

## Bhaskar Sinha, Ph.D.

Faculty in Ecosystem and Environment Management

Chairperson: Centre for Climate Change Studies

Post Box No.: 357Nehru Nagar, Bhopal-462003

Madhya Pradesh, India

<b>Professional Experience</b>	<ul style="list-style-type: none"><li>• More than fifteen years of experience in interdisciplinary research, consultancy and teaching on issues related to climate change, adaptation and mitigation, sustainability, integrated natural resource management, biodiversity conservation &amp; livelihood, and interface between social and ecological issues</li><li>• Completed more than 20 research/consultancy projects and training programmes with the support of national and international agencies including UNDP, GIZ, MoRD, MoEF&amp;CC, DST, DBT, GoMP, World Bank-WWF Alliance, Forest PLUS on various contemporary issues related to Climate Change, Sustainability and Natural Resource Management.</li><li>• Authored more than 40 papers in national and international journals including four books.</li><li>• Contributed as one of the expert reviewers to provide comments on the First Order Draft of the Working Group III (Mitigation to Climate Change) Contribution to the IPCC AR6 report.</li><li>• Research Advisor to Nan Yang Academy of Science (Singapore)</li></ul>
<b>Education</b>	M.Sc., M.Phil., & Ph.D. in Environmental Science from Jawaharlal Nehru University, New Delhi.
<b>Selected Publications</b>	<ol style="list-style-type: none"><li>1. <b>Sinha, B.</b> and Maikhuri, R.K., 1998. <i>Conservation Through Socio-cultural-religious Practice in Garhwal Himalayas: A Case Study of Hariyali Sacred Site</i>. In: P.S.Ramakrishnan, K.G Saxena and U.M Chandrashekara (Editors), <i>Conserving the Sacred: For Biodiversity Management</i>. UNESCO and Oxford &amp; IBH Publishing Company, New Delhi, pp.289-300.</li><li>2. <b>Sinha, B.</b>, Ramakrishnan, P.S., Bhadauria, T., Saxena, K.G. and Maikhuri, R.K., 2002. Impact of landscape modification on earthworms' diversity in Hariyali sacred landscape, Garhwal Himalaya. <i>Pedobiologia</i>, 47 (4): 357-370.</li><li>3. <b>Sinha, B.</b>, Ramakrishnan P. S., Saxena, K. G. and Maikhuri R. K. 2003. The Concept of Sacred Linked to Biological Resource Management in the Himalayan Culture. In: E. Ehlers (Editor), <i>Environment Across Cultures</i>, Springer-Verlag, Heidelberg, pp. 197-204.</li><li>4. Singh, K.D and <b>Sinha, B.</b> 2003. Research needs on community based sustainable management of non-timber forest produce. In: <i>Proceedings of National Workshop on Technological Innovations and Research Advancements for Application in Joint Forest Management</i>, February 3-4, 2003. Indian Council of Forestry Research and Education, Dehradun (FRI), India.</li><li>5. <b>Sinha, B.</b> and Singh, K.D. 2003. Community-based management of natural resources: A case study of Kandhamal district of Orissa. In: <i>Proceedings of the conference on Policies, Management, Utilization and Conservation of Non-Timber Forest Products (NTFPs) in the South Asia Region</i>, April 28-30, 2003. ATREE, Bangalore.</li></ol>

6. Singh, K.D., **Sinha, B.** and Mukherji, S.D. 2005. *Exploring options for Joint Forest Management in India*, by Forestry Policy and Institutions Working Paper No. 7. FAO, Rome.
7. Singh, K.D., Singh, J.P. and **Sinha, B.** 2006. Trends in forest ownership, forest resources tenure and institutional arrangements: are they contributing to better forest management and poverty reduction? Case studies from Orissa, India. In: FAO, understanding forest tenure in South and Southeast Asia, Forest Policy and Institution Working Paper 14. FAO, Rome, pp. 81-114.
8. Singh, K.D. and **Sinha, B.** 2008. Exploring options for Joint Forest Management in India. In: P. Bhattacharya, A.K. Kandya and K.N. Krishna Kumar, Aavishkar, 2008.
9. **Sinha, B.** 2007. A book review of The Economics of Biodiversity Conservation: Valuation in Tropical Forest Ecosystems by Ninan et al., *Down to Earth*, Delhi.
10. **Sinha, B.** 2008. "Potential of community based forest management in Conservation and Livelihoods: A case study of Orissa". IIFM Communiqué 11(3) 6-7.
11. **Sinha, B.** 2010. Role of Community Forest Management in Orissa: A Scientific Assessment, Seronica, Vol.1, No. 1, January 2010, pp. 10-13.
12. **Sinha, B.** Basu, A. and Katiyar, A.S. 2010. Carbon Sequestration options in Forestry in India Infrastructure Report 2010.407-412.
13. **Sinha, B;** Basu, A; Katiyar, AS. 2011. Adapting to Climate Change: Opportunities under MGNREGA. Presented in the conference on Sustaining Commons: Sustaining Our Future, the Thirteenth Biennial Conference of the International Association for the Study of Common Property, Jan10-14, Hyderabad (<http://dlc.dlib.indiana.edu/dlc/handle/10535/7144>)
14. **Sinha, B. &** Singh, K.D. 2011. Achieving Conservation and Livelihood: A Case Study from Orissa, India. Presented in the conference on Sustaining Commons: Sustaining Our Future, the Thirteenth Biennial Conference of the International Association for the Study of Common Property, Jan10-14, Hyderabad (<http://dlc.dlib.indiana.edu/dlc/handle/10535/7208>)
15. Singh, K.D., **Sinha, B.**, Sutar, P.C. 2011. Building entrepreneurial capabilities in scheduled areas of Orissa, *Indian Forester*, 137 8(a): 27-32.
16. Yadava, RN and **Sinha, B.** 2013. A Review of Corporate Sustainability Reporting; Global and National Scenario G- *Journal of Environmental Science and Technology* 1(3): 76-81.
17. Esteves, T., Rao, KV, **Sinha, B.** et al., 2013. Agricultural and Livelihood Vulnerability Reduction through the MGNREGA, *Economic and Political Weekly*, xlviii (52): 94-103.

18. Yadava, RN and **Sinha. B.** 2015. Scoring Sustainability Reports Using GRI 2011 Guidelines for Assessing Environmental, Economic, and Social Dimensions of Leading Public and Private Indian Companies, *Journal of Business Ethics*. 138 (3): 549-58.  
( <http://link.springer.com/article/10.1007/s10551-015-2597-1> )
19. **Sinha, B.** and Mishra, S. 2015. Ecosystem services valuation for enhancing conservation and livelihoods in a Sacred Landscape of the Indian Himalayas, *International Journal of Biodiversity Science, Ecosystem Services & Management*, 11 (2), 156-67.
20. **Sinha, B.**, Jha, S.K., Khare, A.K. 2015. Assessing the Potential of Incentive based Plantation Involving People's Participation. *Indian Forester*, 141 (4): 439-47.
21. Ghosh, M. and **Sinha, B.** 2016. Impact of Forest Policies on Timber Production in India: A review. *Natural Resources Forum* (DOI: 10.1111/1477-8947.12094).
22. Jha, S. K., &**Sinha, B.** (2017). Benefit Sharing Mechanism for Operationalization of REDD+ in India. *Indian Forester*, 143(5), 421-430.
23. Yadava R.N &**Sinha B**, 2016 Strengthening Adaptive Capacity to Climate Change Vulnerability: Opportunities through Corporate Social Responsibility. In B.S. Sahay, et.al. (eds.) *CSR Corporate Social Responsibility the New Paradigm*, BLOOMSBURY, New Delhi, p. 102-122.
24. Jha, S.K., Mishra.S., **Sinha, B.**, Alatalo, J.M., Pandey, R. 2017. Rural Development Program in Tribal Region: A Protocol for Adaptation and Addressing Climate Change Vulnerability, *Journal of Rural Studies*, 51: 151-157
25. **Sinha B**, Basu A and Ghosh M. 2017, Role of Mahaama Gandhi National Rural Employment Guarantee Act (MGNREGA) in Contributing Towards Sustainable Rural Development: A Case Study of Dhar District, Madhya Pradesh. In P Dutta and S Majumdar (eds) *Sustainable Development Goals Perspectives from the Indian Villages*, Excel India Publishers, New Delhi, p.141-147.
26. **Sinha B.**, Singh D.N., Basu A., Ghosh M. (2017) Application of Remote Sensing in Assessing the Impacts of Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA), in Ratlam District, Madhya Pradesh, India. In: Hazra S., Mukhopadhyay A., Ghosh A., Mitra D., Dadhwal V. (eds) *Environment and Earth Observation. Springer Remote Sensing/Photogrammetry*. Springer, Cham. [https://doi.org/10.1007/978-3-319-46010-9\\_6](https://doi.org/10.1007/978-3-319-46010-9_6)
27. Yadava R N and **Sinha B.** 2017, Content Analysis of Top Profit Making Companies towards Sustainability and Sustainable Development. In P Dutta and S Majumdar (eds) *Sustainable Development Goals Perspectives from the Indian Villages*, Excel India Publishers, New Delhi, p.230-239.

28. Devi R M, **Sinha B**, Dimri A P and Saran S. 2017. Application of Regional Climate Models in assessing climate change impact in forest of Kanha Tiger Reserve, *Indian Forester*, 143(9):921-927.
29. **Sinha, B.** 2017. Benefit Sharing Mechanisms under REDD+: Learning from the Joint Forest Management Program. In *Managing Forests in a Changing Climate: Emerging Concepts and their Operationalization*, US AID, 233- 253.
30. Devi R M, Patasaraiya M K, **Sinha B**, Saran S, Dimri A P, Jaiswal R K. 2018. Understanding the linkages between climate change and forest, *Current Science*, 114 (5): 987-96.
31. Ghosh M. & **Sinha B.** 2018 Policy analysis for realizing the potential of timber production from Trees Outside Forests (TOF) in India, *International Forestry Review* Vol.20(1), 89-103.
32. Ghosh M. & **Sinha B.** 2018 Institutional Imperatives for Promoting Trees Outside Forests (TOFs) to Enhance Timber Production in India, *Small Scale Forestry* DOI: <https://doi.org/10.1007/s11842-018-9407-4>
33. **Sinha B.** & Yadava RN. Promoting sustainability through corporate social responsibility : An Indian perspective in book Borland, H. (2019). *Business Strategies for Sustainability, 1st Edition*. [VitalSource]. Retrieved from <https://bookshelf.vitalsource.com/#/books/9780429858970/>
34. Devi, R. M., **Sinha, B.**, Bisaria, J., and Saran, S.: Multitemporal Analysis of Forest Cover Change Using Remote Sensing and GIS OF Kanha Tiger Reserve, Central India, *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLII-5, 211-219, <https://doi.org/10.5194/isprs-archives-XLII-5-211-2018>, 2018
35. Patasaraiya, M. K., **Sinha, B.**, Bisaria, J., Saran, S., and Jaiswal, R. K.: Assessing Impacts of Climate Change on Teak and Sal Landscape Using MODIS Time Series Data, *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLII-5, 305-313, <https://doi.org/10.5194/isprs-archives-XLII-5-305-2018>, 2018.
36. Yadava, RN and **Sinha, B.** 2019. Developing energy access index for measuring energy poverty in forest fringe villages of Madhya Pradesh, India, *Sustainable Energy Technologies and Assessments*, 31:167-178. <https://doi.org/10.1016/j.seta.2018.12.013>
37. Yadava, R.N.; **Sinha, B.** 2020 Vulnerability Assessment of Forest Fringe Villages of Madhya Pradesh, India for Planning Adaptation Strategies, *Sustainability* 2020, 12, 1253. (<https://doi.org/10.3390/su12031253>)
38. Devi, R.M., Patasaraiya, M.K., **Sinha, B.**, Bisaria, J., & Dimri, A.P. 2020. Analyzing precipitation and temperature trends of Kanha and Satpura Tiger Reserve, Central India. *Theoretical and Applied Climatology*, 140: 1435–1450.

	<p>39. Patasaraiya, M.K., Devi, R.M., <b>Sinha, B.</b>, Bisaria, J., Saran, S., and Jaiswal, R. 2021. Understanding the Resilience of Sal and Teak Forests to Climate Variability Using NDVI and EVI Time Series. <i>Forest Science</i>, 67 (2): 192-204. <a href="https://doi.org/10.1093/forsci/fxaa051">https://doi.org/10.1093/forsci/fxaa051</a></p>
<p><b>Books/ Reports/ Proceedings</b></p>	<ol style="list-style-type: none"> <li>1. Singh, K.D., <b>Sinha, B.</b> and Sutar, P.C., 2009. <i>Community based Forest Management with Micro Enterprise for Poverty Reduction</i>. Bishen Singh Mahindra Pal Singh, Dehradun.</li> <li>2. <b>Sinha, B.</b> (ed). 2010. Proceedings of a workshop on “<i>Integrating Conservation &amp; Sustainable Livelihood Strategies in the Forestry Sector Planning</i>” Indian Institute of Forest Management, Bhopal</li> <li>3. <b>Sinha, B.</b> 2011. <i>Ecological Analysis of A Sacred Landscape in GarhwalHimalya, India: An interdisciplinary study</i>, Lambert Academic publishing, Germany</li> <li>4. <b>Sinha, B.</b>, Basu, A., Katiyar, A.K. 2011. <i>Impact Assessment of MGNREGA’s Activities for Ecological and Economic Security</i>, IIFM.</li> <li>5. Esteves T., Rao K V, <b>Sinha, B.</b> et al. 2013. <i>Environmental Benefits and Vulnerability Reduction through MGNREGS: Synthesis report</i>, MORD &amp; GIZ, New Delhi.</li> <li>6. <b>Sinha, B</b> and Jha S K, 2017. <i>Vulnerability and Capacity Assessment to Climate Change of Malwa region, Madhya Pradesh</i>, Bishen Singh Mahindra Pal Singh, Dehradun.</li> <li>7. <b>Sinha, B.</b>, Vasisht, A., Omprakash, M.D., Ghosh, M., Devi, R.M., Patasaraiya, M.K., Yadava, R.N., Kinhal, G.A., and Bisaria, J. 2018 <i>Opportunities of Renewable Energy Interventions in Forest Fringe Villages of Madhya Pradesh</i>, Bishen Singh Mahindra Pal Singh, Dehradun.</li> </ol>
<p><b>Projects/ Grants undertaken</b></p>	<ol style="list-style-type: none"> <li>1. Sustaining Critical Natural Resources through Enhancement of Agricultural Productivity funded by <b>Dept. of Biotechnology, Govt. of India</b> (October 2004-October 2007)</li> <li>2. Exploring Option for Joint Forest Management in India funded by <b>World Bank/WWF Alliance</b>, October 2002-2004.</li> <li>3. Workshop on Accelerating Implementation of National Forest Programme: Strategies and New Directions funded by <b>FAO</b>, Bangkok, 2004</li> <li>4. Integration of the Traditional and Scientific Knowledge for Conservation and Sustainable Use of Biological Diversity with Equitable Sharing of Benefits funded by Small Grant Programme of <b>UNDP-GEF</b> (October 2004-2006)</li> <li>5. Techniques of Survey and Planning for Conservation and Sustainable Use of Biodiversity in Mizoram, North East Region funded by <b>MoEF</b> (March 2007 to March 2008)</li> <li>6. Enhancing Livelihoods of Forest Dependent Communities through Synergizing FDA Activities with Other Development Programmes, funded by RCNAEB, <b>MoEF, Govt. of India</b>, 2008.</li> </ol>

	<ol style="list-style-type: none"> <li>7. Impact Assessment of NREGA's Activities for Ecological and Economic Security, funded by <b>UNDP</b>, New Delhi (June 2009)</li> <li>8. Economic Valuation of Ecosystem Services of a Sacred Landscape in Garhwal Himalaya: A Case Study, funded by <b>IIFM</b> May 2009-10</li> <li>9. Monitoring of Integrated Natural Resource Management &amp; Poverty Reduction in Haryana, funded by <b>JICA/Haryana Forest Department</b> 2009</li> <li>10. National Workshop on Integrating Conservation and Sustainable Livelihood, Strategies in the Forestry Sector Planning, funded by RCNAEB, <b>MoEF, Govt. of India</b> (February, 2009)</li> <li>11. Documentation and Assessment of Village forest communities based on Criteria &amp; Indicators for Sustainable Forest Management in Chhindwara, M.P. funded by RCNAEB, <b>MoEF, Govt. of India</b> (10-11)</li> <li>12. Exploring the possibilities of CDM Afforestation/Reforestation Projects in Ratlam, MP, funded by RCNAEB, <b>MoEF, Govt. of India</b> (10-11)</li> <li>13. Draft State Action Plan on Climate Change of MP, funded by <b>EPCO, Govt. of MP</b>. 2011</li> <li>14. Identifying the Scope for Enhancing Sustainability of Assets Created Under MGNREGA, funded by <b>MoRD, GOI</b>, 2011</li> <li>15. Assessment of Environmental Services, Vulnerability Reduction and Institutional Arrangements for MGNREGA in Madhya Pradesh, funded by <b>GIZ</b>, New Delhi, 2012</li> <li>16. Compilation of the Chapter for Document for Operationalization of REDD+ in India., funded by <b>MoEF</b>, 2013</li> <li>17. Vulnerability and capacity assessment of tribal and non-tribal communities of Malwa region, MP, funded by <b>IIFM</b>, 2013</li> <li>18. Assessment of energy status and opportunities for use of alternate energy sources in Forest Villages of Madhya Pradesh: <i>Enabling a paradigm shift in Carbon Balance</i>, Funded by <b>MP CDM Agency, Govt. of MP</b>, 2015.</li> <li>19. Developing Evaluation and Monitoring Framework for Enhancing Adaptive Capacity through Climate Smart Interventions in the Selected Villages of Madhya Pradesh. Funded by <b>EPCO, Government of MP</b>, 2017.</li> <li>20. Developing Climate Change Adaptation Strategies for Sal and Teak Dominated Landscape of Central India, <b>UNDP &amp; Ministry of Environment Forest &amp; Climate Change, Govt. of India</b>, 2017.</li> <li>21. Human Capacity building on "Approach for Effective Planning and Implementation of Climate Adaptation Strategies in Himalayan States" funded by <b>DST, Govt. of India</b>. 2017</li> <li>22. Assignment on Weightage of Climate Smart Agriculture Code, by <b>Soldaridad Network Asia Ltd</b>, 2020</li> <li>23. Study of forest influences on dynamics of river ecosystem with respect to climate change: A study in selected watershed of Dindori district. <b>Funded by IIFM, Bhopal November, 2020</b></li> <li>24. Independent External Program Evaluation - HCL Grant 2017 Recipient in Environment Category <b>Funded by HCL Foundation, July 2021</b></li> </ol>
<p><b>Important Workshops and Seminars attended</b></p>	<ul style="list-style-type: none"> <li>• Participated in the poster session at the conference on Environment Across Cultures organised by European Academy for the Study of Consequences of Scientific and Technological Advance, Bad Neuenahr-Ahrweiler (Germany) and International Human Dimensions Programme on Global Environmental</li> </ul>

Change, Bonn held at Bad Neuenahr-Ahrweiler, Germany, September 21-23, 1999.

- Presented a talk titled 'Assessing Traditional Institutions for Conservation: A Methodological Case Study on Community Based Forest Management in Orissa, India' at the First DIVERSITAS Open Science Conference held in Oaxaca, Mexico from the 9 - 12 November 2005.
- Presented a talk on 'Livelihood Enhancement through Sustainable Forest Management: A Case Study of Baripada Block, Mayurbhanj, Orissa' at The Ninth Biennial Conference of The International Society for Ecological Economics on: "Ecological Sustainability and Human Well-being" Delhi, December 16-18, 2006.
- Presented a poster entitled "A Scientific Approach to Design Forest based Livelihood-enhancement Programme" at the International Conference on A Global Vision of Forestry in the 21st Century, Sept 30-October 3, 2007. University of Toronto, Canada.
- Participated in the International Seminar on "Rural Poverty – Key Initiatives in achieving Millennium Development Goals and the Role of NREGA", organized by Ministry of Rural Development, Govt. of India and UNDP during January 21-22, 2009 at New Delhi.
- Participated in the Discussion as a Panelist organized by Doordarshan, Bhopal on the occasion of World Forestry Day (Discussion held on 19.3.09)
- Participated in the "Workshop on Leveraging NREGA for Sustainable Development through inter-sectoral Convergence" on May 06, 2009 at New Delhi.
- Participated in the National Workshop on "NREGA: A step towards Governance Reform, Transparency and Accountability" being organized by the Ministry of Rural Development, Dept. of Rural Development, Govt. of India scheduled on August 20, 2009 at VigyanBhawan, New Delhi
- Participated in a workshop on "Impact of climate change on health and to better understand the current knowledge and how we as an organisation can prioritise action to respond to climate change risks in the health sector" organized by DFID at Hyderabad, September 17-18, 2009.
- Participated as Expert in the 13th Meeting of Expert Group on Conservation and Sustainable Utilization of Natural Resources at ParyavaranBhavan, MoEF, New Delhi, 6-7 October 2009
- Participated and made presentation in the meeting to discuss Convergence for enhancing Productivity in the 13 districts of Bundelkhand and in selected pilot

districts held at Orchha on October 13, 2009 organized by Ministry of Rural Development.

- Participated and presented paper on “Sustaining in Low Carbon Economy in India: Options in Agriculture and Forestry “ in the IIR 3020 Writers’ Workshop held during February 06-07, 2010 at India Habitat Centre, New Delhi, organized jointly by IDFC, IIM-A and IIT-K.
- Attended and Presented the progress of the report titled” Impact Assessment of NREGA’s Activities for Ecological and Economic Security” in PIN Workshop, organized by MORD, GOI, New Delhi (August 13, 2010)
- Presented a paper titled “Achieving Conservation and Livelihood: A Case Study from Orissa, India” in the conference on Sustaining Commons: Sustaining Our Future, the Thirteenth Biennial Conference of the International Association for the Study of Common Property, Jan10-14, 2011 Hyderabad
- Presented a paper titled “Adapting to Climate Change: Opportunities under MGNREGA” in the conference on Sustaining Commons: Sustaining Our Future, the Thirteenth Biennial Conference of the International Association for the Study of Common Property, Jan10-14, 2011 Hyderabad
- Participated as a technical expert in the workshop on “MGNREGA and Environmental Services” organized by GIZ in collaboration with MORD and IISc., 19-20th July 2011, Bangalore.
- Participated and delivered a lecture on Climate Change: Adaptation & Mitigation in the seminar on “Enhancing Earnings through Carbon Credits” at The Institution of Engineers (India) premises, Bhopal organized by Indian Institution of Industrial Engineering, Bhopal, 24 September 2011.
- Delivered a lecture on “Assessing MGNREGA for Ecological and Economic Security” at consultation on “Empowering Lives through MGNREGA: Strengthening the Reform Agenda”, jointly organized by MORD and UNDP 14th November 2011, New Delhi.
- Participated as an expert and contributed at workshop on Methods for NREGA organized by GIZ, December 20, 2011, Bangalore.
- Organized and conducted jointly with Dr. MD Omprakash a pre-congress workshop on Urban Green Spaces: Standards and Certification during International Congress on Urban Green Spaces” March 5-7, 2012, Delhi
- Participated and contributed in the international workshop on “Towards Greening Rural Development Programmes in India” organized jointly by MORD & UNDP on May 14, 2012 in New Delhi
- Participated and presented paper of findings in the workshop on “MGNREGA and Environmental Services” at SIRD in Hyderabad on Oct. 13, 2012.



- Presented a paper on “Opportunities for Rehabilitation of Barren Lands through REDD+ : A case study of Ratlam District, M.P.”, at Regional Level Consultation on Preparedness for REDD+ at Bhopal on November 8 - 9, 2012.
- Participated and contributed in the international workshop on “Towards Greening Rural Development Programmes in India” organized jointly by MORD & UNDP in New Delhi on May 14, 2012.
- Delivered a lecture on CDM Mitigation and Adaptation in Forests at RCVP Noronha Academy, Bhopal at the Training Programme on Climate Change: Relevance to Forestry Sector on Feb. 22, 2013.
- Participated as a Resource Person and also as a panelist in the concluding session of the Regional Workshop on REDD+ at Kohima during Feb. 07-10, 2013.
- Participated as a Resource Person in Regional Workshop on REDD+ at Bangalore during Jan. 21-23, 2013.
- Participated and presented on “Valuation of Ecosystem services for Enhancing Conservation and Livelihood in Hariyali sacred Landscape of Garhwal Himalayas’, Organised by BAIF, Pune, January 29-30, 2014.
- Participated in the National Consultation on Developing a Tier III MRV System for the Forestry Sector in India, organized by Forest PLUS and MoEF, New Delhi June 17, 2014
- Delivered a lecture on “Global climate Change” in the training program on “Global Climate Change, Greenhouse Gas Inventories, Vulnerability, Mitigation and Adaptation” organized by Forest PLUS at Pachmarhi (22-23 Sept. 2015)
- Participated in the Regional Workshop on “Review and Revision of Forest Policy” held at Hyderabad (3-4 Sept. 2015)
- Participated and represented IIFM view in the Annual Training Conference conducted by National Institute of Disaster Management, New Delhi (8th March 2016)
- Participated and delivered a lecture during training programme on State Forest Officers on “Ecosystem Approach to Forest Management” on Sept. 13, 2016 at Gangtok.
- Delivered a lecture on "Climatic Variability on sustainability of Natural Resources" during the training course on "Integrated Lake Basin and Management" for college teachers/professors, organized by EPCO Institute of Environmental Studies (EIES), 29 Sept, 2016

- Participated and delivered a lecture during training programme on State Forest Officers on “Ecosystem Approach to Forest Management” on 20th September 2016 at Shimla.
- Participated and shared experience on symposium on “Sustainability in Education” organized by WIPRO Sustainability group during 21-22 October 2016 held at Ahmedabad
- As a board member of Solidaridad attended General Board meeting held on 19th January 2017 at Neemrana, Rajasthan
- Attended a consultation workshop of National Mission for Sustaining the Himalayan Ecosystem (NMSHE) organized by IISc. held on 19th June 2017 at Bangalore
- Participated and delivered a lecture on "Climatic Variability on sustainability of Natural Resources" during the training course on "Integrated Lake Basin and Management" for college teachers/professors, organized by EPCO Institute of Environmental Studies (EIES), 29 Sept, 2016.
- Participated and shared experience on symposium on “Sustainability in Education” organized by WIPRO Sustainability group during 21-22 October 2016 held at Ahmedabad.
- Attended General Board Meeting of Solidaridad as a board member held on 19th January 2017 at Neemrana, Rajasthan.
- Participated as a panelist in the conference on “Sustainable Landscapes and Forest Ecosystems: Theory to Practice”, Organized by USAID and Forest PLUS, 12 - 13 Sept, 2017, New Delhi
- Organized a half-day workshop on “Forest-PLUS learning Management System (LMS) Orientation, at IIFM, Sept 5, 2017
- Organized Stakeholders’ Consultation Workshop for the Green Forestry Sector Under GTWG Project in collaboration with TIFAC, 12-13 Oct. 2017, Bhopal
- Conducted a 5-days training program on “Climate Change Adaptation for Natural Resource Management” in collaboration with Manipur Forest Department for different state officials and stakeholders related to climate change at Imphal, November 13-17, 2017.
- Conducted a 5-days training program on “Climate Change Adaptation for Natural Resource Management” in collaboration with NERIST for different state officials and stakeholders related to climate change of Arunachal Pradesh at Itanagar, January 15-19, 2018.
- Participated as a board member in general body meeting of Solidaridad, Dhaka, September 5, 2018

	<ul style="list-style-type: none"> <li>• Participated as an expert in a workshop on Building Climate Resilience of Central India Dryland region, organized by Panchayat and Rural Development and Climate change center, IPE Global, 24th September, 2019 at Raipur.</li> <li>• Participated as a resource person in a training programme on “Climate Change Adaptation for Natural Resource Management” for the officials of Manipur state, February 18-22, 2019 at Imphal.</li> <li>• Participated in a Workshop on Loss and Damage due to climate change, organised by GIZ and MoEF&amp;CC, 16th April 2019, Delhi.</li> <li>• Participated as a Panelist in training programme on Air Quality Management, organized by Environmental Planning and Coordination Organization (EPCO), Department of Environment, Govt. of Madhya Pradesh in collaboration with Clean Air Asia (CAA), New Delhi, 27-28 February 2020 at Bhopal.</li> <li>•</li> </ul>
<b>Theses Supervision</b>	Ph.D./FPM (3: Awarded; 1 submitted; 1 ongoing) M.Phil. (3: Awarded)
<b>Courses Taught</b>	<ol style="list-style-type: none"> <li>1. Environmental Conservation &amp; Ecosystem Management</li> <li>2. Biodiversity conservation</li> <li>3. Climate Change &amp; Sustainable Development</li> <li>4. Climate Change</li> <li>5. Business of Climate Change: CDM &amp; Carbon Trading</li> <li>6. Clean Development Mechanism</li> <li>7. Climate Change: Low Carbon Development</li> <li>8. Environmental Resource Management</li> <li>9. Rural Adaptation Strategies</li> <li>10. Climate Change Adaptation &amp; Mitigation</li> </ol>
<b>MDP Conducted</b>	<p>Conducted training programme on 'Integrating Conservation and Rural Livelihood Strategies in Joint Forest Management Area’ for the mid-level officers of Orissa, MP, Chhattisgarh</p> <p>Conducted “Climate Change Adaptation for Natural Resource Management” for different state officials and stakeholders related to climate change of the state of Manipur and Arunachal Pradesh</p>
<b>Institutional Responsibility</b>	<p>Chairperson – PGDFM Admission (July 2014- July 2015)</p> <p>Chairperson – Placements (July 2012- June 2014)</p> <p>Chairperson – FPM &amp; M.Phil. Admission (July 2010 to June 2012)</p> <p>Chairperson – Centre for Climate Change Studies (August 2015 till present)</p> <p>Chairperson – Resaerch Advisory &amp; Review Committee (February 2021till present)</p> <p>Board member- Solidaridad Regional Resource Centre, Delhi</p>

Countries visited	Germany, Mexico, Canada & Bangladesh
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