



## Exhibition and Extension of ICFRE Technologies at Kumbh – 2019, Prayagraj

The two-months long Kumbh Mela at Prayagraj, spreading over 3200 hectares in the sangam area, commenced this year on 15<sup>th</sup> January 2019 and has once again become the greatest ephemeral city in the world. The Triveni Sangam has been referred as centre of earth in certain ancient scriptures. The significance of performing “rituals and tapas” at Prayagraj is considered to be highest among all pilgrimages. The Kumbh is visited by millions of pilgrims because of its religious importance. Saints, ascetics and their followers pay their respect and perform various traditional rituals at Triveni sangam. Kumbh Mela has gained much importance this year as India is internationally showcasing its religious and cultural wealth through this event. Thus, this is a highly significant opportunity to exhibit forestry research findings and technologies developed by ICFRE institutes to different stakeholders.

Ministry of Environment, Forests and Climate Change (MoEF&CC) planned to set up an exhibition with its associated organizations *viz.*, ICFRE, WII, ZSI, BSI, NTCA, CPCB, NCSM & GB Pant Institute. ‘Green Good Deeds’ was decided as exhibition theme and Botanical Survey of India (BSI), Prayagraj was identified as the coordinating agency for the MoEF&CC Exhibition at Kumbh-2019. On this occasion, for representation of all ICFRE Institutes, the FRC-ER, Prayagraj was entrusted the responsibility to coordinate display of research findings, extension materials, live models, publications etc., to religious participants and pilgrims. As a participating organization, ICFRE has involved all its Institutes for exhibiting their specific forest related technologies to stakeholders. The display and extension of these technologies developed by different ICFRE Institutes is being done through digital posters, models, exhibits, short films, brochures, publications, digital presentations and forest products.

Different technologies, processes and products developed by **FRI, Dehradun** such as ZiBOC (preservative for wood & bamboos), SAMRIDDHI (for improvement in silk production), RAKSHAK (bio-pesticide), JIGAT (product for agarbatti making), natural dyes, biofertilizers from waste forest produces, non-wood forest products etc., is being displayed in the exhibition.

The agroforestry models of Melia, Eucalyptus and Poplar with traditional agriculture crops and medicinal plants are also being displayed. The highly medicinal mushrooms viz., *Ophiocordyceps sinensis* and *Ganoderma lucidum* and biofungicide *Trichoderma* samples along with cultivation methods are also showcased. The seeds, plants and products of important medicinal, nonwood, spiritual, agroforestry and forest species, including bamboos are also being displayed. The miniature models viz. Social forestry & 100 years of forestry and products of Bamboos, Lantana and Melia such as composite wood and ply board are also showcased. Publications, posters, pamphlets, handouts and brochures received from different institutes are being distributed. The technologies developed by **RFRI, Jorhat** on various aspects of bamboos such as propagation and cultivation methods, handicrafts, preservation technique and agroforestry cultivation are displayed. The low cost vermi-compost unit, lac cultivation, agarbatti making, agarwood oil isolation for industries, broom grass cultivation, bamboo products diversification and value addition are also displayed through digital posters. The technologies, process and products such as bio-booster and commercial clones of Casuarina and Eucalyptus developed by **IFGTB, Coimbatore** are also displayed. Wood polymer composite developed by **IWST, Bangalore** is being displayed. Digital posters on studies done by **IFP Ranchi** on risk assessment of Lantana using ‘spatial distribution modeling’ and green belt developed on Ash Ponds at Chadarpura Thermal Power Station, Damodar Valley Corporation were displayed. Tricho-Card biopesticide developed by **TFRI, Jabalpur** against teak defoliator and leaf skeletonizer and also a short film on bamboos are being screened. The technology developed by **AFRI, Jodhpur** on phytoremediation by afforestation using treated waste water was displayed. The management of Silver-Fir mortality and findings on intercropping high temperate medicinal plants with horticultural plantation by **HFRI, Shimla** and a short film on Ringal is also being screened. The bio-pesticides developed by different institutes of ICFRE e.g. Vermico-IPM, Tree rich bioboosters, Tricho-K, K-mobiliser, Hy-Act, Crawl Clean, Tree PAL H are also displayed through digital posters. Besides these, recently released varieties of *Casuarina*, *Rauvolfia serpentina*, *Eucalyptus tereticornis*, *Melia dubia* and short films on non wood forest products and technologies commercialized by ICFRE are also being showcased through digital posters.

## *Glimpses of Exhibition*



MoEF&CC Exhibition stall at Kumbh 2019





Seedlings of different bamboo species, important medicinal and agroforestry species





Models displayed at ICFRE Exhibition inside MoEF&CC stall at Kumbh 2019



Different ICFRE technologies being explained to visitors



Visitors at ICFRE stall in Exhibition



Forest products being exhibited in ICFRE stall





Compost



NWFP Samples



Important Seeds of forestry species



Medicinal mushroom *Ophiocordyceps sinensis* (Kira jari)



*Trichoderma harzianum* formulation

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