

**Skill Training Program on
"Biological Monitoring and Bio-assay Studies for EC Conditions:
Sampling, Analysis, Data Interpretation and Quality Assurance "**

October 11-12, 2022

OBJECTIVES

Aquatic environments are being modified by anthropogenic activities regarding their biological, physical, and chemical conditions; even pristine aquatic ecosystems can be threatened. This training is focused on the biological monitoring of plankton and macroinvertebrates. These metrics are helpful tools for the assessment of water quality and overall aquatic ecosystem health. However, their degree of sensitivity for exposing the pollutants signifies their presence in any aquatic or wetland ecosystem. Plankton are the base of marine food webs, essential to sustaining fisheries and aquatic life. Continuous records can be helpful to integrate the advanced understanding of plankton dynamics and informing policy and management decisions.

COURSE CONTENTS

- Planktons and Macroinvertebrates as an Ecological indicators: Identification and calculation of index and interpretation of results
- Overview on biomonitoring of lakes and rivers of India
- Biomonitoring of freshwater fisheries resources of India
- Study of aquatic plants as an indicator of trophic status of surface water bodies
- Sampling, identification by microscopic studies and index calculation
- Biomonitoring of Macroinvertebrates: Z-Score evaluation and result interpretation
- Assessment and identification of aquatic insects as an ecological indicator
- Biomarkers in aquatic environmental monitoring
- Bioassay: a tool for estimation of toxicity of water
- Impact of quality of water on the aquatic biota

VENUE: CSIR-NEERI, Nagpur

MODE OF TRAINING: Classroom lectures/demonstration/interaction. The lecture material shall be provided to the participants after the completion of the program.

REGISTRATION

- Registration Fee for Sponsored/Employed/Self Payment candidates, etc.: **Rs. 5,000/- + 18% GST**
- Registration Fee for Students: **Rs. 2,000/- + 18% GST**
- **Fee will be paid online through SBI Collect link as mentioned below:**
<https://www.onlinesbi.com/sbicollect/icollecthome.htm>
- Instructions for remittance of fee through State Bank Collect:
State of Corporate / Institution: "MAHARASHTRA"
Type of Corporate / Institution: "GOVT. DEPARTMENT"
GOVT Department Name: "NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE"
- **Payment Category:** "WEBINAR / TRAINING PROGRAM REGISTRATION FEE"
- Attached enrollment form & SBI collect receipt is to be sent on email id: **hv_singh@neeri.res.in**
- Registrations will be confirmed on first-come first-serve basis since there are 20 seats only
- Accommodation at CSIR-NEERI Guest House can be arranged on payment basis, if available
- Last date of Registration: **September 11, 2022**

CERTIFICATE OF PARTICIPATION: Certificate of Participation will be issued on successful completion.

DIRECTOR	PROGRAM CO-ORDINATOR	COURSE CO-ORDINATORS	
Dr. Atul N. Vaidya Director CSIR-NEERI	Dr. Harshvardhan Singh Senior Principal Scientist & Head, Training & Skill Development Division (TSDD) Email: hv_singh@neeri.res.in Ph. : 0712-2249885 Ext. 344 / 645	Dr. Atya Kaple Chief Scientist & Head, EBGD	Dr. Sharda Kosankar Senior Scientist, EBGD

**COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (CSIR)
INTEGRATED SKILL INITIATIVE (PHASE-II) (2020-25)
TRAINEE ENROLLMENT FORM**



CSIR-NEERI (National Environmental Engineering Research Institute) Nehru Marg, Nagpur- 440020	
TITLE OF SKILL DEVELOPMENT PROGRAM	Biological Monitoring and Bio-assay Studies for EC Conditions: Sampling, Analysis, Data Interpretation and Quality Assurance
DATE(S), TIME AND VENUE	October 11-12, 2022 and CSIR-NEERI, Nagpur
FULL NAME OF TRAINEE	
FATHER'S / HUSBAND'S NAME	
DATE OF BIRTH (DD/MM/YYYY)	
GENDER (MALE / FEMALE / OTHERS)	
CATEGORY (SC / ST / OBC / EWS / GENERAL)	
PHYSICALLY DISABLED (YES / NO)	
CURRENT STATUS (working/ entrepreneur/ student/ unemployed/ school dropout)	
QUALIFICATIONS	
PHOTO ID NUMBER (Aadhar/ PAN/ Voter ID/ Passport)	(Attach Copy of Photo Id)
MOBILE NUMBER	
EMAIL	
ADDRESS (Mention name of District, State & Pin code)	
TRAINEE'S DOMICILE (RURAL / URBAN)	
FEE PAYMENT DETAILS (IF APPLICABLE)	
SIGNATURE OF APPLICANT	SIGNATURE OF NODAL PI
DATE	DATE