

## OBJECTIVE

Water is inevitable for life in the earth. But the assessment of water quality is essential before its safe utilization. With a high demographic growth, increasing urbanization, industrialization and change in lifestyle will trigger greater water use and produce larger quantities of anthropogenic wastewaters of varying compositions. Presently about 15% of India's water resources are consumed for domestic and industrial purposes and this will grow to about 30% by 2050. The total annual water requirements of urban population and industrial sector have been projected to be around 90 and 81 km<sup>3</sup> by 2050, respectively. In addition, use of wastewater (either sewage water or industrial effluents) for irrigation may further cause food-chain contamination. Therefore, proper assessment of water quality is utmost necessity and optimized management of each milli-metre of fresh water on this earth is essential. Hence, the training course is to focus on the understanding of water quality assessment, determination of water quality parameters and important indices, exploration of potential uses of wastewater and its effects on soil health, soil-water-plant-human continuum, greenhouse gas emission, policies on water use, management strategies, micro-irrigation and fertigation. Assessment of water quality using portable multi-parameter, standard lab equipment and advanced instrumentation like ICP-OES will be demonstrated during the training. Both the theory and practical demonstrations will be emphasized equally for better utility of the course. The course is designed for researchers working in the field of water quality monitoring, use of wastewater in agriculture, soil science, agronomy, environmental engineers and data processing.

## About ICAR-IISS, Bhopal

Division of Environmental Soil Science, ICAR Indian Institute of Soil Science has been actively undertaking research on various aspects of soil and water resources. These achievements have been widely recognized by the ICAR and other professional societies/ organization as reflected by research publications and quite good number of national/ international awards of excellence. Bhopal, capital city of Madhya Pradesh is well connected by air, rail and roadways to different parts of the country. Participants travelling by train/ bus should reach Bhopal railway station/ bus stand to reach ICAR IISS located on Berasia Road at a distance of 8 km from railway station and 7.5 km from bus stand. The Raja Bhoj Bhopal airport is located at a distance of 10 km from the campus.

## Ministry of Jal Shakti Sponsored Training Programme on

## Water Quality Assessment and its Management for Sustainable Use in Agriculture

4 – 8 March, 2024



जल शक्ति मंत्रालय  
जल संरक्षण, नदी विकास और गंगा संरक्षण विभाग  
MINISTRY OF JAL SHAKTI  
DEPARTMENT OF WATER RESOURCES,  
RIVER DEVELOPMENT & GANGA REJUVENATION



## Organized by

Division of Environmental Soil Science  
ICAR-Indian Institute of Soil Science,  
Nabi Bagh, Berasia Road, Bhopal-462 038, M.P.  
Phone: 0755-2730946, 2730970 (O) Fax: 0755-  
2733310; Web: <https://iiss.icar.gov.in>

## REGISTRATION FORM

### Water Quality Assessment and its Management for Sustainable Use in Agriculture

4 – 8 March, 2024

Application Form for Participation in Five-days Training

1. Full Name (in block letters):

2. Designation:

3. Present employer and address:

4. Mobile no.:

5. Email:

6. Date of Birth:

7. Sex:

8. Field of Specialization/ Research Area:

9. Qualification:

Date & Place:

Signature of the applicant

## CERTIFICATE

It is certified that the information has been verified from the office record and is found correct.

Date:

Signature and designation of authority

## ELIGIBILITY CRITERIA

Eligibility criteria of the participants for the training programme: Assistant Professor, Scientist, Technical Officer, Research Associate, Senior Research Fellow and PhD students of central, state and private universities/ organizations who are engaged in "water quality assessment".

Last date for receipt of application: 20/02/2024

## CONTACT PERSON

All correspondence should be addressed to

### Course Director

Dr. M. Vassanda Coumar

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ICAR-Indian Institute of Soil Science,

Nabi Bagh, Berasia Road, Bhopal-462 038, M.P.

Email: [vassanda.coumar@gmail.com](mailto:vassanda.coumar@gmail.com);

[MV.Coumar@icar.gov.in](mailto:mv.coumar@icar.gov.in)

or

### Course Co-Directors

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