STATE ANNUAL ACTION PLAN (SAAP) (FY2016-17)

Kerala

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Atal Mission for Rejuvenation and Urban Transformation

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Checklist – Consolidated State Annual Action Plan of all ULBs to be sent for Assessment by MoUD (as per table 6.2)

S.No.	Points of Consideration	Yes/ No	Give Details
1.	Have all the Cities prepared SLIP as per the suggested approach?	Yes	All the Cities prepared SLIP as per the guidelines issued by MoUD.
2.	Has the SAAP prioritized cities for investment as per priority sectors and gap assessment?	Yes	In the SAAP, investment for project has been prioritised based on service level gaps in each sector.
3.	Is the indicator wise summary of improvements proposed (both investments and management improvements) by State in place?	Yes	Indicator-wise improvement is proposed in all five sectors for investment and Management.
4.	Have all the cities under Mission identified/done baseline assessments of service coverage indicators?	Yes	All 9 mission cities have done service level benchmarking in all five sectors to assess the service coverage
5.	Is the SAAP derived from an approach towards meeting Service Level Benchmarks agreed by Ministry for each Sector?	Yes	The projects in the SAAP are prioritised based on the gaps identified through the service level bench marking agreed by ministry in each sector.
6.	Is the investment proposed commensurate to the level of improvement envisaged in the indicator?	Yes	Investments proposed in SAAP are commensurate with Service Level improvement strategies derived after benchmarking
7.	Are State Share and ULB share in line with proposed Mission approach?	Yes	As per the mission guideline, the State share to be not less than 20% . In Kerala, the fund sharing pattern between State and ULB is 30: 20.
8.	Is there a need for additional	Yes	Yes. State has allocated the 1st instalment of

	resources and have state considered raising additional resources (State programs, aided projects, additional devolution to cities, 14th Finance Commission, external sources)?		funds under 14th Finance Commission to the ULBs. State will raise additional resources for AMRUT through devolution of fund to Municipalities and converging with other State and Centrally sponsored schemes.
9.	Does State Annual Action Plan verify that the cities have undertaken financial projections to identify revenue requirements for O&M and repayments?	Yes	The state has released the fund to the ULBs under 14 FC. However the possibility of meeting O&M cost through user charges, additional resource mobilization etc are being explored.. O&M can be met from the Maintenance Fund (Non Road) distributed to ULBs every year and cost recovery will be addressed while preparing the DPR .
10.	Has the State Annual Action Plan considered the resource mobilization capacity of each ULB to ensure that ULB share can be mobilized?	Yes	ULB level resource mobilization potentials and possibilities were explored. The HPSC has decided that in the case of financially weaker ULBs, State would consider contributing the ULB share of 20% in priority sectors. Also, ULBs have been encouraged to mobilise CSR/PPP models in the other sectors namely Urban Transport and Green Spaces.
11.	Has the process of establishment of PDMC been initiated and completed?	Yes	M/s WAPCOS -OASIS Consortium is shortlisted based on the technical and financial evaluation. Legal vetting of the contract agreement is ongoing.
12.	Has a roadmap been prepared to realize the resource potential of the ULB?	Yes	The resource mobilization capacity of each ULB has been analysed under CCBP (JnNURM). Also credit rating process has been initiated to assess the possibilities to improve the resource mobilisation through improved tax collection systems, user

			charge etc.
13.	Is the implementation plan for projects and reforms in place (Timelines and yearly milestones)?	Yes	Yes all departments concerning implementation of projects and reforms have been informed and discussed to prepare the implementation plan.
14.	Has the prioritization of projects in ULBs been done in accordance with para 7.2 of the guidelines?	Yes	Prioritization of projects has been done accordance to AMRUT guideline. Priority is given to the cities with higher gaps in the service levels of water supply and sewerage.

Principal Secretary/
State Mission Director

1/9/2016

T.K.JOSE. IAS
Principal Secretary to Government
Local Self Government Department
Government Secretariat
Thiruvananthapuram-695 001

ABBREVIATIONS

AMRUT	Atal Mission for Rejuvenation and Urban Transformation
ADB	Asian Development Bank
ATI	Administrative Training Institute
BFP	Business Cum Financial Plan
BRTS	Bus Rapid Transit System
CBO	Community Based Organisations
CA	Central Assistance
CCR	City Credit Ratings
CDP	City Development Plan
CFY	Current Financial Year
CPHEEO	Central Public Health and Environmental Engineering Organisation
CSP	City Sanitation Plan
CTP	Chief Town Planner
CWRDM	Centre For Water Resources Development And Management
DLP	Defects Liability Period
GIS	Geographic Information System
GoK	Government of Kerala
G Tech	Group of Technology Companies
EWS	Economically Weaker Section
IEC	Information, Education and Communication
IKM	Information Kerala Mission
IMG	Institute of Management In Governance
IRMA	Independent Review and Monitoring Agency
ITPI	Institute of Town Planners India
JICA	Japan International Cooperation Agency
JnNURM	Jawaharlal Nehru National Urban Renewal Mission
NRW	Non-Revenue Water
KILA	Kerala Institute of Local Administration
KMBR	Kerala Municipal Building Rules
KMRL	Kochi Metro Rail Ltd
KSRTC	Kerala State Road Transport Corporation
KSUDP	Kerala Sustainable Urban Development Project
KURDFC	Kerala Urban And Rural Development Finance Corporation Ltd)
KWA	Kerala Water Authority
LNG	Liquefied Natural Gas
LIG	Lower Income Group
LSGD	Local Self Government Department
MoUD	Ministry of Urban Development
NATPAC	National Transportation Planning and Research Centre
NEERI	National Environmental Engineering Research Institute

NMT	Non Motorised Transport
PMU	Project Management Unit
PPP	Public Private Partnership
PWD	Public Works Department
O&M	Operation and Maintenance
RTO	Regional Transport Office
RWA	Residents Welfare Association
SAAP	State Annual Action Plan
SLB	Service Level Benchmark
SLIP	Service Level Improvement Plan
SLNA	State Level Nodal Agency
SPV	Special Purpose Vehicle
TCP	Town and Country Planning Department
TMC	Thiruvananthapuram Municipal Corporation
TOD	Transit Oriented Development
URDPFI	Urban Rural Development Plans Formulation and Implementation
UIDSSMT	Urban Infrastructure Development Scheme for Small & Medium Towns
ULB	Urban Local Bodies
WC	Ward Committee

Minutes of the 6th State Level High Powered Steering Committee (SHPSC) of Atal Mission for Rejuvenation and Urban Transformation (AMRUT) held under the Chairmanship of the Chief Secretary on 26th August 2016 at 12.00 noon in the Committee Room of the Chief Secretary, Government of Kerala.

Members Present:

1. Dr K M Abraham IAS, Additional Chief Secretary, Finance
2. Shri. V J Kurian IAS, Additional Chief Secretary , Water Resources Department
3. Shri. T K Jose IAS, Principal Secretary, Local Self Government Department
4. Dr. V K Baby IAS, Special Secretary, Local Self Government Department & Mission Director, AMRUT
5. Sri. P S Mohammed Sagir IAS, Project Director, Kerala Sustainable Urban Development Project & Nodal Officer, AMRUT
6. Shri. Ajit Patil IAS, MD, Kerala Water Authority
7. Dr. K Vasuki IAS, Executive Director, Suchitwa Mission
8. Shri. P R Sajikumar, Deputy Engineer, Local Self Government Department.
9. Shri. Raveendran T, Technical Member, Kerala Water Authority
10. Shri. Shaji Joseph, Chief Town Planner (Planning)

The meeting of the 6th State Level High Powered Steering Committee (SHPSC) of AMRUT chaired by Sri. S.M. Vijayanand IAS, Chief Secretary, Government of Kerala, commenced at 12.00 noon.

1. Additional Chief Secretary (Water Resources) informed the SHPSC that, as per the decision of 5th SHPSC, a meeting was called to discuss the feasibility of projects proposed under Water Supply and Sewerage/ Septage management. The Principal Secretary LSGD, Managing Director of Kerala Water Authority (KWA) and senior officials from KWA attended the meeting and finalized the projects to be proposed under State Annual Action Plan(SAAP) 2016-17.

2. The Nodal officer presented the SAAP 2016-17 including the list of projects proposed under SAAP. The SHPSC discussed each project proposed under SAAP 2016-17 in detail and the comments on the projects are enclosed as ANNEXURE I. The SHPSC decided to approve the SAAP 2016-17 amounting to Rs 796.06 Cr and recommended

to submit the SAAP for consideration of the Apex Committee subject to the following conditions.

Water Supply Sector

- MD, KWA should certify that water supply projects proposed under AMRUT are not considered under JICA, JnNURM, KSUDP, UIDSSMT or any other schemes to avoid Duplication.
- KWA to submit the details of the proposed projects for AMRUT on the City's Map, showing the existing network and the location of the newly proposed projects to the Nodal Officer within two weeks. The details should also include the definite components and expected gain from these projects. These maps along with the expected improvements, impact and project duration shall be informed to public and monthly progress of each project to be published in the website of State Mission Management Unit(SMMU)-AMRUT and KWA.
- Bulk metering should be installed in all cities and zones to track the area wise distribution and consumption.
- MD, KWA shall ensure safe source of water in the projects.
- KWA has to plan meticulously while preparing the DPRs to minimise planning errors that may eventually lead to execution errors.
- The committee informed KWA that only capital investment projects can be proposed and consumables should not be included in the proposals.
- There shall be a tripartite agreement between ULB-KWA and LSGD/AMRUT Mission.
- KWA would be responsible for cost overrun.

Sewerage and Septage Management

- Coastal areas to be given priority while preparing the projects with options for septage management.
- Decentralised sewerage systems with water recycling and reuse & septage management to be given priority in AMRUT, except Thiruvananthapuram which already has a sewerage system & STP.
- Works should be executed through a competitive Engineering Procurement Construction (EPC) model by the urban local governments inviting National Competitive Bidding.

Storm Water Drainage

- All the mission cities to prepare contour map and drainage plan. The drainage proposals shall be based on these maps only.
- Projects proposed should not be fragmented in nature. It has to cover the run off of an any specific area planned or for the entire area with assured networking with the primary drains/ canals. The drains so planned should have a beginning and end ensuring complete drainage.
- Chief Engineer, LSGD to inspect sites of projects and to assess the existing contour conditions, incidence of water logging, the possible networking with the primary drains etc.
- The drains planned should also have provision for utility ducts in all mission cities.

Urban Transport

- Footpath to adopt best in class features with barrier free designs. Include the provisions for cycle pathways where ever the road width is adequate.
- Multi level parking if proposed should be conceived as Public Private Partnership with Build Own Operate Manage and run/ Build Own Operate and Transfer basis only.

Green Spaces & Parks

- All AMRUT cities should promote walkability and develop public spaces and create recreational spots with ample lung space for citizens with provisions for walking/Cycle tracks to improve community fitness.
- The ULBs have to explore the possibilities to mobilise the ULB share through PPP/ CSR .

3. The SHPSC also directed that, location of all the projects proposed in all sectors, while submitting the DPR for Administrative Sanction should clearly mark in the respective city map the the benefits of the project ensuring there is no duplication of projects already proposed under JICA, KSUDP's ADB loan or UIDSSMT etc. The same should be uploaded in the website of State Mission Management Unit to ensure maximum transparency .

4. The Financial outlay for each sector and city were also discussed in detail.

Name of City	Water Supply	Sewerage & Septage	Drainage	Urban Transport	Green Spaces	TOTAL Amount as per SAAP
Thiruvananthapuram	29.04	50.69	19.09	11.23	2.25	112.30
Kollam	34.07	24.93	15.00	7.44	1.66	83.10
Alappuzha	56.87	2.00	13.00	3.00	1.53	76.40
Kochi	63.04	30.78	17.44	10.26	2.05	123.57
Thrissur	36.08	26.40	14.96	8.80	1.76	88.00
Guruvayur	41.05	10.00	0.14	19.00	1.42	71.61
Palakkad	32.00	22.59	12.80	7.53	1.51	76.43
Kozhikode	31.83	27.03	15.32	14.12	1.80	90.10
Kannur	30.38	22.23	12.60	7.41	1.48	74.10
TOTAL	**354.81**	**216.65**	**120.35**	**88.79**	**15.46**	**796.06**

Amount for which SAAP to be prepared for the year 2016-17 is Rs 772.8 Cr, However the estimated cost of projects proposed by the State is Rs 796.06 Cr. After consulting with the Additional Chief Secretary (Finance), the SHPSC decided that the additional amount of Rs 23.28 Cr would be allocated as State share.

The SHPSC also decided to approve along with the project list, the Capacity Building Plan and the Reform Implementation Roadmap to be included as part of SAAP 2016-17.

5. The SHPSC also decided to assess the possibility to support financially weak ULBs by contributing the ULB share (20%) for projects under Water Supply, Decentralised Sewerage treatment and Septage Management and Non motorised Transport systems. Multi Level car parking development and rejuvenation of parks to be taken up on PPP mode by the ULB.

6. SHPSC entrusted the Special Secretary, LSGD to draft a tripartite agreement to be signed among the Secretary-Mission City, MD - KWA and Mission Director-AMRUT. The Terms of Reference in the tripartite agreement should include the scope of work for each project including its deliverables, time duration, cost specification, O&M procedures, expected

impact on the town/city, improvement in coverage, quality/distribution quantity and service levels & additional number of piped connections during the operational phase of the project. Urban Local Governments would monitor all KWA and other projects.

Payment to KWA will be effected subject to the concurrence/clearance on satisfactory performance and accomplishing agreed deliverables as per the contract and the cost escalation to be fully met by KWA.

7. A Third Party Quality Check for Quality Assurance is required while implementing the projects under AMRUT. The Committee decided to constitute an expert panel with engineers from relevant streams namely Civil, Mechanical & Electrical Engineering. Experts shall be included from NIT Calicut, CET, GEC Thrissur & from reputed engineering colleges in Kerala, Institution of Engineers, Kerala etc . The cost for the same shall be met from the A&OE of AMRUT. The panel shall be decided by the Nodal Officer & Mission Director, AMRUT.
8. Status of all the projects to be published in the SMMU website from 31st of August 2016 and once projects start off, work progress including site photos have to be regularly uploaded in both State Mission Management Unit and KWA's websites on a weekly basis. KWA shall update the progress of their projects under AMRUT in their website also. The SHPSC noticed that at present KWA website is not available and MD, KWA promised that KWA website will be uploaded within a month positively.
9. Suchitwa Mission to take lead in sending technically qualified professionals from the State to study the successful models of Sewerage and Septage Management implemented in other States. This will help in replicating such models in Kerala.
10. The SHPSC directed that the institutional & implementation mechanism of Sewerage Sector projects as and when the proposals arrive will be decided by the State Level Technical Committee.

The meeting concluded at 2.00 PM.

1/9/2016

Principal Secretary,
LSGD

T.K.JOSE. IAS
Principal Secretary to Government
Local Self Government Department
Government Secretariat
Thiruvananthapuram-695 001

1/9/16

Chairman
SHPSC, AMRUT &
Chief Secretary, Govt. of Kerala

ANNEXURE I

Comments / Suggestion of SHPSC on the project prosed under SAAP 2016-17

1	THIRUVANANTHAPURAM	**Sewerage Project:** Project to be complete in nature, priority to be given to the Decentralised project proposed within the Medical College campus. The project may be phased out over 3 years with Sewerage management in phase –I , water recycle, rainwater harvesting etc to be included in the phase -2 & 3 and to be completed within the AMRUT mission period. **Strom water drainage:** Specify the area coverage along with the need of the project and expected outcome. **Parks :** The Names of parks/ open spaces to be submitted by the ULB , along with the location map and photographs **Action by : CMMU, AMRUT & KWA Time Limit : 5 Sept 2016** **Monitoring By : Nodal Officer, AMRUT**
2	ALAPPUZHA	**Storm water drainage:** Exactly specify what improvements can be brought about by these projects with respect to service levels. A clear description of the improvements needs to be depicted. **Action by : CMMU, AMRUT Time Limit : 5 Sept 2016** **Monitoring By : Nodal Officer, AMRUT**

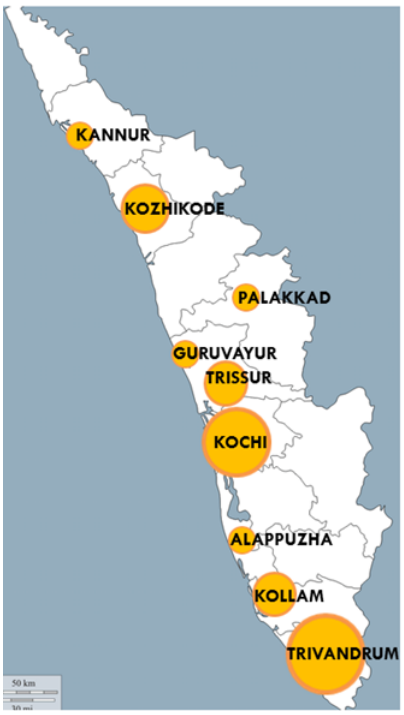
3	KOCHI	**Water supply :** Projects should focus more on equitable distribution and stress on implementing new water supply lines to areas without coverage. Bulk metering to be installed in these areas to ensure quantification of water supplied. Better controlled distribution of water over the complete network will increase both quality and quantum of water supplied. Subject to following the above conditions and ensuring the benefits, the Committee agreed to meet the extra cost for these water supply projects from the state funds. **Sewerage System:** The project is proposed to create decentralised sewerage system on ward basis, with shallow and small piped network. A consultant has been appointed to prepare a DPR, in association with KWA. **Green Spaces :** The proposal should have exact descriptions of which & what kind of improvements are planned in these parks. **Action by : CMMU, AMRUT & KWA** **Time Limit : 5 Sept 2016** **Monitoring By : Nodal Officer, AMRUT**
4	THRISSUR	**Water Supply:** 1. The old plant of 14.5 MLD shall be decommissioned and a new plant of 20 MLD shall be built to serve the need of the ULB using the already existing conveyance system. 2. The project of laying pipes will only be for the uncovered area of the corporation. All projects under water supply in AMRUT cities should be depicted on a map, clearly indicating the changes being brought about and the gains of these projects to the public. A monthly progress report both physical and financial, with photographs shall be published in the KWA's website. **Action by : AMRUT PIU, KWA** **Monitoring By : MD, KWA** Decentralized sewerage and waste water management – EPC to be done

5	GURUVAYUR	• **Water Supply** : ACS(Water Resources) suggested to use the Karuvannur river as the source for water supply projects for Guruvayoor Municipality as there is doubt in the availability of water in Bharathapuzha river throughout the year, whereas Karuvannur river has sufficient water availability throughout the year. The DPR should also identify an alternative source of water. Feasibility for desalination plant at Chavakkad to cater the demand of Guruvayur & Chavakkad to be studied, since Arabian sea is nearby saving on laying conveyance system. Based on the above studies, decision will be taken as to which project is more feasible to serve the need to Guruvayur. The committee decided to allocate a lump sum amount of 26 crore for " Improvement of water supply system for Guruvayur". **Action by : AMRUT PIU, KWA** **Monitoring By : MD, KWA** **Sewerage:** The project proposed is for the extension of the existing network since a sewerage system is already in place for Guruvayur, needing another 160 m of network laying. **Storm Water Drainage :** It was noticed by the committee that the amount proposed is very less to cover 43 wards. Priority of the project should be to drain out water logged areas. CE LSGD shall study & propose which area needs immediate attention based on the contour map and drainage characteristics of the city. The committee decided that the cost allotted for drainage be utilised for an area which will bring total drainage. **Action by : CE, LSGD** **Time Limit : 12 Sept 2016** **Monitoring By : Mission Director, AMRUT** **Urban Transport** : The committee agreed to the need of the Multi Level parking project and decided that the project should only be on PPP as Build Own Operate Manage and run/ Build Own Operate and Transfer basis.

6	PALAKKAD	**Water Supply :** The committee agreed to the proposals and informed KWA that the proposal has to ensure water supply to the current water deficit areas. **Storm Water Drainage:** The proposals should be based on the contour map available with the ULB and should be for an area. Fragmented drains should not be considered.
7	KOZHIKODE	**Water Supply:** MD informed that CE of Kozhikode will ensure & certify that there will be no duplication of work under any other previous scheme. The committee entrusted MD, KWA to ensure that no duplication of projects under JICA. **Action by : AMRUT PIU, KWA** **Monitoring By : MD, KWA** **Sewerage:** The committee decided that the decentralised sewerage system planned in the new area should be implemented through EPC bidding process.
8	KANNUR	**Water Supply:** MD, KWA informed that the project proposed for Kannur will enhance the capacity of the existing treatment plant by 10 MLD & can be conveyed using the already existing pipe network. Laying of new pipes will not be required as the gravity main already has a capacity of conveying 40 MLD. The demand of Kannur being 25 MLD, the extra 15 MLD will be met from the project inJICA. The Chairman directed KWA that the project should include households of the 4 newly added Panchayaths & it has to be ensured 150 LPCD supply is achieved in the ULB as stated.

9	KOLLAM	**Water Supply :** MD, KWA informed the committee that a total of Rs. 368 cr is required for meeting the demand of 90 MLD for Kollam Corporation. Rs.220 Cr would be required as the production component and Rs 148 cr as the transmission component. As the whole requirement cannot be fulfilled under AMRUT, decision may be taken as to which component can be partially addressed from the available funds under AMRUT. Chairman noted that since AMRUT is only for another three years, the part of the production component should be addressed first. It was decided that the below components shall be implemented under AMRUT using the allocated financial envelop for 2016-17 & 17-18 (ie. 74.85 Cr); 1.Well Cum Pump house &Transformer room 2. Construction of Weir at Intake 3. Construction of WTP (90 MLD) 4. Construction of OHSR at Vadoorichira (24LL) 5. Contingency & Unforeseen The committee decided that the remaining fund required to complete the project would be sourced from Kerala Infrastructure Investment Fund Board. **Sewerage Sector :** The committee deliberated on the proposals. Since there is no clarity on the projects in Sewerage already existing under other schemes, in AMRUT focus will be given for decentralised sewerage system with septage management, giving importance to providing solutions for Coastal Areas.

Nine cities have been identified from the State of Kerala for funding under AMRUT . The Mission cities include 6 Municipal Corporations and 3 Municipalities targeting a population of around 34.71 lakhs (22% of the total urban population) for direct benefits.



S N	City Name	Population (persons)	Area (Sq.Km)	Density Persons/ sqkm
1	Trivandrum	957730	214.86	4457
2	Kollam	349033	57.31	6090
3	Alappuzha	176164	46.77	3767
4	Kochi	596473	94.88	6287
5	Trissur	315596	101.42	3112
6	Guruvayur	105012	29.66	3541
7	Palakkad	131019	26.6	4926
8	Kozhikode	608255	118.58	5129
9	Kannur	232486	78.35	2967
10	TOTAL	34,71,768	768.43	

AMRUT in Kerala

AMRUT aims at ensuring basic infrastructure services such as water supply, sewerage, storm water drains, transport and development of green spaces and parks with special provision for meeting the needs of children. The total Central Allocation to Kerala under AMRUT is Rs 1161.20 cr. In line with the mission guideline, the Service Level Improvement Plans were prepared by all the mission cities.

City wise distribution of Service Levels

Name of the City	Water Supply			Sewerage				Drainage	Urban Transport		Open spaces
	Household coverage	Quantum of water supply	Water quality	Latrine coverage	Sewer	Collection	Treatment	Network coverage	Service coverage	Availability / 1000 persons	Open space/ person)

State Annual Action Plan (SAAP)

Trivandrum	83	99	95	99	37	58	58	60	1.1	0.61	0.54
Kollam	39	51	95	97	0	0	0	25	1.76	2.06	5.19
Alappuzha	61	50	66	99	0	0	0	10	2.21	1.26	3
Kochi	85	145	100	95	3	3	4	43	1.8	0.42	10.9
Thrissur	60	93	80	95	0	0	0	6	5	4	14.9
Guruvayur	40	50	90	99	0	0	0	15	2	4	14.9
Palakkad	62	88	100	95	0	0	0	61	3.26	5.26	3.4
Kozhikode	44	100	100	97	0	0	0	50	1	2	12
Kannur	43	90	100	98	0	0	0	15	3	4	0.6
STATE AVERAGE	**57.4**	**85.11**	**91.8**	**97.1**	**4.4**	**6.8**	**6.9**	**31.7**	**2.4**	**2.6**	**7.3**

As the mission aims at universal coverage of drinking water supply and sewerage/septage management, the State also has primary focus on water supply and sewerage projects. During 2015-16, an amount of Rs 287.98 Cr was allotted as CA to the State and the SAAP for Rs 587.48 Cr was approved.

Institutional Mechanism

		Status	Remarks
1	SHPSC	Constituted	Chief Secretary as the Chairman
2	SLTC	Constituted	Principal Secretary , LSGD as Chairman
3	Mission Director	Appointed	Special Secretary , LSGD
4	Nodal Officer	Appointed	Project Director, KSUDP
5	SMMU	Constituted	6 Sectoral Specialists are positioned
6	CMMU	Appointed	Two members each in all mission cities.
7	PDMC		Shortlisted M/S WAPCOS based on an open tender process. The agreement has been given for legal vetting and consent of finance dept.

8	IRMA	-	Process initiated
9	DMC	-	Process initiated

Fund allocation to the State of Kerala

Mission Period Rs in Cr		2015-16		2016-17		2017-18	
ACA	SAAP	ACA	SAAP	ACA	SAAP	ACA	SAAP
1161.20	**2333.92**	**287.98**	**587.48**	**386.40**	**772.80**	**486.82**	**973.64**

All 9 mission cities prepared SLIP for 5 sectors and SLIPs were aggregated into the SAAP 2015-16 and the SAAP was approved for an amount of Rs 587.48 cr on 26th November 2015. The State has received 20% of the SAAP amount as advance ie, Rs 57.60 Cr Mission cities have prepared and submitted DPRs for 20 projects worth Rs 34.39 Cr in the FY 2015-16 .

Tables 1.1, 1.2.2, 1.3, 1.4 ,3.2 and 3.4 included in Chapter 4

CHAPTER 2: REVIEW OF SAAPS

The state is required to prepare SAAP every year and get it approved by the Apex Committee. Before preparing the current year's SAAP, a key requirement is to review the performance of the approved SAAP of the previous years. This chapter reviews the performance of the implementation of the past SAAPs on key themes in the AMRUT Guidelines.

Project Progress

In this section the physical and financial progress is reviewed. Please complete the following table and respond to the questions.

City	Sector	Name of Projects	Project Cost (Cr)	DPR prepared (Y/N)	SLTC sanction (Y/N)	Work Order (Y/N)	Physical Progress in %	Financial Progress %	Amount Disbursed till date (Rs. in Cr)
THIRUVANANTHAPURAM	Water Supply	Construction of new of Water Treatment Plant of 45mld with pulsator technology	45.00	Y	N	N	0	0	5.304
	Sewerage & Septage Management	Supplying Conveying Laying 900mm dia DI pumping main at Muttathara Sewage Treatment Plant and construction of new bridge with pile foundation and allied works	33.65	Y	Y	N	0	0	
		Rehabilitation of existing pump and machineries			Y	N	0	0	
		Amruth Project 2015-16 D Block Zone-II-Supplying, conveying, laying and jointing700mm dia RCC NP3 Pipe sewer trunk main II from Murinjapalam – Kannamoola Chainage - 952m to 1728m			N	N	0	0	

		Amruth-Improvement of TSS. Sewerage treatment plant (5mld)for medical College Trivandrum							
		Amruth-Improvement of TSS.-Construction of Pump House at Edathara							
		Amruth-Improvement of TSS-Supplying and Laying Pumping main from Edathara Pump House to STP at Muttathara							
	Storm Water Drainage	Cleaning and removing the silt and debris from the existing drain	17.98	Y	Y	Y	0	0	
		Coverage of drainage network of 13.23 km							
	Urban Transport	Pedestrian Walkway	6.50	Y	Y	Y	0	0	
	Green Space & Parks	Developing parks	0.60	Y	Y	Y	0	0	
KOLLAM	**Water Supply**	Improvement of existing system, laying distribution network & installation of Chlorination arrangements	1.00	Y	Y	N	0	0	6.232
		Rainwater harvesting	0.87	N	N	N	0	0	
		Improvement of water supply scheme to Kollam Corp.	25.00	N	N	N	0	0	
	Sewerage	STP at Zone A1	25.00	N	N	N	0	0	
		Septage Treatment Plant	6.42	N	N	N	0	0	
	Storm Water Drainage	Storm Water Drain between Uliakovil – Ashtamudi	2.20	Y	Y	N	0	0	

	Urban Transport	Foot Over Bridge- 3 nos	3.20	N	N	N	0	0	
		Foot Path	0.49	Y	Y	N	0	0	
	Green Space & Parks	Improvement of Parks-6 nos.	1.50	Y	Y	N	0	0	
ALAPPUZHA	**Water supply**	Augmentation and modernization of water supply distribution system in Alappuzha Municipality.	33.90	Y	N	N	0	0	0.20
	Sewerage	Decentralized treatment system for septage management	2.09	N	N	N	0	0	
	Storm water Drainage	Renovation and construction of drainage networks at Alappuzha Municipality.	6.28	N	N	N	0	0	
	Urban Transport	Construction of permanent infrastructures (foot over bridges)	4.50	N	N	N	0	0	
		Procurement of two motorized ferry vessel for transportation of inhabitants of islands at Nehru Trophy ward.	0.35	N	N	N	0	0	
		Construction of 10 km (approx) pedestrian friendly foot paths covering major traffic areas.	2.00	N	N	N	0	0	
	Green Space & Parks	Development of of existing Picnic spot and its environs in the Civil Station Ward.	0.25	Y	Y	N	0	0	
		Development of park in the Chathanadu Ward.	0.50	N	N	N	0	0	
		Development of green cover and boundary wall at Valiamaram.	0.14	N	N	N	0	0	

KOCHI	Water supply	Rain Water Harvesting	1.00	Y	Y	Y (LOA issued)	0	0	4.576
		Replacement of damaged service line	3.00	N	N	N	0	0	
		Replacement of Faulty of Maters in the service connection & installing Bulk Meters at various location in the main distribution line	3.98	N	N	N	0	0	
	Sewerage	Implementation of Decentralised Sewerage System	33.78	N	N	N	0	0	
	Storm water Drainage	Rejuvenation Of Major Canals (Pashnithodu Canal)	2.00	Y	Y	Y (LOA issued)	0	0	
		Rejuvenation Of Major Canals (Thevara - Perandur Canal and connected sub & area drains)	22.56	N	N	N	0	0	
	Urban Transport	Construction Of Foot Path And Bus Bays 1.Footpath from Jose Jn. To atlantis at MGRoad	2.00	Y	Y	Y (LOA issued)	0	0	
		Construction Of Foot Path And Bus Bays 1.Footpath from Atlantis To Thevara at MGRoad 2.Subhash Chandra bhose road 3. K.P.Vallon road	7.21	N	N	N	0	0	
	Green Space & Parks	Renovation of St. John Park- FortKochi	0.38	Y	Y	Y (LOA issued)	0	0	
THRISSUR	Water Supply	Survey and Replacing of Faulty Meters	3.00	Y	Y	N	0	0	
		Providing Bulk Meters(700mm To 100mm)40 Nos In Transmission Mains	1.00	Y	Y	N	0	0	

		Laying of 700 mm DI K9 pipe at peechi from Dam to Treatment Plant(350 MTR)	1.00	Y	Y	N	0	0	6.40
		Rejuvenation Of Treatment Plant of 14.5 MLD at Peechi	3.00	Y	Y	N	0	0	
		Construction of New OHSR of capacity 20ML at Ollur and Distribution Lines(varying Dia) for 20Km	12.00	Y	N	N	0	0	
		Augmentation of Treatment Plant At Ollukkara of 1.5MLD To 3 MLD including replacement of pumping main	4.00	N	N	N	0	0	
		Laying 350 mm DI K9 pipe from Chempukkavu Reservoir To Koorkanchery Sump(3100MTR)	3.00	Y	N	N	0	0	
		Replacement of Ac Pipe To 200 mm DI and 160 mm PVC Pipes for around 42KM	11.27	Y	N	N	0	0	
		Renovation of OHT and Pump Houses at Koorkanchery, and Cherur	0.45	Y	N	N	0	0	
	Sewerage	Waste Water Treatment plant phase-1 Land development	5.00	N	N	N	0	0	
		Septage plant	6.00	N	N	N	0	0	
	Drainage	Construction of new drains and reconstruction of culverts	15.22	N	N	N	0	0	
	Urban Transport	Renovation of foot path	5.18	N	N	N	0	0	
	Green Space & Parks	Rejuvenation of Nehru Park, Division No.36, Thekkinkadu	0.91	Y	N	N	0	0	
GURUVAYUR	**Water Supply**	Distribution Network for a length of 30 Kms for improvememt of coverage	13.72	N	N	N	0	0	0

	Sewerage	Making additional arrangements such as collection sump, pump set, piping arrangements etc for treatment of septage at the ongoing STP at chakkumkandam	4.50	N	N	N	0	0	0
	Storm Water Drainage	Covering And Repair of Minor Drains	13.07	N	N	N	0	0	0
	Urban Transport	Renovation of foot path with stainless steel pedestrian guard rail as part of temple circle development	8.17 Cr	N	N	N	0	0	0
	Green space & Parks	Development of park and playground at Bhagath singh ground, ward No.8, Pala bazar	2.0 Cr	N	N	N	0	0	0
		Development of park at sub centre Thozhiyoor, ward No. 42,Thozhiyoor	0.30 Cr	N	N	N	0	0	0
PALAKKAD	**Water Supply**	Providing new DI pipe lines of 600 mm diameter and a length of 2.6 km from Malampuzha plant to Mattumantha OHSR pumping main	3.20	Y	N	N	0	0	4.80
		Providing new DI pipe lines of 600 mm diameter and a length of 2 km from Puthur chantha junction to Vadakkanthara police quarters pumping main	3.00	Y	N	N	0	0	
		Providing new DI pipe lines of 450 mm diameter and a length of 4.65 km from Mattumantha OHSR to Kalmandapam pumping main.	3.80	Y	N	N	0	0	
	Sewerage	Decentralised septage and sewage treatment facilities	9.75	N	N	N	0	0	
	Storm water drainage	Kalvakkulam Thodu desilting and side wall (from stadium stand to Ramanandapuram)	1.54	Y	Y	N	0	0	

		Widening of Manappillikkavu Thirunellayi stream and construction of bridge	2.00	N	N	N	0	0
		Rejuvenation of drains around Sakunthala junction and construction of tertiary drains	2.00	N	N	N	0	0
		Rejuvenation of drains at housing board colony, Mattumantha, Shekaripuram junction and construction of tertiary drains.	3.00	N	N	N	0	0
	Urban transport	Providing pedestrian network and bicycle tracks on both sides of college road (100 ft road) and Fort area	10.00	Y	Y	N	0	0
		Escalator to be provided at GB road to cross railway line	2.00	N	N	N	0	0
		Mayins Girls high school to Mayins LP school foot over bridge	0.50	N	N	N	0	0
		PMG higher secondary School to Victoria College elevated footpath	0.50	N	N	N	0	0
		Mission High School to Municipal Junction elevated footpath	0.50	N	N	N	0	0
		Victoria college to Anju vilakku (sulthan petta) pedestrian network	3.92	N	N	N	0	0
	Green Space and Parks	Kotta Maidanam and Cheriya Kottamaidanam Rejuvanation	1.50	Y	Y	N	0	0
		Ramadevi Nagar Park	0.75	Y	Y	Y	0	0
		Eshwar Garden Park (ward 15)	0.75	Y	Y	Y	0	0
		Park Behind Victoria college (ward 15)	0.78	N	N	N	0	0

		Kasim colony park	0.50	N	N	N	0	0	
		Aiswarya Nagar Park	0.50	N	N	N	0	0	
		Municipality Traffic park (added since the dpr costs of ramadevi and eashwar garden was less)		Y	Y	Y	0	0	
KOZHIKODE	**Water supply**	Rehabilitation of existing old pipes, valves,and interconnections with existing lines	17.87	Y	N	N	0	0	0
	Sewerage	Construction of sewerage system in zone A	45.60	N	N	N	0	0	0
	Storm water drainage	Construction of drain at Gurukkal Road-PMKutty Road-Chakkittada-EK Canal	6.81	N	N	N	0	0	0
	Urban Transport	No Projects	NA	NA	N	N	0	0	0
	Green space and parks	Rejuvanation of Mananchira Park	0.85	Y	N	N	0	0	0
KANNUR	**Water supply**	Supply augmentation for JICA pattuvam project by laying transmission main to project area-	20.00	Y	N	N	0	0	0
		Construction of two nos service reservoirs in the project area.	6.00	Y	N	N	0	0	0
		Rehabilitation of existing old network, valves, house service connection and inter-connections with existing lines including road reformation	15.70	N	N	N	0	0	0

		charges							
	Sewerage	Decentralised sewerage and septage management system	4.17	N	N	N	0	0	0
	Storm Water Drainage	Construction/rejuvenation of drains-Part	11.13	N	N	N	0	0	0
	Urban Transport	Procurement of AC low floor buses	PROJECT IS CANCELLED BY THE MoUD (asked to include in Sewerage Sector)						
	Green space and parks	Rejuvenation of SN Park	1.25	N	N	N	0	0	0

- Have DPRs been prepared for all projects approved earlier? If not then which are the projects for which DPR is pending and why? (500 words)

DPRs have been prepared for 43 out of 89 projects approved in SAAP 15-16.

Status summary	
DPRs prepared and accorded AS and TS	25
DPRs prepared and awaiting AS	18
DPRs to be prepared	46
Total DPRs	**89**

DPRs that have been accorded AS by SHPSC and TS by SLTC : 25 Nos

Sector	Water Supply	Sewage and Septage	Storm water drainage	Urban Transport	Green Spaces & Parks	Total
No. of projects	6	2	5	4	8	25
Project cost (Rs in Cr)	15.91	3.72	5.6	5.49	3.18	33.9

Reasons for delay: 1. In the second SHPSC held on 17 Feb 2016, it was decided that the AS shall be accorded by SHPSC itself , to avoid procedural delays in getting sanction from the Finance Dept. of the State. To speed up the process, SHPSC has decided that the TS shall be accorded by the respective departments responsible for implementation of these projects following their procedures, which later would be approved by the SLTC.

2. The general elections to the State Assembly in May 2016, did bring in a delay in all processes because of the prevalence model code of conduct and also ULB officials were in-charge of elections duties.

3. The Change in Government after the election and the appointment of new administrative officials had affected the approval process.

4. The 3rd SHPSC held on 4th July 2016 decided that technical sanction shall be accorded by a panel of external technical experts group. This decision was taken so that the projects proposed would be scrutinized thoroughly & then forwarded to SLTC for approval. The SLTC meeting held on 4th Aug 2016 decided that a ten member panel be constituted to technically scrutinize all DPR's. The constitution of the panel is underway. The delay in approval of DPRs was due to the above stated reasons.

No. of DPRs currently awaiting Administrative and Technical Sanction: 18Nos

DPRs awaiting AS						
Sector	Water Supply	Sewage and Septage	Storm water drainage	Urban Transport	Green Spaces & Parks	Total
No. of projects	12	4	0	0	2	18
Project Cost (Rs. In Cr)	164.08	29.93	15.88	6.41	2.06	218.36

No. of DPRs to be prepared

DPRs yet to be prepared : 46						
Sector	Water Supply	Sewage and Septage	Storm water drainage	Urban Transport	Green Spaces & Parks	Total
No. of projects	7	10	9	12	8	46
Project Cost (Rs. In Cr)	55.77	142.51	70.61	45.12	8,22	322.23

- What is the plan of action for the pending DPRs? (300 words)

The following steps are being taken for the preparation of pending DPRs :

1. All DPRs for water supply are being prepared by Kerala Water Authority and is under way.
2. Encouraging the ULB Engineering department to take up Project Report preparation for minor components as per their capability.
3. Ensure placement of PDMC at the earliest.
4. Constitution of the External Technical Experts Panel to review the DPRs and accord TS.

- How many SLTC meetings had been held in the State? How many DPRs have been approved by the SLTC till date? (250 words)

Three SLTC meeting were held till date i.e., 28 Jan 2016, 19 April 2016 & 4 Aug 2016.

25 DPRs have been approved by the SLTC till date.

- By when will the pending DPRs be approved by the SLTC and when will implementation start? (250 words)

All DPRs pending in Water Supply is expected to be approved by the second week of October 2016.

The projects under Storm Water Drainage, Urban Transport & Green Spaces and Parks, to be handled by the Engineering staff in the ULB.

Projects in Sewerage & Septage Sector would need more time for implementation, since all the projects envisaged in Mission cities (except Thiruvananthapuram which already has a sewerage system and STP) need detailed study in terms of topography, land availability and suitable technological options. This requires technical expertise from external agencies. Also, for projects like Multilevel parking facilities, ULBs would need additional technical support. The PDMC should therefore be in place to suggest suitable solutions.

It is expected that by October 2016, the PDMC would be in place. Hence DPRs of all projects under SAAP 15-16 is likely to be ready by March 2017.

- Based on the identification of delayed projects and the reasons for slow physical progress, what is the plan of action to speed-up the projects? (300 words)

- Speed up the constitution of regional technical sub-committees to evaluate and recommend the DPRs to SLTC for approval.
- Appointment of PDMC at the earliest.
- Encourage ULBs to prepare the DPRs for Parks & Open Spaces either in-house, or authorising the empaneled agencies under Urban 2020.

- How much amount has been utilized and what is the percentage share of the funding agencies? Are there any deviations from the approved funding pattern approved by the Apex Committee?

The funds allocated are being transferred to the ULBs. Therefore, utilization is underway. Amount transferred to 6 Mission cities for 25 projects is Rs. 27.52 Cr. There are no deviations from the approved funding pattern.

- List out the projects where release of funds to ULBs by the State was delayed?

Funds have been released to 6 Mission Cities which had submitted projects (25) for FY 2015-16 and obtained AS and TS. Out of total 89 project proposed , 64 projects are yet to get AS and TS.

- In how many ULBs implementation was done by agencies other than ULBs? Was a resolution taken from all ULBs? (tabular and 200 words)

Kerala Water Authority will be implementing projects under Water Supply projects and Sewerage projects in all In all 9 mission cities. Execution of these projects are yet to begin.

Tourism Department is the executing agency for Open space & Parks sector in Alappuzha.

A tripartite agreement will be signed among the ULB – Parastatal – State before execution.

- List out the projects where the assessed value approved by the Apex Committee was greater than the tendered value and there was a saving? Was this addressed by the HPSC in the present SAAP?

The list of projects tendered till date and whose work order has been/will be awarded are listed below ;

#	City Name	Cost in Rs Cr
1	Trivandrum	0.45
2	Cochin	0.71

3	Kollam	0.22

There for the total saving is Rs 1.39 Cr.

No, these savings were not addressed in the last HPSC meeting. The discussions would be taken up along with the pending DPR approvals in the next HPSC.

- List out the number of city-wise projects where the second and third installments were claimed. (Tabular form).

None

- List out the city-wise completed projects. Was the targeted benchmark achieved? Explain the reasons for non-achievement (tabular form and 400 words)

None.

- List out and describe any out-of-the-box initiatives/Smart Solutions/resilience used/incorporated in the projects under implementation. What is the nature of the innovation in the projects? (tabular; 300 words)

CSR funds will be utilized for development of parks in Palakkad.

Beneficiary Contribution is envisaged for Rain water harvesting in Kochi.

Service Levels

The focus of AMRUT is to achieve service level benchmarks, such as universal coverage in water supply, sewer connections, and so on. In the approved SAAPs, the States/ULBs have targeted the benchmark of universal coverage. The SAAP has to review the progress towards targets set by the States/ULBs to move towards achievement of universal coverage, etc. Please complete the following table and respond to the questions based on the table.

State Annual Action Plan (SAAP)

Sector: Water supply						
Name of City	Service Level Benchmark		SAAP Baseline (as in 2015)	SAAP Mission Target	For the last Financial Year	
					Target up to beginning of current FY	Achievement up to beginning of current FY
Thiruvananthapuram	Coverage	100%	83%	100 %	No Change	No Change
	Quantum of water supplied	135lpcd	99lpcd	135 lpcd	No Change	No Change
	Quality of water supplied	100%	95%	100 %	No Change	No Change
Kollam	Coverage	100%	38%	100 %	No Change	No Change
	Quantum of water supplied	135lpcd	51lpcd	135 lpcd	No Change	No Change
	Quality of water supplied	100%	95%	100%	No Change	No Change
Alappuzha	Coverage	100%	61	100%	No Change	No Change
	Quantum of water supplied	135lpcd	50	135lpcd	No Change	No Change
	Quality of water supplied	100%	66	100%	No Change	No Change
Kochi	Coverage	100%	90 %	100 %	No Change	No Change
	Quantum of water supplied	135lpcd	165 lpcd	135 lpcd	No Change	No Change
	Quality of water supplied	100%	100%	100%	No Change	No Change
Thrissur	Coverage	100%	60.48%	100 %	No Change	No Change
	Quantum of water supplied	135lpcd	93lpcd	135 lpcd	No Change	No Change
	Quality of water supplied	100%	80%	100%	No Change	No Change
Guruvayur	Coverage	100%	16%	100 %	No Change	No Change
	Quantum of water supplied	135lpcd	36lpcd	135 lpcd	No Change	No Change
	Quality of water supplied	100%	90%	100%	No Change	No Change
Palakkad	Coverage	100%	62%	100 %	No Change	No Change
	Quantum of water supplied	135lpcd	88 lpcd	135 lpcd	No Change	No Change
	Quality of water supplied	100%	100%	100%	No Change	No Change
Kozhikode	Coverage	100%	44%	100 %	No Change	No Change
	Quantum of water supplied	135lpcd	100 lpcd	135 lpcd	No Change	No Change
	Quality of water supplied	100%	100%	100%	No Change	No Change
Kannur	Coverage	100%	43%	100 %	No Change	No Change
	Quantum of water supplied	135lpcd	90lpcd	135 lpcd	No Change	No Change
	Quality of water supplied	100%	100%	100%	No Change	No Change
Sector : Sewerage and Septage Management						
Thiruvananthapuram	Coverage of sewerage network services	100%	37%	100%	No Change	No Change
	Efficiency of collection of sewerage	100%	58%	100%	No Change	No Change
	Efficiency in treatment	100%	58%	100%	No Change	No Change
Kollam	Coverage of sewerage network services	100%	0%	100%	No Change	No Change
	Efficiency of collection of sewerage	100%	0%	100%	No Change	No Change
	Efficiency in treatment	100%	0%	100%	No Change	No Change
Alappuzha	Coverage of sewerage network services	100%	0%	100%	No Change	No Change
	Efficiency of collection of sewerage	100%	0%	100%	No Change	No Change

	Efficiency in treatment	100%	0%	100%	No Change	No Change
Kochi	Coverage of sewerage network services	100%	3%	100%	No Change	No Change
	Efficiency of collection of sewerage	100%	3%	100%	No Change	No Change
	Efficiency in treatment	100%	4.08%	100%	No Change	No Change
Thrissur	Coverage of sewerage network services	100%	0%	100%	No Change	No Change
	Efficiency of collection of sewerage	100%	0%	100%	No Change	No Change
	Efficiency in treatment	100%	0%	100%	No Change	No Change
Guruvayur	Coverage of sewerage network services	100%	0%	100%	No Change	No Change
	Efficiency of collection of sewerage	100%	0%	100%	No Change	No Change
	Efficiency in treatment	100%	0%	100%	No Change	No Change
Palakkad	Coverage of sewerage network services	100%	0%	100%	No Change	No Change
	Efficiency of collection of sewerage	100%	0%	100%	No Change	No Change
	Efficiency in treatment	100%	0%	100%	No Change	No Change
Kozhikode	Coverage of sewerage network services	100%	0%	100%	No Change	No Change
	Efficiency of collection of sewerage	100%	0%	100%	No Change	No Change
	Efficiency in treatment	100%	0%	100%	No Change	No Change
Kannur	Coverage of sewerage network services	100%	0%	100%	No Change	No Change
	Efficiency of collection of sewerage	100%	0%	100%	No Change	No Change
	Efficiency in treatment	100%	0%	100%	No Change	No Change
Sector : Storm water drainage						
Thiruvananthapuram	Coverage of storm water drainage network	100%	60%	100%	No Change	No Change
Kollam	Coverage of storm water drainage network	100%	25%	35%	No Change	No Change
Alappuzha	Coverage of storm water drainage network	100%	10%	90%	No Change	No Change
Kochi	Coverage of storm water drainage network	100%	43%	90%	No Change	No Change
Thrissur	Coverage of storm water drainage network	100%	6%	90%	No Change	No Change
Guruvayur	Coverage of storm water drainage network	100%	15%	62%	No Change	No Change
Palakkad	Coverage of storm water drainage network	100%	61%	70%	No Change	No Change
Kozhikode	Coverage of storm water drainage network	100%	50%	50%	No Change	No Change
Kannur	Coverage of storm water drainage network	100%	15%	33%	No Change	No Change
Sector : Urban Transport						
Thiruvananthapuram	Service coverage of urban transport in the city		1.1		No Change	No Change

	Availability of urban trans - port per 1000 population		0.61			
Kollam	Service coverage of urban transport in the city		1.76		No Change	No Change
	Availability of urban trans - port per 1000 population		2.06			
Alappuzha	Service coverage of urban transport in the city		2.21		No Change	No Change
	Availability of urban trans - port per 1000 population		1.26			
Kochi	Service coverage of urban transport in the city		1.83		No Change	No Change
	Availability of urban trans - port per 1000 population		0.42			
Thrissur	Service coverage of urban transport in the city		5		No Change	No Change
	Availability of urban trans - port per 1000 population		4			
Guruvayur	Service coverage of urban transport in the city		2		No Change	No Change
	Availability of urban trans - port per 1000 population		4			
Palakkad	Service coverage of urban transport in the city		3.26		No Change	No Change
	Availability of urban trans - port per 1000 population		5.2			
Kozhikode	Service coverage of urban transport in the city		1		No Change	No Change
	Availability of urban trans - port per 1000 population		2			
Kannur	Service coverage of urban transport in the city		3		No Change	No Change
	Availability of urban trans - port per 1000 population		4			
**The indicators are meant for motorized transportation whereas mission cities had proposed foot paths, foot over bridges, improvement of parking systems etc						
Sector : Green space and parks						
Thiruvananthapuram	Per person availability of open spaces	10-12 sq.m	1.00		No Change	No Change
Kollam	Per person availability of open spaces	10-12 sq.m	4.81		No Change	No Change
Alappuzha	Per person availability of open spaces	10-12 sq.m	3.00		No Change	No Change
Kochi	Per person availability of open spaces	10-12 sq.m	10.60		No Change	No Change
Thrissur	Per person availability of open spaces	10-12 sq.m	14.89		No Change	No Change
Guruvayur	Per person availability of open spaces	10-12 sq.m	15.40		No Change	No Change
Palakkad	Per person availability of open spaces	10-12 sq.m	3.43		No Change	No Change
Kozhikode	Per person availability of open spaces	10-12 sq.m	12.0		No Change	No Change
Kannur	Per person availability of open spaces	10-12 sq.m	3.29		No Change	No Change

• In how many projects, city-wise, have targets not been achieved? What is the Plan for Action to achieve the targets? (tabular form; 500 words)
All cities except Kochi will be starting implementation in the coming months. The plan of action to achieve the targets is as below. • Speed up the constitution of regional technical sub-committees to evaluate and recommend the DPRs to SLTC for approval. • Appointment of PDMC at the earliest. • Encourage ULBs to prepare the DPRs for Parks & Open Spaces. • Regular monitoring and review mechanism by the Mission Directorate.
• What are the status of the ongoing DPR preparation and the plan of action for the pending DPRs? (300 words)
KWA is preparing DPRs of water supply projects on a war footing basis. ULBs have been encouraged to prepare DPRs for possible projects, the funds for which will be met from A&OE. Independent Consultants are being identified to support DPR preparation for projects under Sewerage sector.
• How many SLTC meetings had been held in the State? How many DPRs have been approved by the SLTC till date?
In total 3 SLTC meetings were conducted in the State, so far SLTC has approved 23 Projects and accorded AS & TS. 17 projects were nominated to SHPSC for obtaining Administrative Sanctions.

Capacity Building

There are two types of capacity building – individual and institutional. The Apex Committee had approved the annual capacity building plan and the SAAP of the current year has to review the progress of the capacity plan. Please fill out following table and answer the questions.

Sno	Name of ULB	Name of Department	Total number to be trained in Mission period	Target to be trained during the previous Financial Year	Number fully trained during the previous Financial Year	Name training institute
				2015-16	2015-16	
1.	Thiruvananthapuram, Kollam, Alappuzha, Kochi, Thrissur, Guruvayur, Palakkad, Kozhikode, Kannur	Elected Rep	534	120	178	CED
2.		Finance and Revenue	300	90	_	CED
3		Administration	321	90	_	CED
4.		Engineering and Public Health	263	90	_	IIHS
5.		Town Planning	620	120	_	IIHS
6.		Line Department	200	60	_	IIHS

- In how many departments was training completed as approved in the SAAP of the last Financial Year? In how many departments was training partially done and in how many departments training not done at all? Please give reasons

MOU was signed with two training entities –Centre for Environment and Development (CED), Trivandrum and Indian Institute for Human settlements(IIHS), Bangalore. The MOU dates ends on 28th Feb2017 for CED and on 2nd March 2017 for IIHS. As approved in SAAP of the last Financial year, training is to be conducted for the elected representatives and the functionaries of the ULBs from four departments, namely Administration, Revenue & Finance, Engineering & Public health and Town planning . Later an OM from MoUd dated

12th may 2016 issued the operational guidelines for the roll out of Individual capacity building programme which indicated functionaries from the parastatal agencies involved in the implementation of the Urban Missions in the cities are also to be included in the trainings. Accordingly as indicated above, training has been rolled out as specified in the approved SAAP of the last financial year. The training for 179 Elected Representatives (which was more than the targeted number) was completed during January 2016.

However, the orientation capsule for the functionaries of ULBs from the 4 departments and Parastatal agencies (KWA & TCP) was also completed as per the target. Table above gives the details of the staff trained.

- List out the training institutes that could not complete training of targeted functionaries. What were the reasons and how will this be avoided in future?

CED has completed the training for 179 elected representatives during Jan 2016 as MoU was signed with this Institute, in the format developed by the State. Kerala was the first State to initiate trainings. It was only after this that MoUD issued the format for MoU to be signed by State and the Training Entities. So the MoU in the Ministry's Format was signed with CED and IIHS during March 2016 after which the orientation capsule for the targeted number of functionaries(13 batches) was completed during the period June- August 2016.

- What is the status of utilization of funds?

An amount of Rs.11,35000/- was released to CED as Mobilization advance amount. The invoice for settling the balance expenditure for the training of the elected representatives has been forwarded to MoUD, as per the operational guidelines issued.

- Have the participants visited best practice sites? Give details

The 3 batches of elected representatives visited two site - STP plant at Muttathara, Trivandrum and the Aerobic Composting Unit at Jagathy, Trivandrum. The orientation capsules have been rolled out during June/July and August. The site visits of these participants to best practice sites is scheduled to start from September 2017.
• Have the participants attended any national/international workshops, as per guideline (Annexure 7)?
The orientation capsules have been rolled out during June/July and August. One Regional workshop and a State level workshop is scheduled for October 2017.
• What is the plan of action for the pending activities, if any?
The State/ Regional level workshops will be conducted as specified in the State Training plan already forwarded. Also the exposure visits to best practice sites are being planned during the months of September /October 2017.

Reforms

According to Guideline 4.3, incentives of previous year will be given at the start of succeeding year, for which States are required to do a self-assessment, on receipt of which incentives will be awarded. A key requirement to claim incentives is to achieve at least 70 % Reforms for that year. Some of the criteria to be considered while doing the assessment are as follows:

S. No	Reform Type	Milestones	Target for the FY	Achievement for the last FY	Number of ULBs achieved 70 percent	Number of ULBs not achieved 70 %
	E-Governance	Creation of ULB website.	6 months	All ULBs have created websites	9	--

1		Publication of e-newsletter.	6 months	E-newsletters published	9	--
		Support Digital India (ducting to be done on PPP mode or by the ULB itself).	6 months	Progressively achieved through projects NOFN by BBNL, KSWAN and Bharatnet by State IT Mission	9	--
2	Constitution &professionalisation of Municipal cadre	Policy for engagement of interns in ULBs and implementation	12 months	Policy drafted and a consultative workshop planned to review the same	9	--
3	Augmenting double entry accounting	Complete migration to double entry accounting system and obtaining an audit certificate to the effect from FY2012-13 onwards.	12 months	Double entry Accounting System software - SAANKHYA, already developed and implemented by Information Kerala Mission (IKM) in all ULBs and fully functional	9	--
		Publication of annual financial statement on website.	Every year	AFS published by all ULBs in their website	9	--
	Urban Planning and City level Plans	Preparation of Service Level Improvement Plans (SLIP), State Annual Action Plans (SAAP).	6 months	Prepared and submitted before Apex Committee in Nov 2015	9	--
		Make action plan to progressively increase Green cover in cities to 15% in 5 years.	6 months	Conceived in SLIP and SAAP 2015-16 and ULB decision to support the same	9	--
4		Develop at least one Children Park every year in AMRUT cities.	Every year	Proposed in SAAP 2015-16 of AMRUT and work/ DPR preparation in progress in all ULBs	9	--

		Establish a system for maintaining of parks, playground and recreational areas relying on People Public Private Partnership (PPPP) model.	12 months	PPPP model parks already established under ULBs	9	--
5	Devolution of funds and functions	Ensure transfer of 14th FC Devolution to ULBS	6 months	Guideline are in force. Government orders issued from Finance Department and I schedule section 30(A) of Kerala Municipalities Act 1994 support the same.	9	--
		Appointment of state finance commission(SFC) and making decisions	12 months		9	--
		Transfer of all 18 functions to ULBs	12 months		9	--
6	Review of Building by-laws	Revision of building bye laws periodically	12 months	Periodical amendment enforced by by Town and Country Planning Department	9	--
		Create single window clearance for all approvals to give building permissions.	12 months	Building permit software Sanketham developed by IKM and implemented in ULBs	9	--
7(a)	Municipal tax and fees improvement	Atleast 90% coverage,	12 months	Achieved through ULB's efforts	9	--
		Atleast 90% collection,	12 months	Achieved through ULB's efforts	9	--
		Make a policy to periodically revise property tax, levy charges and other fees	12 months	Fee / Tax revision guidelines issued based on ULB Council Decision	9	--

		Post Demand Collection Book (DCB) of tax details on the website	12 months	Inclusive in AFS which is published in ULB website	9	--
		Achieve full potential of advertisement revenue by making a policy for destination specific potential having dynamic pricing module.	12 months	ULB's already have bye-law for advertisement revenue.	9	--
7(b)	Improvement in levy and collection of user charges	Adopt a policy on user charges for individual and institutional assesment in which differential rate is charged for water use and adequate safegaurds are included to take care of interest of the vulnerable	12 months	State Level policy enforced vide GO No. 88/14/WRD and G.O. No. 92/14/WRD	9	--
		Make action plan to reduce water losses to less than 20 % and publish on the website	12 months	Action Plan prepared by Kerala Water Authority	9	--
		Separate accounts for user charges	12 months	KWA maintains separate user accounts based on Government policy	9	--
		Atleast 90% billing	12 months	Achieved with the efforts of Kerala Water Authority	9	--
		Atleast 90% collection.	12 months		9	--

8	Energy and Water Audit	Energy and Water audit (including non-revenue water or losses audit)	12 months	In progress with the efforts of KWA and Energy Management Centre	9	--
		Making STPs and WTPs energy efficient	12 months	In progress with the efforts of KWA	9	--
		Optimize energy consumption in street lights by using energy efficient lights and increasing reliance on renewable energy,	12 months	In progress with State and ULB initiative	9	--

• Have the Reform formats prescribed by the TCPO furnished?
Yes, the reforms document in the prescribed format was prepared consolidating the city wise self appraisal along with supporting documents of reform achievements for the year 2015-16. The consolidated reform document was submitted to MoUD as directed, before 31st May 2016.
• Did the State as a whole complete 70 percent of Reforms? If, yes was the incentive claimed?
Yes, the State as a whole has completed 70 percent of the reforms. City level reform scores were tabulated and the State average score calculated was 268
• What was the amount of incentive claimed? How was it distributed among the ULBs and what was it used for?

Kerala forwarded the documents to claim 10% of the project cost as incentive. Evaluation result by TCPO and Incentives from MoUD awaited. Once received, the incentives will be distributed to ULBs based on their performance evaluation and decision by SHPSC.

- What is the status of Reforms to be completed in the Mission period? Has advance action been taken and a Plan of Action prepared?

Action has already been taken to achieve all reforms within the Mission period. State level policy preparation, ULB level awareness campaigns, handholding support to all concerned departments are being given by the Mission Management Units and training institutes entrusted with individual and institutional capacity building.

- Give any instances of innovation in Reform implementation.

- A document on reforms in regional language Malayalam is drafted and will be soon presented in all Mission Cities to educate the new ULB council and officials on the commitments and political will required to achieve the reforms.
- E-Governance - Information Kerala Mission(IKM) has developed and implemented 18 softwares to support e-governance not just in AMRUT cities but in all 93 Urban Local Bodies.
- GIS based Master plans already exists for all Mission cities. However, the TCP department is willing to redo the same to comply with the high standards set by the Mission in this regard and already working on the SAP.
- A scheme called Nagarajyoti initiated in all cities to encourage LED street lighting. Also, Energy audits of all cities conducted by Energy Management Centre. Kerala State Energy Board(KSEB) and Energy Management Centre (EMC) also distribute CFL and LEDs to consumers at free / subsidised rates for promoting energy saving.

Use of A&OE

- What are the items for which the A&OE has been used?

A&OE funds has been used for

- Preparation of SLIP & SAAP
- Preparation of DPR
- Capacity Building activities
- Reform implementation,
- Establishment cost of State MMU and City MMU
- Supporting cost including local travel and stationery.

- Are the items similar to the approved items in SAAP or there is any deviation? If yes, list the items with reasons

Yes, the items are similar to the approved items in SAAP and there is no deviation.

- What is the utilization status of funds?

#	Details	Amount	In crs
1	**Expenditure-CCBP**	**48829198**	**4.88**
2	**Expenditure-AMRUT**		
	Upto 31st March	10820270	1.08
	Upto 31st July	6784497	0.68
	Total	17604767	1.76

- Has the IRMA been appointed? What was the procedure followed?

No, IRMA has not been appointed.

- If not appointed, give reason for delay and the likely date of appointment

IRMA will be appointed once the project execution starts in full swing. List of empanelled agencies / RFP draft for selection of IRMA is awaited from MoUD.

• Have you taken up activities connected to E-Municipality as a Service (E-MAAS)? Please give details.
All e-governance services targeted under reforms are achieved in the State.
• Have you displayed the logo and tagline of AMRUT prominently on all projects? Please give list.
Yes, the logo of AMRUT has been displayed prominently in all possible places viz. in banners during meetings and project launch / inauguration, training kit and material during capacity building sessions, etc
• Have you utilised the funds on any of the inadmissible components (para 4.4)? If yes, give list and reasons.
Not applicable

Funds flow

One reason for project delay has been delayed release of funds. In the following table indicate the status of funds release and resource mobilization.

• In how many projects, city-wise, has the full funds been sanctioned and disbursed?
The funds for the implementation of projects that have accorded AS & TS have been transferred to the mission cities.

• Identify projects where delay in funds release led to delay in project implementation?
Not Applicable
• Give instances of doing more with less during implementation.
Not Applicable

Funds disbursements and Conditions
• **How many project fund request has been made to the GoI? (250 words)**
The state has received the first installment of Rs 57.6 Cr(20%) no further fund request were made to GoI.
• **How many installments the GoI has released?**
GoI has released only the first installment
• **Is there any observation from the GoI regarding the claims made?**
Not Applicable
• **List out the conditions imposed by the Apex Committee, State HPSC and the SLTC. Have all the conditions been complied with? If, no identify the conditions not complied with and give reasons for non-compliance.**
Not Applicable

CHAPTER 3: STATE ANNUAL ACTION PLAN (SAAP)

The SAAPs are aggregated from the SLIPs. Please fill out the Master Plan of projects (Table 3.1; pg.43) and the state level plan for achieving service levels (Table 3.5; pg.46 of AMRUT Guidelines).

Also, in the table below please give the details of the projects sector wise that are being posed for approval to the Apex Committee.

City	Sector Project name	Estimated cost and Share				Change in Service levels		
		GoI	State	ULB/ Others	Total	Indicator	**Existing**	After Project completion
Thiruvananthapuram	**Water supply**							
	Construction of 75 mld Water Treatment Plant (Phase II)	12.50	7.50	5	25	Per capita supply	100 LPCD	150 LPCD
	Model Revenue Collection Centers at Kowdiar, Poongumudu & Vellayambalam	0.75	0.45	0.3	1.5	NRW	35%	34%
	Installing smart meters	1.27	0.762	0.508	2.54			
	Sewerage							
	Decentralised community septic tank system for households (around 200 to 250 families)	12.5	7.5	5	25.00			
	Decentralised sewerage treatment plant at Medical College campus including water	6.925	4.155	2.77	13.85			

	recycling							
	Providing new network in core city and rehabilitation of networks	5.92	3.552	2.368	11.84			
	Storm water drainage							
	Providing new net work coming under DPR I, II ,III	9.545	5.727	3.818	19.09	Coverage of storm water drainage	60%	75%
	Urban Transport							
	Foot over bridge St. Mary's Pattom	1.5	0.9	0.60	3.00	Available Pedestrian facilities	LOS 4	LOS3
	Foot over bridge with escalator,East Fort	1.5	0.9	0.60	3.00			
	Multi level parking at Thampanoor	2.615	1.569	1.046	5.23			
	Green space and Parks							
	Developing 4 parks	1.125	0.675	0.45	2.25	Per person open space	1 sq.m per person	1 sqm per person
Kollam	**Water supply**							
	Providing new Water connections with metering systems	3.5	2.1	1.4	7	Coverage	39%	100%
						per capita	65 LPCD	135 LPCD

						supply		
	Augmentation of Kollam WSS (construction of 90 MLD WTP-, weir etc)-Phase 1	12.535	7.521	5.0114	25.07	Quality	77%	100%
	Rain water harvesting	1	0.6	0.4	2	NRW	30%	20%
	Sewerage							
	Decentralised Sewerage System and Septage Management with focus on coastal areas	12.465	7.479	4.986	24.93	Coverage of sewerage network	0%	23%
						Efficiency in Treatment	0%	100%
	Storm water drainage							
	Construction of Drains at Various Municipal Corporation Roads/Locations-Phase II	7.5	4.5	3	15	Coverage of storm water drainage	25%	27%
	Urban Transport							
	Construction of open Stair case at the sides of Chinnakkada Underpass cum Fly over	0.10	0.06	0.04	0.2	Available Pedestrian facilities	LOS 4	LOS3
	Construction of Multi Level Parking System near Railway Station-Stage I	1.5	0.9	0.6	3			

	Construction and Renovation of Foot Path and supporting structures - Phase II	1.82	1.092	0.728	3.64			
	Modernised Bus Shelters at Various Locations	0.30	0.180	0.120	0.6			
	Green space and Parks							
	Planting Lawns and afforestation at various locations in Kollam Corporation-Phase I	0.830	0.498	0.332	1.66	Per person open space	4.81 sq.mper person	4.84 sqm per person
Alappuzha	**Water supply**							
	Augmentation and Modernization of water supply distribution system in Alappuzha Municipality (2nd phase)	28.435	17.061	11.374	56.87	Coverage	62%	68%
						per capita supply	50 LPCD	135 LPCD for 18% of the total popln
						Quality	66%	100 % for 18% of the total popln
	Sewerage							
	Decentralized treatment systems for septage management in Alappuzha Municipality (2nd phase)	1	0.6	0.4	2	Efficiency in Treatment	0%	10%
	Storm water drainage							
	Increase in coverage of Storm water drainage network by strengthening the main natural canals and	6.5	3.9	2.6	13	Coverage of storm water drainage	24%	30%

	connecting canal networks .					Incidence of water logging	26 nos	14 nos
	Urban Transport							
	Construction & renovation of pedestrian friendly foot paths ,Junction improvement and providing modern bus shelters.	1.5	0.90	0.60	3.00	Available Pedestrian facilities	LOS 4	LOS3
	Green space and Parks							
	Renovation and Development of park in Town square.	0.20	0.12	0.08	0.4	Per person open space	3 Sq.mper person	3.2 Sq.m per person
	Development of green cover protection and boundary wall protection atValiaChudukadu.	0.275	0.165	0.110	0.55			
	Development of park on the bank of AS canal and jogging track along the canal banks.	0.29	0.174	0.116	0.58			
Kochi	**Water supply**							
	Replacement old damaged pipeline along PanditKaruppan road , size 160 mm pvc 4400 mtr	0.825	0.495	0.33	1.65	Coverage	85%	90%
						per capita supply	145 LPCD	150 LPCD
						NRW	47%	40%
	Replacement of old	0.345	0.207	0.138	0.69			

	damaged pipe line from Valanjambalam to Ravipuram-size 160mm & 110mm PVC length , 1000 mtr							
						Cost Recovery	90%	50%
	Replacement of old damaged pipe line along Konthuruthy branch road. SIZE 300MM DI, LENGTH 840M	0.35	0.210	0.140	0.70	Quality	90%	95%
	Zoning by renovation of existing Kadanthra oh tank 22 lac litre capacity including laying pumping main from Thammanam to Kadanthra . SIZE 500MM 4KM -Div. 54,55,56,57, (60,63 part)	5	3	2	10.00			
	Zoning by constructing new sump of capacity of 2.5 lac and oh tank 17l at Pachalam Div. (32,33,34,69,70,71)part, 72,73	4	2.4	1.6	8.00			
	Laying transmission main fromKathrukadavu to Pachalam 400MM DI /MS , LENGTH 4 KM	3.5	2.1	1.4	7.00			
	Edakochi south second reach-Laying pipe line (size-450 mm) Div-15,16	0.75	0.45	0.30	1.50			
	Laying pumping main 700mm DI pipe from JnNURM treatment plant Maradu to	8.75	5.25	3.5	17.50			

	Thammanampumphouse for additional pumping of water (up to 40 mld) to Kochi city.							
	Laying rider line from Kathrikadavu to ElamkulamChettichira, Ponnurunni areas& distribution lines in ChakaraparambuChalikavattom areas	2.5	1.5	1.0	5.00			
	Construction of 2 lakh litre sump, pumphouse and allied electrical works and 15 lakh litre capacity OH tank at VadathodeKunnumpuram	4.0	2.40	1.60	8.00			
	Construction of OH tank of 10 lakh litre capacity at Thevara	1.50	0.90	0.60	3.00			
	Sewerage							
	Decentralized sewerage system-phase 2	15.39	9.234	6.156	30.78	Coverage of sewerage network	3%	7%
						Efficiency in Treatment	5%	9%
	Storm water drainage							
	Renovation of canals and sub drains	6.50	3.90	2.60	13	Coverage of storm water drainage	47%	55%

	Construction & renovation of area drains	2.22	1.332	0.888	4.4	Incidence of water logging	95 nos	80 nos
	Urban Transport							
	Foot paths along various roads	4.13	2.478	1.652	8.26	Available Pedestrian facilities	LOS 4	LOS3
	Foot over bridge at two Nos	1	0.60	0.40	2.00			
	Green space and Parks							
	Renovation Four existing parks	1.025	0.615	0.41	2.05	Per person open space	10.6 Sq.mper person	10.6 Sq.m per person
Thrissur	**Water supply**							
	Construction of new 20 MLD WTP at Peechi and connected works	6	3.6	2.4	12.00	Coverage	60%	70%
	Replacement of AC/PVC pipe to 500 mm DI and 160 mm PVC pipes for around 42 km	8.04	4.824	3.216	16.08	NRW	30%	25%

	Supply and laying of various Dia distribution lines for around 100 Km with pipe dia 160 mm PVC to 300 mm DI	4.00	2.40	1.60	8			
	Sewerage							
	Decentralised Sewerage Management and Waste water Treatment Plant Phase-II	13.20	7.92	5.28	26.40	Coverage of sewerage network	0%	90%
						Efficiency in Treatment	0%	90%
	Storm water drainage							
	Construction of new drains and reconstruction of culverts.	7.48	4.488	2.992	14.96	Coverage of storm water drainage	6%	24%
	Urban Transport							
	Renovation of foot path	3.4	2.04	1.36	6.80	Available Pedestrian facilities	LOS 4	LOS3
	Foot over bridge	1.00	0.60	0.40	2			
	Green space and Parks							
	Rejuvenation of existing children's park at Ayyanthol near Civil Station and	0.505	0.303	0.202	1.01	Per person open	14.89 Sq.mper	14.89 Sq.m per

	development of living harmony green belts and green strips.					space	person	person
	Rejuvenation of children's park, paravattani	0.25	0.15	0.10	0.50			
	Rejuvenation of AchuthaMaidanam Park, Kanattukara,Thrissur.	0.075	0.045	0.030	0.15			
	Rejuvenation of Rajendra Park, ChiyyaramSouth,Thrissur.	0.05	0.03	0.02	0.10			
Guruvayur	**Water supply**							
	Construction of 10 LL OHSR and Pumping main to Guruvayur (8,00 KM)	7.75	4.65	3.10	15.50	Coverage	16%	100%
	Improvement of water supply system for Guruvayur.	13	7.80	5.20	26	per capita supply	36 LPCD	135 LPCD
	Sewerage							
	Laying of sewerage network for 15km in Guruvayoor Municipality	5.00	3.00	2.00	10	Coverage of sewerage network	10%	30%
	Storm water drainage							

	Construction of new drains in the water logged areas of Guruvayur Municipality	0.07	0.042	0.028	0.14	Coverage of storm water drainage	35%	37%
	Urban Transport							
	Construction of a Five Storied Multi level parking plaza at Guruvayur for parking of various vehicles (340 cars, 40 buses and 240 two wheelers)	9.50	5.70	3.80	19	Available Pedestrian facilities	LOS 4	LOS 3
	Green space and Parks							
	Development of park at Brahmakulam, Thykadsmashanam in ward No.6, Guruvayur Municipality	0.310	0.186	0.124	0.62	Per person open space	15.40 Sq.mper person	15.40 Sq.m per person
	Development of park at Pookode Chathankad Smasanam, ward in No.3 of Guruvayur Municipality	0.40	0.24	0.16	0.80			
Palakkad	**Water supply**							
	New pumping main- From Malampuzha	3.50	2.10	1.40	7	Coverage	62%	70%

	WTP to Mattumantha DI- K9 pipe					per capita supply	88 LPCD	150 LPCD
	Construction of 45 MLD water treatment plant (Phase I)	12.25	7.35	4.90	24.50	NRW	30%	20%
	Providing flow meter at Clear Water Pumping Main to quantify & reduce NRW	0.25	0.15	0.10	0.50	Quality	100 %	100%
	Sewerage							
	Septage treatment plants, Decentralized sewerage treatment plants, Sewer lines, Pump houses, Septic tank suction units	11.295	6.777	4.518	22.59	Coverage of sewerage network	10%	30%
	Storm water drainage							
	ThirunellayiManappullikkavuThodu	1.00	0.60	0.40	2.00	Coverage of storm water drainage	35%	37%
	Selvapalayam- Indira Nagar	0.15	0.09	0.06	0.3			
	ChadanaKurissi	0.15	0.09	0.06	0.3	Mixing of sewerage	60%	40%
	Arayakulam	0.25	0.15	0.10	0.5			
	Parakkunnam–Narikuthi	0.25	0.15	0.10	0.5			
	Sree Rama Palayam	0.20	0.12	0.08	0.4			

	Kallikkadu	0.20	0.12	0.08	0.4			
	Karim Nagar	O.35	0.21	0.14	0.7			
	New colony	0.25	0.15	0.10	0.5			
	Chakkamthara-Kaikuthuparambu	O.35	0.21	0.14	0.7			
	Karukoodi	0.25	0.15	0.10	0.5			
	Salamath Nagar	0.15	0.09	0.06	0.3			
	Poolakkad	0.1	0.06	0.04	0.2			
	Mission school	0.1	0.06	0.04	0.2			
	Kaalambuzhathodu	0.15	0.09	0.06	0.3			
	Selvinagarthodu	0.25	0.15	0.10	0.5			
	ManakkaThodi secondary drain	0.25	0.15	0.10	0.5			
	Mattumantha – palayam–Chuliyodu	0.175	0.105	0.07	0.35			
	Sasthrinagar- PVR nagar- Anjali gardens	0.11	0.066	0.044	0.22			
	Vadakkanthra road secondary drain	0.5	0.3	0.2	1			
	GB road to Noorjahan secondary drain	0.25	0.15	0.10	0.5			
	GB road to Noorjahan secondary drain	0.14	0.084	0.056	0.28			

	Maettupalayam street drain	0.35	0.21	0.14	0.7			
	Kunnathoormedu drain	0.25	0.15	0.10	0.5			
	Olavakkode- Near co operative	0.225	0.135	0.09	0.45			
	Urban Transport							
	GB road escalator	1.0	0.60	0.40	2	Available Pedestrian facilities	LOS 4	LOS 3
	Bus stand yard	1.0	0.60	0.40	2			
	Bus shelters	0.5	0.30	0.20	1			
	Melamuri-Kalmandapam foot path	1.0	0.60	0.40	2			
	Parking near CSI hostel	0.10	0.06	0.04	0.2			
	Parking in salamathnagar	0.165	0.099	0.066	0.33			
	Green space and Parks							
	Kottamaidanam (phase 3)	0.125	0.075	0.05	0.25	Per person open space	3.43 Sq.mper person	4 Sq.m per person
	A R menon Park	0.205	0.123	0.82	0.41			
	Dr Krishnan park	0.25	0.15	0.10	0.5			
	Krishnamenon park	1.25	0.75	0.05	0.25			
	Gandhi park in municipal office	0.05	0.03	0.02	0.1			

Kozhikode	**Water supply**							
	Rehabilitation of existing old pipes, valves, and interconnections with existing lines -phase 2	7.28	4.368	2.912	14.56	per capita supply	100lpcd	135lpcd
						Coverage	44%	47.5 %
	Strengthening of existing infrastructure facility and quality improvement of CWSS	8.635	5.181	3.454	17.27	Quality	90%	100%
						NRW	30%	20%
	Sewerage							
	Construction of decentralised sewerage system in zone A- part B	13.515	8.109	5.406	27.03	Coverage of sewerage network	0 %	11.4 %
	Storm water drainage							
	Construction of drain at Benz automobiles-Passport office-EKCanal	5.25	3.15	2.10	10.5	Incidence of water logging	20	18
	Manorama- Kattuvayal-sale tax office- EK canal Drain -Balance works	2.0	1.2	0.80	4			
	Cleaning of B K Canal	0.41	0.246	0.164	0.82			
	Urban Transport							
	Construction of multilevel parking complex at stadium junction.	7.06	4.236	2.824	14.12	Available Pedestrian facilities	LOS 4	LOS 3
	Green space and Parks							

	Renovation of Jetty Park, Elathur	0.375	0.225	0.15	0.75	Per person open space	12 Sq.mper person	12 Sq.m per person
	Development of Eravathkunnu V K Krishna Menon Smruthivanam	0.375	0.225	0.15	0.75			
	Renovation of Ansari Park.	0.15	0.09	0.06	0.3			
Kannur	**Water supply**							
	Laying Conveyance main/Pumping main from Melechovva to OHSR at Edakkad including supply Erection of Pumpsets	4	2.4	1.6	8	Coverage	43%	43%
	) Enhancing Capacity of Treatment plant from 30.00 MLD to 40.00 MLD including modernisation of existing treatment plant	5.0	3.0	2.0	10	per capita supply	90LPCD	100LPCD
	Rehabilitation of existing old distribution network, valves, house service connection and inter-connections with existing lines and providing flow meters etc., including road reformation charges (PWD/NH/Corporation)	6.19	3.714	2.476	12.38	per capita supply	90LPCD	150LPCD
						NRW	32%	30%
	Sewerage							

	Providing septage Collection and Septage Treatment Plant at Edakkad & Providing decentralised sewerage system in Pallikunnu area (Zone 2)	11.115	6.669	4.446	22.23	Efficiency in Treatment	0 %	15 %
	Storm water drainage							
	Construction of new primary drains, secondary drains and rejuvenation of primary drains.	6.3	3.78	2.52	12.6	Coverage of storm water drainage	10%	15%
	Urban Transport							
	Construction of new footpath with handrails.	3.705	2.223	1.482	7.41	Available Pedestrian facilities	LOS 4	LOS 3
	Green space and Parks							
	Rejuvenation of BabuRajendra park.	0.50	0.30	0.20	1	Per person open space	3.29 Sq.mper person	3.29 Sq.m per person
	Rejuvenation of Avera Gramamandiram park.	0.24	0.144	0.960	0.48			

1. PRINCIPLES OF PRIORITIZATION

The State has prioritized and recommended projects for selection under AMRUT as per the Mission Guidelines.

During SLIP preparation, the ULBs have identified the projects based on service level gap analysis, and through consultative process prioritized those projects so as to achieve universal coverage of water supply connections followed by sewerage connections, this being the national priority. The next priority was accorded to the other service levels in these sectors appropriate to the specific town.

In the SAAP, the ULBs with higher gaps in coverage of water supply and sewerage were given priority for funding in the first year. Potential smart city has also been given due consideration in fund allocation to achieve convergence despite their comparatively better coverage of water supply

Thiruvananthapuram and Kochi are the two largest ULBs in terms of total population (high influx of floating population) and geographical coverage. These cities also accommodate a higher share of urban poor in the state. However service level gaps in these cities are comparatively less compared to other cities. In these circumstances, the priority is also given to the total population and geographical coverage.

The prioritization of ULBs for funding has been discussed with the Mayors, Chairpersons and Commissioners of the ULBs.

- Has consultation with local MPs/ MLAs, Mayors and Commissioners of the concerned ULBs been carried out prior to allocation of funding? Give details of dates and number of participants

The criteria followed for the funding has been discussed with the Mayors, Chairpersons and Secretaries of the ULBs and informal consultations have been done with MLAs and MPs.

Date	No. of participants	Agenda	Details of participants
Trivandrum			
18/3/2015	61	To collect suggestions from	Mayor, Dy. Mayor, Stg. Committee Chairman/chairperson, Secretary,

		Councillors reg. SLIP preparation	Addl. Secretary and councillors
15/4/2016	16	SLIP- exclusive for sewerage sector	Core committee members of AMRUT and Officials from Kerala Water Authority, KSUDP, KITCO
15/6/2016	23	CLEAN CITY	Standing Committee Chairman, Officials from ULB, KWA, KSUDP, SMMU, Town Plg, Freelance consultants from the respective areas.
07/07/2016	81	Draft SLIP presentation	Elected representatives including Mayor & Dy. Mayor, Officials from ULB, KWA, KSUDP, freelance consultants in the respective sectors.
Kollam			
04/5/2016	18	Core Committee- To decide on the preparation of SLIP 2016-17 and to entrust KWA for SLIPs preparation in 2 sectors(WS and Sewerage)	Mayor, Dy.Mayor, elected representatives, Secretary, Dy. Secretary, Corporation, EE, Corporation and officials from the ULB, KWA, PWD, KSUDP etc.
23/6/2016	11	Core Committee- To approve SLIPs on 3 sectors(SWD,UT and Parks)	Dy.Mayor, elected representatives,Secretary, and officials from the ULB, etc
11/7/2016	16	Core Committee- To discuss on the contents in the SLIPs of WS and Sewerage	Mayor, Dy. Mayor, Elected representatives, SE,EE ULB, officials from KWA and KSUDP etc.
10/8/2016	10	Core Committee- To finalize and approve the SLIPs prepared by KWA and to prioritize the projects in SAPP 2016-17	Mayor, Dy. Mayor, Secretary, elected representatives and officials from the ULB, officials from KWA, etc.
18/8/2016	22	Core Committee- To discuss on the execution of WS projects in SAAP 2015-16 and to	Mayor, Dy. Mayor, Secretary, elected representatives and officials from the ULB, officials from KWA,KSTP,PWD,NH etc.

		prioritize projects in SAAP 2016-17 and SAAP 2017-18 together.	
Alappuzha			
08/09/2015	20	1st Stake holder consultative meeting	Chaired by Chairman Vice- Chairman Standing committee, councillors, ULB department heads, Officials from KWA, Town planning department, PWD Irrigation department, Regional transport office, KSEB , CMMU.
14/01/2016	60	2nd Amrut City Level consultative meeting	Chaired by the Honourable K.C Venugopal MP Project Director of the Amrut councillors, Officials from KWA, Town planning department CMMU
26/02/2016	8	1st Core committee meeting	Chairman , Vice-Chairman Secretary ULB Engineers, CMMU
06/06/2016	25	3rd Amrut City Level consultative meeting	Chaired by the Honourable K.C Venugopal MP Officials from KWA, Town planning department CMMU
07/09/2016	8	2nd Core committee meeting	Chairman , Vice-Chairman Secretary ULB Engineers, CMMU
07/09/2016	10	3rd Core committee	Chairman , Vice-Chairman Secretary

		meeting	ULB Engineers, CMMU
Kochi			
18/04/2016	20	Discussion on SLIPs for the year 2016-17	Mayor, Dy Mayor elected representatives and officials from the ULB, CMMU,officials from KWA, etc
03/6/2016	12	Steering committee meeting Identification of projects for remaining fund on SAAP 2015-16. And Discussion on prioritization of the projects to be proposed in SLIP	Mayor, elected representatives and officials from the ULB,CMMU, Officials from KWA,
25/06/2016	35	Public Consultation Meeting on Amrut Projects.	MP, Mayor, elected representatives and officials from the ULB, CMMU.
04/07/2016	16	Works committee meeting for the recommendation of projects for remaining fund of SAAP 15-16 and SLIP 2016-17	Works Committee Chairman, Elected representatives and officials from the ULB, CMMU.
25/07/2016	80	Council Meeting for the approval of projects for remaining fund of SAAP 15-16 and SLIP 2016-17	Chaired by Mayor. Elected representatives and officials from the ULB,CMMU, officials from KWA.
Thrissur			
5/4/2016	8	Discussion on the updation of SLIP for the year 2016-17	Dy.Mayor ,Standing committee chair persons, Additional Secretary, ULB Engineers,CMMU
22/4/2016	11	1.Review of the projects proposed in SLIP 2015-16 2.Discussion on the updation of	Dy.Mayor ,Standing committee chair persons, Additional Secretary, ULB Engineers, officials of KWA and Town Planning Department,CMMU

		SLIP for the year 2016-17	
2/5/2016	15	Discussion on the updation of SLIPfor the year 2016-17.Sectors discussed-Storm water drainage,Urban transport and green space and parks	District Town Planner, Asst.Town Planners, representatives of human rights forum,social activists, CMMU.
3/5/2016	9	Discussion on the updation of SLIP for the year 2016-17	Dy.Mayor ,Standing committee chair persons, Additional Secretary, ULB Engineers, officials of Town Planning Department,CMMU
10/6/2016	5	Finalisation of projects in all the five sectors to be included in SLIP 2016-17 and approval of the same by the Core committee.	Dy.Mayor ,Standing committee chair persons, Additional Secretary, ULB Engineers, CMMU
18/7/2016	5	1.Review of projects committed for the FY 2015-16, AMRUT activities and data collection for Credit rating	Dy.Mayor ,Standing committee chair persons, Additional Secretary, ULB Engineers,CMMU
17/8/2016	8	Discussion on the prioritization of projects for SAAP 16-17 for the allocated amount in 2016-17	Dy.Mayor ,Standing committee chairpersons, elected representatives, Additional Secretary, ULB Engineers, officials of KWA,CMMU
Guruvayoor			
17.08.2016	10	Special Meeting with KWA and ULB Engineering department for the revised Prioritization of Projects and their	Municipal Chairperson

		fund allocation under SAAP 2016-17	
09.08.2016	07	Core committee meeting for the Prioritization of Projects with their fund allocation under SAAP 2016-17	Municipal Vice Chairman
15.07.2016	07	Finalization of the Projects in the SLIP 2016-17 and fund utilization of reforms under AMRUT	Municipal Vice Chairman
21.04.2016	10	Consultative meeting with KWA and Core committee members for the preparation of Service Level Improvement Plan 2016-17	Municipal Chairperson
08.04.2016	05	Core committee meeting for the preparation and submission of SLIP 2016-17	Municipal Vice Chairman
05.03.2016	10	Core committee meeting for discussion of approved list of projects under SAAP 2015-16 and the importance implementation of reforms activities in the municipality	Municipal Chairperson
Palakkad			
24/5/2016	26	Selection of projects and updating SLIP for the year 2016-17	Chairperson, , Deputy Chairman, standing committee chairman's, Parliamentary party leaders, secretary ULB engineering department and all other

			stakeholders and line departments (Including KWA, PCB, Town Planning, Suchitwa Mission, KSEB etc)
07/06/16	29	Discussion on draft SLIP 2016-17 and Prioritization of projects	MP, MLA, Chairperson, , Deputy Chairman, standing committee chairman's, Parliamentary party leaders, secretary ULB engineering department and all other stakeholders and line departments (Including KWA, PCB, Town Planning, Suchitwa Mission, KSEB etc)
11/08/16	22	Prioritization of SAAP 2016-17 projects for the allocated amount	Chairperson, Deputy chairman, Standing committee chairman's, Parliamentary party leaders, Municipal engineer, Asst Executive engineer and Assistant engineers, KWA officials
19/08/2016	46	Approval of Prioritized projects in SAAP.	Special council. Elected representatives, Secretary, All department heads and Engineering department.
Kozhikode			
20/4/2016	16	Discussion on the updation of SLIPs for the year 2016-17	Elected representatives and officials from the ULB, officials from KWA, Natpac, KSUDP etc and CMMU staff
11/5/2016	8	Discussion on the updated SLIPs for 2016-17	Dy. Mayor, elected representatives and officials from ULB and CMMU staff (AMRUT core committee)
17/6/2016	71	Council meeting for the approval of SLIPs 2016-17(Approval of SLIP is only one among the agenda)	Chaired by Mayor. Elected representatives , officials from ULB and CMMU staff
9/8/2016	8	Discussion on the prioritization of projects to be included in SAAP	Dy. Mayor, elected representatives and officials from ULB and CMMU staff(AMRUT core committee)

		2016-17	
17/8/2016	23	Discussion on the prioritization of projects for the allocated amount in 2016-17, considering the allocation for 2017-18 also	Mayor, elected representatives and officials from the ULB, officials from KWA, KSUDP etc and CMMU staff
Kannur			
22/06/2016	8	2016-17 SLIP finalized	Mayor, Secretary, elected representatives and officials from the ULB and CMMU Staff.
09/08/2016	9	Discussion on the prioritization of projects for the allocated amount in 2016-17	Mayor, Secretary, elected representatives and officials from the ULB, Officials from KWA and CMMU Staff.
18/08/2016	7	Project prioritisation for 2016-17.	Mayor, Secretary, elected representatives and officials from the ULB, Officials from KWA and CMMU staff.

- Has financially weaker ULBs given priority for financing? Please give list.

The state is contributing 30% of the proposed cost of the project and apart from devolution of fund to the ULBs, 14th Finance Commission Grants are timely disbursed to the ULBs. Also from plan fund, Maintenance fund (Road) and Maintenance Fund (Non Road) exclusively for the maintenance of assets has been transferred to the Local Bodies. Hence the financial capacity of ULB was not a criterion in prioritising the projects.

However, based on HPSC's decision the financial performance of the mission cities were analysed and weightage was given to the cities as an incentive for their performance.

- Is the ULB with a high proportion of urban poor has received higher share? Please give list.

Yes, Thiruvananthapuram and Kochi are having high proportion of urban poor and they have been given priority for fund allocation. The cities in Kerala exhibits homestead type settlements, which has own wells and individual toilets with septic tanks within the compound. Economically weaker sections are more dependent on beneficiaries of public water supply system and sewerage network. By aiming at the universal coverage ,certainly the priority has gone to cities with higher share of Urban poor.

- Has the potential Smart cities been given preference? Please give list

While preparing SLIP, Kochi (already selected under Smart Cities Mission) and Thiruvananthapuram (preparing for the smart city challenge) have been given priority. The projects for reduction in NRW, sewerage network and NMT has been given priority in these cities

- What is the quantum of Central Assistance (CA) allocated to the State during 2016-17?

The central allocation to Kerala in 2016-17 is Rs 386.6 Cr

- Has the allocation to different ULBs within State is consistent with the urban profile of the state?

As per the Census 2011, among the States in India, Kerala has exhibited one of the fastest urbanization rates during 2001-11. The state has around 93 statutory urban areas (6 Corporation and 87 Municipalities) and 427 census towns. However only 9 cities were selected under AMRUT, covering a population of around 34 lakh person, which is only around 20% of the total urban population in the State.

2. Importance of O&M

It has been observed that ULBs pay little attention to the operation and maintenance of infrastructure assets created after completion of projects. This tendency on the part of implementing agencies leads to shear loss off national assets. Please fill out the Plan of action for A&OE expenses given in Table 4 (pg-48) of AMRUT Guidelines and answer the following questions.

- Do projects proposed in the SAAP include O&M for at least five years? What is the nature of O&M?

Effective Operation & systematic Maintenance (O&M) of the infrastructure is essential for ensuring sustainability of any infrastructure created. In view of the importance of effective Operation & Maintenance (O&M) of the infrastructure created through the AMRUT for ensuring sustainability of the infrastructure created, it is proposed to extend O&M arrangements for 5 more years after the completion of the Defects Liability Period. This will ensure supply of good quality infrastructure by the agency and ensure its upkeep during the DLP and O&M period of 5 years also, saving huge money to the Govt. /ULB, increase of life of the asset, reduced wear and tear, reduced energy consumption etc.

- How O&M expenditures are propose to be funded by ULBs/ parastatal?

For all projects, strategies for O&M have been planned in the SAAP for a period of 5 years period and this arrangement shall be an integral part of the agreement with the contractor. This arrangement will incentivise the contracting agency to construct good quality infrastructure and supply good quality of equipment which will last for its design life with reduced maintenance or repairs.
The expenditure towards O&M arrangements for 5 years after the DLP are proposed to be funded from the allocation to the Maintenance Fund (Non-Road) of the concerned ULBs. The possibility of collection of user charges, strengthen the billing and collection systems and other strategies for revenue improvement are being analysed in the State.

- Is it by way of levy of user charges or other revenue streams?

The State is assessing the possibility of collection of user charges, strengthen the billing and collection systems and other strategies for revenue improvement, to meet the O& M Cost.

Kerala Water Authority is responsible for providing water supply and sewerage network connects to the Households. To meet the cost of O&M, KWA is exploring possibilities like the expanding the connection /service network, strengthening billing and collection systems, energy conservation and efficiency improvement, reduction of NRW (Non-Revenue Water), reuse and recycling of waste water, Smart metering, SCADA etc.

- What kind of model been proposed by States/ULBs to fund the O&M? Please discuss.

State has proposed to meet the requirement from the Maintenance Fund (Non-Road) of the concerned ULBs. However recovery of O&M by ULBs through imposing user charges and other operation cost reduction measures are also being explored by the concerned departments.

- Is it through an appropriate cost recovery mechanism in order to make them self-reliant and cost-effective? How?

Appropriate strategy for cost recovery mechanism to make them self-reliant and cost-effective is being analysed and explored.

3 REFORM IMPLEMENTATION

In order to become eligible to claim the 10% incentive, the State is required to implement the Reforms prescribed by GoI. The states are also required to a self-assessment and based on the score the Apex committee will decide the eligibility of the state. Please fill out Table 5.2; pg. 52 of AMRUT Guidelines and respond to the following. Some of the criteria that should be considered while preparing the SAAP:

- Fill out the tables prescribed by the TCPO. What are the Reform type, steps and Target for 2016-17?

S.No	Type	Milestones	Implementation timeline	Present Status
1	E-Governance	Coverage with E-MAAS (from the date of hosting the software)		
		Registration of Birth, Death and Marriage,	24 months	Achieved
		Water & Sewerage Charges	24 months	Achieved
		Grievance Redressal	24 months	Achieved
		Property Tax	24 months	Achieved
		Advertisement tax	24 months	Initiated
		Issuance of Licenses	24 months	Achieved
		Building Permissions	24 months	Achieved

		Mutations	24 months	Achieved
		Payroll	24 months	Achieved
		Pension	24 months	Achieved
		e-procurement	24 months	Achieved
2	Constitution and professionalization of municipal cadre	Establishment of municipal cadre.	24 months	Achieved
		Cadre linked training.	24 months	Achieved
3	Augmenting double entry accounting	Appointment of internal auditor.	24 months	Achieved
4	Urban Planning and City Development Plans	Make a State level policy to implement the parameters given in National Mission for Sustainable Habitat.	24 months	Achieved
5	Devolution of funds and functions	Implementation of SFC recommendations within timeline.	24 months	Achieved
6	Review of Building bye-laws	State to formulate a policy and action plan for having a solar roof top in all buildings having an area greater than 500 square meters and all public buildings.	24 months	On going
		State to formulate a policy and action plan for having Rain Water Harvesting structures in all commercial, public buildings and new buildings on plots of 300 sq. meters and above.	24 months	Achieved
7	Set-up financial intermediary at	Establish and operationalize financial intermediary- pool finance, access external funds,	24 months	Achieved

	state level	float municipal bonds.		
8	Credit Rating	Complete the credit ratings of the ULBs	24 months	Ongoing
9	Energy and water audit	Give incentives for green buildings (e.g. rebate in property tax or charges connected to building permission/development charges)	24 months	To be achieved within timeline

- Fill out Table 5.5 (pg. 54) given in the AMRUT Guidelines. What is the outcome of the self-evaluation done for reporting progress on reform implementation in order to receive the 10% incentive?

S.No	Name of ULBs	Maximum Score possible during	Score obtained ULB Wise
1	Thiruvananthapuram	280	271
2	Kollam	280	280
3	Alappuzha	280	265
4	Kochi	280	270
5	Thrissur	280	272
6	Guruvayoor	280	265
7	Palakkad	280	245
8	Kozhikode	280	270
9	Kannur	280	275
	State Average	**280**	**268**

All Mission Cities have achieved more than 70% score, which is required for claiming the incentive. The State average score is 96% and the consolidated reform document has been submitted to TCPO on 30th May 2016 for revalidation. The incentives are awaited.

- Have any issues been identified during the review by HPSC on Reforms

implementation? What are the issues?

The HPSC observed that Kerala had achieved most of the proposed reforms under JnNURM itself. Also, the Committee suggested educating the new Council of the Mission cities about the importance of achieving and sustaining the reforms at ground level. Also, many cities now have extended area which also have to be considered while planning implementation of reforms.

- Have these issues been considered while planning for reform implementation? How?

A detailed note has been prepared in regional language highlighting the importance of urban reforms, the mode of achieving it and bringing in political will and official commitment required to sustain it. This will be presented before the newly elected council in all mission cities to empower the minds of the new leaders.

5 ANNUAL CAPACITY BUILDING PLAN

The state is required to submit a Capacity Development Plan along with the SAAP for approval by the MoUD, to empower municipal functionaries and lead to timely completion of projects. Please prepare the individual and institutional capacity building plan by filling out Tables 7.2.1, 7.2.2, 7.2.3 and statement in Table 7.2.4 (pgs. 70 – 72) of AMRUT Guidelines and give the following responses.

- What is the physical and financial Progress of capacity development at state level?

The roll out of capacity development programme is progressing as per the approved SAAP 2015-16 . The training for the targeted number of elected representatives and functionaries have been completed as per the training plan issued for the previous financial year and as per the operational guidelines issued dated 12th May 2016.

An amount of Rs 11.34Lakh has been released to CED as mobilization advance

amount. The invoice verified and certified by the state for the balance amount of Rs 4.76 lakh has been forwarded to MoUD for payment as per the Operational guidelines of MoUD for Rolling out the Training programmes.

IIHS Bangalore after completion of the trainings for the targeted number of functionaries from Town Planning and Engineering & Public Health and from the line departments (KWA &CTP) during the period June – July 2016, have submitted an invoice for Rs. 22.41Lakh which is being verified for certification from the State.

CED has also completed the trainings for the targeted number of functionaries under Administration and Revenue & Finance Departments during the period July- August 2016 and have yet to submit the invoice and costing sheets for the trainings conducted.

Including Elected representatives and departmental functionaries, a total of 638 persons were trained against the targeted 580 persons.

- Do you feel that there is a need to include any other category of official, new department or module?

More of parastatal agencies involved in the implementation of AMRUT projects have to be included in the trainings.

- What are the issues that are been identified during the review?

a. Delivery of lectures was preferred in regional language.
b. Categorizing of participants need to be done based on higher to lower level officers and their training needs
c. Too many sessions cramped together. Participants have requested more content and each sessions to be more focused with longer duration.
d. The orientation trainings need to be conducted before the preparation of SLIP

- Have the activities in your current year Capacity Building Plan – training, exposure

visits (ULB staff and elected representatives), seminars/workshops, etc. – been vetted/approved by NIUA?
Yes the State training plan was prepared and has been forwarded to NIUA. The report on the trainings rolled out has also been forwarded to NIUA. Seminars/workshops/exposure visits are yet to be rolled out and will be scheduled as per the training plan.
• What is the present institutional capacity in the ULBs of the state; have the RPMC, UMC, etc. been appointed? Are there other PMUs, PIUs, etc. which are still operational?
Two member team which forms the City Mission Management Unit, have been placed at the 9 AMRUT cities. There are no RPMC or UMC that are operational.
• What has been the progress during the previous year/s in institutional capacity building, especially but not only in the seven areas that are mentioned in the AMRUT Guidelines?
a. Smart City Proposal for Kochi was prepared with the Support of I Macs and the consultancy fee was paid from MoUD under CBUD. b. The ULBs are being supported by the State and City Mission Management Units in the preparation of SLIP, Project Development and Management. Also the selection process for the PDMC is completed and the agreement document is under processing. c. Accomplished most of the reforms prescribed for 2015-16 d. Cochin Smart Mission Limited is incorporated to implement the Cochin Smart City Proposals. e. Supported the tendering process for the selection of Project Management Consultant (PMC) for smart cities Mission.

- Attach the Quarterly Score Cards on p. 73 of the Mission Guidelines.

  Included in Chapter 4

ADMINISTRATIVE AND OTHER EXPENSES

The 10% allocation for A&OE has been divided into two parts, 8% State fund and 2% GoI fund. Please fill out the Plan of Action Table given in the AMRUT Guidelines (Table 4; pgs.48, 49) and answer the following questions.

- What is the committed expenditure from previous year?

Sr.No	Items proposed for A&OE	Total Requirement	Expenditure 2015-16	Proposed spending for FY 2016-17
1	Preparation of SLIP & SAAP & DPR	10.39	0	4.17
2	PDMC	23.08	0	3.46
3	Procuring third party Independent Review & Monitoring Agency	2.25	0	0.45
4	Publications (e-Newsletter ,guidelines brochures etc.)	2.25	0	0.45
5	Capacity Building and Training			
	CCBP, if applicable	39.78	0.12	7.96
	Others			
6	Reform implementation	13.50		3.60
7	Others			
	Establishment Cost of State MMU & City MMU	7.15	0.81	1.58
	Supporting cost including local travel and stationery	3.41	0.24	
	TOTAL	101.80	1.17	22.46

- What are the issues that are been identified during the review?

Not Applicable

- Have the A&OE fund used only for admissible components?

Yes, funds under A& OE have been used only for admissible components.

- How the ULB/State wants to carry out the implementation of the projects, (establishment of IRMA/PDMC/SMMU/CMMU)?

State has established the SMMU and CMMUs in all mission cities to coordinate and monitor the projects. The process of selection of the PDMC has been finalized , M/S WAPCOS has been identified as the consultant. The contract signing process is progressing. The process for the selection of IRMA has been initiated, besides the SHPSC has also decided to appoint a technical committee for quality check during the implementation.

Financing of Projects

Financing is an important element of the SAAP. Each state has been given the maximum share that will be given by the Central Government. (Para 5 of AMRUT Guidelines). The State has planned for the remaining resource generation at the time of preparation of the SAAP. The financial share of cities will vary across ULBs. Information responding to the following questions regarding financing of the projects proposed under AMRUT, in words has been indicated below:

- What is the State contribution to the SAAP? (should be greater than 20 percent, Para 7.4 of AMRUT Guidelines)

The amount for which SAAP 2016-17 prepared is Rs 796.06 Cr against the Central Allocation of Rs 387.46 Cr (48.67%). State' s contribution in the SAAP 16-17 is Rs

231Cr (31.33%) of the total SAAP amount

- Fill out Table 3.4 at pg.45 of AMRUT Guideline. How the residual financing (over and above Central Government share) is shared between the States, ULBs?

SAAP 16-17 is prepared for a total amount of 796.06 Cr, and the State Share is Rs 251.11 Cr (31.33%) and the ULB share is 154.56(20.0%)

#	Sector	GoI	State	ULB	Total
1	Water Supply	165.78	122.73	66.31	354.81
2	Sewerage/ Septage Management	108.33	65	43.33	216.65
3	Drainage	59.74	35.84	23.9	119.48
4	Urban Transport	44.83	26.9	17.93	89.66
5	Others	7.73	4.64	3.09	15.46
	Grand Total	**386.4**	**257.11**	**154.56**	**796.06**

- Fill out Table 3.3 at pg 44 of AMRUT Guidelines. Has any other sources identified by the State/ULB (e.g. PPP, market borrowing)? Please discuss

The SAAP is prepared against the Central allocation, however the State Government has initiated Kerala Infrastructure Investment Fund Board(KIIFB) for funding of infrastructure projects. Hence the funding of projects under non priority sectors (Storm water drainage , Urban transport- Multi level car parking) of AMRUT would be explored through KIIFB

- Whether complete project cost is linked with revenue sources in SAAP? Please describe?

All the projects proposed in SAAP 16-17 are linked with revenue sources ,as described above under either CA or State/ULB's contribution

- Has projects been dovetailed with other sectoral and financial programme of the Centre and State Governments?

Yes. State has allocated funds under 14th Finance Commission to the ULBs. State will raise additional resources for AMRUT through devolution of fund to Municipalities and converging with other state and Centrally sponsored schemes.
The Coordination committee of LSGD has also approved the utilization of Plan fund for mobilizing the share of the ULBs in AMRUT project.

- Has States/UTs explored the possibility of using Public Private Partnerships (PPP),

as a preferred execution model? Please discuss.
Yes, the State is exploring the possibilities of using PPP as a preferred execution model for projects with potential for revenue generation. Multi level car parking, rejuvenation of parks and open spaces are a few.
• Are PPP options included appropriate Service Level Agreements (SLAs) which may lead to the People Public Private Partnership (PPPP) model? How?
Yes, the peoples participation is ensured in the implementation of projects under Rain Water Harvesting and Rejuvenation of parks and open spaces .

CHAPTER 4: TABLES:

Table 1.1 Breakup of total MoUD allocation for AMRUT

FY 2016-17

Name of State: Kerala

Total Central funds allocated to State	Allocation of Central funds for A&OE (@ 8% of Total given in column 1)	Allocation of funds for AMRUT (Central share)	Multiply col. 3 by x3) for AMRUT on col. 4 (project proposal to be three- times the annual allocation - CA)	Add equal (col. 4) State/ULB share	Total AMRUT annual size (cols.2+4+5)
1	2	3	4	5	6
139.10	**10.304**	**128.80**	**386.40**	**386.40**	**783.104**

Table 1.2.2: Abstract-Break-up of Total Fund Sharing Pattern

(Amount in Rs Cr.) FY 2016-17

Sl. No.	Sector	Centre	State			ULB			Convergence	Others	Total
		Mission	14th FC	Others	Total	14th FC	Others	Total			
1	Water Supply	165.775		122.73	122.73		66.31	66.31	Nil	Nil	354.81
2	Sewerage/ Septage Management	108.33		65	65		43.33	43.33	Nil	Nil	216.65
3	Drainage	60.17		35.84	35.84		24.07	24.07	Nil	Nil	120.35
4	Urban Transport	44.4		26.64	26.64		17.75	17.75	Nil	Nil	88.79
5	Others	7.73		4.64	4.64		3.09	3.09	Nil	Nil	15.46
	Grand Total	**386.4**		**254.85**	**254.85**		**154.55**	**154.55**	**Nil**	**Nil**	**796.06**

Table 1.3: Abstract-Use of Funds on Projects: On Going and New

(Amount in Rs.) FY 2016-17

Sl. No.	Sector	Total Project Investment	Committed Expenditure (if any) from Previous year							Proposed Spending during Current Financial year							Balance Carry Forward for Next Financial Years						
			Centre	State			ULB			Centre	State			ULB			Centre	State			ULB		
				14th FC	Others	Total	14th FC	Others	Total		14th	Others	Total	14th	Others	Total		14th FC	Others	Total	14th FC	Others	Total
1	Water Supply	590.56	7.96		4.78	4.78		3.18	3.184	25.03		15.02	15.02		10.01	10.01	250.65			173.65			113.46
2	Sewerage & Septage Management	388.44	1.86		1.12	1.12		0.74	0.744	5		3	3		2	2	187.36			112.42			74.94
3	Drainage	225.27	3.01		1.81	1.81		1.20	1.204	6.80		4.08	4.08		2.72	2.72	102.83			61.69			41.13
4	Urban Transport	150.85	2.75		1.647	1.65		1.10	1.095	6.93		4.155	4.16		2.77	2.77	65.76			39.45			26.30
5	Others	28.92	1.62		0.972	0.97		0.65	0.648	3.70		2.217	2.22		1.478	1.48	9.15			5.49			3.66
	Grand Total	1384.04	17.20		10.317	10.32		6.88	6.878	47.45		28.47	28.47		18.98	18.98	627.38			376.43			250.95

Table 1.4: Abstract-Plan for Achieving Service Level Benchmarks

FY 2016-17

Proposed Priority Projects	Total Project Cost	Indicator2	Baseline 3	Annual Targets based on Master Plan (Increment from the Baseline Value)					
				FY 2016		FY 2017	FY 2018	FY 2019	FY 2020
				H1	H2				
Water Supply									
73	2173.42	1. Household level coverage of direct water supply connections	53.50	53.50	53.50	60	75	90	100
		2. Per capita quantum of water supplied	84.09	84.09	84.09	90	110	120	135
		3. Quality of water supplied	89.08	89.08	89.08	92	95	98	100
Sewerage and Septage Management									
76	4181.15	4. Coverage of latrines (individual or community)	97.20	97.20	97.20	99	100	100	100
		5. Coverage of sewerage network services	4.44	4.44	4.44	10	25	60	100
		6. Efficiency of Collection of Sewerage	4.89	4.89	4.89	10	35	70	100
		7. Efficiency in treatment	11.06	11.06	11.06	15	35	70	100
Drainage									
80	1909.05	8. Coverage of storm water drainage network	33.19	33.19	33.19	35	40	45	50
Urban Transport									
80	1201.59	9. Service coverage of urban transport in the City	2.46	These indicators are meant for motorized transportation where as mission emphasis on NMT. And our proposals are mainly on improvement of parking system, foot over bridges, footpaths, NMT etc.					
		10. Availability of urban transport per 1000 Population	2.73						
Green Space and Parks									
100	**324.35**		**7.62**	**7.62**	**7.8**	**8**	**8**	**8**	**10**

2 As per SLB framework for water supply, sewerage, solid waste management and drainage and proposed SLB indicator for urban transport

3 Detailed information for arriving at % target against baseline shall be worked out from details provided by Cities so as to arrive at state indicators

Table 3.2: SAAP - Sector Wise Breakup of Consolidated Investments for all ULBs in theState

Name of State:KERALA FY : 2016 -17

(Amount in Rs.)

Name of City	Water Supply	Sewerage / Septage Management	Drainage	Urban Transport	Open space	Reforms	Total
1	2	3	4	5	6	7	8
Thiruvananthapuram	29.04	50.69	19.09	11.23	2.25		112.30
Kollam	34.07	24.93	15.00	7.44	1.66		83.10
Alappuzha	56.87	2.00	13.00	3.00	1.53		76.4
Kochi	63.04	30.78	17.44	10.26	2.05		123.57
Thrissur	36.08	26.40	14.96	8.80	1.76		88.0
Guruvayur	41.50	10.00	0.14	19.00	1.42		72.06
Palakkad	32.00	22.59	12.80	7.53	1.51		76.43
Kozhikode	31.83	27.03	15.32	14.12	1.80		90.10
Kannur	30.38	22.23	12.60	7.41	1.48		74.10
	354.81	216.65	120.35	88.79	15.46		796.06
Total Project Investments							**796.06**
A&OE							**10.00**
Grand Total							**806.06**

Table 3.4: SAAP - Year Wise Share of Investments for All Sectors

(ULB Wise)

(Amount in Rs.)

Nam e of City	Total Project Invest ment	Committed Expenditure (if any) from Previous year							Proposed Spending during Current Financial year							Balance Carry Forward for Next Financial Years						
		Cent re	State			ULB			Cent re	State			ULB			Centr e	State			ULB		
			14th	Oth	Tot al	14th	Oth	Tot al		14	Oth er	Tot al	14	Oth	Tot al		14th FC	Oth ers	Tot al	14th FC	Oth er s	Total
Thiruvana nthapura m	216.03	3.32			1.99 9			1.33	16.7 25			10.04			6.69	87.5			52.5			35
Kochi	199.48	2.86			1.72			1.11	3.70			2.22			1.48	82.70			70.59			33.08
Kozhikod	161.23	0			0			0	2.49			1.50			0.99	78.13			46.88			31.25
Thrissur	159.03	4			2.4			1.6	2.28			1.37			0.91	73.24			43.94			29.29
Kollam	148.78	3.90			2.34			1.56	4.79			2.87			1.92	65.71			39.42			26.28
Kannur	132.35	0			0			0	3.93			2.36			1.57	62.25			37.35			24.9
Palakkad	126.92	3			1.8			1.2	7.5			4.5			3	52.40			32.57			20.96
Alappuzh	126.41	0			0			0	4.46			2.68			1.78	58.62			35.17			23.45
Guruvayu	113.82	0			0			0	1.12			0.67			0.45	55.22			34.29			22.09

Table 7.4: Quarterly Score Cards for States

Financial and physical progress on capacity building (State level)

Quarter ending –Sep'16

Total number of ULBs: 9

Number of ULBs above/below proportionate target (from table 7.3 of AMRUT guideline)	Name of the department/ position	Physical		Financial		Total number trained, if relevant, upto quarter	Total funds utilized upto quarter (in Cr)
		Total target in FY	Proportionate target upto quarter	Funds allocated in CFY	Proportionate target upto quarter		
Above	Individual training	580		--	--	638	0.50 (0.39 under CBUD funds)
	Institutional capacity building						

- All the expenditure under Institutional capacity Building are met from CBUD

Table 3.1: SAAP – Master Plan of all projects details to achieve universal coverage during the current Mission period based on Table 2.1 (FYs 2015-16 and 2019-20) (Amount in Rs.)

Name of State: Kerala **Current Mission period 2015-20**

Sr. No.	Name of ULB (water supply and sewerage)	Total number of projects to achieve universal coverage	Estimated Cost	Number of years to achieve universal Coverage
1	Thiruvananthapuram	67	1940.15	4 years
2	Kollam	5	942.00	4 years
3	Alappuzha	2	251.20	4 years
4	Kochi	15	1008.04	4 years
5	Thrissur	21	255.68	4 years
6	Guruvayoor	8	205.50	4 years
7	Palakkad	13	426.50	4 years
8	Kozhikode	11	923.00	4 years
9	Kannur	10	403.00	4 years
10	**TOTAL**	**152**	**6355.07**	

Note : Average years required for Universal coverage is 4 years, however the period for each sector would vary based on existing service levels.

Table 3.5: SAAP- – State level Plan for Achieving Service Level Benchmarks

Name of State –Kerala **Current Mission Period- 2015-16**

Proposed Priority Projects	Total Project Cost (Rs in Cr)	Indicator	Baseline	Annual Targets based on Master Plan (Increment from the Baseline Value)					
				FY 2016		FY 2017	FY 2018	FY 2019	FY 2020
				H1	H2				
Water Supply									
	2173.42	Household level coverage of direct water supply connections	53.5	53.5	53.5	60	65	70	75
		Per capita quantum of water supplied	84.09	84.09	84.09	90	110	120	135
		Quality of water supplied	89.08	89.08	89.08	92	95	98	100
Sewerage and Septage Management									
	4181.15	Coverage of latrines (individual or community)	97.20	97.2	97.2	99	100	100	100
		Coverage of sewerage network	4.44	4.44	4.44	7	15	20	35

Proposed Priority Projects	Total Project Cost (Rs in Cr)	Indicator	Baseline	Annual Targets based on Master Plan (Increment from the Baseline Value)					
				FY 2016		FY 2017	FY 2018	FY 2019	FY 2020
		services							
		Efficiency of Collection of Sewerage	4.89	4.89	4.89	10	20	35	50
		Efficiency in treatment	11.06	11.06	11.06	15	35	60	75
Drainage									
	1909.05	Coverage of storm water drainage network	33.19	33.19	33.19	35	38	42	45
Urban Transport									
	1201.59	Service coverage of urban transport in the city	2.46	These indicators are meant for motorised transportation where as Mission emphasises on NMT and our proposals are mainly on improvement of parking systems, foot over bridges, footpaths and NMTs etc.					
		Availability of urban transport per 1000 population	2.73						

Proposed Priority Projects	Total Project Cost (Rs in Cr)	Indicator	Baseline	Annual Targets based on Master Plan (Increment from the Baseline Value)					
				FY 2016		FY 2017	FY 2018	FY 2019	FY 2020
Green space and parks									
	324.35		7.62	7.62	7.62	8	8	8	8

Table 4: SAAP -Broad Proposed Allocations for Administrative and Other Expenses

(Amount in Rs.) **Name of State: Kerala**

Sr.No	Items proposed for A&OE	Total Requirement	Expenditure 2015-16	Proposed spending for FY 2016-17	Balance to Carry Forward		
					FY	**FY**	**FY**
					2018	**2019**	**2020**
1	**Preparation of SLIP & SAAP & DPR**	10.39	0	4.17	2.08	2.08	2.08
2	**PDMC**	23.08	0	3.46	6.54	6.54	6.54
3	**Procuring third party Independent Review & Monitoring Agency**	2.25	0	0.45	0.60	0.60	0.60
4	**Publications (e-Newsletter ,guidelines brochures etc.)**	2.25	0	0.45	0.60	0.60	0.60
5	**Capacity Building and Training**						
	CCBP,if applicable	39.78	0.12	7.96	10.57	10.57	10.56
	Others						
6	Reform implementation	13.50		3.60	3.60	3.60	2.70
7	**Others**						
	Establishment Cost of State MMU & City MMU	7.15	0.81	1.58	1.58	1.58	1.58
	Supporting Cost includes local travel and Stationery	3.41	0.24	0.79	0.79	0.79	0.79
	TOTAL	**101.80**	**1.17**	**22.46**	**26.37**	**26.37**	**25.46**

Table 5.2 SAAP-ReformsType, Steps and Target for AMRUTCitiesFY-2016-2017

Sl. No.	Type	Steps	Implementation Timeline	Target to be set by states in SAAP				Present Status/ Issue If Any
				Oct 2015 to Mar 2016	Apr to Sep 2016	Oct 2016 to Mar 2017	Apr to Sept 2017	
1	E-Governance	Coverage with E-MAAS (from the date of hosting the software) • Registration of Birth, Death and Marriage, • Water & Sewerage Charges, •Grievance Redressal, •Property Tax, •Advertisement tax, •Issuance of Licenses, •Building Permissions, •Mutations, •Payroll, •Pension and e-procurement	24 months	Yes				Accomplished
2	Constitution and professionalization of municipal cadre	Establishment of municipal cadre.	24 months	Yes				Accomplished
		Cadre linked training.						

3	Augmenting double entry accounting	Appointment of internal auditor.	24 months				Yes	Accomplished
4	Urban Planning and City Development Plans	Make a State Level policy for implementing the parameters given in the National Mission for Sustainable Habitat	24 months				Yes	Accomplished
5	Devolution of funds and functions	Implementation of SFC recommendations within timeline.	24 months				Yes	Accomplished
6	Review of Building by-laws	State to formulate a policy and action plan for having a solar roof top in all buildings having an area greater than 500 square meters and all public buildings	24 months	Yes				Solar Roof top- To be accomplished in prescribed timeline.
		State to formulate a policy and action plan for having Rainwater harvesting structures in all commercial, public buildings and new buildings on plots of 300 sq. meters and above	24 months					RWH- Accomplished

7	Establish and operationalize financial intermediary- pool finance, access external funds, float municipal bonds	Establish and operationalize financial intermediary- pool finance, access external funds, float municipal bonds.	24 months				Yes	Accomplished
8	Credit Rating	Complete the credit ratings of the ULBs.	24 months				Yes	Ongoing
9	Energy and Water audit	Give incentives for green buildings (e.g. rebate in property tax or charges connected to building permission/development charges).	24 months				Yes	To be accomplished in prescribed timeline.

Table5.5:SAAP- Self- Evaluation for Reporting Progress on Reform Implementation

Financial Year 2015-16

Incentive based grant release calculation:

S.No	Name of ULBs	Maximum Score possible during theyear	Score obtained ULB Wise
1	Thiruvananthapuram	280	271
2	Kollam	280	280
3	Alappuzha	280	265
4	Kochi	280	270
5	Thrissur	280	272
6	Guruvayoor	280	265
7	Palakkad	280	245
8	Kozhikode	280	270
9	Kannur	280	275
	State Average	**280**	**268**

Table 7.2: Annual Action Plan for Capacity Building

Name of State –**Kerala** FY- 2016-17

Form 7.2.1 -Fund Requirement for Individual Capacity Building at ULB level

Sl.No	Name of the ULB	Total numbers to be trained in the current FY department wise							Name of the training institution(s) identified	Number of training programmes to be conducted (Elected representatives + Functionaries)	Funds required in current FY
		Elected Representative	Finance Dept	Engineering Dept	Administrative Dept	Town Planning Dept	Line Dept	Total			
1	Trivandrum	20	3	18	15	20	10	86	CED/IIHS	4 (1+3)	0.26
2	Kollam	11	7	15	10	15	7	65	CED/IIHS	3 (1+2)	0.20
3	Alappuzha	12	6	9	9	12	7	55	CED/IIHS	2 (1+1)	0.12
4	Thrissur	10	9	8	9	15	8	59	CED/IIHS	3 (1+2)	0.16
5	Kochi	15	15	10	10	15	10	75	CED/IIHS	3 (1+2)	0.17
6	Kozhikode	12	20	9	10	13	8	72	CED/IIHS	3 (1+2)	0.19
7	Palakkad	10	15	9	9	10	7	60	CED/IIHS	3 (1+2)	0.19
8	Guruvayur	12	6	6	9	10	6	49	CED/IIHS	2 (1+1)	0.12
9	Kannur	18	9	6	9	10	7	59	CED/IIHS	3 (1+2)	0.16

10	Parastatal Agencies (KWA, TCP)			30			40		IIHS	2	0.22
	TOTAL	**120**	**90**	**90**	**90**	**120**	**70**	**580**			**1.80**

Table 7.2: Annual Action Plan for Capacity Building

Name of State –**Kerala** FY- 2016-17

Form 7.2.2 -Fund Requirement for State level activities

Sl.No	State Level Activity	Total expenditure upto current FY	Unspent funds available from earlier releases	Funds required for the CFY
1	RPMC/SMMU/CMMU			2.37
2	UMC	NA	NA	NA
3	Others (eg. Workshops, seminars, etc) which are approved by NIUA			
	National level workshop – 1			0.10
	Regional level workshop - 2			0.06
	State Level workshop – 4			0.10
	Workshop for Module Preparation (4x4 themes)			0.08
4	**External Resource Persons**			
	For 2 Workshops on the four themes			0.04
	Exposure Visits			
	Four day Exposure visit to an initiative in India identified as			
	a best practice			2.04
	Participation in International /National Workshop			0.18
	Participation of members of SMMU/CMMU in National level workshops/ Seminars/Conferences - Maxi 5 persons per year			0.04
	Research Studies			
	Three Research studies for the FY 2016-17			0.15

	IEC Development			0.05
	Development of Data Base Repositories			0.05
	Development of Multilayer GIS			0.05
	Monitoring Activities of IRMA			0.45
	Activities of PDMC			3.46
	TOTAL			**9.22**

Table 7.2.3: Annual Action Plan for Capacity Building

Name of State – **Kerala** FY- 2016-17

Form 7.2.3 -Total Fund Requirement for Capacity Building

Sl.No.	Fund requirement	Individual (Training & Workshop)	Institutional/ Reform	SMMU /CMMU	Others	Total (In Crore)
1	Total release since start of Mission (2015)	12.25				12.25
2	Total utilisation-Central Share	4.98				4.98
3	Balance available-Central Share	7.27				7.27
4	Amount required-Central Share					5.00
5	Total fund required for capacity building in current FY 2016-17	2.84	7.06	2.37		12.27

Note : Invoices and costing sheets prepared by the training entities as per rates specified in CCBP toolkit is verified by the State and submitted to MoUD for CBUD funds.

Form 7.2.4 Details of Institutional Capacity Building

a. Is the State willing to revise their town planning laws and rules to include land pooling?
State Town Planning Act is under preparation and the suggestions of including land pooling and other land management mechanism like ToD, Town Planning Schemes etc are being seriously considered by the government.
b. List of ULBs willing to have a credit rating done as the first step to issue bonds?
During the JnNURM, the credit and performance rating has been done for Kochi and Thiruvananthapuram. However due to low grading, the mission cities did not iniate the process to issue the bonds. Credit and performance rating for all the mission cities have beeninitiated under AMRUT The feasibility for raising the Municipal bond for funding infrastructure projects will be assessed after the Credit rating
c. Is the State willing to integrate all work done in GIS in order to make GIS useful for decision making in ULBs?
Yes, Kerala State Government is willing to integrate all work done in GIS in order to make GIS useful for decision making in ULBs. The state has already initiated GIS mapping in planning and monitoring. Base maps are being prepared for all ULBs in the State. The master plans/development plans, slum free city plans etc are being prepared using GIS maps. At ULB level, GIS based maps are also being prepared to monitor the property tax collection, ULB asset management and infrastructure management.
d. Is the State willing to take assistance for using land as a fiscal tool in ULBs?
Yes, the State is willing to take assistance for using land as a fiscal tool in ULBs. The state is exploring the possibility of Impact fee, betterment charges, Area linked development charges, Building Penalisation scheme, introducing Vacant Land Tax (VLT), Transfer of Development Rights (TDR), Incentive FSI and Lay-out regularization scheme .
e. Does the State require assistance to professionalize the municipal cadre?
Yes, support from the GoI is required to professionalise the municipal cadre. As part of JnNURM, Comprehensive Capacity Building Programme, Training need analysis was done for 14 ULBs and trainings were planned under Urban Planning, Urban Infrastructure, Municipal Finance and Governance.

f. Does the State require assistance to reduce non-revenue water in ULBs?
Yes, support is required, at present the non – revenue water is around 40%-30 in the proposed 9 mission cities. The Water Authority is aiming at universal coverage by reducing the percentage of Non-Revenue Water (NRW).
g. Does the State require assistance to improve property tax assessment and collections in ULBs?
Yes the State requires assistance in implementing technological solutions to improve the efficiency of property tax assessment and collection.
h. Does the State require assistance to establish a financial intermediary?
Yes, State has constituted KURDFC (Kerala Urban And Rural Development Finance Corporation Ltd) whose mandate is to provide funds for ULBs for VGF from various sources. The main activity of the Company is to provide loan assistance to various local bodies in the State of Kerala for their developmental activities. However more finance is required for the development need of ULBS.