



# Online Training Program on " Basics of Air Quality Monitoring and Management"

October 6 - 7 2020



## OBJECTIVES

Learning of air quality management involves understanding in multidisciplinary subjects namely atmospheric science, fluid mechanics, thermodynamics, mathematics, statistics and engineering. This will enhance the knowledge of participants for emission inventory, air quality monitoring, source monitoring, dispersion and receptor modelling followed by source apportionment. This particular training aims to create the basics for all these outcomes.

## COURSE CONTENTS

- Fundamentals of Air Pollution: Types of air pollution source, its effect on plant, human and material, case studies for each.
- Regulatory parameters of ambient air quality monitoring, measurement of Gaseous pollutants, SO<sub>2</sub>, NO<sub>x</sub>, NH<sub>3</sub>, CO, O<sub>3</sub> for regulatory requirements, Calibration curve.
- Monitoring of Particulate matter for regulatory compliance, research samplers, and demonstration of sampler using video.
- Source Monitoring: Operation of stack monitoring kit, Pitot tube, pressure measurement, Isokinetic sampling, regulatory monitoring, NO<sub>x</sub> and SO<sub>2</sub> measurement.
- Environmental Meteorology-I: role of meteorological parameter in dilution of pollutant in atmosphere, inversion, lapse rate, planetary boundary layer phenomena, wind rose, monitoring equipment.
- Environmental Meteorology - II: climate and weather, katabatic and anabatic winds, valley wind, land-sea breeze, B-V frequency, meteorology responsible for plume behavior.
- Environmental Statistics, types of distribution, t-test, ANOVA.
- Emission Inventory: Point, area, line, a case study of urban area in 2 km x 2km grid wise detail.

## MODE OF TRAINING

MS Team platform will be used to conduct online training program comprising various tools (audio/visual methods, live lectures, reading materials, Q&A session and interactions with resource persons etc.).

**REGISTRATION FEE:** The fee for Online Training is ₹2,000+18%GST.

## CERTIFICATE OF PARTICIPATION:

CSIR-NEERI issues a Certificate of Participation on successful completion of the training program.

**LAST DATE OF REGISTRATION :** SEPTEMBER 29, 2020

### DIRECTOR

**Dr. Rakesh Kumar**

Director  
CSIR -NEERI

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### PROGRAM CO-ORDINATOR

**Dr. Harshvardhan Singh**

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Training, Skill Development and  
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### COURSE CO-ORDINATOR

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"Basics of Air Quality Monitoring and Management"  
October 6 -7 ,2020.**



**Registration Form :**

|   |                 |  |
|---|-----------------|--|
| <b>Name of the Participant</b>          | :               |  |
| <b>Designation</b>                      | :               |  |
| <b>Organization</b>                     | :               |  |
| <b>Address</b>                          | :               |  |
| <b>Contact Details</b>                  | <b>Mobile :</b> |  |
|   | <b>Email:</b>   |  |
| <b>Registration Fee payment details</b> | :               |  |

**Mode of registration fees:**

**Online Fee for Training Program fee will be paid online through SBI Collect, through the link:**

<https://www.onlinesbi.com/sbicollect/icollecthome.htm>

Instructions for remittance of fee through State Bank Collect is shown below:

**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"

**NOTE:- Kindly send the filled registration form and fee payment details on email [skill.neeri@neeri.res.in](mailto:skill.neeri@neeri.res.in) for confirmation of participation..**