

NATIONAL TRAINING PROGRAMME

HARNESSING MICROBIAL RESOURCES FOR SOIL HEALTH AND SUSTAINABLE LAND MANAGEMENT

01–05 FEBRUARY 2027

Healthy soil • Beneficial microbes • Sustainable landscapes

COURSE DIRECTOR

Dr. M. Mohanty

COORDINATORS

Dr. Jyoti Kumar Thakur • Dr. Asit Mandal

Dr. Abinash Das • Dr. Deep Chandra Suyal

SPONSORED BY

**Centre of Excellence on Sustainable Land Management
Indian Council of Forestry Research and Education (ICFRE)
New Forest, Dehradun – 248006, Uttarakhand**

ORGANISED BY

**Division of Soil Biology
ICAR–Indian Institute of Soil Science
Nabibagh, Berasia Road, Bhopal – 462 038, Madhya Pradesh
NO TRAINING FEE | LIMITED TO 25 PARTICIPANTS**

WHY THIS TRAINING?

Practical knowledge for soil health and sustainable land management

Soil health is fundamental to sustainable agriculture, food security, environmental resilience and efficient land management. Soil microorganisms contribute to nutrient cycling, organic matter decomposition, soil structure formation, plant growth promotion and suppression of soil-borne diseases. Harnessing these resources can help restore soil health, improve nutrient-use efficiency and reduce dependence on external chemical inputs.

This national programme combines scientific understanding with practical applications of beneficial microorganisms in agriculture. It covers microbial ecosystem services, biofertilizer technologies, waste recycling, composting and sustainable farming practices, with hands-on activities and demonstrations.

TRAINING OBJECTIVES

- Strengthen understanding of soil microbiology and microbial roles in soil health.
- Promote practical application of biofertilizers, composting, waste recycling and other microbial technologies.
- Facilitate knowledge exchange to support wider adoption of microbial technologies and sustainable land management.

COURSE MODULES

I. Soil Microbial Diversity and Functions

Soil microbial diversity and ecology; microbial interactions and ecosystem services.

II. Microbes for Soil Health and Crop Production

Soil health indicators and plant growth-promoting microorganisms; hands-on isolation and screening of beneficial soil microbes.

III. Microbial Technologies and Bioinoculants

Bioinoculant formulation, preparation and quality assessment; hands-on preparation and application.

IV. Microbial Approaches for Organic Resource Management

Agrowaste recycling and management; quality assessment of organic manures; compost/agrowaste decomposition techniques.

V. Microbial Resources for Sustainable Land Management

Microbial approaches in natural and organic farming; demonstrations of microbial technologies and sustainable land management practices.

PARTICIPATION & LOGISTICS

National Training Programme • Bhopal, Madhya Pradesh

WHO CAN APPLY?

- Group A officers from MoEFCC, MoA&FW, MoRD, Jal Shakti, MoHUA, MAH&D, DoLR and other relevant ministries.
- Group A officers from State Government departments, including Forest, Agriculture, Horticulture, Soil Conservation, Animal Husbandry, Irrigation and Watershed Development.
- Subject Matter Specialists from Krishi Vigyan Kendras (KVKs).
- Representatives and professionals from Village Development Committees, NGOs, NABARD and other funding agencies.
- Progressive farmers, environmental activists and other relevant stakeholders.

FEE, TRAVEL & ACCOMMODATION

- No fee will be charged for the training programme.
- Food and accommodation for selected participants will be arranged by the host institute.
- Travel reimbursement for the to-and-fro journey to Bhopal by rail or bus via the shortest route will be provided as per entitlement, **subject to a maximum of AC-II tier train fare.**
- No cash payment in lieu of daily allowance will be provided to participants who decline the free boarding and lodging facilities.
- Please do not bring family members, as hostel facilities are limited.

IMPORTANT DATES

Application deadline	15 December 2026
Participant confirmation	30 December 2026

HOW TO APPLY

The number of participants is limited to 25. Applications may be sent by e-mail to the Course coordinators by the stated deadline. Selection will be on a first-come, first-served basis, subject to the prescribed organisational categories.

CONTACT

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APPLICATION FORM

National Training Programme on Harnessing Microbial Resources for Soil Health and Sustainable Land Management

Training dates: 01–05 February 2027

To be sent to the Course Coordinators of the training programme.

1. Full name (in block letters): _____

2. Designation: _____

3. Present employer and address: _____

4. Communication address: _____

E-mail: _____ Mobile: _____

5. Date of birth: _____

6. Sex: ☐ Male ☐ Female

7. List of related trainings/workshops attended in the last three years:

Date: _____ Place: _____

Signature of applicant: _____

RECOMMENDATION OF FORWARDING INSTITUTION (FOR GOVERNMENT EMPLOYEES)

Date: _____ Place: _____

Signature: _____ Designation: _____