.43	106.86	160.28
5	Thrissur	315957	101.42	0	101106	101106	9.40%	9.52%	11.52%	8.57%	1.15%	9.72%	0		0		101106	14.32%	3.58%	7.29%	10.87%	61.67	123.34	185.01
7	Alappuzha	180856	46.77	52	57874	57822	5.38%	5.45%	5.31%	4.91%	0.53%	5.44%	90	50 KLD only	9000	$$	48732	6.90%	1.72%	4.08%	5.80%	32.92	65.84	98.75
8	Palakkad	131019	26.00	17285	41926	24641	2.29%	3.95%	2.95%	3.55%	0.30%	3.85%	0		0		24641	3.49%	0.87%	2.89%	3.76%	21.33	42.65	63.98
9	Guruvayoor	70012	30.00	0	22404	22404	2.08%	2.11%	3.41%	1.90%	0.34%	2.24%	0		0		22404	3.17%	0.79%	1.68%	2.47%	14.03	14.03	28.06
TOTAL		**3318159**	**880.07**	**160292**	**1235702**	**1075410**							**24845**		**12328**		**706276**					**567.30**	**1120.57**	**1687.87**

** For cities having population >100000, state share is calculated for 2/3 of total cost and for population <100000, state share is calculated as 1/2 of total cost.

Thiruvananthapuram

Assuming 100L / Person Waste Water x 5 People / Household = 500L / Household / Day

1MLD = 2000 Households

Sewer Connections Provided = 53637 = @ 2000 houses / MLD = 27MLD

Septage Treatment - 100KLD = 50000 Households or 1MLD = 500000 Households

For Co-treatment - Septage Plant of 100KLD capacity can serve 50000 houses. Therefore balance gap of 3,31,961 houses of Thiruvananthapuram need less than 1MLD capacity plant, whereas we have 80 MLD (107MLD - 27MLD) available. Hence Gap = 0.

$$ Alappuzha

1 Mobile Septage Vehicle of 10 KLD capacity is expected to cover 3 Houses per day

300 Days * 3 Houses = 900 Houses / Year

Two Mobile Septage Vehicles = 900 * 2 = 1800 Houses / Year

Coverage for 5 Years = 1800 * 5 = 9000 Houses

Annexure 4.1- WATER BODY REJUVENATION & PARK SECTOR - TENTATIVE FUND ALLOCATION PATTERNS

Amount in Cr.

SL . NO	ULB	OPTION -1 (Population: Area- 50:50)			OPTION -2 (Population: Area- 90:10)		
		CA	State Share	Total	CA	State Share	Total
AMRUT CITIES							
1	Thiruvananthapuram (M Corp	8.21	16.42	24.63	8.43	16.85	25.28
2	Kozhikode (M Corp.)	4.79	9.58	14.36	6.20	12.40	18.60
3	Kochi	4.45	8.91	13.36	6.07	12.14	18.22
4	Kollam (M Corp.)	3.04	6.07	9.11	3.95	7.90	11.85
5	Kannur (M)	2.26	4.52	6.79	2.45	4.91	7.36
6	Thrissur	3.00	6.00	9.00	3.32	6.64	9.96
7	Alappuzha (M)	1.57	3.14	4.72	1.87	3.74	5.61
8	Palakkad	1.04	2.08	3.11	1.34	2.67	4.01
9	Guruvayoor	0.76	0.76	1.52	0.75	0.75	1.51
NON AMRUT CITIES							
10	Neeleswaram	0.56	0.56	1.11	0.45	0.45	0.91
11	Kanhangad (M)	0.90	0.90	1.80	0.81	0.81	1.63
12	Kasaragod (M)	0.50	0.50	0.99	0.57	0.57	1.13
13	Payyannur (M)	1.09	1.09	2.18	0.84	0.84	1.68
14	Thalassery (M)	0.81	0.81	1.61	0.96	0.96	1.92
15	Panoor	0.68	0.68	1.35	0.63	0.63	1.26
16	Mattannur (M)	0.95	0.95	1.89	0.60	0.60	1.19
17	Iritty	0.80	0.80	1.60	0.51	0.51	1.02
18	Sreekandapuram	1.06	1.06	2.12	0.50	0.50	1.00
19	Koothuparamba (M)	0.39	0.39	0.78	0.36	0.36	0.71
20	Taliparamba (M)	0.48	0.48	0.96	0.48	0.48	0.95
21	Anthoor	0.46	0.46	0.92	0.34	0.34	0.67
22	Mananthavadi	0.32	0.32	0.63	0.48	0.48	0.95
23	Sultan Bathery	1.57	1.57	3.13	0.70	0.70	1.41
24	Kalpetta (M)	0.69	0.69	1.38	0.41	0.41	0.82
25	Quilandy (M)	0.76	0.76	1.52	0.77	0.77	1.54
26	Vadakara (M)	0.73	0.73	1.45	0.84	0.84	1.67
27	Koduvally	0.57	0.57	1.13	0.53	0.53	1.06
28	Payyoli	0.55	0.55	1.10	0.54	0.54	1.07
29	Mukkam	0.62	0.62	1.24	0.47	0.47	0.95
30	Ramanattukara	0.34	0.34	0.69	0.38	0.38	0.76
31	Feroke	0.50	0.50	0.99	0.56	0.56	1.13
32	Manjeri (M)	1.20	1.20	2.40	1.08	1.08	2.15
33	Ponnani (M)	0.78	0.78	1.56	0.94	0.94	1.87
34	Parappananangadi	0.67	0.67	1.34	0.75	0.75	1.49
35	Tanur	0.62	0.62	1.25	0.72	0.72	1.45
36	Kondotty	0.71	0.71	1.43	0.65	0.65	1.31
37	Tirurangadi	0.53	0.53	1.06	0.59	0.59	1.19
38	Valancherry	0.52	0.52	1.04	0.49	0.49	0.97
39	Tirur (M)	0.52	0.52	1.04	0.59	0.59	1.17
40	Nilambur	0.71	0.71	1.43	0.54	0.54	1.08
41	Kottakkal	0.53	0.53	1.06	0.52	0.52	1.04
42	Perinthalmanna (M)	0.71	0.71	1.42	0.57	0.57	1.14
43	Malappuram (M)	0.80	0.80	1.59	0.75	0.75	1.49
44	Pattambi (New)	0.36	0.36	0.71	0.32	0.32	0.64
45	Chittoor	0.36	0.36	0.73	0.35	0.35	0.70
46	Ottappalam	0.71	0.71	1.42	0.61	0.61	1.21

47	Mannarkkad (New)	0.35	0.35	0.70	0.34	0.34	0.69
48	Shornur	0.65	0.65	1.30	0.50	0.50	1.01
49	Cheruppulasserry (New)	0.62	0.62	1.25	0.47	0.47	0.94
50	Kodungalloor	0.74	0.74	1.48	0.76	0.76	1.52
51	Wadakkancherry (New)	0.99	0.99	1.98	0.73	0.73	1.45
52	Kunnamkulam	0.73	0.73	1.46	0.61	0.61	1.22
53	Iringalakuda	0.76	0.76	1.51	0.67	0.67	1.34
54	Chalakkudy	0.59	0.59	1.18	0.54	0.54	1.09
55	Chavakkad	0.37	0.37	0.74	0.41	0.41	0.82
56	Thrippunithura	0.87	0.87	1.74	0.97	0.97	1.94
57	Kalamassery	0.73	0.73	1.45	0.75	0.75	1.51
58	Thrikkakkara	0.71	0.71	1.43	0.71	0.71	1.42
59	Eloor	0.34	0.34	0.68	0.38	0.38	0.77
60	Kothamangalam	0.72	0.72	1.44	0.48	0.48	0.96
61	Angamali	0.54	0.54	1.08	0.40	0.40	0.79
62	Perumbavoor	0.54	0.54	1.09	0.35	0.35	0.70
63	Piravom (New)	0.53	0.53	1.07	0.36	0.36	0.71
64	Muvattupuzha	0.33	0.33	0.66	0.33	0.33	0.66
65	Maradu	0.40	0.40	0.80	0.46	0.46	0.93
66	Koothattukulam	0.40	0.40	0.80	0.23	0.23	0.46
67	Paravoor (North)	0.28	0.28	0.57	0.33	0.33	0.66
68	Aluva	0.20	0.20	0.41	0.23	0.23	0.47
69	Kattappana (New)	0.91	0.91	1.81	0.55	0.55	1.10
70	Thodupuzha	0.73	0.73	1.46	0.59	0.59	1.19
71	Ettumanoor	0.63	0.63	1.27	0.57	0.57	1.13
72	Kottayam (M)	1.45	2.91	4.36	1.48	2.96	4.44
73	Erattupetta	0.25	0.25	0.50	0.30	0.30	0.60
74	Changanassery (M)	0.47	0.47	0.95	0.58	0.58	1.15
75	Palai (M)	0.33	0.33	0.67	0.26	0.26	0.51
76	Vaikom (M)	0.24	0.24	0.47	0.25	0.25	0.49
77	Mavelikkara (M)	0.31	0.31	0.62	0.30	0.30	0.60
78	Chengannur (M)	0.31	0.31	0.61	0.26	0.26	0.53
79	Kayamkulam (M)	0.75	0.75	1.50	0.74	0.74	1.48
80	Cherthala (M)	0.45	0.45	0.90	0.48	0.48	0.97
81	Haripad	0.41	0.41	0.83	0.35	0.35	0.70
82	Thiruvalla (M)	0.64	0.64	1.29	0.58	0.58	1.17
83	Pandalam	0.61	0.61	1.22	0.51	0.51	1.03
84	Pathanamthitta (M)	0.51	0.51	1.02	0.42	0.42	0.85
85	Adoor (M)	0.42	0.42	0.85	0.34	0.34	0.67
86	Karunagapally	0.36	0.36	0.72	0.48	0.48	0.96
87	Kottarakkara	0.38	0.38	0.77	0.34	0.34	0.67
88	Punalur (M)	0.69	0.69	1.38	0.54	0.54	1.08
89	Paravoor (M)	0.41	0.41	0.81	0.40	0.40	0.80
90	Nedumangad (M)	0.74	0.74	1.48	0.67	0.67	1.33
91	Neyyattinkara (M)	0.74	0.74	1.48	0.76	0.76	1.52
92	Varkala (M)	0.41	0.41	0.82	0.43	0.43	0.85
93	Attingal (M)	0.42	0.42	0.84	0.41	0.41	0.81
NON AMRUT CITIES - TOTAL		**51.04**	**52.49**	**103.54**	**45.78**	**47.26**	**93.04**
GRAND TOTAL		**80.16**	**109.97**	**190.13**	**80.16**	**115.27**	**195.43**

Sl. No.	District	ULB Name	Region Name	City Population (Census 2011)	City Population in 2021	City Population in 2025	Population %	Area %	OPTION -02 (Population: Area-90:10)						OPTION -02 Population: Area-50:50)					
							A=(City Population (Census 2011)/Total Population)* 100	B = (City Area/ Total Area) * 100	Weightage for Population (@90%) C = 0.9* A	Weightage for Area (@10%) D = 0.1*B	Total Weightage E= C+D	Central Share F=E*80.16	State Share ** G	Total Fund I=F+G	Weightage for Population (@50%) J=0.5*A	Weightage for Area (@50%) K=0.5*B	Total Weightage L=J+K	Central Share M=L*80.16	State Share **N	Total Fund O=M+N
AMRUT 1.0 CITIES																				
1	Thiruvananthapuram	Thiruvananthapuram (M Corp.)	South	788271	957675	1121069	10.58%	9.91%	9.52%	0.99%	10.51%	8.43	16.85	25.28	5.29%	4.95%	10.24%	8.21	16.42	24.63
2	Kozhikode	Kozhikode (M Corp.)	North	609224	731069	789555	8.18%	3.77%	7.36%	0.38%	7.74%	6.20	12.40	18.60	4.09%	1.89%	5.97%	4.79	9.58	14.36
3	Ernamkulam	Kochi	Central	602046	722455	780251	8.08%	3.03%	7.27%	0.30%	7.57%	6.07	12.14	18.22	4.04%	1.52%	5.56%	4.45	8.91	13.36
4	Kollam	Kollam (M Corp.)	South	388288	465946	124252	5.21%	2.36%	4.69%	0.24%	4.93%	3.95	7.90	11.85	2.61%	1.18%	3.79%	3.04	6.07	9.11
5	Kannur	Kannur (M)	North	232486	248514	254926	3.12%	2.52%	2.81%	0.25%	3.06%	2.45	4.91	7.36	1.56%	1.26%	2.82%	2.26	4.52	6.79
6	Thrissur	Thrissur	Central	315957	379148	409480	4.24%	3.24%	3.82%	0.32%	4.14%	3.32	6.64	9.96	2.12%	1.62%	3.74%	3.00	6.00	9.00
7	Alappuzha	Alappuzha (M)	South	180856	217027	234389	2.43%	1.49%	2.18%	0.15%	2.33%	1.87	3.74	5.61	1.21%	0.75%	1.96%	1.57	3.14	4.72
8	Palakkad	Palakkad	Central	131019	157223	169801	1.76%	0.83%	1.58%	0.08%	1.67%	1.34	2.67	4.01	0.88%	0.42%	1.29%	1.04	2.08	3.11
9	Thrissur	Guruvayoor	Central	70012	84014	90735	0.94%	0.96%	0.85%	0.10%	0.94%	0.75	0.75	1.51	0.47%	0.48%	0.95%	0.76	0.76	1.52
AMRUT 2.0 CITIES																				
Kasaragod																				
10	Kasaragod	Neeleswaram	North	39752	47702	51518	0.53%	0.86%	0.48%	0.09%	0.57%	0.45	0.45	0.91	0.27%	0.43%	0.69%	0.56	0.56	1.11
11	Kasaragod	Kanhangad (M)	North	73536	88243	95302	0.99%	1.26%	0.89%	0.13%	1.01%	0.81	0.81	1.63	0.49%	0.63%	1.13%	0.90	0.90	1.80
12	Kasaragod	Kasaragod (M)	North	54172	54700	55462	0.73%	0.51%	0.65%	0.05%	0.71%	0.57	0.57	1.13	0.36%	0.26%	0.62%	0.50	0.50	0.99
Kannur																				
13	Kannur	Payyannur (M)	North	72131	90684	98105	0.97%	1.76%	0.87%	0.18%	1.05%	0.84	0.84	1.68	0.48%	0.88%	1.36%	1.09	1.09	2.18
14	Kannur	Thalassery (M)	North	92864	111437	120352	1.25%	0.77%	1.12%	0.08%	1.20%	0.96	0.96	1.92	0.62%	0.38%	1.01%	0.81	0.81	1.61
15	Kannur	Panoor	North	57730	69276	74818	0.77%	0.91%	0.70%	0.09%	0.79%	0.63	0.63	1.26	0.39%	0.46%	0.84%	0.68	0.68	1.35
16	Kannur	Mattannur (M)	North	47196	56635	61166	0.63%	1.73%	0.57%	0.17%	0.74%	0.60	0.60	1.19	0.32%	0.87%	1.18%	0.95	0.95	1.89
17	Kannur	Iritty	North	40369	48443	52318	0.54%	1.46%	0.49%	0.15%	0.63%	0.51	0.51	1.02	0.27%	0.73%	1.00%	0.80	0.80	1.60
18	Kannur	Sreekandapuram	North	33489	37826	42568	0.45%	2.20%	0.40%	0.22%	0.62%	0.50	0.50	1.00	0.22%	1.10%	1.32%	1.06	1.06	2.12
19	Kannur	Koothuparamba (M)	North	32405	38886	41997	0.43%	0.54%	0.39%	0.05%	0.45%	0.36	0.36	0.71	0.22%	0.27%	0.49%	0.39	0.39	0.78
20	Kannur	Taliparamba (M)	North	44247	48672	50619	0.59%	0.60%	0.53%	0.06%	0.59%	0.48	0.48	0.95	0.30%	0.30%	0.60%	0.48	0.48	0.96
21	Kannur	Anthoor	North	28218	33862	36571	0.38%	0.77%	0.34%	0.08%	0.42%	0.34	0.34	0.67	0.19%	0.39%	0.58%	0.46	0.46	0.92
Wayanad																				
22	Wayanad	Mananthavadi	North	47974	54536	83000	0.64%	0.15%	0.58%	0.01%	0.59%	0.48	0.48	0.95	0.32%	0.07%	0.40%	0.32	0.32	0.63
23	Wayanad	Sultan Bathery	North	45417	54500	58860	0.61%	3.30%	0.55%	0.33%	0.88%	0.70	0.70	1.41	0.30%	1.65%	1.95%	1.57	1.57	3.13
24	Wayanad	Kalpetta (M)	North	31580	33964	35156	0.42%	1.30%	0.38%	0.13%	0.51%	0.41	0.41	0.82	0.21%	0.65%	0.86%	0.69	0.69	1.38
Kozhikode																				
25	Kozhikode	Quilandy (M)	North	71929	86315	93220	0.97%	0.93%	0.87%	0.09%	0.96%	0.77	0.77	1.54	0.48%	0.46%	0.95%	0.76	0.76	1.52
26	Kozhikode	Vadakara (M)	North	80356	96427	104141	1.08%	0.73%	0.97%	0.07%	1.04%	0.84	0.84	1.67	0.54%	0.37%	0.91%	0.73	0.73	1.45
27	Kozhikode	Koduvally	North	48687	58424	63098	0.65%	0.76%	0.59%	0.08%	0.66%	0.53	0.53	1.06	0.33%	0.38%	0.71%	0.57	0.57	1.13
28	Kozhikode	Payyoli	North	49470	59364	64113	0.66%	0.71%	0.60%	0.07%	0.67%	0.54	0.54	1.07	0.33%	0.36%	0.69%	0.55	0.55	1.10
29	Kozhikode	Mukkam	North	40670	48804	52708	0.55%	1.00%	0.49%	0.10%	0.59%	0.47	0.47	0.95	0.27%	0.50%	0.77%	0.62	0.62	1.24
30	Kozhikode	Ramanattukara	North	35937	43124	46574	0.48%	0.37%	0.43%	0.04%	0.47%	0.38	0.38	0.76	0.24%	0.19%	0.43%	0.34	0.34	0.69
31	Kozhikode	Feroke	North	54074	64889	70080	0.73%	0.51%	0.65%	0.05%	0.70%	0.56	0.56	1.13	0.36%	0.26%	0.62%	0.50	0.50	0.99
Malappuram																				
32	Malappuram	Manjeri (M)	North	97102	116522	125844	1.30%	1.70%	1.17%	0.17%	1.34%	1.08	1.08	2.15	0.65%	0.85%	1.50%	1.20	1.20	2.40
33	Malappuram	Ponnani (M)	North	90491	108589	117276	1.21%	0.73%	1.09%	0.07%	1.17%	0.94	0.94	1.87	0.61%	0.37%	0.97%	0.78	0.78	1.56
34	Malappuram	Parappananangadi	North	71239	85487	92326	0.96%	0.72%	0.86%	0.07%	0.93%	0.75	0.75	1.49	0.48%	0.36%	0.84%	0.67	0.67	1.34
35	Malappuram	Tanur	North	69534	83441	90116	0.93%	0.62%	0.84%	0.06%	0.90%	0.72	0.72	1.45	0.47%	0.31%	0.78%	0.62	0.62	1.25
36	Malappuram	Kondotty	North	59256	71107	76796	0.80%	0.99%	0.72%	0.10%	0.81%	0.65	0.65	1.31	0.40%	0.49%	0.89%	0.71	0.71	1.43
37	Malappuram	Tirurangadi	North	56632	67958	73395	0.76%	0.57%	0.68%	0.06%	0.74%	0.59	0.59	1.19	0.38%	0.28%	0.66%	0.53	0.53	1.06
38	Malappuram	Valancherry	North	44437	53324	57590	0.60%	0.70%	0.54%	0.07%	0.61%	0.49	0.49	0.97	0.30%	0.35%	0.65%	0.52	0.52	1.04
39	Malappuram	Tirur (M)	North	56058	67270	72652	0.75%	0.54%	0.68%	0.05%	0.73%	0.59	0.59	1.17	0.38%	0.27%	0.65%	0.52	0.52	1.04
40	Malappuram	Nilambur	North	46342	55610	60059	0.62%	1.16%	0.56%	0.12%	0.68%	0.54	0.54	1.08	0.31%	0.58%	0.89%	0.71	0.71	1.43
41	Malappuram	Kottakkal	North	48342	58010	62651	0.65%	0.67%	0.58%	0.07%	0.65%	0.52	0.52	1.04	0.32%	0.34%	0.66%	0.53	0.53	1.06
42	Malappuram	Perinthalmanna (M)	North	49723	59668	64441	0.67%	1.10%	0.60%	0.11%	0.71%	0.57	0.57	1.14	0.33%	0.55%	0.88%	0.71	0.71	1.42
43	Malappuram	Malappuram (M)	North	68127	79166	82850	0.91%	1.07%	0.82%	0.11%	0.93%	0.75	0.75	1.49	0.46%	0.54%	0.99%	0.80	0.80	1.59
Palakkad																				
44	Palakkad	Pattambi (New)	Central	28632	34358	37107	0.38%	0.51%	0.35%	0.05%	0.40%	0.32	0.32	0.64	0.19%	0.25%	0.45%	0.36	0.36	0.71
45	Palakkad	Chittoor	Central	32480	38976	42094	0.44%	0.47%	0.39%	0.05%	0.44%	0.35	0.35	0.70	0.22%	0.24%	0.45%	0.36	0.36	0.73
46	Palakkad	Ottappalam	Central	53792	64550	69714	0.72%	1.05%	0.65%	0.11%	0.76%	0.61	0.61	1.21	0.36%	0.53%	0.89%	0.71	0.71	1.42
47	Palakkad	Mannarkkad (New)	Central	31902	38282	41345	0.43%	0.45%	0.39%	0.05%	0.43%	0.34	0.34	0.69	0.21%	0.23%	0.44%	0.35	0.35	0.70

48	Palakkad	Shornur	Central	43528	52234	56413	0.58%	1.03%	0.53%	0.10%	0.63%	0.50	0.50	1.01	0.29%	0.52%	0.81%	0.65	0.65	1.30
49	Palakkad	Cheruppulasserry (New)	Central	39919	47903	51735	0.54%	1.02%	0.48%	0.10%	0.58%	0.47	0.47	0.94	0.27%	0.51%	0.78%	0.62	0.62	1.25
Thrissur																				
50	Thrissur	Kodungalloor	Central	71244	85493	92332	0.96%	0.89%	0.86%	0.09%	0.95%	0.76	0.76	1.52	0.48%	0.45%	0.93%	0.74	0.74	1.48
51	Thrissur	Wadakkancherry (New)	Central	61341	73609	79498	0.82%	1.65%	0.74%	0.16%	0.91%	0.73	0.73	1.45	0.41%	0.82%	1.24%	0.99	0.99	1.98
52	Thrissur	Kunnamkulam	Central	54071	64885	70076	0.73%	1.09%	0.65%	0.11%	0.76%	0.61	0.61	1.22	0.36%	0.55%	0.91%	0.73	0.73	1.46
53	Thrissur	Iringalakuda	Central	60507	72608	78417	0.81%	1.07%	0.73%	0.11%	0.84%	0.67	0.67	1.34	0.41%	0.54%	0.94%	0.76	0.76	1.51
54	Thrissur	Chalakkudy	Central	49481	59377	64127	0.66%	0.81%	0.60%	0.08%	0.68%	0.54	0.54	1.09	0.33%	0.40%	0.74%	0.59	0.59	1.18
55	Thrissur	Chavakkad	Central	39095	46914	50667	0.52%	0.40%	0.47%	0.04%	0.51%	0.41	0.41	0.82	0.26%	0.20%	0.46%	0.37	0.37	0.74
Ernakulam																				
56	Ernamkulam	Thrippunithura	Central	92522	111026	119908	1.24%	0.93%	1.12%	0.09%	1.21%	0.97	0.97	1.94	0.62%	0.47%	1.09%	0.87	0.87	1.74
57	Ernamkulam	Kalamassery	Central	70776	84931	91725	0.95%	0.86%	0.85%	0.09%	0.94%	0.75	0.75	1.51	0.47%	0.43%	0.91%	0.73	0.73	1.45
58	Ernamkulam	Thrikkakkara	Central	65984	79181	85515	0.89%	0.90%	0.80%	0.09%	0.89%	0.71	0.71	1.42	0.44%	0.45%	0.89%	0.71	0.71	1.43
59	Ernamkulam	Eloor	Central	36722	41256	43801	0.49%	0.36%	0.44%	0.04%	0.48%	0.38	0.38	0.77	0.25%	0.18%	0.43%	0.34	0.34	0.68
60	Ernamkulam	Kothamangalam	Central	38837	46604	50332	0.52%	1.28%	0.47%	0.13%	0.60%	0.48	0.48	0.96	0.26%	0.64%	0.90%	0.72	0.72	1.44
61	Ernamkulam	Angamali	Central	33391	40069	43275	0.45%	0.90%	0.40%	0.09%	0.49%	0.40	0.40	0.79	0.22%	0.45%	0.68%	0.54	0.54	1.08
62	Ernamkulam	Perumbavoor	Central	28105	33726	36424	0.38%	0.98%	0.34%	0.10%	0.44%	0.35	0.35	0.70	0.19%	0.49%	0.68%	0.54	0.54	1.09
63	Ernamkulam	Piravom (New)	Central	29105	34926	37720	0.39%	0.94%	0.35%	0.09%	0.45%	0.36	0.36	0.71	0.20%	0.47%	0.66%	0.53	0.53	1.07
64	Ernamkulam	Muvattupuzha	Central	30397	36476	39394	0.41%	0.42%	0.37%	0.04%	0.41%	0.33	0.33	0.66	0.20%	0.21%	0.41%	0.33	0.33	0.66
65	Ernamkulam	Maradu	Central	44704	53645	57937	0.60%	0.39%	0.54%	0.04%	0.58%	0.46	0.46	0.93	0.30%	0.20%	0.50%	0.40	0.40	0.80
66	Ernamkulam	Koothattukulam	Central	17253	20704	22360	0.23%	0.77%	0.21%	0.08%	0.29%	0.23	0.23	0.46	0.12%	0.38%	0.50%	0.40	0.40	0.80
67	Ernamkulam	Paravoor (North)	Central	31493	37792	40815	0.42%	0.29%	0.38%	0.03%	0.41%	0.33	0.33	0.66	0.21%	0.14%	0.36%	0.28	0.28	0.57
68	Ernamkulam	Aluva	Central	22428	26914	29067	0.30%	0.21%	0.27%	0.02%	0.29%	0.23	0.23	0.47	0.15%	0.10%	0.25%	0.20	0.20	0.41
Idukki																				
69	Idukki	Kattappana (New)	Central	42646	51175	55269	0.57%	1.69%	0.52%	0.17%	0.68%	0.55	0.55	1.10	0.29%	0.84%	1.13%	0.91	0.91	1.81
70	Idukki	Thodupuzha	Central	52025	62430	67424	0.70%	1.12%	0.63%	0.11%	0.74%	0.59	0.59	1.19	0.35%	0.56%	0.91%	0.73	0.73	1.46
Kottayam																				
71	Kottayam	Ettumanoor	South	51129	61355	66263	0.69%	0.89%	0.62%	0.09%	0.71%	0.57	0.57	1.13	0.34%	0.45%	0.79%	0.63	0.63	1.27
72	Kottayam	Kottayam (M)	South	138283	165940	179215	1.86%	1.77%	1.67%	0.18%	1.85%	1.48	2.96	5.92	0.93%	0.89%	1.81%	1.45	2.91	5.81
73	Kottayam	Erattupetta	South	29075	34890	37681	0.39%	0.24%	0.35%	0.02%	0.38%	0.30	0.30	0.60	0.20%	0.12%	0.31%	0.25	0.25	0.50
74	Kottayam	Changanassery (M)	South	56049	67259	72640	0.75%	0.43%	0.68%	0.04%	0.72%	0.58	0.58	1.15	0.38%	0.22%	0.59%	0.47	0.47	0.95
75	Kottayam	Palai (M)	South	22056	26467	28584	0.30%	0.53%	0.27%	0.05%	0.32%	0.26	0.26	0.51	0.15%	0.27%	0.41%	0.33	0.33	0.67
76	Kottayam	Vaikom (M)	South	23245	27894	30126	0.31%	0.28%	0.28%	0.03%	0.31%	0.25	0.25	0.49	0.16%	0.14%	0.30%	0.24	0.24	0.47
Alappuzha																				
77	Alappuzha	Mavelikkara (M)	South	27556	33067	35712	0.37%	0.40%	0.33%	0.04%	0.37%	0.30	0.30	0.60	0.18%	0.20%	0.39%	0.31	0.31	0.62
78	Alappuzha	Chengannur (M)	South	23456	28147	30399	0.31%	0.45%	0.28%	0.04%	0.33%	0.26	0.26	0.53	0.16%	0.22%	0.38%	0.31	0.31	0.61
79	Alappuzha	Kayamkulam (M)	South	68634	82361	88950	0.92%	0.95%	0.83%	0.09%	0.92%	0.74	0.74	1.48	0.46%	0.47%	0.94%	0.75	0.75	1.50
80	Alappuzha	Cherthala (M)	South	45827	54992	59391	0.62%	0.51%	0.55%	0.05%	0.60%	0.48	0.48	0.97	0.31%	0.26%	0.56%	0.45	0.45	0.90
81	Alappuzha	Haripad	South	30977	37172	40146	0.42%	0.61%	0.37%	0.06%	0.44%	0.35	0.35	0.70	0.21%	0.31%	0.52%	0.41	0.41	0.83
Pathanamthitta																				
82	Pathanamthitta	Thiruvalla (M)	South	52883	63460	68537	0.71%	0.89%	0.64%	0.09%	0.73%	0.58	0.58	1.17	0.35%	0.45%	0.80%	0.64	0.64	1.29
83	Pathanamthitta	Pandalam	South	45497	54596	58964	0.61%	0.91%	0.55%	0.09%	0.64%	0.51	0.51	1.03	0.31%	0.45%	0.76%	0.61	0.61	1.22
84	Pathanamthitta	Pathanamthitta (M)	South	37545	45054	48658	0.50%	0.77%	0.45%	0.08%	0.53%	0.42	0.42	0.85	0.25%	0.38%	0.64%	0.51	0.51	1.02
85	Pathanamthitta	Adoor (M)	South	29165	34998	37798	0.39%	0.66%	0.35%	0.07%	0.42%	0.34	0.34	0.67	0.20%	0.33%	0.53%	0.42	0.42	0.85
Kollam																				
86	Kollam	Karunagapally	South	47483	56980	61538	0.64%	0.26%	0.57%	0.03%	0.60%	0.48	0.48	0.96	0.32%	0.13%	0.45%	0.36	0.36	0.72
87	Kollam	Kottarakkara	South	30055	36066	38951	0.40%	0.56%	0.36%	0.06%	0.42%	0.34	0.34	0.67	0.20%	0.28%	0.48%	0.38	0.38	0.77
88	Kollam	Punalur (M)	South	46702	56042	60525	0.63%	1.10%	0.56%	0.11%	0.67%	0.54	0.54	1.08	0.31%	0.55%	0.86%	0.69	0.69	1.38
89	Kollam	Paravoor (M)	South	37189	44627	48197	0.50%	0.52%	0.45%	0.05%	0.50%	0.40	0.40	0.80	0.25%	0.26%	0.51%	0.41	0.41	0.81
Thiruvananthapuram																				
90	Thiruvananthapuram	Nedumangad (M)	South	60161	72193	77968	0.81%	1.04%	0.73%	0.10%	0.83%	0.67	0.67	1.33	0.40%	0.52%	0.92%	0.74	0.74	1.48
91	Thiruvananthapuram	Neyyattinkara (M)	South	70840	85008	91809	0.95%	0.89%	0.86%	0.09%	0.95%	0.76	0.76	1.52	0.48%	0.45%	0.92%	0.74	0.74	1.48
92	Thiruvananthapuram	Varkala (M)	South	40048	48058	51903	0.54%	0.48%	0.48%	0.05%	0.53%	0.43	0.43	0.85	0.27%	0.24%	0.51%	0.41	0.41	0.82
93	Thiruvananthapuram	Attingal (M)	South	37382	44858	43083	0.50%	0.54%	0.45%	0.05%	0.51%	0.41	0.41	0.81	0.25%	0.27%	0.52%	0.42	0.42	0.84
				7451262	**8897464**	**9313729**	**1**	**1.00**	**0.90**	**0.10**	**1.00**	**80.16**	**115.27**	**196.91**	**0.50**	**0.50**	**1.00**	**80.16**	**109.97**	**191.58**

ANNEXURE-5 (Page No-86-91)

List of Training Entities along with Subject Area

S.No.	Training Entity	Subject Area
1	**Regional Centre for Urban and Environmental Studies (RCUES), Lucknow.** Contact Person: Shri A.K. Gupta, Addl. Director, RCUES, Adjacent Registrar's Office, Lucknow Unversity Campus, Lucknow-226007 Phone: 0522 2740165; 7839470399 Email: ad.rcueslko@gmail.com	• Finance & Revenue • Engineering & Public Health • Town Planning • Administration • Urban Social Aspects
2	**Institute of Spatial Planning and Environment Research (ISPER), Panchkula.** Contact Person: Shri K Surjit Singh, Secretary General, ISPER, C-1 , Amraavati Enclave, P.O Amravati Enclaave, Panchkula, Haryana – 134105 Phones : 01733 – 261939, 9215014411 Email: isperonline@gmail.com	• Finance & Revenue • Engineering & Public Health • Town Planning • Administration • Urban Social Aspects
3	**Centre for Good Governance, Hyderabad** Contact Person: Shri Shabbeer Shaikh, Director (Governance & Urban Management), CGG, Road No. 25, Jubliee Hills, Hyderabad – 500033 Phones : 040 – 23554177/23686000, 9573001281 Email: shabbeer@cgg.gov.in	• Finance & Revenue • Town Planning • Administration • Urban Social Aspects
4	**All India Institute of Local Self Government (AIILSG),** Contact Person: Shri Ravi Ranjan Guru, Senior Executive Director, Mob: 9818098411 Phones : 011-28525465, 28521783 Email: raavi.guru@gmail.com	• Finance & Revenue • Engineering & Public Health • Town Planning • Administration • Urban Social Aspects
5	**Dr MCR Human Resource Development Institute, Hyderabad.** Contact Person: Dr. V. Deepa Nair, Professor, CUDS. Dr. MCR HRD Institute, Road No. 25, Jubliee Hills, Hyderabad – 500033 Phones : 040 - 23548487, 23557583, 9391049802. Email: deepanair@mcrhrdi.gov.in.	• Finance & Revenue • Engineering & Public Health • Town Planning • Administration • Urban Social Aspects
6	**Centre for Science & Environment, New Delhi.** Contact Person : Dr. Suresh Kumar Rohilla, Programme Director, Centre for Science & Environment, 41 Tughlakabad Institutional Area, New Delhi 110062.Phones :011 24645334, 24645335	• Engineering & Public Health • Town Planning
7	**Administrative Staff College of India, Hyderabad** Contact Person: Prof. V.S. Chary, Director, Centre for Energy, Environment, Urban Governance & Infrastructure Development, Administrative Staff College of India, Bella Vista, Hyderabad- 500082 Phone : 040-66534221	• Finance & Revenue • Engineering & Public Health • Town Planning • Administration
8	**Indian Institute of Human Settlements (IIHS), Bengaluru** Contact Person: Shri Swastik Harish, IIHS Bangalore City Campus: No. 197/36,2nd Main Road, Sadashivnagar, Bengaluru 570080 Phone : 8067606666, 8067606670, 9886297542. Email: sharish@iihs.ac.in	• Finance & Revenue • Engineering & Public Health • Town Planning • Administration • Urban Social Aspects

S. No.	Training Entity	Subject Area
9	**Centre for Environment and Development, Thiruvanthapuram.** Contact Person : Shri Babu Ambat , Executive Director, Centre for Environment and Development Vattiyoorkava, P.O Thiruvananthapuram – 695013 Phones : 0471 – 2369721 / 2369722/9447168040 Email: director@cedindia.org	• Finance & Revenue • Engineering & Public Health • Administration • Urban Social Aspects
10	**Regional Centre for Urban and Environmental Studies (RCUES), Hyderabad** Contact Person: G. Earnest Leslie, Research Officer, O/o Registrar and Director I/C, Osmania University, Hyderabad-500007, Telangana Phone: 040-27098494, 2709321, 27682254, 970486600, 8885260277 Email: ernest.leslie@gmail.com	• Finance & Revenue • Engineering & Public Health • Town Planning • Administration • Urban Social Aspects
11	**Indian Institute of Public Administration (IIPA), New Delhi** Contact Person: Prof. K. K. Pandey, Ring Road, I.P. Estate, New Delhi-110002 Phone: 011-23702434 9899100294, Email: kkpandey9236@gmail.com, 09873922335, email: amitsinghh@gmail.com	• Finance & Revenue • Engineering & Public Health • Town Planning • Administration • Urban Social Aspects
12	**Engineering Staff College of India (ESCI), Hyderabad** Contact Person: Dr. M. Subha, Senior Faculty, Environment Management Division, ESCI, Old Bombay Road, Gachi Bowli, Hyderabad-500032, Telangana Phone: 040-66304102,66304120, 9885948775. Email: em@escihyd.org	• Engineering & Public Health • Town Planning • Urban Social Aspects
13	**Administrative Training Institute, Government of West Bengal** Contact Person: Shri Kaushik Ghosh, Assistant Professor, Urban Management Centre, ATI, FC Block, Sector III, Salt Lake, Kolkata-700106, West Bengal Phone: 033-23373960, 23410109, 9830419290. Email: urbanmanagementcentre.ati@gmail.com	• Finance & Revenue • Engineering & Public Health • Town Planning • Administration • Urban Social Aspects
14	**CSIR-National Environmental Engineering Research Institute (NEERI), Nagpur** Contact Person: Dr. Pawan Labhasetwar, Scientist and Head, WTM Division, Nagpur-440020 Phone: 0712-2249756	• Engineering & Public Health
15	**Indian Institute of Technology (IIT) Roorkee** Contact Person: Prof. ManoranjanParida, Dean, Sponsored Research & Industrial Consultancy, Roorkee-247667, Uttarakhand Phone: 1332-285245, 285448	• Finance & Revenue • Engineering & Public Health • Town Planning
16	**Indian Institute of Technology (IIT) Kharagpur** Contact Person: Prof. Subrata Chattopadhyay, Head, Department of Architecture & Regional Planning, Kharagpur-721302, West Midnapore, West Bengal Phone: 03222-282245	• Engineering & Public Health • Town Planning

S. No.	Training Entity	Subject Area
17	**Yashwantrao Chavan Academy of Development Administration (YASHADA), Pune** Contact Person: Dr. Sunil Dhapte, Director, State Institute of Urban Development (SIUD), Rajbhawan Complex, Baner Road, Pune-411007, Maharashtra Phone: 020-25608000, 25608210, 25608357, 25608145, Email: director.siud@yashada.org	• Finance & Revenue • Engineering & Public Health • Town Planning • Administration • Urban Social Aspects
18	**Institute of Management in Government (IMG), Thiruvananthapuram** Contact Person: Shri P. K. Mohanty, Director General, Vikas Bhawan (P.O.), Thiruvananthapuram-695033, Kerala Phone: 0471-2304229	• Finance & Revenue • Engineering & Public Health • Administration
19	**HCM Rajasthan State Institute of Public Administration, Jaipur** Contact Person: Ms. Gurjot Kaur, Director General, Jawaharlal Nehru Marg, Jaipur-302017, Rajasthan Phone: 0141-2706556, 5162531	• Finance & Revenue • Engineering & Public Health • Town Planning • Administration
20	**Kerala Institute of Local Administration (KILA), Thrissur** Contact Person: Dr. P. P. Balan, Director, Mulamkunnathukavu P.O., Thrissur-680581, Kerala Phone: 0487-2201312, 2207000	• Finance & Revenue • Engineering & Public Health • Administration
21	**Indian Institute of Engineering Science and Technology (IIEST) Shibpur** Contact Person: Dr. Souvanic Roy, Professor and Founder-Director, School of Ecology, Infrastructure and Human Settlement Management (SEIHSM), Howrah-711103, West Bengal Phone: 033-26684561 (Ext-401)	• Finance & Revenue • Engineering & Public Health • Town Planning • Administration
22	**Administrative Training Institute, Mysuru** Contact Person: Shri G. Venkatesh Kadgada Kai, Director, State Institute of Urban Development, Lalitha Mahal Road, Mysuru-570011, Karnataka Phone:0821-2520116/163. Email: directorsiud@gmail.com	• Finance & Revenue • Engineering & Public Health • Town Planning • Administration • Urban Social Aspects
23	**World Resource Institute (WRI) India** Contact Person: Ms. Anupama Sivan, Head-Program Office, WRI India, 1st Floor, Godrej & Boyce Premises, Gasworks Lane, Lalbaug, Parel, Mumbai-400012, Maharashtra Phone: 022-24713565	• Town Planning
24	**Andhra Pradesh Human Resource Development Institute (APHRDI), Bapatla, Andhra Pradesh** Contact Person: Mr. Maroof Ahmed, Project & Training Associate, Campus of Extension Training Centre, Near Guntur Flyover, Bapatla, Guntur (Dist.), Andhra Pradesh-522101 Mobile:9986613296 Email: pta1.aphrdi@gmail.com	• Finance and Revenue • Engineering and Public Health • Town Planning • Administration

S. No.	Training Entity	Subject Area
25	**Tamil Nadu Institute of Urban Studies (TNIUS), Coimbatore, Tamil Nadu.** Contact Person: Dr. P.Tamizhselvan, Associate Professor 203, Alagesan Road, Saibaba Colony, Coimbatore,Tamil Nadu-641011 Email: fm@tnius.org Mobile:9442180163	• Finance and Revenue • Engineering and Public Health • Town Planning • Administration
26	**National Productivity Council (NPC), New Delhi** Contact Person: Mr. K.D. Bhardwaj, Director(Environment) 5-6, Institutional Area, Lodi Road, New Delhi-110003 Email: kd.bhardwaj@npcindia.gov.in Mobile:9999455646	• Administration • Engineering and Public Health
27	**TERI University, New Delhi** Contact Person: Mr. K. Rajagopal DGM (Project Monitoring) The Energy and Resources Institute (TERI), Darbari Seth Block, Indian Habitat Centre, Lodhi Road, New Delhi-110003. Email: krajag@teri.res.in Mobile:9811668882	• Town Planning • Engineering and Public Health
28	**Dr. R S Tolia Urban Academy of Administration,** Urban Development Cell (CGG), Nainital, Ardwell Camp, Mallital, Nainital, Uttrakhand-263001 Phones: 05942-237633,235011,236068. Contact Person: Shri Manoj Pande, Assistant Professor, 9897510978, manojpande64@gmail.com Email- urbandevp.uaoa@gmail.com	• Administration • Finance and Revenue • Engineering and Public Health • Town Planning • Urban Social Aspects
29	**Mahatma Gandhi State Institute of Public Administration Punjab,** Institutional Area, Sector-26, Chandigarh-160019 Phones: 0172-2793588/89/90/91,2793931 Contact Person- Prof Sanjeev Chaddha, Head Management Development Centre, Email- mdc.mgsipap@gmail.com, Col. Dalbir Singh, General Manager (Training, Project & Consultancy) Mobile No- 9888037966 Email- dalbirdhadwal1958@gmail.com	• Administration • Finance and Revenue • Engineering and Public Health • Town Planning • Urban Social Aspects
30	**CEPT University,** Kasturbhai lalbhai Campus, University Road, Navrangpura, Ahmedabad, Gujarat-380009 Phones: 079-26302470/26302740 Contact Person- Prof. Saswat Bandyopadhyay, Coordinator, CEPT University Mobile No.-8128291880 Email: cpd@cept.ac.in, saswatb@cept.ac.in	• Administration • Finance and Revenue • Engineering and Public Health • Town Planning • Urban Social Aspects

S. No.	Training Entity	Subject Area
31	**School of Planning and Architecture, Bhopal** Neelbad Road, Bhauri, Bhopal-462030. Contact person: Prof. Nikhil Ranjan Mandal, (HoD), Department of Planning. Ph. 8827059637 Email: nrmandal@spabhopal.ac.in	• Administration • Engineering and Public Health • Town Planning • Urban Social Aspects
32	**Centre for Policy Research, New Delhi** Dharma Marg, Chanakyapuri, New delhi-110021 Contact person: Mr. Shubhagato Dasgupta/Ms. Anindita Mukherjee, Senior Fellow, Ph:011-26115273-76, 9811660176, 9910704713 Email: shubhagato@cprindia.org/ anindita@cprindia.org	• Administration • Finance and Revenue • Engineering and Public Health • Town Planning • Urban Social Aspects
33	**Centre for Research in Rural and Industrial Development (CRRID),** 2A, Sector-19A, Madhya Marg, Chandigarh-160019. Ph:0172-2725406, 2725059 Contact Person: Prof Sukhpal Singh, Director General, CRRID. Email: dg@crrid.res.in	• Administration • Finance and Revenue • Engineering and Public Health • Town Planning • Urban Social Aspects
34	**S K Patodia & Associates,** 6th Floor, Shree Shakambhari Corporate Park, Plot NO. 156-158, Chakrabrati, Ashok Complex, J. B. Nagar, Andheri East Mumbai. Ph:022-67079444 Contact Person: CA Harsh Sarawagi-9999918430 Email: info@skpatodia.in	• Finance and Revenue
35	**Department of Environment Science.** **S. P. Pune University (SPPU)** (Formerly Pune University), Ganeshkhind, Pune-411007, Maharashtra. in association with in Association with 1.Unity Knowledge LLP,Pune & 2.IHE Delft, Netherland Contact Person: Dr. Suresh Gosavi, Professor and Head Department of Environment Science, S. P. Pune University. Ph:91-20-25601367 Email: hodenvsci@unipune.ac.in	• Engineering and Public Health • Urban Social Aspects