



## International Conference on Population and Conservation Genetics

- Smt. Kanchan Devi, IFS, Director General, ICFRE chaired “International Conference on Population and Conservation Genetics (ICPCG 2026)” held at Coimbatore, T.N. from 28<sup>th</sup> to 30<sup>th</sup> January 2026. The conference was jointly organized by IUFRO and APFORGEN. Participants from Asia, Africa, Europe, USA, Australia & Latin America and India attended the conference.



International Conference on “Population and Conservation Genetics” at Coimbatore

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## 77<sup>th</sup> Republic Day

- ICFRE (HQ), its institutes, and centers celebrated 77<sup>th</sup> Republic Day 2026 on 26 January 2026.



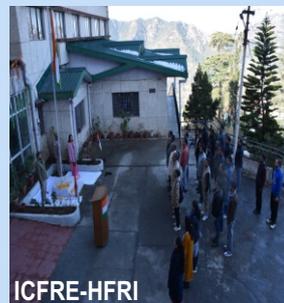
ICFRE (HQ)



ICFRE-FRI



ICFRE-AFRI



ICFRE-HFRI



ICFRE-RFRI



ICFRE-IFB



ICFRE-IFP



ICFRE-IFGTB



ICFRE-IWST



ICFRE-TFRI

## Second Phase Celebration of National Song “Vande Matram”

- ICFRE, its institutes and centres celebrated the second phase of the National Song “Vande Matram” on its 150<sup>th</sup> Anniversary from 19<sup>th</sup> to 26<sup>th</sup> January 2026 by reciting it and organizing various activities including plantation programme.



## Significant Research Finding

### ICFRE- Forest Research Institute, Dehradun

- LC-QTOF-MS/MS (ESI<sup>-</sup>) analysis of *Trillium govanianum* Type-I rhizome extract was performed. The compounds were assigned based on their  $m/z$  values, observed  $[M-H]^-$ ,  $[M+HCOO]^-$ , and  $[M+CH_3COO]^-$  ions, along with their diagnostic MS/MS fragmentation patterns. This approach enabled the identification of cynarasaponins, atenolol, graecunin E, ophiopogonin C, doisynoestrol, lauryl hydrogen sulfate, and zizybeoside II based on accurate mass measurements, adduct formation, and characteristic fragment ions. Notably, graecunin E exhibited a  $[M-Rham]^-$  ion at  $m/z$  899.4643; zizybeoside II showed fragment ions at  $m/z$  383.1272 ( $[M-Glc-CH_2OH]^-$ ) and 415.9675 ( $[M-Glc]^-$ ); and ophiopogonin C displayed a  $[M-H-Rham]^-$  ion at  $m/z$  575.3526.
- Fatty oil was extracted from the seeds of *Corylus jacquemontii* Decne. (hazelnut) collected from Bharsar (30°03'36.9" N, 78°59'52.6" E; 2001 m) and Taluka (31°04'45.48" N, 78°15'14.63" E; 2209 m) forest regions of Uttarakhand using the Soxhlet extraction method, yielding  $59.5 \pm 0.41\%$  (w/w) and  $72.16 \pm 0.23\%$  (w/w), respectively. GC-MS analysis of the corresponding fatty acid methyl esters (FAMES) revealed oleic acid methyl ester as the predominant component (73.26% in Bharsar and 65.28% in Taluka), followed by linoleic acid methyl ester (18.34% and 25.07%) and palmitic acid methyl ester (8.40% and 9.64%). These results indicate minor location-dependent variations in the fatty acid composition.

### Consultancies

#### Indian Council of Forestry Research and Education

- Third party Audit of Plantation of Vindhya underground mine of South Eastern Coalfields Limited, Johilla Area, Madhya Pradesh conducted.

#### ICFRE-Rain Forest Research Institute, Jorhat

- Development of volume equations, volume biomass and carbon tables for *Gmelina arborea*, *Schima wallichii*, *Michelia champaca* and *Phoebe hainesiana* for Manipur State .
- Preparation of Revised Regional Wildlife Plan, Biodiversity Management Plan and Carrying Capacity Study for Makum Coalfield in Assam for Forest Diversion Proposal of Tirap OCP of North Eastern Coalfields, Coal India Limited.

#### ICFRE-Institute of Wood Science and Technology, Bengaluru

- Test Reports for Wood samples Identification (15 Nos), Oil content testing of wood sample (02 Nos), Mechanical property test (19 Nos), Density test (19 Nos) and Moisture test (11 Nos) were sent to the concerned Department/parties.

### Workshops/Seminars/Meetings

ICFRE- Forest Research Institute, Dehradun			
01	Seminar on “Planning and Development of Biodiversity Parks for Native Flora and Fauna”	16 <sup>th</sup> January 2026	67 participants including Research Scholars, Scientists, Technical staff and students of ICFRE-FRI, Dehradun
02	Seminar on “Ecosystems and ecological modelling: Concepts, tools and Climate change applications”	28 <sup>th</sup> January 2026	80 participants including Research Scholars, Scientists, Technical staff and students of ICFRE-FRI, Dehradun

# ICFRE NEWLETTER

## 2026

### ICFRE- Institute of Forest Productivity, Ranchi

03	Agro-forestry & Trees outside Forest	15 <sup>th</sup> January 2026	55 participants including farmers, NGOs, and government officials
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### ICFRE- Tropical Forest Research Institute, Jabalpur

04	Seed Maturity and Viability Assessment	16 <sup>th</sup> January 2026	26 participants from State forest Department of Madhya Pradesh and Maharashtra
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**Seminar on “Agro- Forestry & Trees Outsides Forest”  
at ICFRE-IFP, Ranchi**



**Workshop on “Seed Maturity and Viability Assessment”  
at ICFRE-TFRI, Jabalpur**

### ICFRE- Himalayan Forest Research Institute, Shimla

05	Seminar on “Soil Organic Carbon and Land Degradation Neutrality Linkages”	30 <sup>th</sup> January 2026	35 participants including Scientists, Technical Officers and Researchers of ICFRE-HFRI, Shimla
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## Training Programme

### Indian Council of Forestry Research and Education

01	Detailed Study Cum Survey to Assess the Demand & Supply of Medicinal Plants & their Raw Material	08 <sup>th</sup> to 09 <sup>th</sup> January 2026	18 participants including Scientist and Officers from ICFRE and its Institute
02	Integrated Soil and Water conservation strategies for Sustainable Land Management	12 <sup>th</sup> to 16 <sup>th</sup> January 2026	25 participants from ICAR-IISWC, Dehradun

# ICFRE NEWLETTER

## 2026



**Training Programme on “Detailed Study Cum Survey to Assess the Demand & Supply of Medicinal Plants & their Raw Material”**



**Training Programme on “Integrated Soil and Water conservation strategies for Sustainable Land Management”**

03	Climate-Resilient Agriculture for the Management of Dryland Ecosystems of the Himalayas	12 <sup>th</sup> to 16 <sup>th</sup> January 2026	24 participants from GBPNiHE-HPRC, Himachal Pradesh
04	Integrated Approaches for Landscape Conservation: Achieving Land Degradation Neutrality	19 <sup>th</sup> January 2026	15 participants from 14 countries



**Training Programme on “Climate-Resilient Agriculture for the Management of Dryland Ecosystems of the Himalayas”**



**Training Programme on “Integrated Approaches for Landscape Conservation: Achieving Land Degradation Neutrality”**

### ICFRE- Arid Forest Research Institute, Jodhpur

05	Integrated Approach for Sustainable Development of Fragile Desert Ecosystems	12 <sup>th</sup> to 16 <sup>th</sup> January 2026	15 IFS officers from different State Forest Departments
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# ICFRE NEWLETTER

## 2026



**Training Programme on “Integrated Approach for Sustainable Development of Fragile Desert Ecosystems”**

### ICFRE- Rain Forest Research Institute, Jorhat

06	Bamboo	07 <sup>th</sup> to 09 <sup>th</sup> January 2026	30 participants from various government department of Tripura
07	Research Methodology, Research Writing and Research Management	27 <sup>th</sup> to 31 <sup>st</sup> January 2026	20 participants from different institute of ICFRE



**Training Programme on “Bamboo”**



**Training Programme on “Research Methodology, Research Writing and Research Management”**

### ICFRE- Institute of Forest Genetics and Tree Breeding, Coimbatore

08	Plus tree selection and Forest Mensuration	19 <sup>th</sup> to 20 <sup>th</sup> January 2026	All staff of ICFRE-IFGTB, Coimbatore
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### ICFRE- Institute of Wood Science and Technology, Bengaluru

09	Testing of Plywood, Block Board and Flush Door	12 <sup>th</sup> to 16 <sup>th</sup> January 2026	09 participants including Students and Industry personnel
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10	Handling of I-STEM portal	13 <sup>th</sup> January 2026	27 participants including Scientists & Technical staffs of various divisions of ICFRE-IWST, Bengaluru
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### Awareness and Demonstration Programme

#### ICFRE-Forest Research Institute, Dehradun

- 87 participants from University of Haldwani, Uttarakhand and College of Horticulture, Mysore visited Plant Physiology and Biotechnology disciplines under the Genetics and Tree Improvement Division and NTFP Museum of ICFRE-FRI, Dehradun on 05<sup>th</sup> and 07<sup>th</sup> January 2026.

#### ICFRE-Tropical Forest Research Institute, Jabalpur

- 197 students from Poornayu Ayurvedic Medical College & Research Centre, Jabalpur, Mata Gujri Women College, Jabalpur, Guru Ramdas Khalsa Institute of Science and Technology, Barela, Jabalpur and Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur visited ICFRE-TFRI, Jabalpur on 21<sup>st</sup>, 22<sup>nd</sup> and 27<sup>th</sup> January 2025. Demonstration on various divisional activities, Insectary work and visit to Plant Tissue Culture Lab were also organized.



Students from Poornayu Ayurvedic Medical College & Research Centre, Jabalpur visited ICFRE-TFRI, Jabalpur

#### ICFRE-Institute of Forest Productivity, Ranchi

- 31 scientists from Central Silk Board Central Tasar Research and Training Institute visited Technology Demonstration Centre, the Bambusetum, the Mangrove germplasm collection and the institute's nursery of ICFRE-IFP, Ranchi on 05<sup>th</sup> January 2025.



Scientists from Central Silk Board Central Tasar Research and Training Institute, Ranchi visited ICFRE-IFP, Ranchi

- 74 farmers from Jharkhand visited Bambusetum, Technology Demonstration Centre and Nurseries of Institute on 28<sup>th</sup> January 2026. They were also apprised about lac cultivation on *Flemingia* sps, and income generating through cultivation of bamboo and medicinal plants during the visit.

#### ICFRE- Rain Forest Research Institute, Jorhat

- Organized training programme on “Advances in Soil Resource Information Using RS & GIS for Agricultural Land Use Planning” on 30<sup>th</sup> January 2026 at

National Bureau of Soil Survey and Land Use Planning. 24 participants from NBSS & LUP, Regional Centre, Jorhat participated in the programme.



**Training Programme on “Advances in Soil Resource Information Using RS & GIS for Agricultural Land Use Planning”**

- ICFRE-LEC, Agartala organized a Demonstration Programme on “Bamboo-based windbreak model plantation, bamboo treatment using the VPI technique, low-cost double-barrel pyrolysis system for biochar production, low-cost vermicomposting, and vegetative propagation of *Dendrocalamus giganteus* using culm cuttings” on 23<sup>rd</sup> January 2026. 13 participants from the Bamboo Research and Training Centre, Chichpalli, Maharashtra, attended the programme.



**Demonstration Programme on “Bamboo based windbreak model plantation”**

### ICFRE- Institute of Forest Genetics and Tree Breeding, Coimbatore

- 79 students along with faculty from Bharatha Matha College, Thirikkara Cochin, Hindusthan College of Arts and Science, Coimbatore and the Patkar - Varde College, Mumbai visited Bio-prospecting division, Vegetative Multiplication Garden and Herbarium of ICFRE- IFGTB, Coimbatore on 07<sup>th</sup> and 08<sup>th</sup> January 2026.



**Students from Bharatha Matha College, Coimbatore visited ICFRE-IFGTB, Coimbatore**

### ICFRE-Arid Forest Research Institute, Jodhpur

- Organized training programme on “Biological Control of Termites Using Entomopathogenic Fungi and Establishment Techniques from Nursery to Planting Site for Successful Plantation of Kair (*Capparis decidua*)” on 20<sup>th</sup> January 2026 at the Forest Nursery, Beechwal, Bikaner, Rajasthan. 50 participants from Chhattargarh, Sri Ganganagar, Hanumangarh, Churu, Bikaner, and Bajju participated in the programme. They were briefed about use of entomopathogenic fungi as endophytes for the biological control of subterranean termites, highlighting eco-friendly and sustainable strategies for protecting forest tree seedlings and plantations during the programme.

- 84 FRO from Uttarakhand Forest Training Academy, Haldwani, Uttarakhand and Forest Training Institute, Jodhpur visited Interpretation centre, VMGs of Shisham Clones, Neem Patti Khad and Thar Shobha khejri trial of ICFRE-AFRI, Jodhpur on 06<sup>th</sup> January 2026. They were briefed about various research activities of the centre.



**FRO from Uttarakhand Forest Training Academy, Haldwani, Uttarakhand and Forest Training Institute, Jodhpur visited ICFRE-AFRI, Jodhpur**

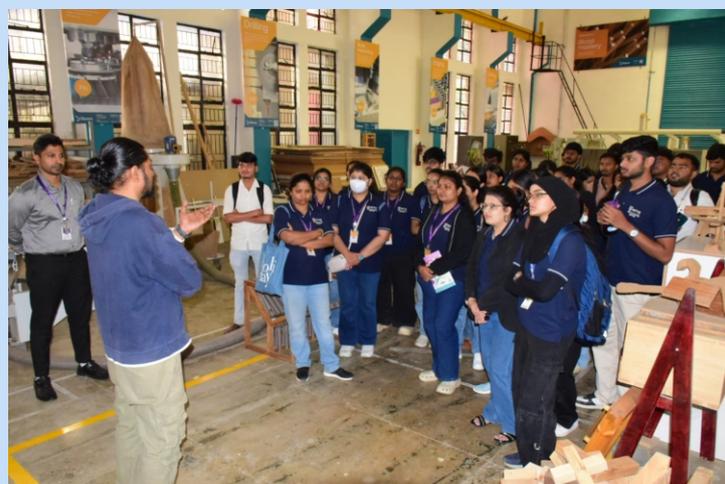
- 40 students along with faculty from Government Victoria College, Palakkad, Kerala visited Interpretation centre, VMGs of Shisham Clones, Neem Patti Khad and Thar Shobha khejri trial of ICFRE-AFRI, Jodhpur on 20<sup>th</sup> January 2026.



**Students from Govt. Victoria College, Palakkad, Kerala visited ICFRE-AFRI, Jodhpur**

### ICFRE- Institute of Wood Science & Technology, Bengaluru

- 189 participants from Dr. Y S Parmar University of Horticulture & Forestry, Nanuni, Solan, Mandi and Harimpur, Himachal Pradesh and Nitte School of Fashion Technology & Interior Design, Yelahanka, Bengaluru visited TDC, Advanced Woodworking Training Centre, xylarium and wood museum of ICFRE-IWST, Bengaluru on 02<sup>nd</sup>, 05<sup>th</sup>, 08<sup>th</sup>, 13<sup>th</sup> and 29<sup>th</sup> January 2026.



**Students from Nitte School of Fashion Technology and Interior Design, Bengaluru visited ICFRE-IWST, Bengaluru**

- 41 Range Forest Officers from Kundal Forest Academy, Kundal, Maharashtra visited TDC, Advanced Woodworking Training Centre, xylarium and wood museum of ICFRE-IWST, Bengaluru on 13<sup>th</sup> January 2026.

### ICFRE-Institute of Forest Biodiversity, Hyderabad

- Organized awareness programme for 73 Forest Beat Officers from Telangana State Forest Academy, Hyderabad on 30<sup>th</sup> January 2026. They were briefed about various research activities of the centre.

### Participation in Exhibition

- ICFRE-RFRI, Jorhat participated and showcased its technologies in “Science Festival” organized by Assam Science Society, Jorhat from 19<sup>th</sup> to 21<sup>st</sup> January 2026 at Barbheta, Jail Road, Jorhat.



ICFRE-RFRI, Jorhat participated in “Science Festival” at Barbheta, Jail Road, Jorhat

- ICFRE-RFRI, Jorhat participated and showcased its technologies and development of activities in “Mega Farmers Fair” organized by Assam Agricultural University, Jorhat from 09<sup>th</sup> to 10<sup>th</sup> January 2026 at Assam Agricultural University, Jorhat campus.



ICFRE-RFRI, Jorhat participated in “Mega Farmer Fair” at Assam Agricultural University, Jorhat

- ICFRE-IWST Field Station participated and showcased its technologies in “Dr. Archarya Prafulla Chandra Bigyan Exhibition” and “Dr. B. D. Nag Science Fair and Exhibition” from 01<sup>st</sup> to 03<sup>rd</sup> and 16<sup>th</sup> to 18<sup>th</sup> January 2026 at Kolkata.



ICFRE-IWST, Bengaluru participated in “Dr. B.D. Nag Science Fair and Exhibition” at Kolkata

### Mission LIFE

#### ICFRE- Institute of Forest Biodiversity, Hyderabad

- Organized an awareness programme on “Say No to Single Use Plastic” on 12<sup>th</sup>, 20<sup>th</sup> and 22<sup>nd</sup> January 2026 at Maisammaguda, Hyderabad and Malla Reddy College, Hyderabad. Around 37 participants from nearby area of Maisammaguda and Malla Reddy College, Hyderabad participated in the programme.



ICFRE-IFB, Hyderabad organized awareness programme at nearby area of Maisammaguda, Hyderabad

- ICFRE-CEC, Visakhapatnam organized Awareness programme on “Energy Saved, Save Water & Single use plastic reduced” on 06<sup>th</sup>, 07<sup>th</sup> and 20<sup>th</sup> January 2025 at Andhara University, Hyderabad.



**ICFRE-CEC, Visakhapatnam organized Awareness Programme at Andhara University, Hyderabad**

### Prakriti Programme

#### ICFRE- Forest Research Institute, Dehradun

- Organized Nursery Development programme on 17<sup>th</sup> January 2026 at Delhi Public School, Dehradun. Around 200 students participated in the programme and were briefed on the importance of plants and environmental conservation.



**ICFRE-FRI, Dehradun organized “Nursery Development” programme at Delhi Public School, Dehradun**

- 180 students along with teachers from Shri Guru Ram Rai School, Dehradun visited ICFRE-FRI, Dehradun on 24<sup>th</sup> January 2026. They were briefed about various research activities of the institute.

#### ICFRE- Arid Forest Research Institute, Jodhpur

- Organized internship programme from 09<sup>th</sup> to 23<sup>rd</sup> January 2026 for Government Senior Secondary Schools from Pariharo ki Dhani, Khatawas & Pabupura, Jodhpur . 25 students participated in the programme. Demonstration on tree plantation, environmental conservation; seed testing, Seed Storage, Insect Pest Management, Soil testing, Nursery Management, Polyhouses, and different Laboratories techniques used in forestry were also organized.



**ICFRE-AFRI, Jodhpur organized Internship Programme for Govt Senior Secondary School, Jodhpur**

#### ICFRE- Institute of Forest Productivity, Ranchi

- 45 students along with teachers from Sapphire School, Ranchi visited Technology Demonstration Centre of ICFRE-IFP, Ranchi on 22<sup>nd</sup> January 2026. They were also apprised of research activities being conducted by the institute to address environmental and forestry challenges during the visit.



Students from Sapphire Global School, Ranchi visited ICFRE-IFP, Ranchi

### ICFRE-Tropical Forest Research Institute, Jabalpur

- Organized demonstration programme on “Live Demonstration of high quality plant production in forest threatened plantation” on 16<sup>th</sup> January 2026. 170 students from PM Shree Government Girls High School, Patan (M.P.) participated in the programme.
- 85 students along with teachers from PM Shree Government Higher Secondary School, Belkhadu, Jabalpur visited ICFRE-TFRI, Jabalpur on 21<sup>st</sup> January 2026. They were briefed about various research activities of the institute.



Students from PM Shree Government Higher Secondary School, Belkhadu visited ICFRE-TFRI, Jabalpur

### ICFRE- Institute of Forest Biodiversity, Hyderabad

- Organized Nursery Development programme on 22<sup>nd</sup> January 2026 at Zila Parishad High School, Bahudurpally, Telangana. 40 students participated in the programme.



ICFRE-IFB, Hyderabad organized Nursery Development programme at Zila Parishad High School, Bahudurpally, Telangana

### Rajbhasha Activities

- ICFRE-IFB, Hyderabad organized workshop on “Science Journalism” on 27<sup>th</sup> January 2026. 20 official staff of ICFRE-IFB, Hyderabad participated in the workshop.



Workshop on “Science Journalism” at ICFRE-IFB, Hyderabad

### Memorandum of Understanding

- ICFRE (HQ) signed MoU with Forschungszentrum Nachbergbau- DMT Gesellschaft fur Lehre and Bildung mbH, Germany on 12<sup>th</sup> January 2026.
- ICFRE-TFRI, Jabalpur signed MoU with Maharaja Chhatrasal Bundelkhand University, Chattarpur (M.P.) on 05<sup>th</sup> January 2026 for Research, Education and Extension of Forestry discipline.



**MoU signed between ICFRE-TFRI, Jabalpur and Maharaja Chhatrasal Bundelkhand University, Chattarpur(M.P.)**

- ICFRE-IWST, Bengaluru signed MoU with M/S Asian Paints Limited, Numbai on 19<sup>th</sup> January 2026 for provide testing services and evaluate the termite resistance efficacy of four wood preservatives / coating materials developed by Asian Paints Limited.
- ICFRE-HFRI, Shimla signed MoU with Munger University, Bihar; and the Rubber Research Institute of India, Kottayam on 27<sup>th</sup> January 2026 for strengthen scientific cooperation, support quality research and capacity building, and assess the feasibility of cultivating crops such as Russian dandelion (*Taraxacum kok-saghyz*) and guayule (*Parthenium argentatum*) in Himachal Pradesh, Ladakh and Bihar.



**MoU signed between ICFRE-HFRI, Shimla and Munger University, Bihar; and the Rubber Research Institute of India, Kottayam**

### HR NEWS

#### Retirement

<u>Name of Officer</u>	<u>Date</u>
Dr. Rajib Kr. Borah, Scientist-G, ICFRE-RFRI, Jorhat	31.01.2026
Sh. Narendra Kumar Shringi, Under Secretary, ICFRE(HQ)	31.01.2026
Sh. Ajay Aggarwal, Section Officer, ICFRE-FRI, Dehradun	31.01.2026

#### Repatriation

<u>Name of Officer</u>	<u>Date</u>
Sh. Vinay Kumar, IFS(TG:1992) DDG(Admin), ICFRE(HQ)	16.01.2026
Sh. E. Venkat Reddy, IFS(AGMUT:2000), CF, ICFRE-IFB, Hyderabad	14.01.2026

#### Appointments on Deputation

<u>Name of Officer</u>	<u>Date</u>
Smt. Anshu Yadav, IFS(WB:2013), DCF, ICFRE-FRI, Dehradun	01.01.2026

**Research Paper:**

- Bhandari, M. S., & Singh, H. (2026). Enhancing Forest and Tree Cover Through Quality Planting Materials (QPMs): A Pathway to Achieve Carbon Neutrality and Future Sustainability. In *Forestry for a Carbon-Neutral and Sustainable Future: A Scientific Perspective*. Springer, 83-111.
- Chauhan, V., Singh, R., Chamoli, A., Singh, A. K., Pooja, Chand, T., and Singh, H. (2026). Climate-Smart Forestry: Strategies for Resilience and Sustainability. In *Forestry for a Carbon-Neutral and Sustainable Future: A Scientific Perspective*. Springer, 133-154.
- Hakobayan, N., Singh, H., Kumar, M., Kumar, P., Abrahamyan, A., Tomsayan, S., and Singh, R. K. (2026). Terrestrial carbon assessment in Armenia: insights into carbon cycle and estimation methods. In *Advanced Geospatial and Ground Based Techniques in Forest Monitoring*. Elsevier, 169-188.
- Kumar, P., Singh, H., Kumar, M., Hakobayan, N., Srivastav, M., & Singh, R. K. (2026). Classification of forest stands based on tree crown morphology and dimensions. In *Advanced Geospatial and Ground Based Techniques in Forest Monitoring*. Elsevier, 133-149.
- Malik, A., & Singh, H. (2026). Urban Green Spaces and Blue-Green Infrastructure: Pathways to Carbon Neutrality and Building Sustainable Cities. In *Forestry for a Carbon-Neutral and Sustainable Future: A Scientific Perspective*. Springer, 433-452.
- Mishra, G., Singh, K., Shah, S., Singh, M., & Singh, H. (2026). Mitigating the Impacts of Climate Change Through Forestry. In *Forestry for a Carbon-Neutral and Sustainable Future: A Scientific Perspective*. Springer, 273-297.
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- Singh, M., Mishra, G., & Singh, H. (2026). Policy Frameworks and Global Initiatives for Carbon Neutrality. In *Forestry for a Carbon-Neutral and Sustainable Future: A Scientific Perspective*. Springer, 203-231.
- Tripathy, A., Bharti, H. and Singh, A. P. (2026). First Report of an Intercaste of *Dolichoderus taprobanae* Smith, F., 1858 (Formicidae: Dolichoderinae) from India. In *Proceedings of the Zoological Society*. Springer India, 1-5.
- Yadav, R., Pandey, S., Chand, T., and Nautiyal, R. (2026). A scenario-based

approach to valuation of the Erosion Prevention Service in the Himalayan region. *Ecosystem Services*, 77, 101810.

- Ray, S., Kumar, R., Mithila, N. S., and Shukla, S. R. (2026). Red sanders bark extracts as effective bio-protective agents against fungal and termite degradation of plantation timbers. *RSC Sustainability*, 4(1), 551-565.
- Manohara, T. N., Balakrishna, S. M., & Suresh, H. S. (2026). Population Structure

and Regeneration dynamics of *Dalbergia latifolia* Roxb. in Peninsular India. *Journal of Tropical Forest Science*, 38(1), 87-103.

- Chakraborty S., Chandrashekar B.S., Manjunatha L., Arunkumar C.M. Ravi N., Malakar A. and Sinha, A. (2025). Influence of pH of seed soaking water and cow Dung-Urine Mixtures on Seed Germination and Early Seedling Growth of Indian Sandalwood (*Santalum album L.*). *Indian Forester*, 151(12):1140-1146.

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