भारत सरकार
Government of India
केन्द्रीय जल आयोग
CENTRAL WATER COMMISSION
प्रशिक्षण निदेशालय
Training Directorate

संख्या: 5/59/2019-प्रशिक्षण/ 5084-5184

दिनांक: 11 .07.2019

विषय: Three-days Training Course on MIKE FLOOD scheduled at DHI India, New Delhi during 7-9 August, 2019-reg.

कृपया उपरोक्त विषय से संबंधित पत्र / विवरणिका की प्रति संलग्न पायें । अनुरोध है कि यदि कोई नामांकन हो तो दिनांक 18/07/2019 तक निश्चित रूप से सदस्य / मुख्य अभियंता मा. स. प्र. (मा. सं. प्र. से सम्बंधित)/ मुख्य अभियंता रा. ज. अ. से सम्बंधित अनुमोदन के पश्चात् भेजने की कृपा करें। साथ में नामित अधिकारियों के जीवन वृत (uploaded and downloaded from CWC website) भी संलग्न करें, जिसमें उनके द्वारा अब तक के सेवा काल के दौरान भाग लिए गए विभिन्न कार्यक्रमों का ब्यौरा दर्शाया गया हो।

यह भी सूचित किया जाता है कि नामित अधिकारी के नामांकन पर दर्शायी गई तिथि के उपरान्त प्राप्त होने पर विचार नहीं किया जायेगा साथ ही अध्यक्ष की स्वीकृत होने के पश्चात् नाम वापस लेने की अनुमति नहीं दी जाएगी।

संलग्नक :- यथावत

(एस .के. सिन्हा)
निदेशक (प्रशिक्षण)

1. अध्यक्ष, केन्द्रीय जल आयोग के निजी सचिव, नई दिल्ली।

2. सदस्य, जल आयोजन एवं परियोजना / अभिकल्प एवं अनुसंधान / नदी प्रबंध के निजी सचिव, केन्द्रीय जल आयोग, नई दिल्ली।

3. सभी मुख्य अभियंता, केन्द्रीय जल आयोग।

4. निदेशक समन्वय, जल आयोजन एवं परियोजना / अभिकल्प एवं अनुसंधान / नदी प्रबंध, केन्द्रीय जल आयोग, नई दिल्ली।

5. सचिव/निदेशक (तकनीकी समन्वय) केन्द्रीय जल आयोग, नई दिल्ली।

6. सभी निदेशक/ अधीक्षण अभियंता, केन्द्रीय जल आयोग, नई दिल्ली।

7. कनिष्ठ अभियंता, प्रशिक्षण निदेशालय, कृप्या परिपत्र को केन्द्रीय जल आयोग की वेब साइट पर अपलोड करें।

MIKE FLOOD
Integrated 1D and 2D river flood modelling

This three-day, hands-on course aims to teach you river flood modelling by integrating the 1D river model (MIKE HYDRO River) and 2D overland flow model (MIKE 21). The emphasis is on establishing a 2D overland flow model followed by coupling the 1D and 2D model components to simulate the fully integrated flow dynamics between main rivers and surrounding flood plain areas.

River and coastal flooding often occurs as results of river overflow, high rainfall intensity in the catchment area, dam/dike breach, ocean storm surge or as a combination of these phenomena. The risks of flooding are amplified by the expected effects of climate change.

MIKE FLOOD is a comprehensive modelling package covering all the major aspects of flood modelling and a tool for understanding river and coastal flooding, analysing scenarios and testing mitigation measures. MIKE FLOOD integrates flood plains, streets, rivers, coastal areas and sewer/storm water systems into one package.

COURSE TOPICS

- Introduction to 2D overland flow modelling with MIKE 21
- Building bathymetries
- Preparing MIKE HYDRO River models for coupling with MIKE 21
- MIKE FLOOD graphical editor
- Coupling of 1D and 2D models
- 1D-2D linkage options
- Stability issues
- Tips and troubleshooting with model coupling
- Results viewing and presentation
- Hands-on exercises

TARGET GROUP AND PREREQUISITES

Professionals involved in flood management, flood risk assessment or other flood related studies. Participants must be acquainted with the basic functionalities of MIKE HYDRO River prior to the course either through experience or through participation in the MIKE HYDRO River course 'Introduction to river and channel modelling'.

DATE AND TIME
August 07 - August 09, 2019
Course starts at 09:30 and finishes at 17:30

LOCATION AND VENUE
DHI India, 206, Ground Floor, Okhla Industrial Estate, Phase-III
New Delhi - 110020

FEES AND DISCOUNTS
Standard price: INR 13500
Discounts:
- 10% for early bird registration before 26 July 2019
- 50% for students
- Multiple participants from an organisation are eligible for specific discounts
GST @ 18% extra

THIS IS INCLUDED
- Training material
- Lunch and refreshments
- Training Certificate

THIS IS NOT INCLUDED
- Participants are expected to bring their own laptops with required specifications
- Accommodation for participants

LANGUAGE
Lectures and training material are in English

REGISTRATION AND CONTACT
Deadline for registration is 02 August 2019. A minimum of trainees is required for the course to proceed. DHI reserves the right to reschedule the training course up to 1 week prior to the course date scheduled.

Ankita Biswas
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anbi@dhigroup.com

The expert in **WATER ENVIRONMENTS**

THE **ACADEMY** by DHI

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RELATED COURSES

- MIKE HYDRO River - Introduction to river and channel modelling
- MIKE FLOOD - Integrated pipes, channels and surface modelling
- FLOOD MODELLING WITH FLEXIBLE MESH (FM) - Take your flood modelling a step further
- MIKE 21 FLOW MODEL HD - 2D hydrodynamic modelling using 'classic' grid
- MIKE HYDRO River - Advanced hydrodynamic modelling
- FLOOD RISK MANAGEMENT - How to prepare for and manage floods
- WATER RESOURCES AND CLIMATE CHANGE - Impact and adaptation studies
- INTEGRATED WATER RESOURCES MANAGEMENT - An IWRM and climate change adaptation practitioners course
- FLOOD FORECASTING AND EARLY WARNING - Introduction to real-time forecasting systems using MIKE OPERATIONS

Visit our courses & events calendar for more courses:

www.theacademybydhi.com/courses-and-events-calendar

INSTRUCTOR

Ms. Prajnya Nayak

Experience in multiple facets of the subject including hydrological modelling, 1D and 2D hydrodynamic modelling and the subsequent setup, running, updating and maintenance of complete flood forecasting and inundation mapping systems.

Experience in numerous software tools such as MIKE 11, MIKE 21, MIKE 21 FM, MIKE Flood, DSS software, GIS & other essential pre and post processing tools.

Trainer for numerous trainings conducted on relevant subjects to officials and professionals at prestigious organisations such as NWA-Pune, NIH-Roorkee, ICIMOD-Nepal & Bhutan, BBMB-Chandigargh, WRD-Bihar & other states.

Master of Technology (M.Tech), Water Resource Management, Indian Institute of Technology IIT, Delhi

THE ACADEMY BY DHI

THE ACADEMY offers a palette of courses and capacity building packages designed to fit your needs and challenges. We offer standard and/or tailored training - face-2-face as well as online.

MIKE Powered by DHI courses focus on practical skills, hands-on exercises and teaching you how to get the most out of your software. These courses also enable you to understand the power of the MIKE tools for building decision support systems.

Thematic courses allow you to apply concepts, applications and decision support principles to the entire business process within current areas: aquaculture and agriculture, energy, climate change, flooding, coast and marine, surface and groundwater, urban water, industry, environment and ecosystems, product safety and environmental risk, etc.

Our trainers are experienced professionals, many of whom are recognised international experts in their fields. The use of highly skilled trainers guarantees the quality of THE ACADEMY courses.

Learn more about THE ACADEMY on www.theacademybydhi.com

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The expert in **WATER ENVIRONMENTS**

DHI

Dear sir,

Greetings from DHI India!

In reference to our discussion, please find below details of upcoming **3 days MIKE FLOOD training from 7-9 August 2019 at DHI India Delhi office.** Please participate or nominate at the earliest.
And find attached flyer for your kind perusal.

COURSE TOPICS

- Introduction to 2D overland flow modelling with MIKE 21
- Building bathymetries
- Preparing MIKE HYDRO River models for coupling with MIKE 21
- MIKE FLOOD graphical editor
- Coupling of 1D and 2D models
- 1D-2D linkage options
- Stability issues
- Tips and troubleshooting with model coupling
- Results viewing and presentation
- Hands-on exercises

Delegate Registration Charges:
Standard Fee: INR 13,500
   *18% GST applicable
We providing special discount to CWC INR 10,000 plus 18% GST per participants.

Note:
- **Its mandatory to Share GST Certificate before making payment**
- Participants are expected to bring their own laptops with required specifications

System requirements

The recommended minimum system requirements are:

Operating systems	Fully supported operating systems * Windows 7 Professional Service Pack 1 (64 bit), Windows 10 Pro (64 bit), Windows Server 2012 R2 Standard (64 bit) and Windows Server 2016 Standard (64 bit).
Processor	x86 or x64, 2.2 GHz (or higher)
Memory (RAM)	4 GB (or higher)
Hard disk	100 GB (or higher)
Monitor	SVGA, resolution 1024x768 in 16-bit color
Graphics adapter	64 MB RAM (256 MB RAM or higher recommended), 24-bit true color
File system	NTFS
Software requirements	Microsoft .NET Framework 4.5.1 or later

Venue Details :
DHI (India) Water & Environment Pvt Ltd
206, Ground Floor, Okhla Industrial Estate
Phase-III, New Delhi- 110020, India