

Residential Training Programme on Soil Quality Assessment and Remediation

INTRODUCTION

Soil is one of the most important ecological factors derived from the surface rocks. This loose and friable material is a mixture of four major components: inorganic material, organic matter, water and air. In addition, soil has its own distinctive flora and fauna, which includes bacteria, fungi, algae, protozoa, actinomycetes, nematodes, earthworms etc. These organisms are important agents in increasing or decreasing soil fertility, in altering the physical texture of the soil and in attacking the roots of plants. All these biotic as well as abiotic components together, decide the soil quality, on which is dependent the whole food chain. Increase in industrialization/urbanization and indiscriminate land use during the past several years has resulted in extensive degradation of agricultural lands and creation of wastelands in India. Hence, any undesirable change in the basic composition of soil is called “soil pollution” which poses serious threat to human and environmental health.

Thus, in order to preserve the fertility and the productivity of the soil, 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 present course will be designed to provide technical expertise to the participants in the field of soil quality assessment and its remediation.

OBJECTIVES

The major objective of the training programme is to impart training on soil testing, field visit to remediation site and to make participants well acquainted with interpretation of data related to soil along with recommendations.

COURSE CONTENTS

- ➔ Introduction to Categories of Indian Soils
- ➔ Importance of Soil Testing
- ➔ Collection and Preservation of Soil Samples
- ➔ Preparation of Soil Samples for Laboratory Analysis
- ➔ Soil Quality Parameters : Physical, Chemical and Biological
- ➔ Recent Technologies adopted for Soil Remediation
- ➔ Visit to NABL Accredited Soil Testing Laboratory
- ➔ Hands on Training on Soil Analysis for various Physico-Chemical and Microbiological Parameters
- ➔ Validation of Standard Methods
- ➔ QA/QC Procedure in Analysis, Accuracy, Precision and Concepts of Uncertainty Measurement
- ➔ Preparation of Soil Test Report
- ➔ Field visit to Land Restoration Site at Manganese Mine, Gumgaon, MOIL Limited, Nagpur
- ➔ Discussions and Valedictory Function

DURATION

February 04-06, 2020 (Three Days)

LAST DATE OF REGISTRATION

January 20, 2020

COURSE FEE

Rs. 12,000/- (including GST) per participants which includes Lodging and Boarding Charges

VENUE

CSIR-NEERI, Nagpur

BANK DETAILS :

Bank Name : State Bank of India
Branch Name : NEERI
Address : Nehru Marg, Nagpur
Beneficiary A/c Name : Director, NEERI
Bank Account Number : 30266513766
IFSC Code : SBIN0004224

Note: Please send details of Bank / Wire transfer to email: skr_singh@neeri.res.in or ccsd.training@neeri.res.in for confirmation

Programme Directors

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February 04-06, 2020

Registration Form

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|--------------------------------|---|--|
| Name of the Participant | : | |
| Designation | : | |
| Organization | : | |
| Address | : | |
| Contact Details | : | Telephone Mobile e-mail |

FEE PARTICULARS

| | | |
|--|---|--|
| Whether Self Sponsored / Sponsor's (If sponsored, please provide details) | : | |
| Amount Payable | : | |
| Mode of Payment (Bank Transfer Details) | : | |
| Signature of the Participant with date: | : | |

Note:

Kindly e-mail the filled registration form to skr_singh@neeri.res.in / ccsd.training@neeri.res.in for confirmation