

TFRI organized two days training/ workshop on "Carbon sequestration through wood and bamboo products" for IFS officers



Tropical Forest Research Institute, Jabalpur (MP), a premier Institute under Indian Council of Forestry Research & Education, Ministry of Environment, Forest & Climate change, Govt. of India organized two days training cum workshop on "**Carbon sequestration through wood and bamboo products**" from 12 - 13th October, 2017 for officers of Indian Forest Service. IFS officers from Chhattisgarh, Karnataka, Maharashtra, Meghalaya, Sikkim, Uttar Pradesh and West Bengal participated in this workshop. The workshop was sponsored by Ministry of Environment, Forest & Climate change, Govt. of India and it aimed to discuss the methodology on carbon stock assessment and annual carbon sequestration by plants. Different ecological techniques implementable in field were also demonstrated to the officers.

The programme was initiated by lighting the lamp by Director, TFRI, Head of Divisions and participants. Dr. N. Roychoudhary, Director, TFRI welcomed the chief guest Dr. P.K. Shukla, former Principal Chief Conservator of Forest (Retd.), Madhya Pradesh Forest Department by presenting bouquet. Dr. Roychoudhary welcomed the participants and in his welcome address, he stressed the need to lower down the increasing concentrations of atmospheric greenhouse gases which are causing the reckonable global warming and climate change. The increasing concentration of carbon dioxide, one of the greenhouse gases in the atmosphere beyond the tolerable limits is of much concern in 21st century. He said that the forests act as carbon sinks by significantly reducing carbon dioxide concentration in the atmosphere and mitigating the negative impacts of climate change and global warming. Dr. Roychoudhary also highlighted the efforts of TFRI in quantifying carbon stock and annual sequestration in natural forests, tree plantations and agroforestry models in central Indian states.

Dr. Avinash Jain, Programme Co-ordinator briefed the training programme. He informed the august gathering that the CO₂ in the atmosphere is increasing at an alarming rate by the anthropogenic emissions like thermal power plants, industries, vehicles etc. He emphasized on different methods to sequester atmospheric carbon for reducing the CO₂ concentration in the environment for a better tomorrow. He also laid emphasis on the mitigation efforts to fight with global warming and climate

change, the hot issues around the globe. In the inaugural ceremony, vote of thanks was delivered by Dr. Nitin Kulkarni, Scientist-G.

During the technical sessions, Dr. Avinash Jain, senior scientist of TFRI delivered the talk on carbon stock assessment and annual sequestration in different pools and Dr. Renu Singh, CCF, Jabalpur on carbon sequestration and climate change mitigation. Dr. Genda Singh from AFRI Jodhpur, and Dr. Syam Viswanath from IWST Bangalore also worked as resource persons and delivered the lectures on carbon sequestration potential in bamboos and land use & carbon sequestration in dry areas respectively. Dr. G. Singh said that for the betterment of the environment, the wood should be utilized in making furniture or in some other forms so that the carbon can be stored for long term. Dr. Shyam Vishwanath from Institute Wood Science & Technology Bangalore explained that the bamboo is the best material to sequester carbon and it absorbs 1.5 times more carbon than trees and bamboo has thousands of uses also so the carbon can be stored for many years.

Two days workshop was concluded 13/10/2017. During the feedback and valedictory session, the certificates were distributed to the participants, the IFS officers by Dr. N. Roychoudhary, Director TFRI. IFS officers praised the content of the workshop which contained the mitigation efforts carrying out in India and around the world for sequestering the increased carbon dioxide from atmosphere. They appreciated the efforts of TFRI to train them on carbon sequestration. They said that the knowledge and advance techniques learnt will be utilized by them in their cadre states. Dr. Avinash Jain submitted the two days' workshop report. Dr. Fatima Shirin, senior scientist conducted the programme and proposed the vote of thanks. During the inaugural and valedictory sessions, Heads of all divisions, scientists and officers of the Institute were present.

Glimpses of training programme

















Media Coverage

TheHitavada

JABALPUR ■ Friday ■ October 13 ■ 2017

City Line

BRIEFS

Workshop on Rangoli concludes

■ Staff Reporter

A WEEK-LONG workshop on Rangoli concluded at Shobha Singh Yadav Government College, Patan (Jabalpur). The programme was conducted under the aegis of Swami Vivekananda Career Guidance Scheme, Department of Higher Education, Government of Madhya Pradesh and direction of Principal, Dr Sunita Sharma.

At the outset, the programme began after lighting of traditional lamp and garland was offered to the Goddess of Learning, which was followed by the welcome of the distinguished guests present at the occasion.

Sunil Paranjpe, an international repute artist of Rangoli, was the trainer invited, while Dr Bala Khatri, senior Professor of the college presided over the function.

TFRI's workshop to end today

■ Staff Reporter

TROPICAL Forest Research Institute (TFRI), Jabalpur, an institute under Indian Council of Forestry Research & Education, Ministry of Environment, Forest & Climate Change, Government of India is organising a two-day training cum workshop 'Carbon sequestration through wood and bamboo products' on October 12-13, 2017.

The workshop is being organised for officers of Indian Forest Service (IFS) from Chhattisgarh, Karnataka, Maharashtra, Meghalaya, Sikkim, Uttar Pradesh and West Bengal. The workshop is sponsored by Ministry of Environment, Forest & Climate change, Govt. of India to discuss the methodology on carbon stock assessment and annual carbon sequestration by plants. Different ecological techniques will also be demonstrated which will equip the forest officers with implementable assessment techniques in their respective regions around the country. Initially, Dr N Roychoudhary, Director, TFRI



Dr. Roychoudhary, Director, TFRI, Dr. Shukla along with others attending the workshop at TFRI.

welcomed the chief guest Dr P K Shukla, former Principal Chief Conservator of Forest (Retd.), Madhya Pradesh Forest Department and other participants. In his welcome address, he stressed on the need to lower down increasing concentrations of atmospheric green house gases which are causing the reckonable global warming and climate change.

He said that the forests act as carbon sinks by significantly

reducing carbon dioxide concentration and mitigating negative impacts of climate change and global warming. Director also highlighted the efforts of TFRI in quantifying carbon stock and annual sequestration in natural forests, tree plantations and agro-forestry models in central Indian states. Dr Avinash Jain, Programme Co-ordinator informed the august gathering that the CO₂ in the atmosphere is increasing at an alarming rate

through anthropogenic emissions like thermal power plants, industries, vehicles etc.

He also laid emphasis on the mitigation efforts to fight with global warming and climate change, the largest hot issues around the globe.

Hari Om Saxena, PRO informed that during the training programme, various talks like carbon stock assessment and annual sequestration in different pools, carbon sequestration potential in bamboos, carbon sequestration and climate change mitigation, land use and carbon sequestration in dry areas will be delivered by the subject experts.

Dr Genda Singh from AFRI, Jodhpur, Rajasthan and Dr Syam Viswanath from IWST Bangalore are taking part in the workshop as resource persons.

During the inaugural ceremony, Heads of all divisions, scientists and officers of the Institute were present. Dr Fatima Shirin, senior scientist conducted the programme and Dr. Nitin Kulkarni, Scientist - G proposed the vote of thanks.

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City Line

TheHitavada

JABALPUR ■ Saturday ■ October 14 ■ 2017

Two-day workshop at TFRI concludes

■ Staff Reporter

A TWO-DAY workshop on 'Carbon sequestration through wood and bamboo products' concluded at Tropical Forest Research Institute (TFRI). Certificates were distributed to participants, IFS officers by TFRI Director Dr N Roychoudhary. IFS officers praised content of workshop which contained mitigation efforts carrying out in India and around the world for sequestering increased carbon dioxide from atmosphere.

The increasing concentration of CO₂ in the atmosphere is the burning topic around the globe in the present scenario. Two lectures on carbon sequestration and climate change mitigation by Dr. Renu Singh and land use and carbon sequestration in dry areas of Rajasthan by Dr. G. Singh were delivered. Dr. Singh said that for the betterment of the envi-



TFRI Director Dr N Roychoudhary distributing certificates to IFS officers.

ronment, the wood should be utilized in making furniture or in some other forms so that the carbon can be stored for long term.

Dr Shyam Vishwanath from Institute Wood Science and Technology Bangalore explained that the bamboo is the best material to sequester carbon and it absorbs 1.5 times more carbon than trees and bamboo has thousands of uses also so the carbon

can be stored for many years. During the feedback and valedictory session, the forest officers appreciated the efforts of TFRI to train them on carbon sequestration and they will utilize the various expertise techniques in the field in their cadre states. Dr. Avinash Jain submitted the two days workshop report. Dr. Fatima Shirin, senior scientist proposed the vote of thanks.

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टीएफआरआई में दो दिवसीय कार्यशाला शुरू...

जलवायु परिवर्तन को नियंत्रित करना बड़ी चुनौती



पत्रिका
लाइव
रिपोर्ट

जबलपुर. टीएफआरआई में गुरुवार को लकड़ी और बांस के उत्पाद के माध्यम से कार्बन अवशोषण पर आधारित दो दिवसीय कार्यशाला शुरू हुई। डायरेक्टर डॉ. एन राम चौधरी ने कहा कि जलवायु परिवर्तन

नियंत्रित करने में वैज्ञानिकों को बड़ी भूमिका निभाने की चुनौती है।

कार्यशाला में पूर्व पोसीसीएफ डॉ. पीके शुक्ला, प्रोग्राम को-आर्डीनेटर डॉ. अविनाश जैन, डॉ. निमित्त कुलकर्णी, डॉ. योगेश मिश्रा, डॉ. हरिओम सक्सेना, डॉ. ननिता बेरी व डॉ. फातिमा शरीन सहित कई राज्यों के आधा दर्जन आईएफएस अधिकारियों ने हिस्सा लिया।

लकड़ी जितनी अधिक बचेगी, पर्यावरण के लिए उतनी ही अच्छी स्थिति

पेड़ अपने बायोमॉस के अनुसार कार्बन अवशोषण करते हैं। पर्यावरण की सेहत के लिहाज से सूखे पेड़ की लकड़ी फर्नीचर या किसी रूप में सहेजना आवश्यक है। लकड़ी में 50 प्रतिशत कार्बन होता है। कार्बन में 3.67 प्रतिशत कार्बन डीऑक्साइड होती है। लकड़ी जला दी गई, तो कार्बन सीधे वातावरण में घुलेशा। उष्ण कटिबंधीय वन अनुसंधान संस्थान में आयोजित कार्यशाला में आए बुधक वन अनुसंधान संस्थान जोधपुर के वैज्ञानिक डॉ. जी सिंह ने ये बातें कही। डॉ. सिंह ने कहा कि वन स्थानों पर उमड़े और



तेजी से बढ़ने वाले पेड़ों में कार्बन अवशोषण की क्षमता ज्यादा है। कृषि वनिकी में किसानों को बेहतर प्रशिक्षण देने की आवश्यकता है।

जब बड़े-बड़े पतिया आरगी तो पर्यावरण की दृष्टि से पेड़ की भूमिका अच्छी होगी। इंडोनेशिया के पीट लैंड (दल दल क्षेत्र) को बायोमास के लिहाज से अच्छा मन्ना जाता है। वहां पॉम आखल के लिए खेती बड़ी ते विदेशी संस्थाओं ने कार्बन क्रेडिट फंड दिया है। भारत में इस फंड का इंतजार है। उत्तराखंड में कुछ रजिस्ट्रेशन हुए हैं। ग्लोबल वॉर्मिंग के लिहाज से कार्बन के जंगल पर नियंत्रण के लिए सखती बरतने की आवश्यकता है।

पेड़ की अपेक्षा डेढ़ गुना अधिक कार्बन अवशोषित करता है बांस

कह विज्ञान एवं तकनीकी संस्थान के वैज्ञानिक एस. विश्वनाथ ने पेड़ों की अपेक्षा बांस 30 से 60 प्रतिशत अधिक कार्बन अवशोषण करते हैं। बांस की 1250 प्रजातियां हैं, जिसमें 80 प्रतिशत एशिया में उगती हैं। उत्तर पूर्व भारत के वनों में 28 प्रतिशत और मध्य के वनों में लगभग 12 प्रतिशत बांस हैं। इसका व्यावसायिक उपयोग भी



अच्छा है। इससे इंसान और पर्यावरण दोनों की सेहत सुधर जाएगी। उन्होंने कहा कि भारत में 140 प्रजाति के बांस हैं। सरकार 16 उन्नतिशील प्रजातियों को बढ़ावा दे रही है। बेहतर प्रशिक्षण देकर बांस रोजगार बढ़ाने के साथ प्रदूषण कम कर सकते हैं। कपड़ा, गैस, फर्नीचर सहित 1500 उपयोग हैं। केन्द्र सरकार ने ग्रीन हाइवे मिशन शुरू किया है। रेलवे ट्रैक के किनारे भी बांस लगा सकते हैं। पर्याप्त कार्बन अवशोषण के लिए समय-समय पर कटाई आवश्यक है।

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