A three-days training programme of "Eco-restoration of Mined out Areas and Wastelands" was organized by the Himalayan Forest Research Institute, Shimla from 12th to 14th December, 2018 for the other stakeholders which was funded by the Ministry of Environment, Forests and Climate Change (MOEF&CC), Govt. of India, New Delhi. About 30 participants from various organisations viz., teachers and students from the esteemed educational institutions, representatives of the local bodies, personnel of the ITBP and Eco-task force, technical personnel of the research institutes, members of Joint Forest Management Committees, NGOs and media persons etc. participated in this training programme. The main intent behind this programme was to create awareness amongst the functionaries of these services with reference to the needs and techniques of Eco-restoration of Mined out Areas and Wastelands.

The training programme was inaugurated by Dr. V.P. Tewari, Director, Himalayan Forest Research Institute, Shimla. During his inaugural address, Dr. Tewari apprised the participants that the Himalayan Forest Research Institute, besides carrying out the research activities, imparts the training programmes for the overall benefit of the stakeholders from varied spheres of the life from time to time. Dr. Tewari said that Eco-restoration of Wastelands hold the key for productivity enhancement and efforts needs to be directed for developing suitable technologies for resource conservation, management of the degraded & wasteland and transferring the knowledge to the end users. The scientifically sound afforestation technologies assume immense significance to put these lands for productive use. The common folk always remain the focus of the research projects and programmes of this institute.
He further informed that the Institute is working in tune with the National mandate and as per the present day requirements of the general public. In line with this, the Institute is organizing this three days training-cum-demonstration programme for the other stakeholders so that they can find the ways and the means to orient the process of the policy formulation in this direction and the cause of the humanity can be suitably addressed. He reiterated the need of transforming the Lab research to the Land and ultimately to the common masses.

The Course Director of this training programme Dr. R.K. Verma, briefly presented an overview of the three- day long event and apprised all the participants about the schedule of the presentations and the field visit to Mining Areas of Ambuja Cement Factory Darlaghat, District Solan (HP) so as to show the plantation activities done by the institute in the mined out areas. Dr. Verma also provided information about the work done by the institute with respect to nursery and plantation techniques for eco-rehabilitation of limestone mined areas and other degraded areas of Shiwalik Hills. He also elaborated upon trees and shrubs species suitable for eco-rehabilitation of degraded areas of different zones of Himachal Pradesh.

Dr. Sandeep Sharma, Scientist, HFRI, Shimla apprised the participants about the establishment of Nursery and its varied aspects. He also provided valuable information on the vermin-compost and its importance in the amplification of the fertility status of the soil. Dr V.R.R. Singh, PCCF, HP Forest Department gave his presentation on mining resources in the state of Himachal Pradesh, existing acts & rules for mining as well as restoration works done by the H.P. state forest department.

This was followed by presentations of the Experts and the Resource Persons of various organizations.
Dr. Ranjana Arya, GCR, Arid Forest Research Institute, Jodhpur gave an explicit and elaborate presentation on the Technologies for Resource Conservation and Management of the Degraded and Wastelands. Dr. Vaneet Jishtu, Scientist, HFRI gave a descriptive presentation on plant species suitable for combating the different types of pollution. Sh. Jagdish Singh, Scientist, HFRI highlighted the significance of the Paulownia in the rehabilitation and management of the wastelands in view of its fast growing nature and multifarious uses. Dr. Ranjeet Kumar, Scientist, HFRI, Shimla briefed about trees and shrubs species having high potential to reclaim and eco-rehabilitate the waste and degraded lands.

On the second day, participants were taken to Ambuja Cement Factory- Kashlog Mining Site, where they got the tangible information about the process of mining and subsequent by products of mining as well as the after-effects of the mining especially on the Land resources. Besides this, the participants saw the interventions made by the HFRI in the mined out area for Eco-restoration of mined out areas with the help of the species viz., Aonla (Embla Officinalis), Khair (Acacia catechu), Dodonea (Dodonea viscosa), Poplar (Populus deltoidea), Daru (Punica granatum), Ramban (Agave americana) etc.

On the third day of the training, Dr Ashwani Tapwal, Scientist, HFRI, Shimla gave an elaborate presentation on Role of the Mycorrhiza in the nursery and establishment of plantation in mined out areas and wastelands. This was followed by educative and illustrative presentation of Dr. R.S. Thapa, Principal Scientific Officer, HIMCOST, Shimla on application of Remote Sensing & GIS techniques for classification of wastelands. Dr Rajesh Kaushal, Professor, University of Horticulture & Forestry, Nauni, Solan gave a detail presentation on management of degraded & wasteland
through Horticulture & Agroforestry interventions. After that, Sh P.S. Negi, Scientist, HFRI gave a presentation on various aspects of seed & nursery techniques for raising *Juniperus polycarpos* for plantation in cold deserts & wastelands.

During the plenary session of the programme, Dr. V.P. Tewari, Director, HFRI distributed the Certificates to all the participants and thanked them for giving their valuable time and making this programme successful. Feedback was also taken from the participants of the training programme to compile the valuable and important suggestions in futuristic research training programmes. All the participants complemented the organizers for providing awareness and sensitization on such an important and relevant topic and hoped that the institute will come forward with such training programmes for stakeholder in future too.

In the end, Dr. R.K. Verma, the Course Director of this Training Programme thanked one and all and announced the ending of this three - days training programme with a note to continue the interactions for the better and sustained management of the resources.
बजर भूमि का पारिस्थितिक पुन: स्थापन पर कार्यशाला हुई शुरू

स्थापन पर कार्यशाला हुई शुरू
विभिन्न क्षेत्रों के 30 प्रतिभावान हिस्सा लें रहे हिस्सा

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कार्यशाला का आयोजन

कार्यशाला का आयोजन
शिमला, 12 दिसम्बर (ब्यूरो): हिमालयन वन अनुसंधान संस्थान शिमला (एच.एफ.आर.आई.) में बुधवार को 3 दिवसीय प्रशिक्षण कार्यक्रम शुरू हुआ। आयोजक क्षेत्रों की पारिस्थितिक पुन: स्थापना विषय पर आयोजित कार्यशाला का शुभारंभ निदेशक एच.एफ.आर.आई. डा. चो.पी. तिवारी ने किया। डा. चो.पी. तिवारी ने कहा कि वास्तव में देश के लगभग 23 प्रतिशत भाग पर आच्छादित वन संसदा अपने अंदर कई मूल्यों को समाहित किए हुए हैं।