

5th State Level Technical Committee
Atal Mission for Rejuvenation and Urban Transformation
(AMRUT)

AGENDA NOTE

Date : 24th January 2016

Time : 10.30 am

Venue: Chamber of the Principal Secretary

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Agenda No. 1 APPROVAL OF THE MINUTES & ACTION TAKEN REPORT OF THE MEETING

Approval of minutes of 4th State Level Technical Committee held on 4.08.2016 (*Annexure I*) and action taken report.

	Agenda and Decision	Action Taken
1	Constitution of Technical Expert Committee for issuing Technical Sanction The committee directed the Mission Management Unit to suggest 10 members for each Committee namely: <ul style="list-style-type: none"> ▪ Water Supply & Sewerage ▪ Transport and Green Space & Parks 	Nominees for Technical Committees are prepared and the same will be discussed in the Agenda No:2
2	Administrative sanction of DPRs The Committee decided to recommend the 19 DPRs received for obtaining Administrative Sanction from SHPSC.	The SHPSC accorded the AS for 19 projects and awaiting the GO
3	Project Change in Kannur	The SHPSC approved the revised project proposal of Kannur to utilize the amount earmarked for Bus procurement for Water Supply Sector.
4	Strategies to support mission cities for smooth implementation of projects under AMRUT.	The matter was discussed in detail in the 7 th SHPSC and decisions of SHPSC will be considered in the Agenda No: 05
5	Utilization of Reform incentive. The SLTC discussed each projects/programmes in detail and decided to place it in the next SLTC with detailed write ups of the above options	Detailed write ups of proposed projects are placed along with the Agenda No:06
6	Approval of SLIP & Preparation SAAP 2017-18	Based on the approved SLIP, SAAP will be placed in the 8 th SHPSC scheduled on 24 th Jan 2017.

POINT FOR DECISION: *The committee may consider the approval of the minutes and the action taken report.*

Agenda No. 2 CONSTITUTION OF TECHNICAL EXPERT COMMITTEE FOR ISSUING TECHNICAL SANCTION

The 7th High Powered Steering Committee (HPSC) meeting held on 19-04-2017 (*Annexure-II*) had directed that the LSGD to finalise the list of members in the Technical Committee for following categories.

1. Water Supply & Sewerage
2. Storm Water Drainage, Urban Transport and Green Space & Parks

The CMMU discussed with various experts their willingness to Associate with AMRUT for Technical vetting of the DPRs.

POINT FOR DECISION

The SLTC may finalise the members for the Technical Committee from the suggestive list

Agenda No. 3 ADMINISTRATIVE SANCTION OF DPRs

The Mission Directorate has received the DPRs for 10 projects from Kerala Water Authority

1. Augmentation of Water Supply Scheme Kollam - Rs 78.35 Cr
2. Laying distribution network for improvement of coverage in Guruvayur and Pookode Zone – Rs 13.72 Cr
3. Rehabilitation of existing distribution networks, valves, house service connections and inter connections with existing lines of pallikkunnu zones , Kannur - Rs 1.50 Cr
4. Providing new water Connection in Kollam Corporation – Rs 7.00 Cr
5. Construction of 20 MLD WTP Peechi, Thrissur – Rs 17.30 Cr
6. Construction of 10 L OHSR & Pumping main to Guruvayur and distribution network of balance portion in Guruvayur Municipality – Rs 15.50 Cr
7. Water Supply System to Guruvayur Municipality - Package II – Rs 77.18 Cr
8. Construction of 14 LL Capacity OHSR Thottada at Edakkad Zone _III, Kannur – Rs 3.00 Cr
9. Laying of Gravity main from Water Supply System to Kannur at Melechohva to Sump at Avera to OHSR at Thottada – Rs 16.90 Cr
10. Rehabilitation of existing old distribution networks, valves, House service connections and inter connections – Rs 6.80 Cr

The executive summary of the projects enclosed as ***Annexure III***

POINT FOR DECISION

The committee may decide to recommend the DPR for obtaining the Administrative Sanction from SHPSC.

Agenda No. 4 : STRATEGIES TO SUPPORT MISSION CITIES FOR SMOOTH IMPLEMENTATION OF PROJECTS UNDER AMRUT.

The decision of 4th SLTC was presented in the 7th SHPSC and SHPSC has made following decisions. Referring to the letter from the Principal Secretary, LSGD (No. DC2/387/2016/LSGD dated 21.11.2016), the committee deliberated on the various options of implementation without a PDMC and decided to un-bundle the functions of the Project Development and Management Consultants into three major tasks as follows.

- A. PROJECT DEVELOPMENT
- B. QUALITY ASSURANCE
- C. PROJECT MONITORING

A. PROJECT DEVELOPMENT STRATEGIES

i. Water Supply Sector

KWA shall develop and implement all the projects for the AMRUT ULBs

ii. Sewerage/ Septage Sector

Chairman reiterated that the projects envisaged in this sector, shall be decentralised Sewerage & Septage Management. The same shall be implemented in EPC mode.

iii. Urban Transport/Parks

To seek the support of Kochi Metro Rail Ltd (KMRL) Mission for being the handholding agency for development and implementation of the projects under Non Motorised Transport (NMT) and Open spaces/ parks. The KMRL could support the ULBs in the designing the project at cost. The Chairman directed the Mission Director, AMRUT to formally enquire with KMRL their willingness to associate with mission cities for DPR preparation.

iv. Storm Water Drainage

The Committee decided that the ULBs should use the DPRs/ Drainage Master Plans where ever available, which may have be prepared from previous projects for the ULBs (under KSUDP/JnNURM). The Chairman reiterated that, as decided in the earlier SHPSC, the projects under SWD shall be in such a way, where there is complete drainage of any specific area. The Chairman also added that Piece- meal drainage projects will not be sanctioned under AMRUT.

Chairman enquired with the Secretary, Water Resources Dept, the possibility of utilising the services of Irrigation Department in developing DPRs for the AMRUT cities, where ever necessary. Secretary, Water Resources Dept, informed that such an arrangement could be made. The committee decided to take up this issue when such a need arises.

B. TECHNICAL CHECKS FOR QUALITY

For the inspection of technical quality of projects, it is decided to empanel the reputed engineering colleges, Institution of Engineers, Kerala etc . The preference to be given to the Government and aided Engineering Colleges having project consultancy team.

A Terms of Reference (ToR) shall be drafted defining the monitoring parameters, their scope of work, aspects, periodicity, stages of monitoring & their reporting requirements. The ToR shall include their certifying requirements on quality, timeliness of works done and achievement of promised deliverables/ outcomes of the projects. The cost for engaging the Quality Control Experts shall be met from the A&OE of AMRUT.

C. PROJECT MONITORING

The Committee directed the LSG Department to consider on the possibility of hiring a Govt. accredited Project Management Consultant (PMC) for monitoring the projects, which will include periodic monitoring, bill verification/vetting. It was informed by Additional Chief Secretary, Finance that such Project Management Consultants are being currently engaged for various such projects for the Govt. The LSG department could analyse the requirements and engage these accredited agencies at the prevailing rates.

POINT FOR DECISION

The committee may discuss and finalize the strategy and Plan of Action

Agenda No. 5: UTILIZATION OF REFORM INCENTIVE.

The State of Kerala was awarded with an incentive for obtaining a score more than 75 for implementing mandatory reforms under AMRUT and the ministry has released Rs 15 Cr for the achievement of the reform miles stones. In 4th SLTC the project proposed were discussed and the SLTC directed to place note on each of these proposals. The detailed note each proposal is enclosed ***Annexure -IV***.

1. Comprehensive Mobility Plan for 6 ULBs (Kollam, Alappuzha, Thrissur , Guruvayur , Palakkad and Kannur)

POINT FOR DECISION

The committee may discuss and recommend the projects/ programmes for reform incentive utilisation for the consideration of SHPSC

Agenda 6. APPROVAL OF STATE ACTION PLAN - Formulation of GIS based Master Plan for AMRUT mission cities in Kerala

“*Formulation of GIS based Master Plan for AMRUT cities*” is one of the mandatory reforms of AMRUT Scheme of Government of India. This is a 100% centrally assisted Scheme.

The SHPSC under AMRUT in its meeting held on 04-07-2016 nominated the Department of Town and Country Planning, Kerala as the Nodal Agency for implementation of this Scheme in Kerala and Sri. Shaji Joseph, Chief Town Planner (Planning) was nominated as the Nodal Officer and the work of Preparation of Master Plans for AMRUT Cities will be done by the Department of Town and Country Planning.

Accordingly, State Action Plan for this Scheme is prepared as per the guidelines of Government of India and copies of the same are submitted before this Committee for approval. The guidelines given by Government of India is for preparing the Master Plans through consultants. Government of Kerala is taking up the work through the Department of Town and Country Planning and not through consultants and therefore the proposal has been suitably modified to meet the requirements for undertaking the work through the Department.

The salient points of the State Action Plan are

1. Since the Department is directly implementing this Scheme, the additional manpower requirements are to be met through engaging contract staff.
2. Separate Project Cells are proposed to be set up at District Offices and head office with the Department staff and contract staff exclusively for this Scheme.
3. Exclusive office spaces on rental basis may also be required to be set up at the District level and State level to accommodate the Project Cells.
4. As per Government of India guidelines, the State can propose pattern of release of fund to Government of Kerala by Government of India. Accordingly, a proposal for release of funds is given in the State Action Plan.
5. The time schedule for completion of the Scheme is given in the proposal.

The executive summary is attached as ***Annexure V***

POINT FOR DECISION

The committee may discuss the matter and may take following decisions and recommend the State Action Plan for the consideration of SHPSC.

ANNEXURES

1. MoM 4th SLTC
2. MoM 7th SHPSC
3. Executive Summary - Projects for DPR
4. Note of reform proposal
5. GIS based master plan - SAP executive summary

Minutes of the 4th State Level Technical Committee (SLTC) of Atal Mission for Rejuvenation and Urban Transformation (AMRUT) held on 14th December 2016 at 2.30 pm in the Chamber of Principal Secretary, Local Self Government Department, Government of Kerala.

Members Present:

1. Sri. P S Mohammed Sagir, Mission Director AMRUT
2. Smt A Shainamol, Managing Director, KWA
3. Sri. Vijayakumar T.P., Special Secretary, LSGD
4. Sri. Shaji Joseph, Chief Town Planner (Planning)
5. Sri T K Soman, Additional Secretary, Finance Department
6. Smt. Retnamma V., Additional. Secretary. Power Department
7. Sri. T.K. Soman, Additional Secretary. Finance
8. Sri. P. Kalaiarasan, Scientist, NATPAC, TVPM
9. Sri. Jeevaraj M.N., Dy. CE, Roads & Bridges, PWD

The meeting of State Level Technical Committee commenced at 2.30 pm in the Chamber of Principal Secretary, Local Self Government Department.

Agenda Item No:1

Approval of the Minutes and Action Taken Report on the decisions of the 3rd SLTC meeting

SI No	Agenda and Decision	Action Taken
1	<p>Constitution of Technical Expert Committee for issuing Technical Sanction</p> <p>The committee directed the Mission Management Unit to suggest 10 members for each Committee namely:</p> <ul style="list-style-type: none"> ▪ Water Supply & Sewerage ▪ Transport and Green Space & Parks 	<p>The Mission Management Unit enquired the convenience and willingness of various professionals. The details in point 2.</p>
2	<p>Administrative sanction of DPRs of Thrissur Municipal Corporation and Kerala Water Authority</p> <p>The Committee decided to recommend the</p>	<p>DPRs were presented in the 7th SHPSC for AS, however the SHPSC suggested to resubmit the DPRs along with</p>

	17 DPRs received - for obtaining Administrative Sanction from SHPSC.	the Location maps.
3	Appointment of Project Development and Management Consultant (PDMC): M/s WAPCOS Ltd & OASIS Designs Consortium. The Committee recommended further discussion and analysis of the RFP, its evaluation & negotiation reports and draft agreement.	Since there has been change in scope of work to be done by PDMC, Special Secretary, LSGD directed to share the relevant documents including Contract Agreement for legal vetting and seek the approval of Finance Department as well. Further Government suggested to explore various possibilities other than appointing PDMC. The subject will be discussed in detail in Agenda 7

Decision taken :

The Committee approved the minutes and action taken report of the 3rd SLTC meeting held on 4th August 2016.

Regarding Point (2) of the action taken report, the Technical Member of KWA confirmed to submit the location maps of 16 projects by 15th December 2016 to the State Mission Directorate. For the remaining one project under open spaces, location sketch is already available.

Action by	Time Limit	Monitoring By
Sri Raveendran	15 th December 2016	Mission Director, AMRUT

Agenda Item No:2

Constitution of Technical Expert Committee for issuing Technical Sanction

The 3rd SHPSC held on 3-7-2016 had decided that a Technical Expert Committee has to be constituted to issue the technical sanctions for the projects under AMRUT. The SHPSC directed the Mission Management Unit (MMU) to suggest 10 members for each Committee namely:

1. Water Supply & Sewerage
2. Storm Water Drainage, Urban Transport and Green Space & Parks

The MMU discussed with various experts their willingness to associate with AMRUT for Technical vetting of the DPRs. However, the response from the experts were not positive on dedicating time for detailed scrutiny of the submitted DPRs & also on handling & approving Variation Orders that might arise.. The SMMU could not finalize the list of Technical Experts to associate with the AMRUT Mission.

Decision Taken :

In this context, the Chairman directed the Mission Director to once again identify the subject experts for the Technical Expert Committee, for issuing Technical Sanction under two categories namely;

1. Water Supply, Sewerage & Septage Management and Storm Water Drainage,
2. Urban Transport and Green Space & Parks.

The committee shall be constituted with 1/3rd members from related government departments, 1/3rd members from related departments of reputed Academic Institutes and 1/3rd members from independent/practicing professionals.

There shall be 2 committees under each category for Northern and Southern region with minimum 5 members

Action by	Time Limit	Monitoring By
SMMU	15 th Jan 2017	Mission Director, AMRUT

Agenda Item No:3

Administrative Sanction of DPRs

The Mission Directorate has received the DPRs for Water Supply projects amounting to Rs 33.90 Cr in Alappuzha Municipality and Green Space & Parks Sector project amounting to Rs 85 lakh in Kozhikode Corporation.

Decision Taken :

The committee decided to recommend the DPRs for obtaining the Administrative Sanction from SHPSC.

Action by	Time Limit	Monitoring By
SMMU	7 th SHPSC	Mission Director, AMRUT

Agenda Item No: 4

Change of project in Kannur

Kannur Corporation had proposed procurement of Low floor buses amounting to Rs4.17 Cr under SAAP 15-16. However, MoUD has informed that the focus of AMRUT is on Non Motorised Transport (NMT) and therefore bus procurement cannot be allowed. It was informed by MoUD that the allocated amount may be utilized in the priority sector (Water Supply and Sewerage/Septage Management). The Corporation of Kannur has requested to utilise the sanctioned amount for the Water supply section.

Decision Taken:

The SLTC discussed the matter in detail and requested the Deputy Mayor, Kannur to send a letter with the details of the project and fund reallocation for the consideration of SHPSC.

Action by	Time Limit	Monitoring By
Corporation of Kannur	5 th January 2017	Mission Director, AMRUT

Agenda Item No:5

Strategies to support Mission Cities for smooth implementation of projects.

In this regard, the SLTC deliberated on the following three options.

- Option 1- Appointment of Project Development and Management Consultant (PDMC)
- Option 2- Appointing Engineering staffs in ULB on contract basis as per the quantum work
- Option 3- Permit ULB's to appoint consultant to prepare DPRs for specific projects.

The SLTC assessed the assistance required by each mission cities for the DPR preparation under AMRUT.

Decision Taken :

5.1 The SLTC decided the following strategy sector-wise for the implementation of projects under AMRUT.

a. Water Supply Sector:

As decided by the SHPSC, the Kerala Water Authority will support the mission cities in Project Development, Implementation and Monitoring of Projects.

b. Sewerage/ Septage Management Sector:

To seek the support of EPC Consultants

c. Storm Water Drainage, Urban Transport and Parks Sectors:

The mission cities shall decide on Option (2) or Option (3) deliberated ie.

- Appointing Engineering staffs in ULB on contract basis for DPR preparation and implementations per the quantum of work .
- Permit ULB's to appoint consultant to prepare DPRs for specific projects.

The ULB shall intimate Mission Directorate the details on the financial and human resources support along with the Council resolution.

Action by	Time Limit	Monitoring By
Secretary, Mission Cities	20 th January 2017	Mission Director, AMRUT

5.2 The Chairman directed the SMMU to upload the list of agencies empanelled by the LSGD under Urban 2020 and to adopt the Government approved payment pattern for DPR preparation for the category of Storm Water Drainage, Urban Transport and Parks. The same shall be published in the SMMU Website www.smartkeralamission.org.

5.3 The SLTC recommended that the ULBs may empanel the Engineering Colleges/ Academicians/ Design wings of government agencies like NABARD, CWRD, KMRL etc for technical advisory and to support in DPR preparation of the projects under AMRUT. The ULBs may seek the support of following departments for each category.

- a. **Civil/Environmental Engineering / Water Resources Engineering Department-**Water Supply, Liquid Waste Management, Storm Water Drain
- b. **Civil/ Transport Engineering Department-** Foot over bridge, Under pass, Multi- level parking

c. **Architecture/Urban Design Department** – Open Spaces/ Parks, Pedestrian pathways, Bus Shelters

5.4 The SLTC also decided to recommend to SHPSC to consider the above decision of SLTC(5.1 to 5.3) for supporting ULBs in preparing the DPRs and Instead of appointing M/s WAPCOS and OASIS consortium as PDMC.

Agenda Item No:6

Utilization of Reform Incentive.

The State of Kerala was awarded with an incentive for obtaining a score more than 70% for implementing mandatory reforms under AMRUT for 2015-16. Vide MoUD OM No K-16012/3/2016- AMRUT II, the Ministry has released Rs 15Cr for the achievement of the reform mile stones.

As per the general guidelines regarding reform incentive from MoUD the SHPSC can decide upon the utilization of the incentive amount. The projects proposed are:

- Incentive to the ULBs based on the performance in achieving the reform mile stones so that the amount may be utilized as the ULB share of the project cost.
- Comprehensive Mobility Plan for 6ULBs (Kollam, Alappuzha, Thrissur, Guruvayur, Palakkad and Kannur)
- Support for Energy Audit and Water Audit in AMRUT cities
- Participation in international workshops/seminars, exposure visits etc (Max of 50 lakh)
- Leadership in Energy & Environmental Design (**LEED**) certification to the ULB Engineers to understand and implement Green Building Concept

Decision Taken :

The SLTC discussed each projects/ programmes in detail and decided to place it in the next SLTC with detailed write ups of the above options.

Action by	Time Limit	Monitoring By
SMMU	5 th SLTC	Mission Director, AMRUT

Agenda Item No:7**Approval of Service Level Improvement Plan (SLIP) 2017-18**

Vide Office Memorandum (OM) No.K-14012/95/2015/AMRUT-1 dated 06-06-2016 of MoUD, it was instructed that all mission cities update their SLIPs and thereafter prepare the State Annual Action Plan (SAAP) 2017-18.

All Mission cities have prepared the SLIPs for five categories. SLIPs for the sectors Water Supply and Sewerage were prepared by KWA, while for Urban Transport, Storm water drainage and Parks /Open spaces by the Engineering Division of the ULB.

The representatives from the each Mission city presented the SLIPs before the SLTC.

Decision Taken :

The committee reviewed the SLIPs in detail and recommended it for placing before the SHPSC.

Action by	Time Limit	Monitoring By
SMMU	7 th SHPSC	Mission Director, AMRUT

Agenda Item No:8**ULB -wise allocation and Project Prioritisation**

Vide D.O No.K-14012/95/2015/AMRUT/I dated 06-06-2016 of the MoUD. Central Assistance for the year 2017-18 is Rs.486.82 Cr, and a matching share has to be contributed by State plus ULB. Therefore the State Annual Action Plan for 2017-18 has to be prepared for Rs 973.64 Cr. The amount distributed among the mission cities and approved by the 6th SHPSC:

#	CITY NAME	% ALLOCATION	AMOUNT IN Cr
1	Thiruvananthapuram	14.53	141.47
2	Kollam	10.75	104.67
3	Alappuzha	9.89	96.29
4	Kochi	13.28	129.30
5	Thrissur	11.39	110.90
6	Guruvayoor	9.17	89.28

7	Palakkad	9.74	94.83
8	Kozhikode	11.66	113.53
9	Kannur	9.59	93.37
10	TOTAL	100.00	973.64

Decision Taken :

The committee took note of the fund distribution to each ULB and requested the ULBs to identify the priority projects for the allocated amount to be included in SAAP 2017-18.

Action by	Time Limit	Monitoring By
Submission by ULBs and Compilation by SMMU	7 th SHPSC	Mission Director, AMRUT

9. Other Items**Project Status**

The committee reviewed the status of the projects approved under SAAP 2015-16 and 2016-17. The committee took note that contracts have been awarded only for 18 projects out of 221 projects approved.

9.1 The Chairman directed, the KWA to expedite the DPR preparation of projects approved under SAAP 2015-16 and 2016-17. Sri T Raveendran, Technical Member, KWA agreed to submit the DPRs of 30 projects under water supply for AS by 15th February 2017 and the DPRs of 2 major projects by 15th March 2017.

9.2 For the projects under Storm water drainage, the committee directed the ULBs to initiate the DPR preparation and may take the external support as decided under point 5. The DPRs to be submitted before 15th February 2017.

9.3 For Projects under Urban Transport and parks, the committee directed the ULBs to initiate the DPR preparation and may take the external support as decided under point 5. The DPRs to be submitted within 45 days.

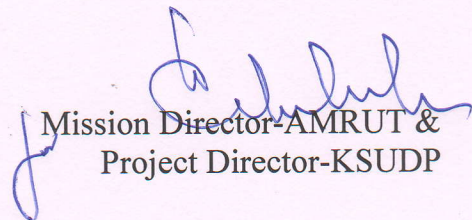
9.4 The Deputy Mayor, Kannur has shared his concern over the delay in appointing the hand holding agency to implement projects under AMRUT. Kannur being a newly constituted Municipal Corporation, the Chairman directed the SMMU to give special support to the Corporation of Kannur for expediting the implementation of projects.

The Committee decided to schedule next meeting of SLTC on 24th January 2017 at 10.30 pm.

The meeting concluded at 7.30 PM

Sd/-
**Principal Secretary (LSGD) &
Chairman , SLTC-AMRUT**

Forwarded by order


Mission Director-AMRUT &
Project Director-KSUDP

Minutes of the 7th State Level High Powered Steering Committee (SHPSC) of Atal Mission for Rejuvenation and Urban Transformation (AMRUT) held on 21st December 2016 at 4.00 PM in the Committee Room of the Chief Secretary, Government of Kerala.

Members Present:

1. Dr K M Abraham IAS, Additional Chief Secretary, Finance
2. Smt Tinku Biswal IAS, Secretary, Water Resources
3. Shri. P S Mohammed Sagir IAS, Mission Director, AMRUT & Project Director, KSUDP
4. Smt A Shainamol IAS, MD, Kerala Water Authority
5. Dr. K Vasuki IAS, Executive Director, Suchitwa Mission
6. Shri. P R Sajikumar, Chief Engineer, Local Self Government Department.
7. Shri. Shaji Joseph, Chief Town Planner (Planning)
8. Shri. T K Ajithakumari, Additional Secretary, Planning & EA Department
9. Shri. Binu Francis, Director, Urban Housing Mission, Kudumbashree

The meeting of the 7th State Level High Powered Steering Committee (SHPSC) of AMRUT chaired by Sri. S.M. Vijayanand IAS, Chief Secretary, Government of Kerala, commenced at 4.00 PM. The Mission Director of AMRUT presented the Agenda and after detailed deliberations following decisions were made

Agenda No 1.

Approval of minutes of the 6th meeting of SHPSC.

The Committee approved the minutes of 6th meeting of SHPSC held on 26 August 2016.

Agenda Item No 2.

Action taken report on the decisions of the 6th meeting of SHPSC:

The Committee noted the Action Taken Report on the decisions of the 6th SHPSC.

Decision 6: *Tripartite agreement to be signed among the Secretary -Mission City, MD - KWA and Mission Director-AMRUT.*

KWA informed that the draft agreement has been forwarded to the legal cell of KWA (JnNURM) for comments. The Chairman directed KWA finalise the draft and submit to his office by 31st Dec 2016 for approval before operationalising.

Action by	Time Limit	Monitoring By
MD, KWA	31 st December 2016	Mission Director, AMRUT

Agenda Item No 3.

Strategies to support mission cities for smooth implementation of projects.

The Mission Director, AMRUT informed the Committee that the project progress of AMRUT is only 1.27% and hence the strategy to support mission cities has to be finalised on an urgent basis. The Mission Director informed that these options were discussed in detail in the 4th SLTC held on 14 Dec 2016 & are being put up for SHPSC's consideration.

Referring to the letter from the Principal Secretary, LSGD (No. DC2/387/2016/LSGD dated 21.11.2016) and the alternate options set forth by SLTC without the PDMC, the committee made the following observations;

It was decided to un-bundle the functions of the Project Development and Management Consultants into three major tasks;

- A. PROJECT DEVELOPMENT
- B. QUALITY ASSURANCE
- C. PROJECT MONITORING

A. PROJECT DEVELOPMENT STRATEGIES

i. Water Supply Sector

KWA shall develop and implement all the projects for the AMRUT ULBs.

ii. Sewerage/ Septage Sector

Chairman reiterated that the projects envisaged in this sector, shall be decentralised Sewerage & Septage Management. The same shall be implemented in EPC mode.

iii. Urban Transport/Parks

To seek the support of Kochi Metro Rail Ltd (KMRL) Mission for being the handholding agency for development and implementation of the projects under Non-Motorised Transport (NMT) and Open spaces/ parks. The KMRL could support the ULBs in the designing the project at cost. The Chairman directed the Mission Director, AMRUT to formally enquire with KMRL their willingness to associate with mission cities for DPR preparation.

Action by	Time Limit	Monitoring By
SMMU	31 st December 2016	Mission Director, AMRUT

iv. Storm Water Drainage

The Committee decided that the ULBs should use the DPRs/ Drainage Master Plans where ever available, which may have be prepared from previous projects for the ULBs (under KSUDP/JnNURM). The Chairman reiterated that, as decided in the earlier SHPSC, the projects under SWD shall be in such a way, where there is complete drainage of any specific area. The Chairman also added that Piece- meal drainage projects will not be sanctioned under AMRUT.

Chairman enquired with the Secretary, Water Resources Dept, the possibility of utilising the services of Water Resource Department in developing DPRs for the AMRUT cities, where ever necessary. Secretary, Water Resources Dept, informed that such an arrangement could be made. The committee decided to take up this issue when such a need arises.

B. TECHNICAL CHECKS FOR QUALITY

For the inspection of technical quality of projects, it is decided to empanel the reputed engineering colleges, Institution of Engineers, Kerala etc. The preference to be given to the Government and aided Engineering Colleges in the ULB area.

A Terms of Reference (ToR) shall be drafted defining the monitoring parameters, their scope of work, aspects, periodicity, stages of monitoring & their reporting requirements. The ToR shall include their certifying requirements on quality, timeliness of works done and achievement of promised deliverables/ outcomes of the projects. The cost for engaging the Quality Control Experts shall be met from the A&OE of AMRUT.

Action by	Time Limit	Monitoring By
SMMU	10 th January 2017	Mission Director, AMRUT

D. PROJECT MONITORING

The Committee directed the LSG Department to consider on the possibility of hiring a Govt. accredited Project Management Consultant (PMC) for monitoring the projects, which will include periodic monitoring, bill verification/vetting. It was informed by Additional Chief Secretary, Finance that such Project Management Consultants are being currently engaged for various such projects for the Govt. The LSG department could analyse the requirements and engage these accredited agencies at the prevailing rates.

Agenda No. 4.

Administrative sanction of DPRs

The Committee accorded Administrative Sanction for the 19 projects (Project List Annexed) and directed the Technical Committee to review the DPRs for Technical Sanction. KWA was directed to upload the project details in its public domain. The committee insisted that, KWA should ensure GIS mapping for their Projects under AMRUT showing their details and progress online.

The 4 sewerage projects in Trivandrum to be implemented by the Sewerage division of KWA, as the project was by the KWA in the first phase of AMRUT and the KWA is already involved with the project.

Agenda No. 5

Constitution of technical expert committee for issuing technical sanction

The Committee granted permission in principle & directed the Principal Secretary, LSGD to decide the members who could be included in the Technical Expert Committee. In order to avoid delays in according TS & other activities requiring consent of the Technical Expert Committee, LSGD will set a time frame for completing different duties of the TS Committee. The Committee also directed that this committee should sanction the verified bills submitted by the PMC.

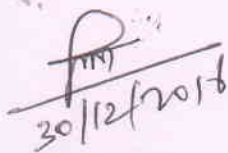
Action by	Time Limit	Monitoring By
Mission Director, AMRUT	24 th January 2017 (SLTC)	Principle Secretary, LSGD

Agenda No. 6

Change of project in Kannur

The Committee approved the revised project proposal of utilizing the amount in Water Supply Sector.

The Meeting concluded at 5.00 PM


30/12/2016


Chairman -SHPSC &
Chief Secretary 31.12.16

ANNEXURE**ULB WISE LIST OF PROJECTS**

SNo	ULB	Sector & Name of Project	Cost (Rs Cr)
WATER SUPPLY			
1	Alappuzha	Augmentation & Modernization of Water Supply Distribution System in Alappuzha Municipality(Phase 1)	33.90
2	Kochi	Replacement of existing 525mm distribution cum pumping main with 600mm rider pumping main from Karuvelpady to Koovappadam in Kochi Corporation	3.65
3		Construction of 15L capacity GL tank at Karuvelpady in Kochi Corporation	3.20
4	Thrissur	Strengthening the existing distribution system to Thrissur corporation area – Replacement of very old 80/100/125/300 AC & 700mm premo pipes with 110/140PVC and 200/300/350mm D1 pipes at various places in Thrissur Corporation.	14.40
5		Renovation of existing damaged pump house in Thrissur Corporation	0.55
6		Rehabilitation of Thrissur Corporation water scheme to Koorkenchery zone –Supply and Laying for separate Branched gravity main of 400mm D1K9 and replacement of 700mm premo with 700mm D1K9 pipe and supply erection and commissioning of 65HP centrifugal motor pump set for replacing of existing old pumpsets-2 nos at Koorkenchery sump allied works	3.41
7		Completion of ongoing Schemes –UWSS To Ollur&Edakkunni Census Town Villages in Thrissur Corporation –Construction of 20LL.Capacity OHSR at Ollur& Supplying, Laying Distribution lines and construction of retaining wall at WTP, Arattupuzha.	11.40
8	Palakkad	Providing New D1pipe line of 600mm dia Clear water pumping main puthur to Moothanthara OHSR (part-1) in Palakkad Municipality	5.44
9		Providing New D1pipe line of 600mm dia Clear water pumping main Mattumantha to kalmandapam OHSR (part-2) in Palakkad Municipality	4.56

10	Kozhikode	Rehabilitation of old Valves interconnection with existing lines and providing water meters in Kozhikode Corporation	17.87
11	Kannur	Laying Gravity Main From JICA project at Mangattuparamba to pallikkunnu OHSR for pallikkunnu and villages in Kannur Taluk of Kannur Corporation	23.50
12		Construction of 24 LL capacity OHSR at Pallikkunnu for Pallikkunnu and Puzhathi villages at in Kannur Corporation	4.05
13	Thiruvanantha puram	Improvements of Water Supply Scheme- Construction of 75MLD Water Treatment plant at Aruvikkara	70.00
#	Sub Total		195.93 Cr
B	SEWERAGE/SEPTAGE		
1	Thiruvanantha puram	Decentralized 5mld Sewerage plant (STP) at medical college, including water recycling plant & reuse.	19.16
2		Supplying and Laying 600mm dia D1 Pumping main from Pump at Edathra to STP at Muttathara in Thiruvananthapuram Corporation	17.29
3		Construction of Sewerage pump house at Edathra in Thiruvananthapuram Corporation	5.87
4		Laying 700mm dia RCC NP3 Sewer Trunk Main 11 from Murinjapalam –Kannammoola	1.33
#	Sub Total		43.65
C	GREEN SPACE & PARKS		
1	Thrissur	Rejuvenation of Nehru Park in Thrissur Corporation	0.91
2	Kozhikode	Renovation of Mananchira Park in Kozhikkode Corporation	0.85
	Sub Total		1.76
#	TOTAL		241.34Cr

Preparation of Comprehensive Mobility Plan for Medium sized cities in Kerala

Preparation of Comprehensive Mobility Plan for medium sized cities in Kerala

1. Need for a CMP

Comprehensive Mobility Plan (CMP) is a technical document containing short, medium and long term schemes and action programs for the mobility of people and goods with emphasis on mass transport system in an urban area. This is a prerequisite for availing financial grant for major schemes from Ministry of Urban Development, Government of India.

Recent Urban Development and Economic Growth have together brought about an increase in road traffic in many cities/ towns in India. This boom has been experienced in Kerala State as well even if the State has a road density of 390 km per 100 sq km which is higher than the national average of 131 km per 100 sq km according to the Economic Review 2013. Most of the urban areas often experience congested roads and traffic snarls. The public transport facilities in these areas also leave much to be desired for. This has led to the notion of providing new and improved technologies for urban transport to encourage citizens to shift from personal motorized vehicles to public transport.

In spite of prolonged efforts from the different state agencies and departments, the traffic conditions do not seem to abate. The following may be attributed as the root cause for the same:

- Development plans are not prepared on a long term basis
- Proposals for specific projects are not integrated with other land use/ urban transport facilities
- The master plans prepared usually focus on vehicle movement rather than movement of people and goods.

2. Focus of CMP

The focus of the Comprehensive Mobility Plan (CMP) would be to develop a comprehensive plan for sustainable urban transport in urban areas over a period of 20 years or more. For attaining this target, it is important to set the objectives as following:

- understand the present day travel characteristics and forecast them for the horizon year(s);
- develop a transportation vision and goal for desirable urban development of the city;
- identify specific land use and transport strategies and measures to be implemented for a span of 20 years or more;
- Prepare an implementation program of proposed strategies and measures along with their cost estimates.

In order to achieve the target, i.e. to meet the mobility needs of the city, several projects for implementation would be identified for the city on an immediate, short term, medium and long term basis. The Immediate Traffic Improvement measures could be

implemented within a period of six months while short term, medium term and long term measures could be implemented within five years, 5-10 years and beyond 10 years, respectively.

The measures undertaken would cover, but not be confined to, the following fields –

- Urban Public Transportation,
- Intermediate Public Transport facilities,
- Non-Motorized Transport like walk, cycling etc,
- Motorized Transport,
- New infrastructure facilities,
- Intersections,
- Parking Facilities,
- Goods Movement,
- Integration of various modes of transportation,
- Terminal facilities,
- Multimodal Transport Options,
- Road Safety,
- Transport Demand Management Measures.

3. Scope of CMP

The Scope of Work for preparation of the Comprehensive Mobility Plan for an urban area is given below:

- Define objectives of the Mobility Plan and demarcate the planning area and planning period (horizon year) of the Mobility Plan.
- Establish the Demand-Supply gap in transportation needs and infrastructure over the planning period.
- Assessment of existing problems and issues related to mobility of people and goods within the study area.
- Define Mobility Vision and Goals for the study area and identify strategies and Action Plan for achieving the Vision.
- Identify and prioritize projects and policy measures that the city authorities would need to implement as part of the Mobility Plan.
- Preparation of a Mobility Plan Implementation Program after consultation with the stakeholders.

4. Approach and Methodology

The Approach and Methodology for the preparation of Comprehensive Mobility Plan is given below:

(a) Define objectives of the Mobility Plan and delineate the Planning Area and Horizon of the Mobility Plan.

Task 1: Delineation of the Planning area and the Planning horizon

- Delineation of planning boundary for Mobility Plan based on existing Planning and Municipal area boundary and discussions with relevant agencies.
- Defining Immediate, short, medium and long term planning horizons.

Task 2: Define Objectives of the Mobility Plan

(b) Define objectives of preparation of the Mobility Plan. These objectives would aim at addressing following aspects:

- To develop a long-term strategy for the desirable city mobility pattern that recognizes all modes of transport and avoids a piecemeal, reactive approach to arising problems.
- To improve and promote public transport, NMVs and facilities for pedestrians as important transportation modes.
- To promote integrated land use and transport planning.
- To develop an urban transport strategy that is in line with the current National Urban Transport Policy (NUTP).
- To ensure that the most appropriate, sustainable, and cost-effective investments are made in the transport sector.

(c) Demand-Supply gap analysis of transportation needs and related infrastructure over the planning horizon.

Task 3: Collection of Secondary Information and Primary Data

- UMTC shall compile and update available relevant information from various past studies carried out in the Study Area. UMTC shall identify the data gaps and additional data requirements.
- Data on existing land use and land use plans would be collected and presented, through a detailed review of existing development plans, including the Master Plan and/or the City Development Plan (CDP). In particular, new development areas that will affect transport demand in the planning area should be inventoried and summarized.
- The secondary data required for the development of study will be collected from various sources, primarily from the Government/planning organizations of the study area.
- The Secondary data collected would be used in studying the past and existing growth pattern, land use plan of the city and its suburbs. The data would also be used in projecting future growth patterns, land use patterns and possible growth directions.
- In case, there are data gaps or the survey data is more than 2 years old, fresh primary surveys shall be carried out by UMTC, if considered necessary with the consult of the client,. The Primary data would help in analysis of travel and traffic characteristics of the city along with travel pattern of the city population.

Task 4: Travel Demand Modeling

The purpose of travel demand modeling is to project future travel demand in order to estimate the likely consequences of several alternatives. The travel demand forecasts will be carried out for different horizon years. The traffic forecast will be for different modes,

in different alternate scenarios and for different time slabs. Transportation demand will be estimated for both passengers as well as goods traffic.

Task 5: Infrastructure Demand-Supply Gap Analysis

Based on the information/data collected and existing and projected travel demand, requirements of transport related infrastructure needs would be estimated. On the basis of road and transport infrastructure inventory available through secondary data and primary surveys, a gap analysis of the infrastructure requirements over the horizon year would be estimated.

(d) Assessment of existing problems and issues for mobility of people and goods within the study area.

Task 6: Analysis of Existing Traffic/Transport Situation

Based on the information/data collected, an analysis of the transport and traffic situation would be carried out, identifying urban transport characteristics and issues for the city. The existing transport related problems and issues would be classified into following heads:

- Pedestrian and other Non-Motorized Transport
- Public Transportation
- Intermediate Public Transport
- Personal Motorized Transport
- Road Network
- Intersections (both at grade and grade separated)
- Parking Facilities
- Freight Movement
- Multi-modal transport options including Ropeway, Waterway etc
- Passenger and Freight Terminals, including Logistic Hubs
- Safety and Environmental Issues

(e) Develop Urban Mobility Plan

Task 7: Define Mobility Vision and Goals

Define a long term mobility vision for the city that would define the desired form of long-term urban transport system in the city.

Task 8: Identify Strategies and Action Plan for achieving the Mobility Vision

On the basis of the travel demand model, demand-supply gap analysis and assessment of the existing traffic and transport situation, strategies and Action Plan would be formulated for achieving the Mobility Vision and Goals set thereof.

Task 9: Identify projects and policy measures that the city authorities would need to implement as part of the Mobility Plan

A set of specific projects and policy measures would be identified that the city authorities would need to implement as part of the Mobility Plan. These projects and policy measures could be categorized as follows:

- Public Transport Improvement Plan
- Road Network Development Plan
- NMT Facilities
- Mobility Management Measures
- Regulatory and Institutional Measures
- Fiscal Measures

Task 10: Prioritize Projects

The proposed projects/measures would be evaluated and prioritized, based on the implementation time period and priority as per the National Urban Transport Policy. All the measures would be prioritized into immediate, short, medium and long-term along with justification and block cost estimates.

Task 11: Preparation of Immediate Traffic Improvement Measures

Prepare a plan for management of traffic in the study area, including all the traffic elements (traffic light-times, pedestrian facilities, parking facilities, road markings, traffic signage, footpaths, etc). This shall incorporate either establishing one proposed alternative and carrying out its respective design, or creating more than one scenario and identify the best alternative in order to alleviate all traffic problems in the study area, considering the following objectives:

- **Integration:** The decisions and recommendations resulting from the study should be within the context of the transportation policies of the city, and advantage for the users in general (like drivers, pedestrians, etc.) should be satisfied / fulfilled.
- **Safety / Security:** Upgrade the traffic safety level effectively and positively in the study area.
- **Improving Efficiency of Transportation System:** An important objective is an improvement in the ease of transportation, congestion and reduction in travel-time for the daily activities of all road users. This would help in an overall reduction of negative / adverse phenomena resulting from the traffic congestion and poor quality of transportation.
- **Economic Effectiveness:** Encouraged economic activities need to be established in proper places as a means for achieving financial return.
- **Environmental Objectives:** Reduction in negative environmental impacts due to transportation and traffic in the study area in order to accomplish protection of the environment and all its components needs to be emphasized.

These suggested measures would also include plans, engineering drawings and designs for each of the proposed interventions to ease implementation of the proposed measures. Detailed bill of quantities of the working drawings for improvements will be prepared for each of the proposed immediate traffic improvement projects. A summary sheet for summarizing the price for each measure will also be added.

(f) Implementation Program

Task 12: Stakeholder Consultations

To make the mobility plan a collaborative effort, detailed workshop meetings will be held to solicit the comments and concerns from the stakeholders and disseminate the findings

of the draft mobility plan. Input from the stakeholder workshops and meetings would provide input to the development of the mobility plan on various aspects and issues of the transportation system. Public involvement can also give guidance to the outcome of the mobility plan. Post workshop the input from the stakeholders would be compiled and all applicable comments and concerns would be addressed and included. The mobility plan would be updated accordingly.

Task 13: Implementation Plan

An implementation programme including practical procedures to implement the proposed measures, in terms of timeframe and, financing options would be prepared. Key agencies for implementing the proposed measures would be identified. The CMP would also identify a number of specific projects that need to be taken up for implementation. Many of these projects can be taken up on a PPP framework while some would not be amenable to such an approach and would need to be developed through funding from the Government. UMTC would clearly distinguish between the projects that can be taken up through either of the aforementioned approaches.

Broad break up of study cost		
Sl. No.	Item of expenditure	Amount Rs)
1	Part salary of permancent staff	3,75,000
2	Field survey and data collection	3,93,000
3	Honararium to consultants & experts	1,00,000
4	Data analysis and report preparation	1,50,000
5	Project staff salary	4,32,000
6	Miscellaneous and consumables	50,000
	Total	15,00,000

7. BUDGETARY REQUIREMENTS

The State Government decided to entrust the work of Preparation of GIS based Master Plan for AMRUT cities with the State Town & Country Planning Department. The Department is equipped with Planners who are experienced and experts in this subject.

It is proposed to set up separate cells in District Offices and Head Office to attend this Scheme exclusively. For this, in addition to our staff, it will be essential to engage a few Planners on contract basis. Also, daily wage surveyors/ Data entry operators will also be required for conducting survey works and data entry in addition to our staff for the timely completion of the works. Moreover, the hardware available at present in our offices is not sufficient for catering to the additional works involved in this scheme. Hence it is required to engage such Planners on contract basis, daily wage Surveyors and Data Entry Operators and for procuring essential hardware. At times, experts in special fields are also required for guiding in specific areas such as GIS, etc. It is after considering all these aspects, the cost of Preparation of each Master Plan is worked out.

The budgetary requirement of each city/ town is as follows:

ESTIMATED BUDGETARY REQUIREMENT FOR STATE ACTION PLAN

Table 3

State Name: KERALA

(Rs. in lakhs)

Sl. No.	City	A - Geo-database creation			B - Master Plan Formulation			C - Capacity Building			Total
		2016-17	2017-18	2018-19	2016-17	2017-18	2018-19	2016-17	2017-18	2018-19	
1	THIRUVANANTHAPURAM	20.00	-	-	50.00	25.00	-	2.00	-	-	97.00
2	KOLLAM	-	7.00	-	-	45.00	20.00	-	2.00	-	74.00
3	ALAPPUZHA	5.00	-	-	5.00	35.00	10.00	1.00	1.00	-	57.00
4	KOCHI	-	9.00	-	-	45.00	25.00	-	2.00	-	81.00
5	THRISSUR	-	10.00	-	-	45.00	25.00	-	2.00	-	82.00
6	GURUVAYOOR	3.00	-	-	5.00	40.00	5.00	1.00	1.00	-	55.00
7	PALAKKAD	-	3.00	-	-	35.00	10.00	-	2.00	-	50.00
8	KOZHIKKODE	-	8.00	-	-	45.00	25.00	-	2.00	-	80.00
9	KANNUR	7.00	-	-	5.00	50.00	10.00	1.00	1.00	-	74.00
	TOTAL	35.00	37.00	-	65.00	365.00	130.00	5.00	13.00	-	650.00