



IWWA, HQ UTILITY DIRECTORATE & IWWA PUNE CENTER

Announces

TWO DAYS TRAINING PROGRAM on

Comprehensive Training on 24x7 Water Supply: CPHEEO Manual, GIS, and Hydraulic Modelling Technique

Training Headed by

Dr. Sanjay Dahasahasra

Former President, IWWA, and Former Member Secretary, MJP

Date - 27th & 28th September, 2024 | Venue - MEETRA, MJP office, Nashik

WHY should you attend?

- Provide participants with comprehensive knowledge of the new CPHEEO Manual (2024) and its guidelines.
- Enhance understanding of the Jal Jeevan Mission (JJM) and its application in water supply schemes.
- Train attendees on the effective use of GIS for planning and managing 24x7 water supply systems.
- Develop skills in hydraulic modeling using advanced tools like WaterGEMS.
- Equip participants with techniques to address challenges in urban, peri-urban, and enroute village water supply.
- Offer practical insights through case studies and hands-on sessions to improve water supply reliability and efficiency.

WHO should attend?

- Urban local body engineers are responsible for water supply & infrastructure management.
- Officials from water supply departments oversee project implementation and operations.
- Young engineers are eager to build expertise in water supply systems, GIS, and hydraulic modelling.
- Professionals involved in the planning, design, and optimization of water supply schemes.
- Stakeholders interested in the latest guidelines of the CPHEEO Manual (2024) and the JJM

Cost of Training

5000/- + Taxes

(includes accommodation, food, training resource material and Certificate)

***Registration is required as per the attached form**

***Accommodation on a twin-sharing basis for 3 nights is included in the cost of training.**





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WHERE to Pay

Name of Account Holder : **INDIAN WATER WORKS ASSOCIATION**

Name of Bank : Central Bank of India

Address: Vakrola, Santacruz (E), Mumbai - 400055

Saving A/c No. 1015578625

IFSC : CBIN0282521

Branch Code : 282521

GST No. 27AAAAI0061J3ZW

MICR No. 400016068

Note : Please give UTR No. for NEFT/RTGS Payment

WHOM to contact

IWWA Utility Directorate

Email - dbpanse@gmail.com, iwwahq@gmail.com

Contact Details - Er. D. B. Panse - 9823011106

Website - [IWWA, HQ](http://IWWA.HQ)

IWWA Pune Center

Contact Details - Er K N Pate, 8208643998

IWWA HQ Committee

Er. M. Mathiyalagan, President
Dr. M. L. Agarwal, Vice President
Er. B K Parida, Gen Secretary
Dr. D B Panse, Director Utility
Er. C K Tyagi
Dr. Pawan Labhsetwar
Er. K T Perumal
Er. Umesh Mehta

IWWA Pune Center

Er. S B Bhujbal, Chairman
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Er. Rajendra Mahulkar, Vice Chairman
Er. K N Pate, Hon. Secretary
Er. Milind Chaware, Joint Secretary
Er. Rajesh Kulkarni, Hon. Treasurer
Er. Arjun Nadgouda, Member



Training Registration Form

Two Days Training Program

on

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Participants Registration

Full Name	
Address	
Contact Number	
Date of Birth	
Email Id	
Nationality	
Educational Qualification	
Designation	
Institution / Organization	
Registration as	<input type="checkbox"/> IWWA Member
	<input type="checkbox"/> IWWA Non-Member
	<input type="checkbox"/> Urban Local Body
	<input type="checkbox"/> Water Professional
Payment Information (UTR / Transaction Id with Bank Details)	
Payment Details	NEFT / RTGS Name of Account Holder: INDIAN WATER WORKS ASSOCIATION Name of Bank: Central Bank of India Address: Vakrola, Santacruz (E), Mumbai - 400055 Saving A/c No. 1015578625 IFSC: CBIN0282521 Branch Code: 282521 GST No. 27AAAAI0061J3ZW MICR No. 400016068 Note: Please give UTR No. for NEFT/RTGS Payment

Training Agenda

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Comprehensive Training on 24x7 Water Supply: CPHEEO Manual, GIS, and Hydraulic Modelling Technique

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Day	Timing	Session	Resource Person
Day 1 – 27/09/2024 Jal Jeevan Mission + CPHEEO New Manual (2024)			
Inauguration	9.30 AM - 10.00 AM	Inauguration	IWWA
Session 1	10.00 AM - 10.30 AM	<ul style="list-style-type: none">What is new in CPHEEO Manual (2024)Overview of JJM water supply schemes in IndiaPlanning and design of Peri urban and enroute villages in JJMDifficulties and challenges of JJM schemes in Urban- Rural Water SectorContinuous Water Supply (24/7) in JJM in India - Need and UrgencyDiscrepancies of Current Water Supply in Urban-Rural sector: reasons for not achieving 24x7 water supply	IWWA/SVD
Session 2	10.30 AM - 11.00 AM	GEOGRAPHICAL INFORMATION SYSTEM <ul style="list-style-type: none">Introduction to Geographical Information SystemGIS- An essential tool of 24x7 water supply for Urban and multi village WS schemesGIS coordinate systemExploring GIS software (ArcGIS Pro)DigitizationCreation of Shape filesGeoreferencing of ImageGeoreferencing of AutoCAD mapExploring Google Earth (RD)	SVD/RD
	11.00 AM - 11.15 AM	Tea Break	
Session 3	11.15 AM - 13.00 PM	Hydraulic Model using WaterGEMS <ul style="list-style-type: none">Modelling FundamentalsExploring softwareImparting attributes to the pipes, nodes and tanks (KSB)Creation of small hydraulic model (KSB)Creation of basic hydraulic model using Model BuilderMaking GIS map of existing pipelines and creation of its shape filesMarking of new pipelines in the city for making 100% coverageAmalgamation of existing and new pipelines for 24x7 water supplyGiving levels to the nodes using GIS based contours and TREXDemand Allocation to the Nodes	SVD/ KSB
	13.00 PM - 14.00 PM	Lunch	
Session 4	14.00 PM - 15.00 PM	<ul style="list-style-type: none">Creation of GIS layer of ward boundary: Used for giving demand to nodesAllocation of population to the wards of the city for next 15 years and 30 years using “Equivalent Area” methodComputation of population density based on land use patternJoining population density data from EXCEL to GISThiessen polygonsDemand giving to the nodes using Load Builder	SVD
	15.00 PM - 15.15 PM	Tea Break	

Session 5	15.15 PM - 16.15 PM	<ul style="list-style-type: none"> • Scenario Management: Base and child scenario • Creation of operational zones • Optimum boundary of operational zone and DMAs • Creation of DMAs • Automatic creation of DMAs using Water GEMS • Designing pipelines of both sides of roads 	SVD
	16.15 PM - 17.00 PM	<ul style="list-style-type: none"> • Methods of Hydraulic Analysis <ul style="list-style-type: none"> – Steady State: required for design of pipes in distribution system – Extended Period Simulation: Required for assessing behaviour of the system in peak hours • Design of network in hilly areas 	
Day 2 – 28/09/2024			
Session 6	9.30 AM - 10.30 AM	Advance Methods <ul style="list-style-type: none"> • Criticality- Used to design optimum number of isolation valves for making Sub DMAs and water audit • Optimum sizing of the pipes • Flow Control Valves: Used to make equitable distribution of water and maintain level in tank • Pressure Reducing Valves: for managing equal pressures at all zones • Simulation of distribution network for finding solutions for field problems • Design of Transmission Mains using hydraulic model • Design of VFD Pumps using Hydraulic model 	SVD
	10.30 AM - 11.30 AM	PPP with financial model	
	11.30 AM- 11.45 AM	Tea Break	
Session 7	11.45 AM - 12.45 PM	Smart metering, Automatic Meter Infrastructure (AMI)	Ashok Natrajan
	12.45 PM - 13.15 PM	SCADA and IOT	
	13.15 PM - 14.15 PM	Lunch	
Session 8	14.15 PM - 15.00 PM	Case Study of 24x7 WS of Malkapur 24x7 water supply scheme	Manohar Shinde
	15.00 PM – 15.45 PM	Case Study of 24x7 WS of Nagpur water supply scheme	Veolia, Expert
		Case study of Puri Drink from tap project	Chinmaya Tripathy, CEO, Ecometrix Consultants
	15.45 PM - 16.15 PM	Digital Twin	SVD
16.15 PM - 16.30 PM	IWWA Expert		
	16.30 PM - 17.00 PM	Concluding	IWWA