

Dr Dhirender Kumar

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On-going Research Projects

- National Bamboo Mission under RKVY-Cafeteria funded by Department of Agriculture, Himachal Pradesh. (Co PI)
- Agroforestry component of RKVY Cafeteria funded by Department of Agriculture, Himachal Pradesh. (Co PI)
- Strengthening and Development of higher Agricultural Education in India funded by Indian Council of Agriculture, New Delhi. (co-coordinator).
- Consultancy project for Plantation for Stability of Cutting and Filled up Slopes (Bhanupali to Beri via Bilaspur Railway Line) funded by Rail Vikas Nigam Limited. (Consultant)

Important Research Publications

- Chauhan A, Thakur CL, Bhardwaj DR, **Kumar D**, Dev I, Kumar R and Chauhan S. 2025. Stand structure, regeneration potential and carbon storage across Moist Temperate Forest of Chopal forest division in Himachal Pradesh. *Trees, Forests and People*, 19, p.100796.
- Rathore V, Bhardwaj DR, Sharma P, Kumar P and **Kumar D**. 2024. Evaluation of *Colocasia* (*Colocasia esculenta* Linn.) under *Morus alba*-based agroforestry system in the mid-hills of Indian Himalayas: influence of tree canopy and organic mulches. *Agroforestry Systems*, 99(1), p.5.
- Sharma V, Bhardwaj D R, **Kumar D**, Sharma P, Verma SC, and Bishist R. 2023. Defoliator attack (*Diorhabda lusca maulik*) on Kharik (*Celtis australis* L.): effect on nutritive value, phenology and biomass productivity. *Agroforestry Systems*, 1-16. <http://dx.doi.org/10.1007/s10457-023-00929-w>
- Verma T, Bhardwaj D R, Sharma U, Sharma P, **Kumar D**, and Kumar A. 2023. Agroforestry systems in the mid-hills of the north-western Himalaya: A sustainable pathway to improved soil health and climate resilience. *Journal of Environmental Management*, 348, 119264. <https://doi.org/10.1016/j.jenvman.2023.119264>
- **Kumar D**, Thakur C L, Bhardwaj D R, Sharma N, Sharma P and Sankhyan N. 2022. Biodiversity conservation and carbon storage of *Acacia catechu* Willd. dominated northern tropical dry deciduous forest ecosystems in north-western Himalaya: Implications of different forest management regimes. *Frontier in Environment Science*. DOI: <https://doi.org/10.3389/fenvs.2022.981608>.
- **Kumar D**, Bhardwaj DR, Sharma P, Sankhyan N, Al-Ansari N and Linh NTT. 2022. Population Dynamics of *Juniperus macropoda* Bossier Forest Ecosystem in Relation to Soil Physico-Chemical Characteristics in the Cold Desert of North-Western Himalaya. *Forests*, 13(10):1624.
- **Kumar D**, Bhardwaj DR, Thakur CL, Sharma P and Ayele GT. 2022. Vegetation Shift of *Juniperus macropoda* Boisser Forest in Response to Climate Change in North-Western Himalayas, India. *Forests*, 13(12): 2088.

- **Kumar D**, Bhardwaj D R, Sharma H, Sharma P and Pala AN. 2022. Species diversity assessment along altitudinal gradient in cold desert Juniperus forest of North-Western Himalaya. *Indian Forester* **148**(7):459-466 DOI: <https://doi.org/10.36808/if/2022/v148i7/156300>
- Bhardwaj DR, Kumar A, Pala NA, Sharma P, **Kumar D**, Kumar A and Zahoor S. 2022. Carbon density and C-sequestration of tree plantation ecosystems in the mid-hills of the NW-Himalayas: Implications for climate change mitigation. *Land Degradation and Development* 33(12): 2115-2126. DOI: <https://doi.org/10.1002/ldr.4307>
- Sharma P, Bhardwaj DR, Singh MK, Nigam R, Pala NA, Kumar A, Verma K, **Kumar D** and Thakur P. 2022. Geospatial technology in agroforestry: status, prospects, and constraints. *Environment Science and Pollution Research*. <https://doi.org/10.1007/s11356-022-20305-y>

Awards & Recognitions

- **Young Achiever Award-2022**, Agricultural Technology Development Society (ATDS), Ghaziabad, Uttar Pradesh.