



Report of Three Days Training Programme On Sustainable Land Management practices for Restoration of Degraded Himalayan Ecosystems Venue: ICFRE- HFRI, Shimla (Dated: December 18-20, 2024)

ICFRE-Himalayan Forest Research Institute, Shimla conducted a three days training programme on 'Sustainable Land Management practices for Restoration of degraded Himalayan Ecosystems' for the officers of different line departments of Himachal Pradesh and Jammu & Kashmir UT. Total twenty one(21) officers including Assistant Conservator of Forests (ACFs), Agriculture Development Officers (ADOs), Agriculture Extension Officers (AEOs), Horticulture Development Officers (HDOs), Horticulture Extension Officers (HEOs), Sub-divisional Officers (SDOs) & Junior Engineers representing the Forest, Agriculture, Horticulture, Public Works Department (P.W.D) and IPH participated in the training programme organised from 18-20 December, 2024. The training programme was sponsored by Centre of Excellence on Sustainable Land Development (CoESLM), ICFRE, Dehradun. **Dr. Sanjay Sood**, IFS, Additional Principal Chief Conservator of Forests (APCCF), H.P. State Forest Department presided over the inaugural session of the training programme on dated 18.12.2024.

Day- 1 (18.12.2024)

Inaugural Session: At the start, **Dr. Sandeep Sharma**, Director, HFRI extended warm welcome to the chief guest and participants. Highlighting the context of training programme, he said that land degradation is a major problem affecting a large number of people across the globe. He informed that Centre of Excellence on Sustainable Land Development (CoESLM), Dehradun is nodal agency at country level working for addressing the concerns of land degradation and coordinating efforts for management of land resources sustainably. He told that 3-day's training programme organized by HFRI is also a part of the capacity building activities carried out by CoESLM in different regions of the country to shore up efforts for achieving land degradation neutrality targets. In his address, he also shared views on the geomorphological formations of Himalayan ecosystems and also briefly outlined suitable measures like local agroforestry models, slope stabilization, watershed management practices and eco-friendly infrastructure development required for management of degraded Himalayan ecosystems.





Dr. RK Verma (Training Coordinator)
Briefing training module

Subsequently, **Dr. RK Verma, Scientist-G & Training Co-coordinator** presented overview of training in the nutshell and explained crux of different topics to be covered in the training module. He informed that resources person/experts from CoESLM and reputed scientists from Research institutes including DRDO-Defence Institute of High Attitude Research(DIHAR), ICAR-Indian Institute of Soil & Water Conservation, Research Centre, Chandigarh and academicians from University of Horticulture and forestry (UHF), Nauni would interact with the participants and share knowledge/ experiences focussing on multi-pronged and multi-disciplinary nature of sustainable land management practices particularly for

the fragile Himalayan region. He further told that the training programme aimed at bringing professionals from different fields together and enhance synergetic efforts, foster coordination to manage land resources effectively. He added that apart from the talks of experts/resource persons, one day has been fixed for field visit to UHF Nauni, Solan with the purpose of imparting practical knowledge on various innovative technologies developed by the university, and role of community in management of natural resources, etc.



Participants of the training programme

In his in-augural address, **Dr. Sanjay Sood, IFS, APCCF, H.P. State Forest Department** initially bring about the significance of vital natural resources and explicitly narrated the plenty of services provided by these resources to mankind. He told that as mentioned in our Vedas and Upanishads, the essence of life is governed by five essentials elements—earth, ether, air, fire and water. In his impressive talk, he also shared some excerpts featuring the perfect balance of five elements required for our existence. Expressing serious concerns on the fast rate of land degradation he said that it is a grave problem for the policy makers, people, stakeholders and requires urgent attention. He stressed that due to the challenge of land degradation, the future of human beings is at stake. He further told that Indian Himalayan region is no exception to this challenge and a variety of factors like deforestation, agricultural activities, rapid developmental works, over-exploitation of resources, excessive use of chemicals, grazing pressure, flash floods, and landslides are responsible for rapid degradation of land resources in hilly areas.



Chief Guest's Inaugural Speech

Realising the ecologically sensitive nature of Himalayan Ecosystem, he suggested the interventions for management of resources should be purely on scientific lines as plantation activities should be done according to climatic zones, species and site selection should be very particular and flawless.

He opined that the topic of the training programme is very relevant and help in developing a solid understanding amongst the participants about the effective practices of sustainable land management. He appreciated the initiatives of Centre of Excellence on Sustainable Land Management (CoESLM), Dehradun and Himalayan Forest Research Institute (HFRI) for selecting such an important topic for the training programme. He hoped that learnings from the three days training programme will definitely add to the knowledge and skills of the professionals. Finally, at the end of the in-augural session, Dr. Ranjeet Kumar, Scientist-F proposed the formal vote of thanks. Smt. Shilpa, CTO, conducted the proceedings of the in-augural session.



Dr. Ranjeet Kumar, Sc.-F



Ms. Shilpa, CTO

Technical Session: The session starts with the presentation of **Dr. Manish Kumar Singh**, Scientist–E & domain expert from CoESLM, sharing his talk on Land Degradation Neutrality (LDN) as a means to achieve Sustainable Development Goals. In his presentation, **Dr. Singh** nicely explained the concept of land degradation, provided insights about land degradation neutrality and linkages with the Sustainable development goals (SDGs) in purview of UN agenda 2030. He also disused the multifarious initiatives/activities of CoESLM take up so far in this direction. After that, **Dr. Tanay Barman**, other expert from CoESLM interacted with the participants and delivered a talk on National Action Plan for achieving Land Degradation Neutrality (LDN). He mainly disused the key indicators, major challenges and consequences of land degradation in light of UNCCD framework. He explicitly elaborated broad objectives set forth by CoESLM for assessing the land degradation and capacity building on sustainable land management.



Dr. Manish Kumar Singh (CoESLM, Expert)



Dr. Tanay Barman (CoESLM, Expert)

In continuation with this, **Sh. Ajay Chauhan** shared his presentation on the topic addressing Land Degradation Challenges within the UNCCD Framework. Later on, **Dr. Tsering Stobdan**, Senior Scientist from DRDO-Defence Institute of High Attitude Research (DIHAR), Leh (Ladakh UT) shared a nice presentation on winter farming technologies. He highlighted the limitations of traditional cropping systems in remote areas and elaborated upon the different innovative technologies and customisation of existing farming techniques developed specially for trans-Himalayan cold deserts region. In his illustrative presentation, he also shared success stories testifying the useful application of these technologies in farmers field. Lastly, interactive session was held at the end of the first day proceedings and all the participants showed their active involvement putting different queries related to the topics discussed in the technical session. The resources persons answered the questions satisfactorily.

Day Two (19.12.2024)

Exposure Visit: The second day of training programme was fixed for organizing the field visit for providing tangible experiences on progressive interventions for effective land use, communities participation in managing land resources. **Dr. R.K.Verma, Training Coordinator**, Sh. Shyam Sunder, Technical Assistant and Sh. Arun Kaushal coordinated the field visit. Firstly, the participants were taken to Horticultural Research & Training Station and KVK, Solan at Kandaghat. **Dr.Amit Vikram, Principal Sci. & Head** of station gave a detailed presentation on the agricultural technologies under various farming systems and community linked activities of station. The participants also visited the farms of the station to see cultivation techniques, horticultural practices, pruning & cutting methods, of different fruit bearing plants, etc. Thereafter, they visited university of Horticulture and Forestry (UHF) Nauni. **Dr.Kiran** explained about the various standardised techniques, post-harvest technologies and water harvesting developed by UHF. Besides, Scientists/Experts



Field Visit to UHF Nauni

from Fruit Science, Vegetables, Soil & Water Conservation departments of University provided in-depth knowledge about the on-going R&D activities. The participants were also taken to the research farms/experimental plots and apprised about the cultivation in green house, underground trenches/poly tunnels cultivation, on-going research activities/trials and kiwi farms, etc. All the participants appreciated the exposure visit and expressed their satisfaction on closely witnessing the different R&D activities of University.

Day Three (20.12.2024)

Technical Session: On the third day of the training programme, first of all, **Dr. Pankaj Panwar**, Principal Scientist, ICAR-Indian Institute of Soil and Water Conservation, Research Centre, Chandigarh gave a impactful and informative presentation on Soil and Water Conservation Techniques for Himalayan Ecosystems. He discussed the concept of land degradation and primarily emphasised upon the problem of soil erosion in Himalayan perspective. Further, the resource person elaborate various scientific interventions and using planting tree and grass species in combination for reducing run-off and checking soil erosion. Apart from that, he also shared useful insights about the soil and water conservation measures suitable for different ecological zones of Himachal Pradesh.



Dr. Pankaj Panwar, Pr. Sci. (ICAR-IISWCRC)

Then, **Dr. DR Bhardwaj** Prof. & Head Department of Silviculture and Agroforestry College of Forestry, UHF, Nauni delivered a talk on topic Agro-forestry Practices in Higher Altitude. He apprised the participants about role of agro-forestry in sustainable management of land and its associated multiple benefits. He effectively explained how agroforestry land use turns out to be win-win scenario, and it buttress the entire ecosystem by improving the soil health, increasing productivity, enhancing carbon sequestration, biodiversity conservation etc.



Dr. DR Bhardwaj, Professor & Head (UHF, Nauni)

The next talk of this session was given by Dr. Naveen Sharma, Associate Professor, Deptt. of Fruit Science, UHF Nauni. The topic of his presentation was Horticultural crops for the higher altitude, increasing productivity and sustainable livelihood. In his presentation, he put together useful information and discussed about important linkages between fruit cultivar varieties and productivity. increasing the productivity. The resource person also shared knowledge on Apple cultivars, Varieties of Apricots, Plums and Stone fruits.



Dr. Naveen Sharma, Asso. Prof. (UHF, Nauni)

Lastly, **Dr.Sandeep Sharma**, Director, HFRI shared an interesting talk on NWFP management for the upliftment of local livelihood. He mainly talked about the role of on wood Forest products and medicinal plants for benefits of communities. He necessiated the need of initiatives for augmenting rural income through medicinal plant cultivation. During the whole technical session, participants complemented the process of knowledge sharing by raising queries and having one to one interaction with the resource persons.



Dr. Sandeep Sharma, Director (ICFRE-HFRI)

Valedictory Session:

Sh.R.L.Sanga, IFS,APCCF, H.P. State Forest Department chaired the proceedings of valedictory session of the training programme. Besides this, scientists and officers of institute were also present. Initially, the participants shared their experiences and expressed their reviews/feedback about the training programme. All together, all were happy to take part in the training programme and gain knowledge on nitty gritty of the sustainable land management. They expressed their gratitude to the ICFRE-HFRI, Shimla for organizing this Training Program. **Dr.R.K. Verma, Sci.-G & Training Coordinator**, all the participants for their active participation and showing keen interest in lectures delivered on the topics. He assured that the suggestions of the Land participants will be incorporated in the future training programmes.

In his address, Chief Guest also congratulated the organisers for conducting the training programme successfully. He hoped that professionals from diverse field would be benefited from this training programme. He advised all training participants to implement the learning gained from the training programme in their area. Then, certificates of participation were distributed to the participants by the chief guest. Miss. Shilpa, Chief Technical Officer compered the valedictory session and Sh. Dushyant Kr., Sr.Technical Officer moderated technical sessions of the training programme. Finally, the three days training programme ended with customary vote of thanks proposed by Sh. Dushyant Kr.



Distribution of Certificates



MEDIA COVERAGE

भू-संसाधनों का अत्यधिक दोहन कर लोगों ने अपने अस्तित्व को खुद खतरे में डाला : डा. संजय बोले, भू-संसाधनों के क्षरण से विश्व में भोजन सुरक्षा व आजीविका की पैदा हो रही समस्या

जलीय पारितंत्र निःस्वार्थ भाव से मानव मात्र की सेवा कर रहे हैं।

प्रशिक्षण कार्यक्रम में वन विभाग से सहायक वन अरण्यपाल, कृषि विभाग से कृषि विकास अधिकारी, उद्यान विभाग से बागवानी विकास अधिकारी और लोक निर्माण विभाग से एस.डी.ओ. तथा कनिष्ठ अभियंता स्तर के 21 अधिकारी भाग ले रहे हैं। इस प्रशिक्षण कार्यक्रम में भारतीय वानिकी अनुसंधान एवं शिक्षा परिषद देहरादून के सेंटर ऑफ एक्सलेंस फॉर सस्टेनेबल लैंड मैनेजमेंट द्वारा प्रायोजित किया जा रहा है।

कार्यक्रम के आरंभ में संस्थान के निदेशक डा. संदीप शर्मा ने कहा कि सेंटर ऑफ एक्सलेंस फॉर सस्टेनेबल लैंड मैनेजमेंट अखिल भारतीय स्तर पर भूमि क्षरण को रोकने और सतत भूमि प्रबंधन के कार्य प्रमुखता से कर रहा है। उन्होंने हिमालय पारितंत्र के परिपेक्ष्य में कारगर भू-प्रबंधन रणनीतियों, कृषि वानिकी, ढलान स्थिरीकरण और वाटरशेड प्रबंधन के महत्व को भी उजागर किया। एच.एफ.आर.आई. के वरिष्ठ वैज्ञानिक और प्रशिक्षण कार्यक्रम के समन्वयक डा. आर.के. वर्मा ने प्रशिक्षण कार्यक्रम के बारे में जानकारी दी।

शिमला, 18 दिसम्बर (भूपिन्द्र): वन विभाग के अतिरिक्त प्रधान मुख्य अरण्यपाल डा. संजय सूद ने कहा कि मनुष्यों ने विभिन्न तरीकों से भू-संसाधनों का अत्यधिक दोहन करके स्वयं अपने अस्तित्व को ही खतरे में डाल दिया है। उन्होंने कहा कि आज विश्व भर में भू-संसाधनों के हो रहे क्षरण के कारण अरबों लोगों के भोजन सुरक्षा और आजीविका की बड़ी समस्या पैदा हो रही है। यह बात उन्होंने बुधवार को हिमालय वन अनुसंधान संस्थान शिमला में हिमाचल प्रदेश और जम्मू-कश्मीर के विभिन्न विभागों के अधिकारियों के लिए आयोजित हिमालय के क्षरित पारिस्थितिक तंत्र के पुनः स्थापन के लिए सतत भूमि प्रबंधन कारगर पद्धतियों विषय पर आयोजित तीन दिवसीय प्रशिक्षण कार्यक्रम के शुभारंभ करते हुए कही। उन्होंने प्राकृतिक संसाधनों के महत्ता को उजागर करते हुए कहा कि सदियों से भूमि, वन और

भू-संसाधनों के दोहन से मानव जीवन खतरे में

हिमालय वन अनुसंधान संस्थान में शुरू हुआ प्रशिक्षण शिविर

विशेष संवाददाता-शिमला

अतिरिक्त प्रधान मुख्य अरण्यपाल डा. संजय सूद ने कहा कि मनुष्य ने विभिन्न तरीकों से भू-संसाधनों का अत्यधिक दोहन कर अपने अस्तित्व को ही खतरे में डाल दिया है। सदियों से भूमि, वन और जलीय पारितंत्र निःस्वार्थ भाव से मानव मात्र की सेवा कर रहे हैं। उन्होंने जीवन के लिए पांच महाभूतों पृथ्वी, जल, आकाश, अग्नि और वायु को संतुलित समन्वय स्थापित पर जोर दिया। मुख्यातिथि ने कहा कि आज विश्व भर में भू-संसाधनों के हो रहे क्षरण के कारण अरबों लोगों के भोजन सुरक्षा और आजीविका की बड़ी समस्या पैदा कर दे रहे हैं। उन्होंने संतोष व्यक्त करते हुए कहा कि निश्चित तौर पर स्थापित सेंटर ऑफ एक्सलेंस फॉर सस्टेनेबल लैंड मैनेजमेंट, देहरादून और हिमालय वन अनुसंधान संस्थान के संयुक्त तत्त्वावधान में आयोजित किए जा रहा प्रशिक्षण कार्यक्रम

प्रामाणिक और व्यवहारिक है। डा. संजय सूद ने कहा कि इस प्रशिक्षण से प्राप्त ज्ञान और अनुभवों से उन्हें अपने-अपने कार्यक्षेत्रों में सतत भूमि प्रबंधन के प्रयासों को और अधिक सुदृढ़ तेज करने में अवश्य ही मदद मिलेगी। वे बुधवार को हिमालय वन अनुसंधान संस्थान में शुरू हुए हिमाचल प्रदेश और जम्मू-कश्मीर के विभिन्न विभागों के अधिकारियों के तीन दिवसीय प्रशिक्षण कार्यक्रम को संबोधित कर रहे थे। इस प्रशिक्षण कार्यक्रम में वन विभाग से सहायक वन अरण्यपाल, कृषि विभाग से बागवानी विकास अधिकारी और पौडब्ल्यूडी से एसडीओ और कनिष्ठ अभियंता स्तर के 21 अधिकारी भाग ले रहे हैं। प्रशिक्षण कार्यक्रम भारतीय वानिकी अनुसंधान और शिक्षा परिषद, देहरादून में स्थापित सेंटर ऑफ एक्सलेंस फॉर सस्टेनेबल लैंड मैनेजमेंट, द्वारा प्रायोजित किया जा रहा है।

निदेशक ने सभी प्रतिभागियों का किया स्वागत

संस्थान के निदेशक डा. संदीप शर्मा ने मुख्यातिथि और सभी प्रतिभागियों का स्वागत किया। प्रधानमंत्री नरेंद्र मोदी ने 2019 में नई दिल्ली में आयोजित कौन्फ्रेंस ऑफ पाटी सम्मेलन के दौरान भारतीय वानिकी अनुसंधान और शिक्षा परिषद में सेंटर ऑफ एक्सलेंस फॉर सस्टेनेबल लैंड मैनेजमेंट को स्थापित करने की पहल की गई। वर्तमान में यह केंद्र अखिल भारतीय स्तर पर भूमि क्षरण को रोकने और सतत भूमि प्रबंधन के प्रयासों को समन्वित करने में प्रमुखता से कार्य कर रहा है।

दिव्य हिमाचल

अनुसंधान संस्थान में प्रशिक्षण शिविर शुरू

शिमला। हिमालय वन अनुसंधान संस्थान पंथाघाटी में भूमि प्रबंधन कारगर पद्धतियों विषय पर तीन दिवसीय प्रशिक्षण शिविर बुधवार को शुरू हो गया। प्रशिक्षण कार्यक्रम भारतीय वानिकी अनुसंधान एवं शिक्षा परिषद देहरादून का सेंटर ऑफ एक्सलेंस फॉर सस्टेनेबल लैंड मैनेजमेंट करवा रहा है। वन विभाग के अतिरिक्त प्रधान मुख्य अरण्यपाल (आईएफएस) डॉ. संजय सूद ने कार्यक्रम में बतौर मुख्य अमर उजाला

पंजाब केसरी

<https://himbmail.com/home/latest/hfri-train-manpower>

HFRI Train Manpower to Restore Degraded Himalayan Ecosystems

HFRI Organizes Training on Sustainable Land Management to Restore Degraded Himalayan Ecosystems...

Shimla, December 18: A three-day training program on "Sustainable Land Management Practices for Restoration of Degraded Himalayan Ecosystems" commenced today at the Himalayan Forest Research Institute (HFRI), Shimla.

The programme aimed at

अत्याधिक दोहन से स्वयं का अस्तित्व खतरे में

शिमला : वन विभाग के अतिरिक्त प्रधान मुख्य अरण्यपाल डा. संजय सूद ने कहा कि मनुष्य ने विभिन्न तरीकों से भू-संसाधनों का अत्याधिक दोहन कर स्वयं के अस्तित्व को ही खतरे में डाल दिया है। बुधवार को हिमालय वन अनुसंधान संस्थान शिमला में हिमाचल और जम्मू-कश्मीर के विभिन्न विभागों के अधिकारियों के लिए आयोजित 'हिमालय के क्षरित पारिस्थितिक तंत्र के पुनः स्थापन के लिए सतत भूमि प्रबंधन कारगर पद्धतियों विषय पर आयोजित तीन दिवसीय प्रशिक्षण कार्यक्रम के शुभारंभ पर कही। उन्होंने कहा कि सेंटर ऑफ एक्सलेंस फॉर सस्टेनेबल लैंड मैनेजमेंट देहरादून और हिमालय वन अनुसंधान संस्थान के संयुक्त तत्त्वावधान में आयोजित प्रशिक्षण कार्यक्रम व्यावहारिक है। इस प्रशिक्षण कार्यक्रम में सहायक वन अरण्यपाल, कृषि विकास अधिकारी, बागवानी विकास अधिकारी और लोक निर्माण विभाग से एसडीओ तथा कनिष्ठ अभियंता स्तर के 21 अधिकारी भाग ले रहे हैं। संस्थान के निदेशक डा. संदीप शर्मा ने कहा कि सेंटर ऑफ एक्सलेंस फॉर सस्टेनेबल लैंड मैनेजमेंट अखिल भारतीय स्तर पर भूमि क्षरण को रोकने और सतत भूमि प्रबंधन के कार्य प्रमुखता से कर रहा है। एच.एफ.आर.आई. के वरिष्ठ वैज्ञानिक और प्रशिक्षण कार्यक्रम के समन्वयक डा. आर.के. वर्मा ने जानकारी दी। (रश्मि)

दैनिक जागरण