



सत्यमेव जयते  
Government of India



*Atal Mission for Rejuvenation  
and Urban Transformation*



**Training Programme (Capsule-2) on Project Implementation & Monitoring (Water Supply & Sewerage System) for the Engineers of ULbs /KUWS&DB/KUIDFC Under "AMRUT" Mission (MOUD)**

**Batch – 5**

Date: 14th to 16th December 2016

Venue: Nethravathi Hostel, SIUD, Mysuru

**Sri Ramesha H**

Course Director  
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**Sri Umesh B**

Course Assistant



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**Aim:**

1. To develop awareness about the Roles & Responsibilities of all stake holders on service delivery in ULBs, Project planning, implementation, Contract & construction management 74<sup>th</sup> CAA, 24x7 water supply, SLBM, DLMC, O & M of the Projects;
2. To familiar with the fundamental design considerations/concepts of components in water supply & UGD system.
3. To promote sustainability in planning, implementation, development & maintenance of water supply, sewerage system (Centralized & Decentralized systems), Recycling of waste water etc; in ULBs.
4. To equip participants with Skill and attitude towards application of advanced technologies/ smart solutions in water supply & sewerage system for efficient management.
5. To motivate the participants through sharing of knowledge, best practices/case study/field exposure in the field of water supply, Sewerage(UGD) system, Automation of system, SCADA etc; in ULBs.
6. Awareness about application of GIS/GPS/RS, Basic principles, Importance/Role, Functioning Stages in GIS/RS/GPS Process, Concept of layers in GIS, Importance of data base etc; in successful monitoring & management of projects.

**Objectives:**

After the completion of the 3 days training programme, the participants will be able to

- a) Describe 74<sup>th</sup>CAA, Discretionary functions, Roles & Responsibilities of all stake holders in implementation of projects, Roles & Responsibilities of Boards, ULBs in O & M of projects.
- b) Describe Basic considerations in design of water supply & sewerage systems, Technical aspects, Sustainable solutions for water, waste water treatment & reuses etc; with respect to AMRUT Mission plans in ULBs.
- c) Explain steps involved in Project planning, implementation & Development, Contract management and Construction management, PPP etc;
- d) Explain applications of smart solutions for water metering & Billing, Water quality monitoring, SCADA etc; with innovative & latest technologies.
- e) List the uses & applications of Remote sensing(RS)/Global positioning system(GPS)/Geographic information system (GIS) in ULB services etc;

**Course Content:**

The course covers the following themes;

- a. Roles & Responsibilities of ULBs and all stake holders
- b. Project planning & implementation, Monitoring
- c. Key components of water supply & Sewerage systems with design concepts
- d. Contract management & Construction management
- e. Adoption of innovative technologies, Automations, Best practices of case studies
- f. Application of RS/GPS/GIS in ULBs

**Course Methodology:**

1. Lecture/Presentation through PPTs
2. Interactions on Issues & challenges in project implementation, O & M etc;
3. Soft copy CPHEEO Manual on Water supply & Sewerage system, design software
4. Group Discussions.

**Target Group:**

**Engineers** from ULBs/KUWS&DB/KUIDFC will be the participants for the training.

**Duration:** The course is scheduled for 3 days



**Schedule of training Programme (Capsule-2) on Project (Water supply & sewerage system) implementation & monitoring for the Engineers of ULBs/KUWS&DB & KUIDFC under "AMRUT" Mission of MoUD (Batch-5)**

<b>Time</b>	<b>Topics / Sessions</b>	<b>Resource Persons</b>
<b>Day 1 - 14.12.2016</b>		
9.30 to 10.00	Registration	<b>Sri. Umesh B</b> , Course Assistant
10.00 to 10.15	Welcome Key Note Address and Objectives	<b>Sri Venkatesh Kadagadkai G</b> Director, SIUD, Mysore  <b>Sri Ramesha H</b> Faculty, SIUD, Mysore
10.15 to 11.45	<b>Institutional frame work ;</b> Roles & Responsibility of Stake holders, 74 <sup>th</sup> CAA, Funds & Community participation with provision of public services in ULBs, DLMC, SLBM etc;	<b>Dr. P.M. Kulkarni</b> , President , Bhageerath, Mysore Ph. 94806 92432 Email : pmk1963mys@gmail.com
<b>11.45 to 12.00 Tea Break</b>		
12.00 to 1.30	<b>Stages in Project preparation/ Project Development :</b> Project planning, appraisal, Assessment of existing sources & infra structure, Recognisance survey, Feasibility report, detailed Surveying & mapping, Drawings, Estimates, DPR preparation, Sanction/Approval process, etc;	<b>Dr. P.M. Kulkarni</b> , President , Bhageerath, Mysore Ph. 94806 92432 Email : pmk1963mys@gmail.com
<b>01.30 to 02.15 pm Lunch Break</b>		
2.15 to 5.30 (4 to 4.15 Tea break)	<b>Design considerations for Key components of Water supply &amp; Sewerage systems :</b> Basic design considerations for various components of Water supply & Sewerage systems, concept of 24x7 water supply, Use of tools, Norms for water supply delivery and discharge standards for treated waste water (ISO & KSPCB standards), reuse options etc;	<b>Sri Shivaraju G M</b> , Rtd. ACE, BWSDB, Bangalore Ph.98454 44135, 99455 40055 Email: <a href="mailto:shivaraju_gm@yahoo.com">shivaraju_gm@yahoo.com</a>
<b>Day 2 - 15.12.2016</b>		
9.30 to 11.30	<b>Application of GIS &amp; ICT :</b> Application of Remote sensing, Global positioning system & Geographic information system in ULBs for effective Monitoring & Management using GIS and soft- ware application for all engineering /administrative solutions	<b>Sri Ramesha H</b> Faculty/AEE, SIUD, Mysore Ph.9481169733 Email : hebbale@gmail.com
<b>11.30 to 11.45 Tea Break</b>		

