



CENTRE OF EXCELLENCE

GOVERNMENT COLLEGE SANJAULI
SHIMLA-06, H.P.

Department of Zoology, Botany and
Environmental science

REPORT

Three Days Training Course for Other
stakeholders “Application of Bio-fertilizers and
Bio-pesticides in Forestry Practices” .

DATED :29/09/2024

Venue: Hotel The Ananda Kufri, Shimla
Host Institute: ICFRE-Himalayan Forest Research
Institute, Shimla, H.P.

The training program organized by the Himalayan Forest Research Institute (HFRI) aimed to provide participants with practical knowledge and applications of bio-fertilizers and bio-pesticides in forestry. The course saw participation from nearly 30 individuals, including six students and two faculty members from the Centre of Excellence Government College, Sanjauli; six students from St. Bede's College, Shimla; several gram panchayat members; and soldiers from the Eco Task Force. It was a highly engaging program featuring expert speakers, presentations, and field visits that facilitated an enriching learning experience.



On the first day, we had an inauguration and welcome address by Dr. Pawan Kumar, Training Coordinator, Scientist-F, and Head of the Forest Protection Division, ICFRE-HFRI, Shimla, who welcomed the participants. Following this, Akhil Kumar, CTO of the Forest Protection Division, ICFRE-HFRI, outlined the R&D activities of HFRI. The Chief Guest, Ms. Kanchan Devi, IFS, Hon'ble Director General of ICFR, delivered the inaugural address, emphasizing the importance of sustainable forestry practices.

Dr. Rajesh Kumar Jaryal, Asstt. Prof. (Zoology), Dept. of Biosciences, HPU, Shimla presented a very nice presentation on "Vermitechnology for Raising Socio-Economic Standards and Doubling Farmers' Income"

The Key Highlights were Vermicomposting, organic farming, and beekeeping as pollinators. The presentation provided valuable insights on how vermitechnology can enhance farm productivity and income.

Next presentation was on Bio-pesticides and Sustainable Development, Presented by Dr. Harinder Singh Banyal, Chairman, Dept. of Biosciences, HPU, Shimla. He described role of bio-pesticides in promoting sustainable agriculture and minimizing chemical use.



Then we had presentation on "Bio-pesticides & Bio-fertilizers: Impacts on Insect Pollinators & Role of Organic Farming" which was Presented by Dr. Mahender Thakur, Chairman, Dept. of Environmental Sciences, HPU, Shimla.

Key Highlights: The impact of bio-fertilizers on insect pollinators and the critical role of organic farming practices in preserving biodiversity. After lunch we had another amazing presentation on "Application of Bio-fertilizers in Forestry" which was presented by Dr. Ashwani Tapwal, Scientist-F, ICFRE-HFRI, Shimla. Key Highlights: Practical applications of bio-fertilizers to improve soil health and tree growth in forestry.

Last presentation of the day on "Bio-control Practices: An Effective Tool to Manage Insect Pests in Forests of N-W Himalaya" presented by Dr. Pawan Kumar, Scientist-F, ICFRE-HFRI, Shimla.

Key Highlights: Bio-control agents and their effectiveness in managing forest pests in the northwestern Himalayan region.

On second day we had a Field Visit to Shillaru Research Station and Experimental Sites.

Participants visited various experimental sites, including Hattu Peak and Naldehra, to observe the application of bio-fertilizers and bio-pesticides in real-world forestry settings.

Key Demonstrations includes:

Mycorrhizal Application and Bio-fertilizers in Nurseries and Plantations Led by Dr. Ashwani Tapwal, focusing on how bio-fertilizers improve plant health.



Application of Mycorrhiza in Plant Growth Demonstrated by Ms. Neha Thakur, Technical Assistant.

Bio-pesticide Application in Forest Nurseries Led by Dr. Pawan Kumar, focusing on pest management in forest nurseries.

Application of Bio-control Agents Demonstrated by Akhil Kumar, Chief Technical Officer, showcasing bio-control agents in action to manage pests effectively.

The field visit was a highlight of the training, providing hands-on experience to participants, who gained practical knowledge about bio-fertilizer and bio-pesticide applications in forestry.

On day 3rd we had a very engaging presentation on
"Modern Nursery Techniques and Quality Stock Production for Productivity
Enhancement"

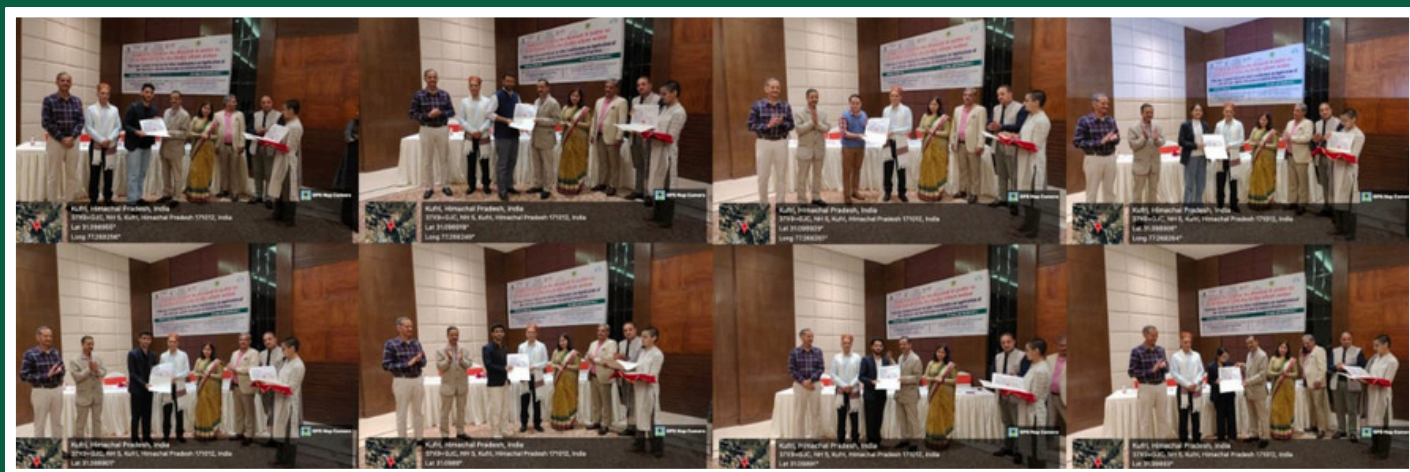
Which was presented by Dr. Sandeep Sharma, Director, ICFRE-HFRI, Shimla

Key Highlights were Importance of modern nursery techniques and polyhouses in enhancing productivity, particularly in vegetable and forestry production.

Next we had presentation on "Role of Bio-pesticides in Managing Insect Pests of North-West Himalaya"

Presented by Dr. Prakash Pathania, Scientist-E, ZSI, Solan, H.P.

Key Highlights: Methods to control insect pests using bio-pesticides, with a specific focus on the northwestern Himalayan region.



After session tea we had an amazing presentation on
"Current Challenges in Forestry Practices"

Which was presented by Mrs. Deep Shikha Sharma, IFS, Deputy Conservator of Forest, HFRI, Shimla.

Key Highlights: Mrs. Sharma shared her extensive experience across different regions, including Goa, Sikkim, and the Andaman Islands, providing an engaging discussion on the challenges faced by forestry professionals today

At last after lunch we had valedictory Session banna which was graced by the Chief Guest, Dr. Jagdeesh Chandra, Senior IFS Officer, who shared his vast knowledge and experiences in the forestry sector. His insights into forestry practices and their practical applications were highly appreciated by the participants.

The session concluded with a vote of thanks by Dr. Pawan Kumar, expressing gratitude to the participants, experts, and organizers for their valuable contributions.

Conclusion:

The three-day training program was a tremendous success, providing a comprehensive understanding of bio-fertilizers and bio-pesticides in forestry. Participants, gained practical knowledge through engaging presentations, hands-on field visits, and interactive discussions with experts. The training emphasized the importance of sustainable practices in forestry, organic farming, and bio-pesticide applications, contributing to long-term environmental benefits.



Participants left the program with a wealth of knowledge and a better understanding of how to implement bio-fertilizers and bio-pesticides in both academic and practical forestry contexts.

LIST OF STUDENTS

Sr. No.	Student's Name	Father's Name	Class	University Roll no.	Class Roll no.
1.	Vineet Ronta	Sh. Mahender Singh Ronta	B.Sc. 2 nd year	2231730209	23401067
2.	Hricha Sharma	Sh. Ajay Kumar	B.Sc. 3 rd year	2221730064	22401094
3.	Suryakant Negi	Sh. Anand Singh	B.Sc. 3 rd year	2221730174	22401056
4.	Ishan Thakur	Sh. Subhash Chand	B.Sc. 3 rd year	2221730067	22401055
5.	Vineeta Negi	Sh. Basu Dev Negi	B.Sc. 3 rd year	2221730191	22402008
6.	Tanish kimta	Sh. Inder Singh kimta	B.Sc. 2 nd year	2231730186	23401004

Reported by : Vineet Ronta
(B.Sc. 2nd year)