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National Workshop

on
Water Treatment Options for
Priority Drinking Water Pollutants
in Rural Areas

March 28-29, 2019

Sponsored by



Ministry of Drinking Water & Sanitation
Government of India

Jointly Organized By



IWWA
Prayagraj Centre



Department of Civil Engineering
MNNIT Allahabad
Prayagraj – 211004, India



U. P. Jal Nigam
Lucknow

Preamble

Supply of potable drinking water to rural communities is becoming a real challenge for policy makers and water utilities in India. The available drinking water in rural areas has many contaminants which need to be addressed properly for healthy India. In northern parts of the country main source of drinking water in rural area, is groundwater and this prime source is contaminated from either geological leaching or anthropogenic mixing of chemicals, agricultural runoff and microorganisms. This creates water borne disease which is major cause of death particularly in children in many parts of India specially Uttar Pradesh and Bihar states. In Uttar Pradesh and Bihar badly sited latrines and septic tanks are significant source of groundwater contamination. The quality of drinking water and possible associated health risks vary throughout the India with some regions showing high priority pollutants, for example, high level of arsenic, fluoride, NOM, THMs, iron, nitrate and pathogens whereas, elsewhere these are very low or no problem.

For rational planning of any water quality management programme, knowledge of sound scientific technologies are prerequisite for treating contaminated water in an appropriate manner for further supply to the community. Few years back no viable cost-effective technologies were commercially available in the market, but there are many newer water treatment technologies which are now available that can address treatment requirements. These technologies are lesser known to engineers and other decision makers involved in supplying potable water to public at large. There must be a robust and appropriate technology according to geographic condition of the area in developing country like India.

Accordingly, the need of hour is to make aware about the latest and feasible water treatment technologies and its evaluation by experts, a comprehensive 2 days National workshop has been planned by the Department of Civil Engineering, MNNIT Allahabad during 28-29 March, 2019.

Themes of the Workshop

- ❖ Introduction on national water quality scenario and impact of infectious diseases.
- ❖ Overview of various chemical contaminations and geographical areas where these contaminations exist.
- ❖ Advanced water treatment technologies for major priority pollutants in India.
- ❖ Electrostatic Deionization Technology (ESD).
- ❖ Treatment by RO and UV based disinfection.
- ❖ Disinfection by Electro chlorination.
- ❖ Removal of Iron by Ion Exchange Resins.
- ❖ Iron and Arsenic Removal Oxi Max system.
- ❖ Slow sand filter with new modifications.
- ❖ Comparisons of technologies with relative merits and demerits.
- ❖ Discussion on case studies and interactive experience sharing session.

About the Place

The Kumbh city Prayagraj has its own religious as well as historic importance. The city located at the confluence of three holy river the Ganga, the Yamuna and the Saraswati, has itself a mystic charm and an enduring effect.. There are several places of interest in Prayagraj such as Sangam, Anand Bhawan, Swaraj Bhawan, Sita Samahit Sthal (60 Km distance), Khusroo Bagh etc.

About the Organizers

The Department of Civil Engineering was established in 1961. Since inception, it has shown commitment to quality and excellence in academic pursuits. The Environmental Engineering Section of the Department is fully equipped to conduct this workshop with their well qualified faculty and along with M.Tech & Ph.D. scholars.

Indian Water Works Association (IWWA) is a voluntary body of professionals like public health engineers, academicians, scientists, contractors and consultants working in the field of water supply and sewerage. IWWA was founded in 1968 with headquarters at Mumbai and has 34 Centers spread across the country and is very active in conducting different activities in the areas of water supply and wastewater treatment and disposal.

The Uttar Pradesh Jal Nigam was constituted by the State Government in the year 1975 which came into existence with effect from 18th June 1975. The basic objective of creating this corporation is development and regulation of water supply & sewerage services and for matters connected therewith.

Experts Source

The key note speakers will be experienced academicians, consultants and Sr. Engineers from reputed institutions like IITs, NITs, Ministry of Drinking Water and Sanitation and PHEDs. The working professionals and students may also be invited for the expert lectures, paper presentations and experience sharing.

Interested candidates are requested to send the full length paper of maximum 6 pages latest by 20th March to rcvashya@mnnit.ac.in.

Who Can Attend The Workshop

This workshop is designed for all professionals working in the academic field and middle level professionals working in the areas of water supply management. These professionals may be Engineers from PHED, U. P. Jal Nigam, Master Trainers like Village Development Officers (VDOs), representatives of NGOs, policy planners working for rural areas. Academicians & researchers working in the Department of Civil Engineering or other related departments in various Government Engineering Institutions and students are also invited to attend the workshop and present their research findings.

Accommodation And Expenses

Accommodation will be available in the Institute subject to availability. The TA/DA will be provided to officially ~~nominated delegates~~ and paper presenters as per government rule subject to production of original tickets.

Registration Fees

Student/IWWA Members	Rs. 500
Others	Rs. 1000