

ICFRE, CIL sign MoU to support scientific research

The Himachal Times 2/9/16

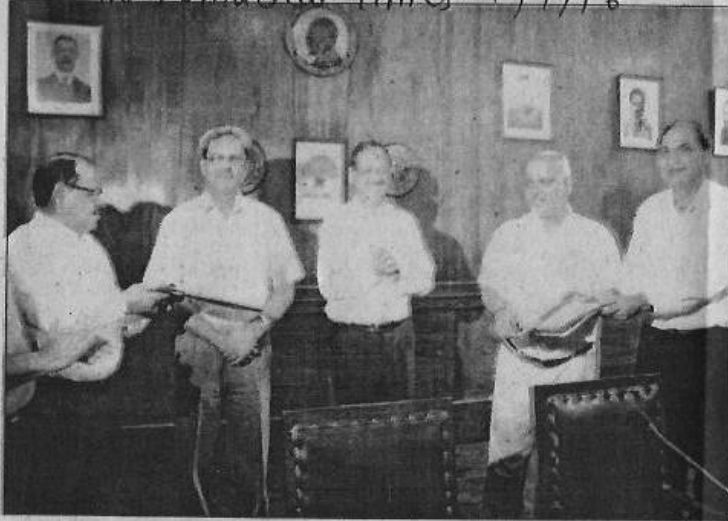
DEHRADUN, SEP 1 (HTNS)

Indian Council of Forestry Research and Education (ICFRE), an autonomous body under Ministry of Environment, Forests and Climate Change, Govt. of India, is the apex body in national forestry research system, which has been undertaking the holistic development of forestry research through need based planning, promoting, conducting and coordinating research, education and extension covering all aspects of forestry.

Coal India Limited (CIL) is a 'Maharatna' Public Sector Undertaking under the administrative control of Ministry of Coal (MoC), Government of India with headquarters at Kolkata, West Bengal is the single largest coal producing com-

pany in the world. ICFRE and CIL have entered into a Memorandum of Understanding (MoU), to support scientific and academic research, education and extension in the field of forestry and environment and providing support for assessing and monitoring the environmental compliance of individual mine, here today.

The main areas of future collaboration between ICFRE and CIL proposed to be covered under the MoU are, third party environmental audit of coal mines as per conditions imposed while granting EC and FC; Assessment and monitoring of plantation and eco-restoration activities carried out by coal companies, other than plantations raised by State Forest Departments under CAMPA as per the conditions laid



plans for coal mines/coal fields; Preparation of environmental impact assessment (EIA) and environmental management plan (EMP); Training programmes for executives of CIL on environment and forestry issues; Any other activity related to environmental and forestry issues.

by MoEF&CC and State Government; Preparation of wildlife management

plans for coal mines/coal fields; Preparation of environmental impact assessment (EIA) and environmental management plan (EMP); Training programmes for executives of CIL on environment and forestry issues; Any other activity related to environmental and forestry issues.

The MoU was signed by Sudhir Kumar, ADG (EM) on behalf of ICFRE and Niranjan Das, CGM (Environment) on behalf of CIL.

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एफआरआइ ने खोजी दुश्मन कीटों के परजीवी कीटों की 12 प्रजातियां

2/9/16

पाँपलर-यूकेलिप्टस के दुश्मन कीट के दुश्मन खोजे



सुमन सेमवाल, देहरादून

चार साल के अथक प्रयास के बाद वन अनुसंधान संस्थान (एफआरआइ) के वैज्ञानिक उस क्रांतिकारी शोध को मुकाम देने वाले हैं, जिससे पाँपलर व यूकेलिप्टस उत्पादन की गति बड़ जाएगी और कीट व्याधियों का स्थायी समाधान भी मिल जाएगा। वह भी बिना हानिकारक रसायनों के

- इन प्रजातियों की लेब में बढ़ाई जा रही संख्या, हर साल चार करोड़ तक परजीवी बनेंगे
- पेड़ों की पतियों को चट कर उसका विकास प्रभावित करने वाले लेग का हो सकेगा स्थायी समाधान



परजीवी कीट ट्राइकोग्रेमा।

के विकास को क्लोस्टेर फल्यूरिय व क्लोस्टेर क्युपरिया नामक कीट 40 फीसद

तक घटा देता है। ये कीट पेड़ों की पतियों को चट कर उसे नंगा कर देते हैं। इनका प्रकोप आम हो चला है। इन कीट व्याधियों के प्राकृतिक तगेके से समाधान के लिए एफआरआइ की वन कीट डिविजन ने वर्ष 2012 में शोध शुरू किया।

डिविजन के वरिष्ठ वैज्ञानिक डॉ. मो यूसुफ ने बताया कि रोग का समाधान अब खोज निकाला गया है। संस्थान ने पाँपलर-यूकेलिप्टस के दुश्मन कीटों का खतमा करने वाले परजीवी कीट ट्राइकोग्रेमा की 12 प्रजातियों को बूँद निकाला है। ये परजीवी कीट पाँपलर-यूकेलिप्टस के दुश्मन कीटों के अंडों के भीतर अपना अंडा छोड़ देते हैं। फिर इनके लारवा दुश्मन कीट के अंडों को खाकर उसे

सरकार से निर्देश मिलते ही छोड़े जाएंगे कीट

एफआरआइ के वैज्ञानिक डॉ. यूसुफ ने बताया कि केंद्र सरकार से निर्देश मिलते ही प्रयोगशाला में तैयार किए गए कीटों को खेतों में छोड़ दिया जाएगा। सबसे खास बात यह कि दुश्मन कीटों का सफाया करने के बाद परजीवी कीट स्वयं भी समाप्त हो जाएंगे। क्योंकि, ये सिर्फ दुश्मन कीटों के अंडे खाते हैं, अंडों के समाप्त होते ही इनकी संख्या भी नियंत्रित हो जाएगी।

नष्ट कर देते हैं। डॉ. यूसुफ के मुताबिक इन कीटों की खोज के बाद भी एक समस्या यह

थी कि इनकी संख्या सीमित है, जबकि पाँपलर-यूकेलिप्टस पेड़ उत्तराखंड, उत्तर प्रदेश, पंजाब, हरियाणा आदि राज्यों में लाखों की संख्या में हैं। लिहाजा, शोध को आगे बढ़ते हुए परजीवी कीट ट्राइकोग्रेमा की तादाद को लेब में बढ़ाने का काम शुरू किया गया।

इसके लिए एक अन्य कीट कर्सिंग सिफेलोनिका को लेब में सामान्य तापमान में रखा जाता है। जब ये स्वतः अंडे देता है तो इन अंडों को एक कंटेनर में रखकर उसमें परजीवी कीट ट्राइकोग्रेमा को छोड़ दिया जाता है। यह कीट 10-12 दिन में अंडों के हिस्सा से नष्ट कीट तैयार कर देता है। इस प्रक्रिया से एक साल में चार करोड़ तक नए कीट तैयार किए जा सकते हैं।

Dainik Jagran 02-09-16

Coal India signs MoU with ICFRE for eco-restoration of 430 mines

Ministry Pumping Around ₹53 Crore For Ambitious Project

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Representational photo

Dehradun: Indian Council of Forestry Research and Education (ICFRE) will assess and monitor eco-restoration of all Coal India Limited (CIL) mines in the country. A memorandum of understanding (MoU) to this effect was signed here on Thursday.

This is believed to be the first of its kind alliance by CIL for eco-restoration of all 430 mines in the country owned by the public sector coal giant. ICFRE would monitor plantation, eco-restoration activities, preparation of wildlife management plans and environment impact assessment.

Speaking on the occasion, coal secretary Anil Swarup said, "We have tied up with other institutions for eco-restoration of some of our coal mines. But it is for the first time that we have signed an MoU for eco-restoration of all our mines. We will start with 20 mines in the first phase."

According to Swarup, the coal ministry is pumping around US\$ 8 million (around Rs 53 crore) for the restoration project. "The country requires energy for which we need coal. We have moved ahead in coal production in the past couple of years but concerns have been raised that extensive coal mining has led to degradation of forests. We are equally concerned about restoration of our environment.



Indian Council of Forestry Research and Education (ICFRE) will also provide technical assistance in preparation of wildlife management plans for coal mines and their management plan

Unprecedented growth in country's coal production in last 2 yrs: Coal secy

Dehradun: Anil Swarup, secretary, ministry of coal, who was in the city on Thursday for the signing of a memorandum of understanding (MOU) between the Indian Council of Forestry Research and Education (ICFRE) and Coal India Limited (CIL), said on the sidelines of the event that CIL, which is the world's largest coal producer company, had registered an "unprecedented growth" in a short span of two years. "Earlier, we would have coal stock in hand for just four-five days and were largely dependent on import for our coal requirement to generate energy. But in 2014-15, our coal production jumped up 32 million tonnes more than our production of 2013-14 which was also more than the cumulative coal production in the last four years in the country." **TNN**

This is why we have signed an MoU with ICFRE in this regard," he said.

Shashi Kumar, director ge-

neral of ICFRE added, "ICFRE will also conduct third party environmental audit of the coal mines when giving environ-

mental clearance. It will assess and monitor plantation and other eco-restoration activities carried out by the coal company and also the plantation raised by state forest departments under Compensatory Afforestation Fund for Management and Planning Authority (CAMPA) scheme."

Kumar added that ICFRE will also provide technical assistance in preparation of wildlife management plans for coal mines as well as preparation of environmental impact and management plan. It will also conduct training programmes for executives of CIL on environment and forestry issues.

3/9/16

ICFRE, Coal India join hands for eco-restoration of mines

TRIBUNE NEWS SERVICE

DEHRADUN, SEPTEMBER 2

Coal India Limited (CIL) yesterday signed a memorandum of understanding (MoU) with the Indian Council of Forestry Research and Education (ICFRE) to ensure proper eco-restoration of coal mines.

The MoU was signed in the presence of ICFRE Director General Shashi Kumar and Union Coal Secretary Anil Swarup. The MoU was signed by Sudhir Kumar, Additional Director General, on the behalf of ICFRE and Niranjan Das, Chief General Manager (Environment), on the behalf of

CIL.

As per the MoU, the ICFRE will support scientific and academic research, education and extension in forestry and environment and provide support for assessing and monitoring the environmental compliance of individual mine.

Swarup said the main areas of collaboration between the ICFRE and the CIL include the third party environmental audit of coal mines.

ICFRE is an autonomous body under the Union Ministry of Environment, Forests and Climate Change in the national forestry research system, which has been undertak-

ing the holistic development of forestry research through need based planning, promoting and coordinating research, education and covering all aspects of forestry whereas Coal India Limited (CIL) is a 'Maharatna' Public Sector Undertaking under the administrative control of Union Ministry of Coal with its headquarters in Kolkata, West Bengal, and is the single largest coal producing company in the world.

ICFRE Deputy Director General (Extension) Dr NS Bisht, Dr Rajiv Garg, Principal Advisor, CIL and other senior officials of CIL and ICFRE were present on the occasion.