One Day Workshop

on

Morphological Study of Tapi River using Remote Sensing Technique

July 21, 2017

Sponsored by
Central Water Commission, New Delhi

Coordinators
Dr. P L Patel
Dr. P V Timbadiya

Call for participation

Organized by
Centre of Excellence on
"Water Resources and Flood Management",
Civil Engineering Department
Sardar Vallabhbhai National Institute of Technology, Surat-395007.

About Central Water Commission (CWC)

It is a premier Technical Organization of India in the field of Water Resources and is presently functioning as an attached office of the Ministry of Water Resources, River Development and Ganga Rejuvenation, Government of India. The Commission is entrusted with the general responsibilities of initiating, coordinating and furthering in consultation of the State Governments concerned, schemes for control, conservation and utilization of water resources throughout the country, for purpose of Flood Control, Irrigation, Navigation, Drinking Water Supply and Water Power Development. It also undertakes the investigations, construction and execution of any such schemes as required.

The Central Water Commission (CWC) is headed by a Chairman, with the status of Ex-Officio Secretary to the Government of India. The work of the Commission is divided among 3 wings namely, Designs and Research (D&R) Wing, River Management (RM) Wing and Water Planning and Projects (WP&P) Wing. Each wing is placed under the charge of a full-time Member with the status of Ex-Officio Additional Secretary to the Government of India and comprising of number of Organizations responsible for the disposal of tasks and duties falling within their assigned scope of functions.

Directorate of Morphology

Directorate of Morphology is functioning under the office of Chief Engineer (P&D), CWC, New Delhi. They have initiated the morphological studies of few major rivers of the country by entrusting the responsibilities to the leading institutions like IITS and NITs. They have assigned the task of "Morphological Study of Tapi River using Remote Sensing Technique" to SVNIT-Surat.

About the Institute

The institute was initially established as Sardar Vallabhbhai Regional College of Engineering & Technology in 1961, and was upgraded to National Institute of Technology (SVNIT) in 2002. The SVNIT, at present, is one of the prestigious engineering institutions of the country, and has contributed many outstanding engineers in India and abroad. At present, the Institute runs six Undergraduate, and seventeen Postgraduate programmes, three MSc integrated programmes and Ph.D. programmes in all disciplines of Engineering and Applied Sciences. Special attention is being given in developing the culture of interdisciplinary and collaborative research. The institute has an excellent placement record with a number of top-ranking companies visiting the campus every year.

About the Department

The Department of Civil Engineering came into existence in the year 1961. The department has 27 faculty members with specialization in various themes of Civil Engineering. The department has been running one UG programme in Civil Engineering, four PG programmes (Water Resources Engineering, Environmental Engineering, Urban Planning, and Transportation Engineering & Planning) and the research programmes leading to Ph.D. degree in different areas of specializations.

About Centre of Excellence (CoE)

The Water Resources Engineering section of the department had full-fledged facilities for UG/PG and PhD programmes under the leadership of eight dedicated faculty members. The section has taken lead to establish Centre of Excellence (CoE) on 'Water Resources and Flood Management being funded from World Bank under TEQIP-II. The CoE aims to develop excellent computational and experimental facilities in the area of Hydraulics and Water Resources; develop Early Warning System for flooding in Surat city; and organize short term training programmes, workshops and conferences on thematic areas to the academicians and practitioners in the field.

About Computational Hydraulics Laboratory (CHL)

The Water Resources Engineering section of the department had full-fledged Computational Hydraulic Laboratory with following professional softwares:

1) Bentley Storm CAD V8i
2) Bentley Sewer GEMs V8i
3) Bentley Water GEMs V8i
4) MIKE 11/MIKE 11 GIS/MIKE 11 FF
5) MIKE FLOOD, MIKE SHE, MIKE URBAN
6) River CAD Professional (HEC-RAS)
7) HEC-2, HEC-HMS Professional
8) Arc GIS 10
9) ERDAS IMAGINE 10
10) STATISTICA 10
11) MATLAB 2014a

About Surat

The Surat city, situated on the bank of river Tapi, is highly ranked industrial city of the country with a network of flyovers and clean wide roads. It is well known worldwide for textiles, Zari and Diamond industries. Several large scale industries and establishment are located in the city. The city is situated on the main western railway route between Vadodara and Mumbai. The institute is located at Ichchhanath on Surat-Dumas road at a distance of about 10 km from the Surat railway station.

Workshop Objectives

The objective of the workshop is to disseminate the results of the study carried out by SVNIT-Surat on "Morphological Study of Tapi River using Remote Sensing Technique." The participation of the stakeholders and their suggestions during the workshop would improve the usefulness of the work.

Workshop Deliberations

The topics of deliberations in the workshop would be as follows:

1) **Description of Tapi basin including key morphological issues in Tapi River**
2) **Morphological study of Tapi River using Remote Sensing: Objectives and detailed scope of work**
3) **Trend of climatic and land use-land cover parameters in the basin including pattern of runoff and sediment yield, and flood frequency analyses**
4) **River Morphology: Shifting of bank lines and hydraulic geometric relationships**
5) **Stream bank erosion analysis including planform of the river**
6) **Identification of critical reaches including outcomes of field visits**
7) **Panel Discussion**

Registration of Participants

The workshop is open to engineering professionals, field engineers, working in the different departments (Govt./Non-govt.) related to Water Resources, Irrigation, Flood management, River engineering and other stake holders related with Tapi river. The participants/stake holders desirous for attending the workshop has to make their own arrangements for accommodation and travel.

The number of participants for the programme is limited to 50.

Speakers

The outcome of the Morphological study of Tapi River using Remote Sensing Technique will be deliberated among the faculty members of SVNIT-Surat and invited expert participants from the leading organisations. The valuable inputs from the stakeholders are expected during the workshop.

Important Dates

The completed filled-in registration form will be sent as an e-mail attachment to **praful.timbadiya@gmail.com** on or before **July 15, 2017.** The registration form should contain the signature of the Head of the department with seal.

The list of selected applicants will be informed through E-mail and displayed on the institute website by **July 16, 2017.** The registration is compulsory for participation in the workshop.

Venue

Conference Room,
Institute Guest House (Sardar Vallabhbhai Patel Bhavan),
SVNIT Surat - 395007.

Contacts

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Registration Form

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July 21, 2017

Name:_____
Gender (M/F):_____Age:_____
Designation:
_____
Organization:_____
_____
_____
Qualification:_____
Experience:_____
Address for correspondence:_____
_____
_____
_____
Phone: (O)_____(R)_____
Mobile: _____
Email:
Accommodation required: Yes/No

Date:_____
Place:_____

Signature of Participant

Signature of Head of the
institution/company/department with Seal