



Skill Training Programs in Environmental Science and Engineering (2022-2023)

(Under CSIR- Integrated Skill Initiative Phase II)



Organized by

CSIR –NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE (NEERI)

(Ministry of Science and Technology, Govt. of India)

Nehru Marg, Nagpur-440020 (Maharashtra). INDIA

Website: www.neeri.res.in

Ph.: 0712- 2249885-90



CSIR-NEERI's Skill Training Programs (2022-23)



S.N.	Title	Duration	Closing date of Registration	Course Coordinator (s)
1	<i>Soil Quality Assessment and Land Management</i>	<i>September 14-15,2022</i>	<i>August 14, 2022</i>	Dr. Sanjeev Kumar Singh
2	<i>Efficient Operation, Maintenance, Performance and Design of Waste Water Treatment Plants</i>	<i>September 20-22,2022</i>	<i>August 20, 2022</i>	Dr. S.K.Goyal Dr. Raman Sharma
3	<i>Industrial Waste and Wastewater Management for Grossly Polluting Industries (GPIs) in the National Capital Region of Delhi</i>	<i>September 28-30,2022</i>	<i>August 28,2022</i>	<i>Dr. S.K.Goyal Dr. Papiya Mandal Dr. Raman Sharma</i>
4	<i>Biological Monitoring and Bio-assay Studies for EC Conditions: Sampling, Analysis, Data Interpretation and Quality Assurance</i>	<i>October 11-12,2022</i>	<i>September 11, 2022</i>	Dr. Sharda Kosankar Dr. Atya Kaple
5	<i>Water Quality: Testing and Data Management</i>	<i>October 17-19, 2022</i>	<i>September 17, 2022</i>	Dr. G.K.Khadse Dr. Pawan Labhasetwar
6	<i>Analytical Instrumentation Techniques for Measurement of Environmental Contaminants</i>	<i>November 01-02,2022</i>	<i>October 01, 2022</i>	Dr. Sanjeev Kumar Singh Er. G.S.Kanade Dr. Kavita Gandhi
7	<i>Current Challenges in Environmental Health</i>	<i>November 10-11,2022</i>	<i>October 10, 2022</i>	Dr. K. Krishnamurthi
8	<i>Water Quality Testing and Analysis</i>	<i>November 15-17,2022</i>	<i>October 15, 2022</i>	Dr. S.K.Goayl Dr. Noor A Khan
9	<i>Advance Oxidation in Wastewater Management</i>	<i>November 22,2022</i>	<i>October 22, 2022</i>	Er. M. Karthik
10	<i>Ecology and Biodiversity Studies for EIA Projects</i>	<i>December 07-09, 2022</i>	<i>November 07, 2022</i>	Dr. Sharda Kosankar Dr. Atya Kaple
11	<i>Sophisticated Instruments used for the Water Quality Analysis</i>	<i>December 14-16,2022</i>	<i>November 14, 2022</i>	Dr. S.K.Goayl Mrs. Priyanka Saxena
12	<i>Environmental Impact Assessment (EIA)</i>	<i>January 10-13,2023</i>	<i>December 10, 2022</i>	Dr. Harshvardhan Singh
13	<i>Air Pollution Emission Inventory, Modelling and Management,</i>	<i>January 17-19,2023</i>	<i>December 17, 2022</i>	Dr. S.K.Goayl Dr. Sunil Gulia
14	<i>Air Monitoring as per EC Consent Requirements for Industrial Sectors</i>	<i>February 01-03,2023</i>	<i>January 01, 2023</i>	Dr. S.K.Goayl Dr. Sunil Gulia
15	<i>Climate Change Impacts Assessment and its Responses</i>	<i>February 07-08,2023</i>	<i>January 07, 2023</i>	Dr. Arti Soni Dr. Nitin Goyal
16	<i>Energy, Environment & Resources: Monitoring, Control and Management Options</i>	<i>February 16-17,2023</i>	<i>January 16, 2023</i>	Dr. Nitin Labhasetwar
17	<i>Environmental Monitoring as per EC Consent Requirements for Industrial Sectors</i>	<i>February 22-24,2023</i>	<i>January 22, 2023</i>	Dr. S.K.Goyal Er. Ankit Gupta Er. Sunayana
18	<i>Sustainable Industrial and Infrastructure Management</i>	<i>March 01-02,2023</i>	<i>February 01, 2023</i>	Dr. S.K.Goyal Er. Ankit Gupta Er. Sunayana
19	<i>Solid and Hazardous Waste Management</i>	<i>March 14-16,2023</i>	<i>February 14, 2023</i>	Dr. M.P.Patil Dr. Debishree Khan Er. Jowin Joseph

Director:

Dr. Atul N. Vaidya, Director, CSIR-NEERI
Email: director@neeri.res.in

Program Coordinator & Nodal PI:

Dr. Harshvardhan Singh
Senior Principal Scientist & Head
Training & Skill Development Division (TSDD), CSIR-NEERI
Email: hv_singh@neeri.res.in

OBJECTIVES

In order to preserve the biodiversity and the productivity of the land, control measures are to be taken in achieving the sustainable land use and management systems, to balance productivity and environmental protection. CSIR-NEERI has vast experience in the field of soil quality assessment and successfully implemented soil remediation technologies for various private, public and state / central government agencies in different parts of the country. The major objective of the training programme is to impart training on soil quality assessment and management of degraded land practices to make participants well acquainted with interpretation of data related to soil quality and land management practices to be adopted for restoration of biodiversity.

COURSE CONTENTS

- Categories of Indian Soils.
- Collection, Preservation and Preparation of Soil Samples for Laboratory Analysis.
- Soil Quality Parameters: Physical, Chemical and Biological.
- QA/QC Procedure in Analysis, Accuracy, Precision and Concepts of Uncertainty Measurement.
- Preparation of Soil Test Report.
- Regulations for industrial land management
- Land Management - I (Case Study on Ecological Restoration of Mine Spoil Dumps)
- Land Management – III (Case study on Remediation of Contaminated Site)

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: **August 14, 2022**

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

DIRECTOR	PROGRAM CO-ORDINATOR	COURSE CO-ORDINATOR
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. Sanjeev Kumar Singh Senior Principal Scientist & Head, SEAF

**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	Soil Quality Assessment and Land Management
DATE(S), TIME AND VENUE	September 14-15,2022 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



OBJECTIVES

Water scarcity in the country warrants recycling and reuse of the treated water from the waste water treatment plants. The wastewater either domestic or industrial needs pollutant specific treatment in waste water treatment plants. Efficient operation, maintenance, performance and design of waste water treatment plants require proper planning and trained manpower. Sewage Treatment Plants (STP) and Common Effluent Treatment Plants (CETPs) provide a centralized platform for a homogeneous and heterogeneous cluster of industries to treat waste water on chargeable basis. Wastewater treatment in the treatment plants has now become an important revenue generating business, a resource of recycled water, a process of protecting environment and influencing quality of life at large. However, wastewater treatment plant operation is a tricky affair since wastewater received is diverse. Hence, this program has been specifically designed for the training and guidance of personnel involved in operation, maintenance, management and performance of waste water treatment plants and can be extended to manage wastewater optimally in ETP too.

COURSE CONTENTS

- Fundamentals of Water Pollution, its sources and Health Exposure Assessment
- Wastewater Treatment: A Conceptual Overview
- Wastewater Treatment Technologies: Physical, Chemical and Biological
- Fundamental of Design of wastewater treatment plants
- Wastewater Treatment Plant Components
- Operation, Maintenance and Monitoring of wastewater treatment plant
- Wastewater Chemistry: Sampling, Preservation & Analytical Techniques
- Troubleshooting of treatment operations and processes
- Work safety at the wastewater treatment plants
- Effluent Recycle/Reuse and Sludge Management

VENUE: CSIR-NEERI’s Delhi Zonal Centre, A-93-94, Naraina Industrial Area Phase-I, Delhi-110028.

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. 7,500/- + 18% GST**
- Registration Fee for Students: **Rs. 3,000/- + 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 25 seats only
- Last date of Registration: **August 20, 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. S. K. Goyal Chief Scientist & Head, DZC	Dr. Raman Sharma Principal Scientist, DZC

**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	Efficient Operation, Maintenance, Performance and Design of Wastewater Treatment Plants
DATE(S), TIME AND VENUE	September 20-22,2022 and CSIR-NEERI, Delhi ZC
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

**OBJECTIVES***September 28-30, 2022*

Grossly Polluting Industries (GPIs) are identified as industries discharging effluent having BOD load of 100 kg per day or more into a water course and handling hazardous substance as specified in Manufacturing, Import, Storage of Hazardous Chemical Rule, 1989. The different types of GPIs are pulp and paper mills, distilleries, sugar mills, textile units, tanneries, thermal power plants, food, dairy, and beverage industries, chemical units, slaughterhouses, etc. As a result of this, the freshwater that Indian rivers carry is now so severely polluted that river threaten the very life they once nurtured. On the other hand, managing the hazardous waste and hazardous sludge generated from the water treatment plants/ETPs installed at GPIs is another complex problem.

COURSE CONTENTS

- Categorization of the Industries
- Introduction to the Grossly Polluting Industries (GPIs) & Problems and Challenges faced by GPIs
- Environmental Legislations, Role of Regulatory Bodies and Judiciary
- Problems related to the treatment of waste water
 - Wastewater Treatment Technologies: Physical, Chemical and Biological
 - Fundamental of Design of wastewater treatment plants/ETPs
 - Operation, Maintenance and Monitoring of wastewater treatment plant/ETPs & Troubleshooting
- Problems related to management of air pollution
 - Overview of Air Pollution Challenges & Consequences
 - Particulate Matter and Gaseous Pollutant Monitoring
 - Industrial Emissions Monitoring and air pollution control
- Problems related to hazardous waste management
 - Classification of Hazardous Waste (HW)
 - Hazardous Waste Management & TSDF
- How CSIR-NEERI can help Grossly Polluting Industries

VENUE: CSIR-NEERI's Delhi Zonal Centre, A-93-94, Naraina Industrial Area Phase-I, Delhi-110028.

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. 7,500/- + 18% GST**
- Registration Fee for Students: **Rs. 3,000/- + 18% GST** (No Fee for EWS Category)
- **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 25 seats only
- Last date of Registration: **August 28, 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. S. K. Goyal Chief Scientist & Head, DZC	Dr. Papiya Mandal Principal Scientist, DZC	Dr. Raman Sharma Principal Scientist, DZC

**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	Industrial Waste and Wastewater Management for Grossly Polluting Industries (GPIs) in the National Capital Region of Delhi
DATE(S), TIME AND VENUE	August 28,2022 and CSIR-NEERI, Delhi ZC
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

**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	August 23-24, 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

OBJECTIVES

- Strengthening of knowledge on water quality testing and management related to:
- Field and laboratory practices for on-site and off-site monitoring of water quality to meet the statutory requirements
 - Analysis and interpretation of water quality data
 - Water quality data management
 - Advanced understanding in water quality assessments and treatment technologies
 - Capacity building on water resources management

COURSE CONTENTS

- Introduction to Water Quality and Water Quality Standards.
- Reconnaissance Survey and Network Design.
- Collection & Preservation of Samples and Field Analyses.
- Water Quality Parameters: (Physico-chemical, Heavy Metals, Bacteriological & Biological, etc.)
- Emerging pollutants in water.
- Water Quality Analysis and Instrumentation (AAS, ICPOES, GCMS, etc.)
- Demonstration and Practical.
- Water Quality Monitoring & Surveillance.
- NABL Accreditation of water testing laboratories.
- Water quality data analysis and management.
- Preparation of water safety & security plan.
- Water treatment technologies for geogenic contaminants.
- Water Treatment Plant: Unit operations and maintenance.

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. 7,500/- + 18% GST**
- Registration Fee for Students: **Rs. 3,000/- + 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 17, 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. Pawan Labhasetwar Chief Scientist & Head, WTMD	Dr. G.K.Khadse Senior Principal Scientist, WTMD

**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	Water Quality: Testing and Data Management
DATE(S), TIME AND VENUE	October 17-19,2022 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

**Skill Training Program on
“Analytical Instrumentation Techniques for Measurement of
Environmental Contaminants”**

November 01-02, 2022

OBJECTIVES

Measurement of environmental pollutants is a very important aspect of understanding the environmental contamination baseline and predicts its impacts for effective environmental decision making and implementing mitigation plans. Both organic and inorganic environmental pollutants are integral part of monitoring programs because of their significant long term and toxic effects on human health and the environment. It is important to identify and quantify these environmental pollutants with a high sensitivity and accuracy as they could be present in the environment at ppb and sub ppb levels. Advances in analytical techniques, has made it possible to measure even the trace level contaminants present in environmental matrices like soil/sediment, water and air, after suitable sample processing.

The objective of this training program is to impart basics and advanced knowledge on analytical instrumentation techniques for analysis of environmental contaminants including trace level analysis like pesticides, using sophisticated instrumentation. An over view of occurrence and fate of pollutants in environment, besides sample collection and processing techniques for environmental analysis.

COURSE CONTENTS

- Basic concepts of analytical techniques used for environmental analysis
- Sample Collection and Preparation Techniques for Organic and Inorganic Contaminants
- Analytical aspects of sophisticated instrumental techniques for analysis using Gas Chromatography, Mass Spectrometry etc. for monitoring of organic contaminant.
- Analytical application of instruments for analysis of inorganic contaminants like Atomic Absorption Spectrometry, Inductively Couple Plasma (ICP-OES/ICP-MS) etc.
- QA/QC of equipment’s and analytical activities as per ISO/IEC 17025:2017.

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: **October 01, 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. Sanjeev Kumar Singh Senior Principal Scientist & Head, SEAF	Er. G.S.Kanade Senior Principal Scientist, SEAF	Dr. Kavita Gandhi Principal Scientist, SEAF

**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	Analytical Instrumentation Techniques for Measurement of Environmental Contaminants
DATE(S), TIME AND VENUE	November 01-02,2022 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



CSIR-NEERI, Nehru Marg, Nagpur-440020
Skill Training Program on
“Current Challenges in Environmental Health”
November 10-11, 2022



OBJECTIVES

The proposed training program is broadly intended to provide perspective, insights and knowledge required for effective and efficient assessment of health and environment. The specific aim of the training program is to enhance the capacities of the participants in Health Assessment. The major objectives are:

- Environmental assessment (AIR, WATER AND SOIL) (theory and demonstration).
- Assessment of Health data available with hospitals and other agencies (Secondary health data).
- Assessment of Health data through collection from population in the form of Questionnaire (Primary health data).
- Correlation of the Health data with the Environmental pollutants.
- Interpretation of data and reporting.

COURSE CONTENTS

- Theory and principles of Environmental Pollution
- Concept and principles of Environmental Health
- Concept and principles of Environmental Impact Assessment
- Methods and tools in Assessment of Health impact due to environmental exposure w.r.t. air, water and soil pollutants
- Toxicological studies in assessment of health issues

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: **October 10, 2022**

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

DIRECTOR	PROGRAM CO-ORDINATOR	COURSE CO-ORDINATOR
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.. Krishnamurthi Kannan Chief Scientist & Head, HTC

CSIR-NEERI (National Environmental Engineering Research Institute) Nehru Marg, Nagpur- 440020	
TITLE OF SKILL DEVELOPMENT PROGRAM	Current Challenges in Environmental Health
DATE(S), TIME AND VENUE	November 10-11,2022 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

OBJECTIVES

Rural & Urban Local Bodies are facing a number of issues and challenges in the water supply sector such as sustainability of sources, water quality issues, capacity of stakeholders to manage water supply and water quality. In order to address such issues and challenges it is necessary that the capacity of different stakeholders is strengthened to enable them to play their role efficiently. It is required to bridge the knowledge and skill gaps to enable different stakeholders to ensure safe drinking water to all on long term basis. There is a need to build motivated, skilled and trained professionals in the rural & urban water supply sector. CSIR-NEERI is organizing training program for water supply engineers, chemists and other technical staff of the water testing laboratories from various states of India.

COURSE CONTENTS

- Introduction to Water Quality and Water Quality Standards
- Water Quality Monitoring & Surveillance
- Collection, Preservation, Transportation & Storage of samples and field analysis
- Water Quality Parameters: Physico-chemical, Heavy Metals, Bacteriological: Sampling, Preservation and Analysis
- Instrumentation techniques in water analysis
- Water treatment, supply and related issues
- Geo-genic contaminants in water and treatment technologies
- Data analytics
- Quality Assurance and Quality Control in Water Quality Analysis
- Report writing.

VENUE: CSIR-NEERI's Delhi Zonal Centre, A-93-94, Naraina Industrial Area Phase-I, Delhi-110028.

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. 7,500/- + 18% GST**
- Registration Fee for Students: **Rs. 3,000/- + 18% GST**
- **Fee will be paid online through SBI Collect link as mentioned below:**
<https://www.onlinesbi.com/sbicollect/collecthome.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 25 seats only
- Last date of Registration: **October 15, 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. S. K. Goyal Chief Scientist & Head, DZC	Dr. Noor Afshan Khan Senior Scientist, DZC



**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	Water Quality Testing and Analysis
DATE(S), TIME AND VENUE	November 15-17,2022 and CSIR-NEERI, Delhi ZC
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

OBJECTIVES

- Many industrial wastewaters contain pollutants that must be removed or detoxified before being discharged into a river or sewer. Advanced Oxidation Process (AOPs) offer attractive treatment options. AOPs involve the generation of hydroxyl radicals, which can attack and oxidize almost major organic contaminants.
- This programme is designed as a discussion point for techno-entrepreneurs, practicing engineers, regulatory agencies, students and common effluent treatment plant operators in the advanced oxidation process before implementing the program in their wastewater management systems as a part of the regulatory requirement or need for corporate social responsibility.

COURSE CONTENTS

- Introduction to advanced oxidation, principle, process, merits and limitations of the process.
- Basic design principles for the design of reactors, configurations and challenges, start-up, chemicals dose, optimization of feed parameters with special reference to Fenton's process, Ozonation, Wet Oxidation, Electro-oxidation.
- Comparison of the economics of AOTs - Capital (CAPEX) and maintenance (OMEX) costs.
- Performance on AOXs in real world.
- Role of regulation in implementation of AOX.
- Research needs in AOPs.
- Challenges faced in implementation of advanced oxidation processes under the Indian context through case studies.
- .

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. 2,500/- + 18% GST**
- Registration Fee for Students: **Rs. 1,000/- + 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: **October 22, 2022**

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

DIRECTOR	PROGRAM CO-ORDINATOR	COURSE CO-ORDINATOR
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	Mr. M. Karthik Senior Principal Scientist, TSDD

**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	Advance Oxidation in Wastewater Management
DATE(S), TIME AND VENUE	November 22,2022 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

OBJECTIVES

The ecology and biodiversity are a challenging and skillful studies require expertise in flora and fauna of terrestrial and aquatic system. Any change in the ecological component causes harm to the keystone species of developing area. Therefore, while conducting the baseline status it is very essential to understand the ecological processes and its stability. To strengthen the capacity of stakeholders and to manage with the ecological problems and to enable them to play their role and shoulder their responsibilities effectively, a training program has been proposed.

COURSE CONTENTS

- Introduction to the basics of Ecology and Biodiversity
- Principals and concepts of biodiversity laws
- Biodiversity Act 2002 & Wildlife protection act 1972
- IUCN category of animals and plants species of red data book
- Classification of plant and animal kingdom
- Phytosociological studies of flora
- Calculation of IVI Index and interpretation of results
- Study of lower invertebrates and its indication to the environment
- Study of Avifauna, Pisces and Insects
- Study of trophic status of lakes and rivers
- Prediction of impacts and mitigation measures for developmental activities
- Greenbelt Development plan
- Ecological restoration plan
- Case studies of coal mine and iron ore mines

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. 7,500/- + 18% GST**
- Registration Fee for Students: **Rs. 3,000/- + 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: **November 07, 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	Ecology and Biodiversity Studies for EIA Projects
DATE(S), TIME AND VENUE	December 07-09, 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

OBJECTIVES

Identifying contaminants in the water is the first step to treat them. Water quality analysis should be conducted promptly and precisely after samples collection so that the chemical and biological nature of the samples does not change. Having accurate measurements of water chemistry is crucial when designing a water & wastewater treatment system, measuring its performance, identifying the source of contamination, measuring the quantum of the environmental damage and assessing the economics of the environmental damage. Sophisticated analytical instruments play a crucial role in water chemistry estimation. However, their calibration and operation is a skill. This training program has been designed to impart hands on skills to the participants for the efficient operation and calibration of the sophisticated instruments.

COURSE CONTENTS

- Fundamentals of Water chemistry
- Fundamentals of Water Pollution, its sources and water quality analysis
- Introduction to advanced sophisticated analytical instrumentation for environmental sample analysis
- Fundamentals of Spectroscopy
- Fundamentals of Chromatography
- Ion Chromatograph (IC) – Principle, working, sample preparation and data interpretation
- GC-MS-MS for the determination of organic compounds in environmental samples
- Hands on training on the working of HPLC
- ICP-OES/MS for trace elemental determination in environmental samples

VENUE: CSIR-NEERI's Delhi Zonal Centre, A-93-94, Naraina Industrial Area Phase-I, Delhi-110028.

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. 7,500/- + 18% GST**
- Registration Fee for Students: **Rs. 3,000/- + 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 25 seats only
- Last date of Registration: **November 14, 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. S. K. Goyal Chief Scientist & Head, DZC	Mrs. Priyanka Saxena Senior Scientist, DZC

**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	Sophisticated Instruments used for the Water Quality Analysis
DATE(S), TIME AND VENUE	November 15-17,2022 and CSIR-NEERI, Delhi ZC
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

**Skill Training Program on
"Environmental Impact Assessment (EIA)"**

January 10-13, 2023

OBJECTIVES

Impact Assessment is broadly intended to provide perspective, insights and knowledge required for effective and efficient management of environment. The specific aim of the training program is to enhance the capacities of the participants in EIA. The main objectives are:

- Exposure to all aspects of EIA
- EIA process-screening, scoping, data collection to impact assessment, role of public consultation etc.
- Specific reference to the environmental and social impacts of the industrial and developmental projects
- Reviewing EIA reports and identifying its strengths and weaknesses
- How to enhance ability regarding playing active role in post-EIA monitoring
- New possibilities for EIA/EMP using appropriate S&T Tools
- How to delineate pragmatic Environmental Management Plans

COURSE CONTENTS

- Environmental Impact Assessment (EIA): Introduction & NABET Requirements
- Baseline environmental quality of EIA studies
- Ambient Air Quality Monitoring, Analysis and Reporting
- Air Pollution Modelling, Meteorology, Dispersion of Stack and Fugitive Emissions
- Water Quality – Monitoring, Analysis and Reporting & Water Management
- Socio-Economic Aspects
- Noise and Vibration – Monitoring, Modelling and Management Plans
- Soil Quality Parameter, Soil Erosion and Soil Conservation Plans
- Solid & Hazardous Wastes – Characterization, Classification, Transport – Guidelines and Regulations
- Bio-diversity studies for Terrestrial and Aquatic Ecosystems – Forest and Wildlife Clearance
- Advance tools of EIA
- Environmental Management Plans for different Sectors

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. 10,000/- + 18% GST**
- Registration Fee for Students: **Rs. 4,000/- + 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: **December 10, 2022**

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

DIRECTOR	PROGRAM CO-ORDINATOR	COURSE CO-ORDINATOR
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. Harshvardhan Singh Senior Principal Scientist & Head, TSDD

**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	Environmental Impact Assessment (EIA)
DATE(S), TIME AND VENUE	January 10-13, 2023 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

OBJECTIVES

Efficient and effective urban air quality management planning needs trained manpower who can understand importance of its key components and connectivity between them. The key components of any management plan are setting the goal, monitoring, emission inventory, modelling and control strategies. The output of one component can be input for others. Therefore, sound knowledge of these components by air quality managers would lead to improved result in managing air quality. In view of that, the proposed training program on Air pollution Management in Urban Areas is broadly intended to provide perspective, insights and knowledge required for reduction of air pollution level within the city. The specific aim of the training program is to enhance the capacities of the participants in controlling the increasing air pollution level. The main objectives are:

- To provide thorough knowledge about air quality management in urban area
- Understanding the importance of each key component of management plan.

COURSE CONTENTS

- Fundamentals of Air Pollution, its sources and Health Exposure Assessment
- Understanding of Air Quality Index (AQI) and its calculation and interpretation
- Fundamental of Sources Apportionment methodology including monitoring, Chemical characterization and Receptor Modelling
- Multipollutant Emission Inventory Development for urban areas
- Air Pollution Meteorology and Its importance for air pollution dispersion
- Air assimilative capacity concept
- Fundamental of Air quality dispersion modelling
- Validation of models
- Online demonstration of air quality dispersion models such as AERMOD, CALINE-4, CALPUFF
- Air Quality Management: Policy Development, selection of control action

VENUE: CSIR-NEERI's Delhi Zonal Centre, A-93-94, Naraina Industrial Area Phase-I, Delhi-110028.

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. 7,500/- + 18% GST**
- Registration Fee for Students: **Rs. 3,000/- + 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 25 seats only
- Last date of Registration: **December 17, 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. S. K. Goyal Chief Scientist & Head, DZC	Dr. Sunil Gulia Senior Scientist, DZC

**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	Air Pollution Emission Inventory, Modelling and Management
DATE(S), TIME AND VENUE	January 17-19,2023 and CSIR-NEERI, Delhi ZC
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



OBJECTIVES

Air quality monitoring is one of the key tools of air quality management plan. The proposed training program on air quality monitoring is broadly intended to provide perspective, insights and knowledge required for robust assessment of air pollutant concentration of any location. The specific aim of the training program is to enhance the capacities of the participants in monitoring the air pollution level especially to meet the requirement of EC consent as per EIA notification.

COURSE CONTENTS

- Fundamental of air pollution Monitoring and its importance
- Air Pollution Monitoring: Manual vs. Continuous Monitoring Systems – Data Reliability Issues
- Theory and demonstration of Air Quality Monitoring Instruments (PM Samplers, Gaseous Samplers); Air Quality Lab Instrumentation (ICP, IC, GC & EC/OC)
- Ambient Particulate Matter (PM10 & PM2.5) Monitoring (Sampling, Principles, Analysis & Calculation, QA/QC, Data Analysis & Interpretation)
- Ambient Gaseous Pollutant (SO2, NO2, NH3, CO and O3) Monitoring (Sampling, Chemical Analysis & Calculation, QA/QC, Data Analysis & Interpretation)
- Chemical characterization of Particulate Matter (Principle, Procedure, QA/QC, Data Analysis & Interpretation)
- Ambient Volatile Organic Compounds - Sources, Monitoring and Control with QA/QC
- Bio-Aerosol Sources and Monitoring (Principle, Procedure, QA/QC, Data Analysis & interpretation)
- Stack Emission Monitoring (Principle, Procedure, QA/QC, Data Analysis & interpretation)
- QA/QC, Statistical Data Analysis & interpretation, Application of data

VENUE: CSIR-NEERI’s Delhi Zonal Centre, A-93-94, Naraina Industrial Area Phase-I, Delhi-110028.

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. 7,500/- + 18% GST**
- Registration Fee for Students: **Rs. 3,000/- + 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 25 seats only
- Last date of Registration: **January 01, 2023**

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. S. K. Goyal Chief Scientist & Head, DZC	Dr. Sunil Gulia Senior Scientist, DZC



**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	Air Monitoring as per EC Consent Requirements for Industrial Sectors
DATE(S), TIME AND VENUE	February 01-03,2023 and CSIR-NEERI, Delhi ZC
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



OBJECTIVES

Climate change is now impacting all sectors and has cascading effects on social, economic, technology and health. In response to the above impacts, mitigation (reduction of greenhouse gas emissions) and adaptation have to be explored across the different climatic regions around the globe. Therefore, this module aims to prepare trainee, to integrate climate change and vulnerability studies into interdisciplinary fields. The module enables the attendee to identify following on completion of course:

- a. Conduct vulnerability studies on exposure
- b. Identify evidences and future climate change vulnerability
- c. Identify key areas of mitigation and adaptation

➤ **COURSE CONTENTS**

- Introduction to climate change
 - Climate change studies
 - Detection of climate change
- Vulnerability assessment
 - Disaster and human impacts
 - Climate stressors
 - Climate change policy
 - Climate change impacts
- Mitigation and adaptation
 - Mitigation options for sustainable responses
 - Adaptation policy and practices

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/icollethome.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: **January 07, 2023**

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. Nitin Goyal Principal Scientist & Head, MZC	Dr. Arti Roshan Soni Scientist, MZC

**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	Climate Change Impacts Assessment and Its Responses
DATE(S), TIME AND VENUE	February 07-08,2023 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



CSIR-NEERI, Nehru Marg, Nagpur-440020

**Skill Training Program on
“Energy, Environment & Resources: Monitoring, Control and
Management Options”**

February 16-17, 2023



OBJECTIVES

To impart the knowledge to the students, researchers, academicians etc. about:

- Advanced tools and approaches for emission monitoring, management and control, and carbon financing.
- Reducing environmental footprints of combustion sources from informal sector as well as from transport
- Management and mapping of resources using GIS, AI and ML tools.
- Functionally designed Materials for Green Energy Harvesting

COURSE CONTENTS

- Advanced emission monitoring tools based on Drone, Sensors and AI Tools
- Emission monitoring and control from informal sectors including Cookstoves, Incinerator and Tandoor
- Transport emissions and management including emission control from in-use vehicles
- Energy Management and carbon financing (informal sectors)
- Introduction to GIS and its applications in resource mapping and management
- Resource mapping and utilization (including landfill mapping and waste management)
- Waste utilization and encapsulation
- AI and ML based Environmental Applications
- Functionally designed Materials for Green Energy Harvesting
- **Demo**
 - Mapping of trees & forest
 - Case study on low-cost sensor applications in smart cities of India

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: **January 16, 2023**

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

DIRECTOR	PROGRAM CO-ORDINATOR	COURSE CO-ORDINATOR
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. Nitin Labhasetwar Chief Scientist & Head, ERMD



**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	Energy, Environment & Resources: Monitoring, Control and Management Options
DATE(S), TIME AND VENUE	February 16-17, 2023 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

OBJECTIVES

The compliance by industries for environmental conditions as per EC requires monitoring of different environment matrices. The analysis for different parameters requires experience and good know how of the standard process to be adopted. The bigger challenge is the need, use and results are not well understood which leads to conflicts at various instances. Therefore, there is a need to introduce the relevance of the parameters, their importance and their role in environmental management. The effect of overall environment matrices with respect to environmental management requires trained manpower who is capable from sampling, monitoring, analysis and interpretation of results. In view of this, the proposed training program Environmental Monitoring as per EC Consent Requirements is broadly intended to provide, insights and knowledge required for enabling these in industrial set up. The specific aim of the training program is to enhance the capacities of the participants in managing the industries and environment. The main objectives are:

- To introduce the importance of parameters in environment matrix as mentioned in EC.
- To highlight the implications of the parameters mentioned in EC for sustainable environmental management.

COURSE CONTENTS

- Introduction on various parameters in EC for environment matrix for major industrial sectors
- Importance of the parameters for sustainable environmental management
- Identifying the sectoral differences in environment matrix monitoring
- Understanding the role of trained professionals for Compliance Monitoring and Reporting
- Sampling, monitoring, analysis and interpretation of results for EC environment matrix
- Best Practices for EC compliance reporting
- Identification of threshold indicator for the industry
- Managing the environment matrix parameters
- Risk associated with parameters of environment matrix
- Industrial disasters

VENUE: CSIR-NEERI's Delhi Zonal Centre, A-93-94, Naraina Industrial Area Phase-I, Delhi-110028.

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. 7,500/- + 18% GST**
- Registration Fee for Students: **Rs. 3,000/- + 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 25 seats only
- Last date of Registration: **January 22, 2023**

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. S. K. Goyal Chief Scientist & Head, DZC	Er. Ankit Gupta Senior Scientist, DZC	Er. Sunayana Senior Scientist, DZC

**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	Environmental Monitoring as per EC Consent Requirements
DATE(S), TIME AND VENUE	February 22-24,2023 and CSIR-NEERI, Delhi ZC
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

OBJECTIVES

The sustainable environmental management can be achieved through advanced methods and their selective adoption by industries. The bigger challenge lies in selection of sustainable solutions, which seems difficult initially because of less knowledge available. The adoption of such solutions needs trained manpower who is aware of the important issues, challenges and limitations. Therefore, knowledge of concepts like Carrying Capacity Assessment, Carbon footprint, Net zero/carbon neutrality, Life Cycle Assessment, ESG/ Sustainability assessment, Advanced Data Analytics will help in selecting and making decisions that are more informed. The specific aim of the training program is to introduce the upcoming environmental frontiers with a view to enhance the capacities of the participants in managing the industries and environment. The main objectives are:

- To introduce new concepts/frameworks for enhanced environmental management in industries.
- Highlighting the role of industries to adopt and achieve sustainable environmental management, thereby promoting compliance with competitiveness

COURSE CONTENTS

- Introduction on Sustainability reporting
- Sustainability and the Circular Economy
- Carbon and Water Foot printing
- Carbon Management and optimization
- Carbon Neutrality/Net zero action plans
- Life Cycle Assessment for Industrial Process
- Framework for Carrying Capacity Assessment
- Human Health Risk Assessment
- Environment Social Governance (ESG)
- Driving Industries towards the Sustainable Development Goals

VENUE: CSIR-NEERI's Delhi Zonal Centre, A-93-94, Naraina Industrial Area Phase-I, Delhi-110028.

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
- Last date of Registration: **February 01, 2023**

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. S. K. Goyal Chief Scientist & Head, DZC	Er. Ankit Gupta Senior Scientist, DZC	Er. Sunayana Senior Scientist, DZC

**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	Sustainable Industrial and Infrastructure Management
DATE(S), TIME AND VENUE	March 01-02,2023 and CSIR-NEERI, Delhi ZC
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

OBJECTIVES

A three-day training program, comprising of 2 days of lectures and 1 day in lab/field visit, will provide an overview on management of various solid and hazardous wastes to the participants.

COURSE CONTENTS

- Municipal Solid Waste Management
 - Regulations and Overview of Urban MSW Management
 - Treatment Options for MSW
 - Circular Economy towards MSW Management
- Management of other Solid Wastes
 - Plastic Waste – Regulation and Management
 - E- Waste – Regulation and Management
 - C&D Waste – Regulation and Management
 - Bio-medical Waste-Regulation and Management
- Hazardous Waste Management
 - Policy and Regulation of Hazardous Waste Management
 - Hazardous Waste Characterization Techniques
 - Overview of Hazardous Waste Management
 - Recycle and Circular Economy Prospects for Hazardous Wastes
- Case Studies, Lab Visits and Field Visits

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. 7,500/- + 18% GST**
- Registration Fee for Students: **Rs. 3,000/- + 18% GST** (No Fee for EWS Category)
- **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: **February 14, 2023**

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. M.P.Patil Chief Scientist & Head, CHWMD	Dr. Debishree Khan Scientist, CHWMD	Er. Jowin Joseph Scientist, CHWMD



**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	Solid and Hazardous Waste Management
DATE(S), TIME AND VENUE	March 14-16, 2023 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