

*National Conference*  
*on*  
**WATER RESOURCE MANAGEMENT**  
**(NCWRM-2023)**

February 24 – 25, 2023



*VENUE: NITTTR, Kolkata*

Mode: Hybrid

*Organized by*



**NATIONAL INSTITUTE OF  
TECHNICAL TEACHERS' TRAINING &  
RESEARCH, KOLKATA**  
**(Ministry of Education, Govt. of India)**  
*Block-FC, Sector-III, Salt Lake City*  
*Kolkata-700106, INDIA*

### Chief Patron

Shri. Harshavardhan Neotia, Chairman, BOG, NITTTR,  
Kolkata

### Patron

Prof. Debi Prasad Mishra  
Director NITTTR, Kolkata

### Core Committee

Prof. Debi Prasad Mishra, Chairman, NITTTR, Kolkata  
Prof. Subrata Chattopadhyay, Member, NITTTR, Kolkata  
Prof. Sailendra Nath Mandal, Member, NITTTR, Kolkata  
Dr. Subrata Mondal, Member, NITTTR, Kolkata

### Advisory Committee

- Shri. Avinash Mishra, Adviser in Tourism, culture, Panchayati Raj, Water & Land NITI Aayog (GOI)
- Shri. Girraj Goyal, Ministry of Water Resources, India
- Prof. Sudhindra Nath Panda, SRM University, A P
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- Prof. Jagat Jyoti Mandal, NITTTR Kolkata
- Prof. Prasanta Sarkar, NITTTR Kolkata
- Prof. Ranjan Dasgupta, NITTTR Kolkata

### Registration Details

The registration fee for the conference is Rs 1000/- (Rupees one thousand only) including conference kit, lunch, tea and snacks etc. excluding board, lodging and local transportation. However necessary arrangement would be made on nominal payment for accommodation. A discounted registration fee ONLY for research scholars and students is Rs 300/- (Rupees three hundred only), on production of authentication certificate from appropriate authority.

**NATIONAL INSTITUTE OF TECHNICAL  
TEACHERS' TRAINING AND RESEARCH,  
KOLKATA**

BLOCK FC, SECTOR III, SALT LAKE CITY  
KOLKATA – 700 106

### REGISTRATION FORM

Full Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Institute: \_\_\_\_\_

Address for Correspondence:  
\_\_\_\_\_  
\_\_\_\_\_

Mobile Number: \_\_\_\_\_

Email: \_\_\_\_\_

\_\_\_\_\_  
Signature of the Participant

### Payment details

Registration fee to be paid through bank transfer using the account details given below:

- Name of Account: National Institute of Technical Teachers' Training & Research, Kolkata
- Bank Account No. : 089301000009220
- Bank Name: Indian Overseas Bank
- Bank Address: Salt Lake City, Kolkata
- IFSC Code: IOBA0000893

### Accommodation

Accommodation would be available on request basis (subject to the availability) in the Institute Hostel on usual payment.

| Type                     | Charges per head per day (in INR) |              |
|--------------------------|-----------------------------------|--------------|
|                          | Single Room                       | Twin Sharing |
| Participant              | 1000/-                            | 1250/-       |
| Student/Research scholar | 300/-                             |              |

## About the Institute

National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata started its journey in 1965 under the Ministry of Education, Government of India and became an autonomous institution in 2013. Government of India, in 2003, accorded national status to this Institute, (along with the 3 sister institutes) in recognition to the expert service rendered for overall improvement of quality of Technical Education System. The primary focus of the Institute is to provide in-service training to the teachers and staff of Degree and Diploma level technical institutions and conducting activities related to the quality improvement of the technical education system of the country.

The Institute has excellent infrastructural support in the form of well-equipped laboratories and other resources. The focal activities of the Institute incorporate Short Term Training programmes, Learning Resources Development, Educational Research and Management as also Extension Services, Curriculum Development. Apart from these, the Institute is offering four M. Tech. Programmes in Manufacturing Technology, Multimedia & Software Systems, Mechatronics Engineering and Structural Engineering. All India Council for Technical Education (AICTE), India has recognized the short-term training programmes conducted by the Institute as critical requirement for the purpose of movement to higher grades under Career Advancement Scheme.

## Conference Aim

Presently India is passing through a critical water situation in terms of fresh water resources, water conservation and recycling issues. This calls for new challenges and opportunities in water and wastewater treatment sectors across the country.

India has 17 % of world's population but only 4 % the world's fresh water resources. Per capita water availability for India has already fallen below the limits of 1700 cum/person/year -for a country to be declared as water stressed. There is also significant increase in demand for water from the industrial sector in India.

The largest cities in India are collectively responsible for generating around 380 million litres of waste water per day, which will need to be recycled based on recent more stringent regulatory norms set by pollution control boards. Treated waste water can be a good answer as a

future and secure water source in the country. They can be utilised by thermal plants and also satiate the agricultural and industrial needs of the nation. It has been reported that Government is planning to run the 40% of the country's coal plants with treated wastewater during next five years. India's long term challenges of depleting ground and surface water can be addressed to a large extent if waste water recycling is effectively implemented across the country.

The state of municipal recycling in the country is also very dismal. To improve this state, it will need investments and at the same time, there is a need to keep treated water affordable. However there is an urgent need to focus on improving facilities to meet India's freshwater withdrawal which incidentally stands even higher than its neighbouring countries.

This national Conference on Water Resource Management will provide a common platform to researchers, scientists, academicians, industry people and entrepreneurs to showcase their findings and innovative process/ products for enhancing water resource creation and efficient water resource management in current scenario.

## Sub Themes

The proposed sub themes of the conference are expected to (however not restricted within) address following areas

### Water issues

- Drinking water system in ancient India
- Water harvesting in ancient India
- Water irrigation system in ancient India
- Safe drinking water - technologies and processes of disinfection
- Water quality assessment, monitoring and control
- Operation and maintenance issues in drinking water treatment plants
- Designing sustainable water distribution/supply system
- Water and public health

### Water resources: Present availability and additional water resource creation

- Water consciousness in Ancient India
- Water resources: availability in industrial, urban and rural locations: present scenario

- National water policy: Clean and safe drinking water, sustainable water sources for rural and urban usage
- Additional water resource creation: water conservation, rainwater harvesting, re-use and recycling

### Emerging technologies, equipment & concepts for industrial, urban and rural water management

- Ancient technologies in water management
- Use of automation and sensors for monitoring water quality
- Technologies for detecting and resolving water leakages in transmission
- Salinity management, elimination of toxic elements from water, application of membrane technology
- Advanced techniques for solid-liquid separation & sludge management
- Technologies for community oriented drinking water supply and management-rural and urban locations

### Wastewater Management

- Management of industrial waste water
- Management of urban municipal waste water
- Technological aspects of industrial and municipal wastewater management
- On-line monitoring system, instrumentation & control in waste water treatment based on regulatory norms
- Best practices, case studies, PPP models and community participation
- Advanced technologies related to re-cycle, re-use and ZLD concepts for industrial & urban waste water management

## Paper submission guidelines

Maximum page limit of the contributed paper is 10 in A4 size pages, as per specified format ([Link](#)). Contributed papers are to be sent to dearsailen@gmail.com as email attachment. All accepted papers will be published in a conference proceedings.

## Important Dates

|  |                  |
|--|------------------|
| Deadline for submission of Extended Abstract | 09 December 2022 |
| Notification of acceptance of Abstract       | 09 January 2023  |
| Submission of final manuscript               | 23 January 2023  |
| Final acceptance and invitation notification | 07 February 2023 |