

Training Program on Surge Analysis And Design of Surge Protection Systems 23rd to 25th June 2018

Venue: IIT Hyderabad, Kandi Campus, Sangareddy, Telangana 502285

Training program on surge analysis and design of surge protection systems is being organized for engineers involved in pipeline design and construction at IITH in collaboration with Dr. P Raghuvver Rao, IISc. Till date 15 such programs were organized at IISc Bangalore with about 400 participants from water boards, public health engineering, irrigation and rural water supply departments of states, consulting firms (Indian and Foreign), construction companies, pump and valve manufactures. Two exclusive programs were organized for public health department engineers of Rajasthan at Jaipur and Mizoram at Aizwal.

Lecture sessions will cover Estimation of friction losses; computation of pump head; system curve analysis; basic concepts of surge; effect of column separation; parameters influencing surge; interpretation of surge results; types of pipes; design criteria for surge protection; control of surge; surge protection devices; design of air vessel, one way surge tank, stand pipe; locating upsurge control devices like zero velocity valve, surge relief valve, air valve and air cushion valve; control of surge for gravity mains. Transient analysis for circulating water systems. Case studies in water transmission mains, lift irrigation schemes and CW systems.

Computer sessions will cover usage of Surge Analysis Program Version 2 software developed at Department of Civil Engineering, Indian Institute of Science Bangalore for surge analysis, interpretation of results and design of surge protection systems with examples and data from projects.

Fee for the program is Rs. 30,000/- for industrial participants, Rs. 20,000/- for government officials and Rs.10,000/- for students (All inclusive of GST). Fee includes course material, lunch and teas. Fee can be paid through bank draft or multicurrency cheque drawn in favor of "*The Dean R&D, Payable at State Bank of India, IIT Hyderabad (Kandi) Branch. Bank IFSC Code: SBIN0014182; Bank SWIFT Code: SBININBB762 Indian Institute of Technology Hyderabad*" on or before 10th June 2018. Any clarifications regarding payment contact Phone: 040-23016107, E-Mail: mtswrm@iith.ac.in

No catering facility, but couple of restaurants are nearby. Details of hotels around IITH campus can be provided on request. Limited accommodation will be provided in IITH hostels, charges will be on per day basis and first come first serve.

For any other information contact the course instructor

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Tentative Programme

23rd June 2018

09.00 to 09.30	Registration
09.30 to 11.00	Lecture
11.00 to 11.15	Tea
11.00 to 13.00	Lecture
13.00 to 14.00	Lunch
14.00 to 15.45	Computer session
15.45 to 16.00	Tea
16.00 to 17.30	Computer session

24th June 2018

09.00 to 11.00	Lecture
11.00 to 11.15	Tea
11.00 to 13.00	Lecture
13.00 to 14.00	Lunch
14.00 to 15.45	Computer session
15.45 to 16.00	Tea
16.00 to 17.30	Computer session

25th June 2018

10.00 to 17.00	Field visit
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