

INTEGRATED ECODEVELOPMENT RESEARCH PROGRAMME (IERP) IN THE HIMALAYAN REGION

Ongoing projects

1. Impact assessment and restoration of degraded monoculture plantation of natural rubber (*Hevea brasiliensis*) through understory development for diversified livelihood options in Tripura by **Dr. Sabyasachi Dasgupta**, Department Forestry and Biodiversity, Tripura University, Suryamaninagar, Agartala, Tripura.
2. Promotion of bamboo cultivation through skill development and capacity building training programme for strengthen rural livelihoods options and long-term climate change mitigations in Tripura linking biodiversity management committees (BMCs) at the villages Panchayat levels by **Prof. B.K. Datta**, Department of Botany, Tripura University, Suryamaninagar, Tripura.
3. Awareness and capacity building on eco-restoration and smart climate approach in the state of Tripura by **Dr. M.K. Shrivastava**, National Institute of Rural Development and Panchayati Raj, North Eastern Regional Centre, Khanapura, Guwahati, Assam.
4. Production of Geopolymer based construction material from fly ash: An Industrial Waste by **Dr. Prasant Kumar Rout**, Department of Material Science and Engineering, Tripura University, Suryamani Nagar, Tripura, India.
5. Development of protocol along with hands-on training for commercial cultivation of Novel wild edible mushrooms of Tripura, Northeast India by **Prof. Ajay Krishna Saha**, Department of Botany, Tripura University, Suryamaninagar, Tripura.
6. Indigenous medicinal and aromatic plants theme park at Shkentalang, Amlarem Block, Meghalaya by **Shri A.S. Suting**, State Council of Science, Technology & Environment, Nongrim Hills, Shillong, Meghalaya.
7. Promotion of promising horticultural crops in degraded ecosystem and abandoned jhum lands in Arunachal Himalaya for improvement of livelihood by **Dr. B. Singh**, Department of Forestry, NERIST, Nirjuli-791109, Itanagar, Arunachal Pradesh.
8. Bio-control of fungal disease of large cardamom (*Amomum subulatum*) using antagonistic microorganism(s)/ botanicals/ indigenous traditional knowledge based formulation by **Dr. Niladri Bag**, Associate Professor, Department of Horticulture, Sikkim University, Tadong, Gangtok, Sikkim.
9. Micropropagation of *Litsea cubeba* (Lour.) Pers: an indigenous plant of North-East, India for genetic conservation by **Dr. Madhu Kamle**, Department of Forestry, North Eastern Regional Institute of Science & Technology, Nirjuli, Arunachal Pradesh.
10. Study of diversity of rice in Karbialong district of Assam: Implication for biodiversity conservation under changed climate condition by **Dr. Ranjan Das**, Department of Crop Physiology, Assam Agriculture University, Jorhat-785013, Assam.
11. Status survey and potential threats of threatened Mishmi Takin (*Budorcas taxicolor*) and its conservation through sensitization of local communities in Eastern Arunachal Pradesh,

India by **Dr. Awadhesh Kumar**, Department of Forestry, NERIST, Nirjuli -791109, Itanagar, Arunachal Pradesh.

12. Sustainable management and utilization of non-timber forest products (NTFPs) of plant origin in Tawai Wildlife Sanctuary by **Dr. Lallawmkimi** Pachhunga University College, Aizawl, Mizoram.

13. Lichens as a tool monitoring forest health in Dampa Tiger Reserve, Mizoram by **Dr. Awadhesh Kumar**, Mizoram University, Aizawl, Mizoram.

14. Status and perception of Forest Invasive Plants in Barak Valley, Assam by **Dr. Panna Deb**, Assam University, Silchar, Assam.

15. Biodegradation of keratin rich solid waste by Keratinolytic fungi from Himalayan and sub Himalayan region of Northeast India by **Dr. Sanjeev Kumar**, Assam University, Silchar, Assam.

16. Assessment of ecological impact, economic viability and management of oil palm, *elaeisguineensis* plantation in Kolasib district, Mizoram by **Dr. H. Lalruatsanga**, Pachhunga University College, Aizawl, Mizoram.

17. Characterization and value added products of *Garcinia* genetic resources for rural livelihood improvement in Mizoram by **Dr. Kewat Sanjay Kumar**, Mizoram University, Tanhril, Aizawl- Mizoram.

18. Development of disease resistant superior variety of bhut jolokia (*Capsicum chinense* Jacq.) through backcross breeding by **Dr. Mohan Lal**, Medicinal Aromatic Plant Group, BSTD North-East Institute of Science and Technology, Jorhat, Assam.

19. Evaluation of bamboo houses for earthquake resistance by **Dr. Hemant B. Kaushik**, Indian Institute of Technology, Guwahati, Assam.

20. Morphological and molecular characterization of insect pests and fungal pathogens of ginger (*Zingiber officinale Roscoe*) in Champhai and Serchhip, districts of Mizoram by **Dr. Vanramliana**, Pachhunga University College, Aizawl, Mizoram.

21. Spatial ecology and conservation of sympatric carnivores by integrating local communities livelihood in Murlen National Park, Mizoram, India by **Dr. Netrapal Singh Chauhan (Co PI Prof. G. S. Solanki)**, Amity Institute of Forestry and Wildlife, Amity University Campus, Sector-125, Noida, U.P.

22. Springwater conservation and its development under climate change scenario, West Phaileng, Mizoram by **Dr. Lalsangzela Sailo**, Department of Civil Engineering, Mizoram University, Tanhril, Aizawl, Mizoram.

23. Documentation of ornamental fish diversity, development of breeding techniques and empowerment of fishermen in the downstream of Ranganadi Dam, North-East, India by **Dr. Pavitra Chutia**, Department of Life Sciences, D.R. College, Golaghat, Assam.

24. Application of agricultural/forest waste biochar and organic amendments on soil nutrient recovery and carbon pool in Jhum Lands of Mizoram by **Dr. Uttam Kumar Sahoo**, Mizoram University, Tanhril, Mizoram.
 25. Revival of traditional source of water in Kumaun hills by **Mr. Rajendra Kandpal**, Mahila Haat, 19 Palika Baaar, Chughan Pata, Almora, Uttarakhand.
 26. Livelihood options addressing impacts of climate change and Wildlife treats to the Hill Farming of Uttarakhand by **Dr. B.P. Kothyari**, Ashirbad, (Association for Himalayan Rural Bio-Agro Development) Talla Chinakhan, Almora, Uttarakhand.
 27. Movement in space and time: Ecology of Red fox in upper Tawang Valley, Eastern, Himalaya, India by **Dr. Bilal Habib**, Department of Animal Ecology and Conservation Biology, Wildlife Institute of India, Chandrabani, Dehradun, Uttarakhand
 28. To introduce *eremostachys superba* as an ornamental in commercial trade for social upliftment with more earnings of marginal farmers by **Dr. Y.P.S. Pundir**, Department of Botany, DBS Campus, Dehradun.
 29. Studies on propagation of pecan nut (*Carya illinoensis*)- A highly economical important nut by **Dr. D.K. Singh**, Uttarakhand Council for Biotechnology, Biotech Bhawan, Haldi, US Nagar.
 30. Landslides hazard zonation and risk assessment of North Sikkim with their significance on environment in the state of Sikkim by **Dr. Varun Joshi**, Guru Govind Singh Indraprastha University, Dwarka, N. Delhi.
 31. Bioprospecting high altitude small millets for capacity building of hill people by **Dr. Neha Pandey**, Assistant Professor, Department of Biotechnology, Graphic Era University, Dehradun.
 32. Promotion of conservation and development of Agro-techniques and quality planting material of highly valued and high risk plant species "*Paris polyphylla* (Satuwa) by Dr. Babita Patni, HAPPRC, HNB Garhwal University, Srinagar, Garhwal.
 33. Build resilience of reverse migrants to effectively engage in natural resource based enterprises through entrepreneurship capacity development by **Mr. Brij Mohan Kandpal**, Secretary, SIMAR, Village - Haat-Kalyani, Dewal, Chamoli, Uttarakhand.
 34. Developing bee-keeping as a sustainable livelihood option for marginal women farmers in hill districts of Kumaun region by **Mr. Deep Chandra Bisht**, Secretary, SPARDHA, Ishwari Bhawan, Pokharkhali, Almora, Uttarakhand.
 35. Bark Thickness analysis of tree species of forests of Uttarakhand to plan management strategy to deal with forest fires by **Mr. Ripu Daman Singh**, Appropriate Technology India (AT India), KalyanKunj, Panditwadi, Dehradun, Uttarakhand.
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