

Tropical Forest Research Institute, Jabalpur organized 240 hours Certificate Course on “Propagation and Management of Bamboo” at Genetics and Tree Improvement Division, Under GSDP-ENVIS

Tropical Forest Research Institute, Jabalpur organized a 240 hours Certificate Course on “Propagation and Management of Bamboo” from 11th February 2019 to 18th March, 2019 under Green Skill Development Programme (GSDP) - ENVIS sponsored by the Ministry of Environment, Forest and Climate Change (MoEF & CC), Government of India, New Delhi. In the inaugural function, Dr. G. Rajeshwar Rao (ARS), Director TFRI welcomed the Chief Guest, Shri N.S Dungariyal (IFS), Director, State Forest Research Institute, Jabalpur and Special guest, Shri Sandeep Dharkar, DDM, NABARD, Jabalpur. The programme was initiated by lighting the lamp by the Chief Guest, Special Guest and Director, TFRI and other dignitaries. Dr. Pramod Kumar, Course Director, welcomed the chief guest, special guest and participants who had come from different places. Dr. Nanita Berry, Scientist - E and Head of Extension Division and Training Incharge explained in detail about the GSDP and conveyed its purpose to the house. Dr. Fatima Shirin, Scientist-F and Head of Genetics & Tree Improvement Division and Training Coordinator briefed them about the importance of bamboos, their propagation, various initiatives of Government and its role in employment generation. Dr. G. Rajeshwar Rao addressed the gathering and asked the trainees to be completely involved and use the time to learn about diverse aspects of bamboo. Special guest Sandeep Dharkar, DDM, NABARD, Jabalpur, appreciated relevance of the training and provided relevant information on existing and upcoming financing schemes like bamboo value chain development and agribusiness centres schemes by NABARD. The Chief Guest Shri N.S Dungariyal (IFS) appreciated the efforts of TFRI, Jabalpur in contributing towards the initiative of Government of India and encouraged the trainees to gain as much knowledge as possible to nurture their potential as entrepreneurs in the field of propagation and management of bamboo and its use in self employment generation. He also suggested the participants to identify viable bamboo models best suited for their areas and wished the participants that they benefit by enhancement of income through this training. Total 12 participants of mainly science and allied subjects from various places in and around Madhya Pradesh and Maharashtra participated in this training program. The course manual was also released during the inaugural function.

During the technical sessions of this 240 hours training programme, lectures were undertaken for 60 hours and 180 hours were devoted to hand-on practical training of the participants. Lectures on a wide range of topics viz., botany and taxonomy of bamboo, bamboo

resource distribution in India and its importance, utilization and economics of bamboo, selection of superior stand and CPCs of bamboos, application of biofertilizers in nurseries and plantation of bamboos, silvicultural management of bamboo, processing and preservation techniques for edible bamboos shoots, insect pests of bamboo in nursery and plantations and control, conservation of bamboo genetic resources and advance techniques genetic diversity assessment, bamboo seed technology and treatment for quality seedlings production etc. were delivered by various Resource persons and experts. Practical demonstrations were provided to the trainees by expert teams. Besides, the trainees were taken on field trips to different places like plantation of tissue culture raised edible bamboo *Dendrocalamus asper* at Barha, Jabalpur.

The field trips also included visit to the artisans working with bamboos and preparing various bamboo articles at Dhuma, Lakhanadaon and Nainpur. There the trainees met expert artisans who demonstrated the art of preparing bamboo handicrafts, decorative items, baskets, furniture and a number of other articles. They also visited Common Facility Centre (MP State Forest Department) at Baihar, where they saw the different equipments utilized for making bamboo furniture. They visited the Green Bamboo Nursery of Shri Subhash Bhatia at Tilwara Ghat where they saw collection of a number of bamboo species. They also saw agarbatti making with bamboo sticks. They also visited Dumna Nature Park and saw the plantation of TC raised *Bambusa balcooa*. They also visited the nurseries of JNKV, Jabalpur.

The training was concluded on 18th March, 2019. During the valedictory session, Dr. G. Rajeshwar Rao, Director of TFRI warmly welcomed the Chief Guest GM of Orient Paper Mill, Amlai. The dias was occupied by Shri Deepak Khare, Dr. G. Rajeshwar Rao, Shri C. Behera, Head of Office, Dr. P.B. Meshram, GCR, Dr. Geeta Joshi, Training Incharge, GSDP and Dr. Fatima Shirin, Training Coordinator. At the outset of valedictory function, Dr. Fatima Shirin, presented the training report before the august gathering and made a presentation of the activities carried out during the 1 month training programme. Dr. Rajeshwar Rao, Director praised the Training Coordinator, Training Incharge, Course Director and all the team members for their efforts and hard work in successful organization of the training programme. He wished the participants well in all their future endeavors. Shri Deepak Khare, Chief Guest interacted with the trainees and counseled them about job opportunities in the field of Bamboo sector for their career development. He wholeheartedly appreciated the structure of the training program with maximum time devoted to practicals and congratulated the Director and Training Coordinator for successful completion of the training program. He distributed the certificates to the participants on the occasion. In the feedback, the participants thanked TFRI for organizing such an excellent

and diversified training course on Propagation and Management of Bamboo. They especially appreciated the exposure visit to different places which provided them clear understanding to start entrepreneur for livelihood. Few of the participants wished to establish their own entrepreneurship based on Plant tissue culture of bamboo. During the event, Head of Divisions, Scientists, Officers and supporting staff of the Institute were present. The programme was successfully conducted by Dr. Pramod Kumar, Course Director. Dr. Naseer Mohammad, Scientist-D delivered the Vote of thanks.

Glimpses of Training programme Inaugural Session



Lectures on Propagation and management of bamboo



Lectures on Propagation and management of bamboo



Lectures on Propagation and management of bamboo



Visit to various nurseries, laboratories and museum at TFRI, Jabalpur



Various steps involved in Tissue culture of Bamboos



Working in Tissue Culture laboratory for sub-culturing and hardening of Bamboo



Vegetative propagation of Bamboo through cuttings



Vegetative propagation of Bamboo through culm cuttings



Macro propagation of Bamboos



Field trip to TC raised plantation of *Dendrocalamus asper* at Barha and Ranga plantation, Jabalpur



Visit to Bamboo artisans at Dhuma and Nainpur



Bamboo products at Lakhnadoun



Visit to Common Facility Centre (MP State Forest Department) at Baihar



Products of bamboo prepared at Baihar



Visit to Dumna Nature Park to plantation of TC raised *Bambusa balcooa*



Visit to Green Bamboo Nursery of Shri Subhash Bhatia at Tilwara Ghat



Presentation by trainees



Valedictory function and course lunch



Media Coverage

Training on Bamboo inaugurated at TFRI



Experts release a course material during inauguration of training programme at TFRI.

■ Staff Reporter

HOONKIZING the escalating demand and importance of bamboo in the economy of India, training on 'Propagation and Management of Bamboo' under the Green Skill Development Programme (GSDF), sponsored by the Ministry of Environment, Forest and Climate Change (MoEF&CC), Government of India, New Delhi was inaugurated at Tropical Forest Research Institute (TFRI), Jabalpur.

The event was inaugurated under the graceful presence of N. Chandrababu Naidu, Deputy CM, Andhra Pradesh. He congratulated TFRI for pro-

viding opportunities and help to overcome the major challenge of bamboo sector for the lack of planting material. He also provided relevant information on existing and upcoming financing schemes like bamboo value chain development and Agrilink and agribusiness centres schemes by NABARD.

TFRI Director, Dr. C. Rajeshwara Rao, appreciated the zeal and response by the participants of successive batches at the institute. He emphasized the scope of bamboo for income generation and anticipated best returns for the keen and able selection of participants of the bamboo training. Dr. Satish Shrivastava, Training Coordinator, gave detailed description about the design of this 140 hours training modules, detailing 100 hours on practical aspects.

Total 12 participants of multi-faceted and all-round nature from various places in and around Madhya Pradesh are participating in this training. Senior officers and scientists like Dr. Nandini Bhatia, Training In-Charge, C. Rajan, Dr. P. S. Mishra, Dr. Arun Kumar, Dr. Nasser Mohammad along with other members of the institute will also present to support the inaugural session convened by Dr. Pramod Kumar Thakur, General Director of the Institute.



टीएफआरआई में प्रशिक्षण कार्यक्रम का शुभारम्भ

बांस के मॉडल को अपनाकर करें आयवृद्धि

पत्रिका PLUS रिपोर्टर

जबलपुर • पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय भारत सरकार द्वारा प्रायोजित हरित कौशल विकास कार्यक्रम के तहत बांस का प्रचार और प्रबंधन विषय पर प्रशिक्षण कार्यक्रम का शुभारंभ हुआ। उष्णकटिबंधीय वन अनुसंधान संस्थान में आयोजित कार्यक्रम में मुख्य अतिथि जबलपुर के निदेशक एनएस दुर्गरियाल ने प्रशिक्षण के माध्यम से युवाओं का कौशल विकास और स्वरोजगार के अवसर प्रदान करने के लिए टीएफआरआई को बधाई दी। उन्होंने प्रतिभागियों को बांस के मॉडल को अपने क्षेत्रों के लिए व्यवहार्य और योग्य बनाने का सुझाव दिया और प्रशिक्षण के माध्यम से आयवृद्धि करके लाभान्वित होने की कामना की।

विशेष अतिथि डीडीएम नाबाई संदीप धरकर ने प्रशिक्षण की प्रसंगिकता की सराहना की। प्रतिभागियों को बांस क्षेत्र की बढ़ी



चुनौती, रोपण सामग्री की कमी पर काम पाने के लिए इस अवसर का लाभ उठाने को कहा। उन्होंने नाबाई द्वारा बांस मूल्य मूखला विकास, एग्रोक्लिनिक, एग्रीबिजनेस सेंटर योजनाओं जैसी

मौजूद और आगामी वित्तपोषण योजनाओं के बारे में जानकारी प्रदान की। अंत में उन्होंने प्रतिभागियों से किसानों के बीच बांस को लोकप्रिय बनाने का अनुरोध किया।

डॉ. जी. राजेश्वर राव ने अतिरिक्त आय सृजन के लिए बांस का दायरा बढ़ाने पर जोर दिया। डॉ. फातिमा शिरिन ने बांस पर इस 240 घंटे के प्रशिक्षण का विस्तृत विवरण दिया, जिसमें प्रैक्टिकल पहलुओं पर 180 घंटे समर्पित रहेंगे।

उन्होंने बताया कि प्रशिक्षण में बांस का वास्तविक प्रसार, इसकी ऊतक संवर्धन तकनीक और नर्सरी प्रबंधन सामाजिक-आर्थिक विकास के लिए विपणन आदि के बारे में जानकारी दी जाएगी, जो प्रतिभागियों की आय सृजन के अवसर प्रदान करेगी।

उष्णकटिबंधीय वन अनुसंधान संस्थान में बाँस के प्रचार और प्रबंधन पर प्रशिक्षण शुरू किसानों के बीच बाँस को बनाएँ लोकप्रिय



जबलपुर | बाँस के प्रचार और प्रबंधन पर प्रशिक्षण का उद्घाटन उष्णकटिबंधीय वन अनुसंधान संस्थान में किया गया। भारत की अर्थव्यवस्था में बाँस की बढ़ती माँग और मछल को सम्झते हुए हरित कौशल विकास कार्यक्रम के तहत बाँस का प्रचार और प्रबंधन पर प्रशिक्षण कार्यक्रम का उद्घाटन मुख्य अतिथि राज्य वन अनुसंधान संस्थान के निदेशक एन.एस. डुंगरियाल ने किया। उन्होंने कहा कि प्रतिभागी अपने हित के लिए आत्मनिरीक्षण और समय का सदुपयोग करें। वही बाँस के मॉडल को अपने क्षेत्रों के लिए व्यवहार्य और योग्य बनाएँ। विशेष अतिथि संदीप भस्कर, डी.डी.एम, नाबाई ने प्रतिभागियों को बाँस क्षेत्र की बड़ी चुनौती, रोपण सामग्री की कमी पर कामू पाने के लिए इस

अवसर का लाभ उठाने को कहा। डॉ. जी राजेश्वर राव, निदेशक टीएफआरआई ने संस्थान में क्रमिक प्रशिक्षण के प्रतिभागियों द्वारा उत्साह और प्रतिक्रियाओं की सरहना की। प्रशिक्षण समन्वयक डॉ. फातिमा शरीन ने बाँस पर इस 240 घंटे के प्रशिक्षण का विवरण दिया, जिसमें प्रैक्टिकल पहलुओं पर 180 घंटे समर्पित रहेंगे। कार्यक्रम के दौरान पाठ्यक्रम पुस्तिका भी जारी की गई। ट्रेनिंग में विभिन्न स्थानों के विज्ञान और संबद्ध विषयों के 12 प्रतिभागी इस प्रशिक्षण में भाग लेंगे। प्रशिक्षण प्रभारी डॉ. ननिता बेरी, पाठ्यक्रम निदेशक डॉ. प्रमोद कुमार तिवारी, सी. बेहरा, डॉ. पीवी मेथ्राम, डॉ. अरुण कुमार, डॉ. नसीर मोहम्मद एवं संस्थान के अन्य सदस्य उपस्थित थे। पी-5



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MPCTGEA demands all amenities to students in Govt schools

■ Staff Reporter

THE Madhya Pradesh Class Three Government Employees' Association (MPCTGEA) has demanded to make the new educational session in Government schools with all the facilities so that students' all the necessities would be fulfilled. The facilities like free textbook distribution, availability of clean potable water, clean toilets, power connection and installation of fans, etc. should be ensured, said MPCTGEA.

New session must be started in clean atmosphere so that teachers would be able to conduct teaching and students would get knowledge in harmonious atmosphere.

The association has also stated that the harmonious atmosphere should be maintained in the institutes so that the fearless and tension-free atmosphere would be maintained in the insti-

Final training on mgmt of bamboo ends at TFRI

■ Staff Reporter

THE final training under Green Skill Development Programme (GSDP) sponsored by the Ministry of Environment, Forest and Climate Change (MoEF&CC), Government of India, New Delhi on 'Propagation and Management of Bamboo' concluded at Tropical Forest Research Institute (TFRI).

The event was graced by the presence of Deepak Khare, General Manager, Orient Paper Mill, Amlai. He appreciated the thoughtful composition and development of bamboo management leaders through this training programme.

Further, he emphasised on incorporation of learnings of the training for re-vegetation of the participants and provided assurance to buy the cultivated bamboo by Orient Paper Mill, Amlai.

Dr G. Rajeshwar Rao (ARS), Director, TFRI, appreciated the zeal and responses by the participants during the training. He emphasised on the scope of bam-



Director TFRI, Dr G R Rao and Deepak Khare, GM of Orient Paper Mill, Amlai, awarding certificates to trainees.

boo-based agroforestry and talked about the recent collaboration of the institute with Orient Paper Mill, Amlai which can prove to be a boon for bamboo cultivating farmers of the area.

Dr Fatima Shirin, Training Coordinator, presented glimpses of the training programme. She detailed about the field visits conducted during this one-month training programme on bamboos at Ranga plantation, Dhuma and

Nainpur bamboo artisans, Madhya Pradesh State Forest Development (MPSFD) Common Facility Centre, Green Bamboo nursery, Tilwara ghat, etc.

The programme concluded by distribution of certificates to the participants, senior officers and scientists like C. Behra, Dr P B Meshram, Dr Arun Kumar, Dr Nasser Mohammad and Dr Pramod Kumar Tiwari were also present at the event.

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