International Training on

Integrated Approaches for Landscape Conservation: Achieving LDN and Carbon Neutrality

19-23 January, 2026

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Last Date to Apply: 15 November 2025

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Note : The training will be sponsored by CoE-SLM and travel & accommodation will be available to participants on need basis.

Centre of Excellence on Sustainable Land Management
Indian Council of Forestry Research and Education, Dehradun, India

Background

Land degradation, driven by deforestation, unsustainable land use, and urban expansion, is causing water scarcity, low productivity, biodiversity loss, and climate change, particularly in uplands inhabited by small and marginal farmers. This leads to poverty, malnutrition, and migration, agravating socio-economic challenges. The International Training on “Integrated Approaches for Landscape Conservation: Achieving LDN and Carbon Neutrality" at Centre of Excellence on Sustainable Land Management (CoE-SLM), Indian Council of Forestry Research and Education (ICFRE), Dehradun, Uttarakhand will equip participants with the knowledge, tools, and practical approaches needed to sustainably manage and restore landscapes, in alignment with the UNCCD Land Degradation Neutrality (LDN) targets and global carbon neutrality commitments. It blends scientific principles, policy frameworks, community-based strategies, and case studies for integrated landscape resource conservation.

Learning Objectives

- To bring together a wide range of stakeholders towards a landscape-based resource conservation approach aimed at achieving LDN and carbon neutrality.
- To present the concept of land resource inventory along with hydrology for the design and development of landscape-based resource conservation measures.
- To strengthen participants’ capacity in carbon sequestration strategies and MRV, with a focus on livelihood benefits and LDN targets.

Target Audience

- Natural resource managers
- Forestry and agriculture professionals
- Government and NGO staff working on land and climate projects
- Researchers, students and extension workers

Chief Patron

- Dr. Rajesh Sharma, Sci-G & Director, CoE-SLM

Patron

- Sh. Sanjeev Kumar, Sci-F & Head, CoE-SLM

Training Coordinator

- Dr. Hans Raj, Scientist-E, CoE-SLM

Course Coordinators

- Dr. Gaurav Mishra, Scientist-E, CoE-SLM
- Dr. Hans Raj, Scientist-E, CoE-SLM

Course Co-Coordinators

- Dr. Sanjay Singh, Scientist-E, CoE-SLM
- Dr. M K Singh, Scientist-E, CoE-SLM
- Dr. Krishna Giri, Scientist-E, CoE-SLM
- Dr. Manoj Kumar, Scientist-D, CoE-SLM

Organizing Committee

- Dr. Tanay Barman, Research Associate
- Dr. Arpit Huria, Research Associate
- Sh. Ajay Chauhan, Research Associate
- Dr. Divesh Pangtey, Research Associate
- Dr. Ashish K Yadav, Research Associate
- Sh. Vinod Kumar, Senior Techician

About the Venue: CoE-SLM, ICFRE, Dehradun, Uttarakhand, India

The Centre of Excellence on Sustainable Land Management (CoE-SLM), established at ICFRE after the Hon’ble Prime Minister’s COP 14 UNCCD announcement and inaugurated on 20 May 2023, supports India and other UNCCD member countries in achieving Land Degradation Neutrality. It promotes sustainable land practices, fosters South–South cooperation, and leverages ICFRE’s research network for capacity building and upscaling best practices. As a hub for land rehabilitation and ecosystem restoration, CoE-SLM conducts trainings in Dehradun’s scenic Doon Valley. In January, the weather is cold (10°C–15°C by day, 5°C–8°C at night); participants should bring warm clothing and jackets.

For more information, contact:

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Course Outline

Module 1 Sustainable Foundations: From LDN to Carbon Neutral Landscape

Session 1: Understanding LDN framework: Indicators, Baseline and Neutrality target
Session 2: The science of Carbon Neutrality: Approaches, Synergies and Challenges
Session 3: Linkages between land, biodiversity and climate commitments (UNCCD, CBD, UNFCCC)

Module 2 Landscape Resource Assessment and Management

Session 1: Tools for Land Degradation Assessment (Trends.Earth, SEPAL, Collect Earth etc.)
Session 2: Land Resource Inventory (LRI) approach for Soil and Water Resource Mapping and Monitoring
Session 3: Nature-Based Solutions (NbS) and Ecosystem Services: Concepts, Quantification, and Trade-Offs
Session 4: Concept of Climate-resilient agriculture and landscape restoration

Module 3 Carbon-Conscious Land Management Approaches

Session 1: Forestry Based Strategies for Enhanced Carbon Sequestration
Session 2: Sustainable Approaches for Soil Carbon Sequestration and Soil health management
Session 3: Linking Carbon Sequestration Practices with Rural Livelihood Enhancement
Session 4: Measurement, Reporting, and Verification Approaches for Carbon tradeoffs

Field visit of Landscape Restoration Site or Community-led Conservation Project

Module 4 Policy Pathways for Land Restoration and Carbon Neutrality

Session 1: National and subnational policy frameworks for achieving LDN
Session 2: Integrating Science and Policy for Sustainable Land Resource Management
Session 3: Best practices from successful LDN and Carbon neutrality projects