

Government of Karnataka



Directorate of Municipal Administration, Bangalore.

**Design & safety concepts of civil structures
with respect to Operation & Maintenance in ULBs**



Implemented Schedule

Date: 2nd to 4th August 2018

Venue: Hall No.1, Nethravathi Hostel, SIUD, Mysuru

Sri H Ramesha

Course Director

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Course Assistant



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Aim:

1. To build Technical ability in design & safety concepts of civil structures in ULBs.
2. To promote sustainability in planning, implementation, development & maintenance of civil structures & utilities in ULBs.
3. To equip participants with Skill and attitude towards efficient operation and maintenance of civil structures with sustainability.
4. To motivate the participants through sharing of knowledge, Innovations & advancements in civil structure building practices, best practices/case studies/field exposure & to sensitize the participants in the field of design & safety concepts of civil structures in Water supply, Sewerage (UGD)system, Buildings, Roads, Storm drains etc; in ULBs.
5. To build quality consciousness/awareness in civil construction materials prior to construction, considerations & precautions to be taken, field/site tests etc;

Objectives:

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

- a) Explain the design & safety concepts of civil structures in ULBs.
- b) Describe Innovations & advancements in civil structure building practices, best practices/case studies/field exposure.
- c) Narrate about sustainability in planning, implementation, development & maintenance of civil structures.
- d) List out the issues & challenges in efficient O & M of civil structures.
- e) Describe about quality aspects involved in civil construction materials prior to construction, considerations & precautions to be taken, field/site tests etc;

Course Methodology:

1. Lecture/Presentation through PPTs
2. Videos
3. Case Studies.
4. Field/Exposure Visits
5. Group Discussions.

Target Group:

Engineers from Urban Local Bodies will be the participants of the training.

Duration:

The course is scheduled for **3 days** (2.5 days of class room and ½ a day field visit).

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Time	Topics / Sessions	Resource Persons
Day – 1 - 2.8.2018 (Thursday)		
9.30 to 10.00 am	Registration	Sri Vijesh K, Course Assistant
10.00 to 10.15 am	Welcome Key Note Address and Objectives	Sri Venkatesh Kadagadkai G, Director, SIUD, Mysuru
10.15 to 1.30 pm	<p>Execution of civil works and Stages in Project preparation :</p> <ul style="list-style-type: none"> • Preparation of the priorities of civil work • Preparation of annual budget and action plans • Action plan of civil works • Spill over and fresh works • Project Planning • Assessment of existing sources • Infrastructure availability • Recognizance survey • Feasibility report • Detailed surveying • Preparation of DPR • Approval process • Administrative/ Technical sanction – Delegation of powers • Practical aspects before/ during/ after execution of civil works in ULBs 	<p>Sri Mahesh K, Executive Engineer, KC Div, CNNL, T.Narasipura Ph: 9483082508 Email: maheshak83@yahoo.in eekcdtnp@yahoo.com</p>
1.30 to 2.15 pm Launch Break		
2.15 to 5.30 pm	<p>Water supply & Sewerage system:</p> <ul style="list-style-type: none"> • Water supply components • Basic design & safety considerations • Construction of water supply schemes • O & M of water supply schemes • Augmentation/Rehabilitation/Improvement of water supply schemes • Components of Sewerage (UGD) system • Basic design & safety considerations • Construction of Sewerage systems • O & M of sewerage systems • Augmentation/Rehabilitation/Improvement of sewerage systems • Smart solutions , Innovations SCADA etc; • Planning for O & M with check list 	<p>Sri K P Jayaramu, Chief Engineer, KUWS & DB, Mysuru. Ph: 9480813129 Email: jayaram.savewater@gmail.com</p>

	<ul style="list-style-type: none"> • Procedure for handing over of completed schemes of water supply, sewerage projects etc; to ULBs • Training of operators of ULB staff • Tariff setting, billing and collection • Examples with case studies 	
Day - 2 - 3.8.2018 (Friday)		
9.30 to 11.30 am	<p>Quality assurance :</p> <ul style="list-style-type: none"> • Quality aspects in civil construction materials prior to construction, • Considerations & precautions to be taken with field/site tests etc; • Quality checks (Thumb rules) in different stages of construction and materials as an executing authority • Awareness about codes of buildings (NBC), Roads & Bridges • Advances in cement and allied materials for making good quality concrete • Quality of course & fine aggregate for making standard concretes • Alternatives to natural sand -(M -sand)- Properties, concrete mix design, specifications etc; • Quality safety guide lines with case studies like; NDT, SPT etc; 	<p>Sri K R Sathyanarayana, AEE, KERS, KRS. Ph: 9448390746 Email: Kr.satyanarayan@gmail.com</p>
11.30 to 11.45 am Tea Break		
11.45 to 1.45 pm	<p>Monitoring of Civil works in ULBs :</p> <ul style="list-style-type: none"> • General Precautions before, after & during constructions activities • Good practices of constructions • Reinforcement detailing • Mistakes in constructions • Retrofitting of civil works • Do 's & Don'ts during execution • Case studies 	<p>Sri Sudarshan S Iyengar, Senior Director, STEDRANT TECHNOCLINIC Pvt. Ltd. Bangalore Ph: 9880926063 Email: s.sudarshan@stedrant.com</p>
1.45 to 2.30 pm Lunch Break		
2.30 to 6.00 pm	<p>Field Visits :</p> <ul style="list-style-type: none"> • Visiting the construction site of Fly over, Retaining walls, precast girders, detailing of cast in situ main span girder at Ring road-Hunsur road junction etc; • Monitoring of construction stages of civil works of retrofitting works of ground level reservoir (GSLR) of water supply project. 	<p>Shri B K Ashwatha, Retd. EE, PWD, Mysuru. Ph: 9448293803 E-mail: bkashwatha@yahoo.in & Resource person from VVWW, MCC, Mysuru</p>

Day - 3 - 4.8.2018 (Saturday)		
9.30 to 1.45 pm	Roads: <ul style="list-style-type: none"> • Introduction • Design & safety concepts in various types of Roads • IRC standards & guide lines • Various types of Roads in ULBs ie; Tendersure roads, white topping, smart roads etc; • Construction stages of various types of roads 	Dr. Anjaneyappa, Department of Civil Engineering, RV College of Engineering, Mysuru road, Bangalore. Email: anjaneyappa@rvce.edu.in Ph: 9980847938
01.45 to 02.30 pm Lunch Break		
2.30 to 3.30 pm	O & M of roads: <ul style="list-style-type: none"> • O&M of roads, Pot holes repairs, Shoulder drains etc; • Road safety measures & Sign boards • Hump standards • Standard roads with case studies 	Dr. Anjaneyappa, Department of Civil Engineering, RV College of Engineering, Bangalore. Email: anjaneyappa@rvce.edu.in Ph: 9980847938
3.30 to 3.45 pm Tea Break		
3.45 to 5.00 pm	Storm drains Culverts & Bridges : <ul style="list-style-type: none"> • Storm drains - Present Scenario • Design & safety concepts of storm water drains • Construction practices of storm water drains • Design of urban storm drains as per IRC stds. • O & M in storm water drains • Design & safety concepts of culverts • deck slabs culverts • Transition retaining walls etc; with case studies. 	Sri Ramesha H, Faculty/AEE, SIUD, Mysore. Email: hebbale@gmail.com
5.00 to 5.30 pm	<ul style="list-style-type: none"> • Evaluation • Feedback • Valedictory 	Sri Venkatesh Kadagadkai G, Director, SIUD, Mysuru. Sri H. Ramesha, Faculty/AEE, SIUD, Mysuru.

Course Director

