

BIO-DATA



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- 04. Permanent Address:** A – 53, Judge Farm, Haldwani - 263139, District – Nainital, Uttarakhand
- 05. Date of Birth:** 14.06. 1962
- 06. Marital Status:** Married
- 07. Academic qualifications**

Degree/Diploma	University/Institution	Year
High School	U. P. Board, Allahabad	1978
Intermediate	U. P. Board, Allahabad	1980
B.Sc.	Kumaun University, Nainital	1982
M.Sc.	Kumaun University, Nainital	1984 (IV position in the University)
Ph.D.	Kumaun University, Nainital	1988
D.Sc.	Kumaun University, Nainital	2016

Title of Ph.D. Thesis: Flora of Central and South Eastern parts of Pithoragarh District

Title of D.Sc. Thesis: Assessment, Valuation and Conservation Prioritization of Floristic Diversity in the Trans, North West and West Himalaya

- 08. Field of Specialization:** Plant Taxonomy, Biodiversity Conservation and Management, Medicinal Plants Conservation
- 09. Research Experience:** > 33 Years
- 10. Administrative Experience:**
- **Scientist In – charge, Himachal Unit (Now Himachal Regional Centre):** >13 yrs (08.10.2005 to continuing)
 - **Theme Head, Biodiversity Conservation and Management, GBPNIHESD:** > 07 yrs (26.12.2007 – 30.06.2015)

- **Drawing and Disbursing Officer, Himachal Unit (Now Himachal Regional Centre):** 04 yrs & 03 days (08.10.2005 – 05.10.2009)

11. Positions held (In chronological order):

- **Research Associate, Department of Environment, New Delhi.** Project Title: “Biogeographic and Environmental Hazard mapping in High Altitude Zone of Kumaun Himalaya (**January 1988 to December 1989**).
- **Research Associate of CSIR, New Delhi.** Project Title: Studies on the Flora of Kumaun Himalaya (Award No. 9/19 (78)/89-EMR-I) (**January 1990 to January 10, 1991**).
- **Scientist ‘B’** (Rs. 2200-75-2800-100-4000), Conservation of Biological Diversity, G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora (**January 11, 1991 to December 31, 1995**).
- **Scientist ‘C’** (Rs. 10,000-325-15,200), Conservation of Biological Diversity, G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora (**January 01, 1996 to December 31, 2000**).
- **Scientist ‘D’** (Rs. 12,000-375-16,500), Conservation of Biological Diversity, G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora (**January 01, 2001 to December 07, 2003**).
- **Scientist ‘E’** (Rs. 37,400- 67,000’-; Grade Pay Rs. 8,700/-), Conservation of Biological Diversity (Now Biodiversity Conservation and Management), G.B. Pant Institute of Himalayan Environment & Development, Himachal Unit, Mohal – Kullu – 175 126, Himachal Pradesh (**December 07, 2003 to December 31, 2008**).
- **Scientist ‘F’** (Rs. 37,400- 67,000’-; Basic Pay: Rs. 52,990/-; Grade Pay Rs. 8,900/-), Biodiversity Conservation and Management, G.B. Pant Institute of Himalayan Environment & Development, Himachal Unit, Mohal – Kullu – 175 126, Himachal Pradesh (**January 01, 2009 to December 31, 2013**).
- **Scientist ‘G’** (Rs. 1,44,200/- 2,18,200/-, Pay Level 14), Biodiversity Conservation and Management, G. B. Pant National Institute of Himalayan Environment & Sustainable Development, Himachal Regional Centre, Mohal – Kullu – 175 126, Himachal Pradesh (**January 01, 2014 to July 06, 2019**).
- **Director, Himalayan Forest Research Institute, Panthaghati – 171013, Shimla, Himachal Pradesh (July 08, 2019 to Continuing).**

12. Major Research Achievements

- **An integrated approach** covering Assessment (qualitative & quantitative), nativity, endemism, utilization pattern, extraction trends of fuel and fodder species, threat categorization, prioritization and conservation of floristic diversity in the protected and unprotected areas of the Indian Himalayan Region and understanding the patterns was developed and implemented in Trans,

North Western and Western Himalaya, Askot Wildlife Sanctuary, Nanda Devi Biosphere Reserve, Upper Siraunt Gad Catchment, Ranikhet, Airadeo and Mornaula Reserve Forests in **Uttarakhand** and Manali, Khokhan, Kais, Nargu, Tirthan, Kalatop Khajjiar and Kanawar Wildlife Sanctuaries, Great Himalayan National Park and Cold Desert Biosphere Reserve, Lahaul valley; Parbati and Upper Beas catchments; Swarghat, Mandi-Pandoh, Chailchow1 – Rohanda –Kamarunag and Ghanahatti – Shimla areas and Hirb & Sojha catchments; and floristic diversity; Impact assessment of the Allain Dohangan, Malana I & II, Parbati II & III; and Sainj Hydro-Electric Projects and Environment Management Framework for Satluj Basin in **Himachal Pradesh**.

- State of art approaches for the assessment of extraction trends of fuel and fodder resources; threat categorization; and prioritization of the floristic diversity were developed and replicated.
- One new species, *Elaphoglossum pangteyii* Khullar et Samant (1991); 01 new hybrid, *Pteris X Khullari* Pangtey, Samant et Verma hybrid nova (1991); 01 species, *Oxalis lasiandra* Zucc. new to India; 06 new species for the Trans, North Western and Western Himalaya and 16 species new for Kumaun Himalaya were recorded.
- Data base on Medicinal Plants, Wild Edibles, Essential Oil Yielding Medicinal Plants, Sacred Plants, Orchids and > 15 Angiosperms families of the Indian Himalayan Region was developed and published.
- As Coordinator of “**Lead/Coordinating Institution for Nanda Devi, Manas, Dibru- Saikhowa, Dehang Debang and Kanchendzonga Biosphere Reserves (1999 - 2003) project**”, Research gaps were identified; projects invited for funding; existing information compiled and documented. Data base on Nanda Devi Biosphere Reserve for UNESCO MAB net was developed and accepted by UNESCO.
- Assessment of ecosystem services of agro-ecosystems in Upper Beas Valley and Sacred Groves (10 Nos) was done and management practices documented.
- Populations of threatened species were assessed and Ecological Niche Models developed, suitable areas for in situ conservation identified and propagules of the species developed for in situ conservation.
- Established and maintained Arboretum (now known as Lead Garden); Herbal Gardens (01) at Kosi-Katarmal and Farmer’s field (01), Dwarsan in **Uttarakhand**; and Arboretum, Medicinal Plants Nursery and Rural Technology Park at Mohal and Herbal Garden at Doharanala in **Himachal Pradesh**.
- Conventional propagation protocols (Seed germination and vegetative) for > 15 species developed and utilized for the mass multiplication of the threatened species.
- Agrotechniques of 26 commercially viable medicinal plants were documented, published and disseminated to the farmers for cultivation.
- Pollination deficit protocol for Apple was tested and management practices documented and disseminated. For the conservation of *Apis cerana*, 109 bee boxes and apiculture equipment were distributed to the 99 farmers; habitats of the bee flora were restored with preferred bee flora.

- Citizen Science Programmes was initiated for the first time and organized 19 Citizen Science Programmes representing the Citizen Scientists from India & abroad.
- **Prepared People’s Biodiversity Registers (PBRs - Drafts) for 24 BMCs in Kullu Valley and the State Biodiversity Board has agreed to allocate 25 new Panchayats including Mandi Sadar (03) for the preparation of Peoples’ Biodiversity Registers (PBRs).**
- Manual Weather Stations were installed in 22 Govt. Schools in Himachal Pradesh for educating students, teachers and local inhabitants on Weather Monitoring, Climate Change and Biodiversity Conservation and Management.
- Trained > 8,000 stakeholders representing Students, Teachers, Farmers, Members of Fruit Growers’ Association, Eco-Clubs, Forest Department Officials, NGOs and other stakeholders on Biodiversity Conservation and Management, Weather Monitoring, Climate Change, Cultivation of medicinal plants, Bee keeping, solid waste management, etc.

13. Specific contribution to Sustainable Development of Mountain Regions in general and the Himalaya in particular

- The publications on Medicinal Plants, Wild Edibles, Essential Oil Yielding Medicinal Plants, Sacred Plants and Orchids of Indian Himalayan Region are being utilized by Academic Institutions for education and research organizations and other stakeholders in developing policy briefs and management plans.
- The publication of existing information, and funding of projects in the identified gap areas under the project “**Lead/Coordinating Institution for Nanda Devi, Manas, Dibru- Saikhowa and Dehang Debang Biosphere Reserves**” have helped the Biosphere Reserve Managers in updating the information and developing management plans; and to the Institute in developing data base on Biosphere Reserves for UNESCO MAB net.
- Robust database on the floristic diversity of Trans, North Western and Western Himalaya would help in developing management plans and policy documents for the biogeographic zones and states, and database and published information on protected and biodiversity rich areas in **Uttarakhand and Himachal Pradesh** are being used by the State Government Organizations for developing management plans for the protected areas and Divisional Working Plans and policy documents, and Research Organizations are for research and policy documents.
- Studies on population assessment and Ecological Niche Modelling of threatened species are helping in understanding their national and Global status and predicting the suitable areas for the in situ conservation. The seedlings of threatened plants are being used for the in situ and ex situ conservation.
- The floristic diversity and Impact assessment studies of the Allain Dohangan, Malana I & II, Parbati II & III; and Sainj Hydro-Electric Projects in Himachal Pradesh are helping to the Forest Department and Management of the Hydro-Electric Projects in the restoration of degraded habitats, stabilization of muck dumping areas and conservation of threatened species.
- Established and maintained Arboreta, Herbal Gardens and Nurseries in **Uttarakhand and Himachal Pradesh** are working as gene banks and educational centres for the stakeholders. Seeds

and seedlings of various species are being distributed to the farmers for cultivation/plantation, Forest Department and other stakeholders for the restoration of degraded lands.

- Agrotechniques of the medicinal plants are being followed by the farmers. *Aconitum heterophyllum*, *Picrorhiza kurrooa*, *Podophyllum hexandrum*, *Angelica glauca*, *Saussurea costus* and *Withania somnifera* are promoted under cultivation. Seedlings of *Taxus wallichiana* and many other medicinal plants are being cultivated by the farmers, Eco-Clubs of the Schools and other stakeholders.
- Assessment of ecosystem services has helped the inhabitants to understand the importance of Biodiversity. Pollination deficit protocol tested for Apple has helped in understanding the importance of pollinators, pollination and biodiversity conservation. The management practices are helping to the farmers in proper pollination and production. To encourage the farmers for conservation, 109 bee boxes including bee frames and apiculture equipment are distributed to 99 farmers. The habitats of the bee flora are restored through plantations.
- National Biodiversity Strategy and Action Plan- Uttar Pradesh and Plant Diversity of India have helped in identifying the issues and implementation by various Departments and Organizations.
- Initiation of Citizen Science Programmes by involving the Citizen Scientists from India & abroad has helped meeting the requirement of manpower for achieving the project goals and disseminating the message on Biodiversity Conservation and Management and ecosystem services across the country and globe.
- Manual Weather Stations are helping in educating the students, teachers and local inhabitants about Weather, Climate Change and Biodiversity Conservation and Management.
- The Rural Technology Park representing various technologies i.e., Vermicomposting, Weed composting, Zero Energy Cool Chamber, Poly Tunnel, Water harvesting tanks, Solid waste management technique, Drip irrigation, Germplasm of medicinal plants, Entrepreneurship development, Green, Shade and Poly Houses, Nursery, Bio-engineering, Bio-fencing and Apiculture (Mud hives & bee boxes) is working as educational centre for the famers, students, teachers, NGOs, Local Institutions, trainees/visitors, etc. from Himachal Pradesh, India and Abroad.
- As a member of the various National, State and Local Committees, providing advisory services to different stakeholders for the conservation of Himalayan Ecosystem.
- The students guided for Ph. D., M. Phil. and M. Sc. Dissertations and Summer Training are serving in different organizations and providing services to the stakeholders.
- Training to > 8,000 stakeholders representing Students, Teachers, Farmers, Members of Fruit Growers' Association, Eco-Clubs, Forest Department Officials, NGOs, MCs and other stakeholders on Biodiversity Conservation and Management, Weather Monitoring, Climate Change, Cultivation of medicinal plants, Bee keeping, solid waste management, etc. has helped in awareness and outreach development.

14. Publications: 305

International Journals: 64; **National Journals:** 105; **Book Chapters/Proceedings:** 37; **Popular Articles:** 67; **Books:** 14; **Himalayan Biosphere Reserves (Biannual Bulletin):** 05 and **Booklets (Hindi):** 13

Scholars Google Citations of Publications

	All	Since 2014
Citations	2708	1302
H - index	28	19
i 10 - index	64	40

International Journals: 64

1. Kundra Rosy, **S. S. Samant**, R. K. Sharma (2019). Assessment of Antioxidant Potential of *Trillium govanianum* Wall. ex D. Don, a Critically Endangered Medicinal Plant of Northwestern Indian Himalaya. *Proceedings of the National Academy of Sciences, India, Section B: Biological Sciences*. <https://doi.org/10.1007/s40011-018-01062-w>.
2. Arya, S.C. and **S. S. Samant** (2018). Plant Diversity Assessment and Prioritization of Communities for Conservation in Milam Alpine area of Nanda Devi Biosphere Reserve, West Himalaya. *International Journal of Environmental Sciences* **8(1)**: 22-30.
3. Devi, Kaushalya, **S. S. Samant**, S. Puri, R. Kundra & Pooja Kumari (2018). Investigation of Antioxidant and Radical scavenging potential of *Angelica glauca* Edgew. and *Aralia cachemirica* Decne : A high value medicinal plants from Kanawar Wildlife Sanctuary in Himachal Pradesh, North Western Himalaya. *Medicinal Plants* **10(4)**: 312 – 319.
4. Bodh, Monika, **S. S. Samant**, Lalit Mohan Tewari and Vijay Kumar (2018). Diversity and Utilization Pattern of Economically Important Biodiversity in Great Himalayan National Park of Himachal Pradesh, India. *The Journal of Ethnobiology and Traditional Medicine* **129**:1459-1486.
5. Bodh, Monika, **S. S. Samant**, Lalit Mohan Tewari and Vijay Kumar (2018). Diversity, distribution, indigenous uses and conservation of medicinal plants in Shikari Devi Wildlife Sanctuary of Himachal Pradesh, India. *The Journal of Ethnobiology and Traditional Medicine* **129**: 1399-1425.
6. Arya, S.C. and **S.S. Samant** (2017). Assessment of vegetation and prioritization of communities for conservation in Lata Kharak alpine meadows of Nanda Devi Biosphere Reserve, West Himalaya, India. *International Journal of Advanced Research* **5(9)**: 1349 – 1366.
7. Negi Deepti, **S. S. Samant** & Lalit Mohan Tiwari (2017). Investigation of antioxidant activity of methanolic extracts of *Hippophae rhamnoides* ssp. *turkestanica* across habitats in Cold Desert Biosphere Reserve, Trans Himalaya, India. *International Journal of Pharmaceutical Sciences Review & Research* 00: 000-000. ISSN 0976-044X. Accepted.
8. Kundra, R., **S. S. Samant**, S. K. Nandi & R. K. Sharma (2017). Investigation of antioxidant properties of *Withania somnifera* (L.) Dunal and influence of physico-chemical properties of soil along the topographic gradients in sub-tropical region of the Indian Himalaya. *International Journal of Phytomedicine* **9**: 407-415.

9. Sharma, R. K., R. Kundra, **S.S. Samant** & S. K. Nandi (2017). Antioxidant properties of Methanol Extracts from *Olea ferruginea* Royle seeds. *National Academy of Science News Letter* DOI 10.1007/s40009-017-0587-9.
10. Sharma, P., **S. S. Samant** & M. Lal (2017). Assessment of plant diversity for threat elements: A case study of Nargu wildlife sanctuary, north western Himalaya. *Ceylon Journal of Science* 46(1) 2017: 75-95; DOI: <http://doi.org/10.4038/cjs.v46i1.7420>.
11. Sharma, Lipika, **S. S. Samant**, Ashish Kumar, Deepti Negi, Kaushalya Devi, M. Lal & L.M. Tewari (2017). Diversity, distribution pattern and indigenous uses of medicinal plants of Cold Desert Biosphere Reserve in Trans Himalaya. *The Journal of Ethnobiology and Traditional Medicine* **128**: 1320-1345.
12. Negi, Deepti, **S. S. Samant** & L. M. Tewari (2017). Assessment of Antioxidant properties of *Arnebia euchroma*: an endangered medicinal plant of Cold Desert Biosphere Reserve in Trans Himalaya, India. *International Journal of Medicinal Plants* **111**: 825-836.
13. Sharma, P. and **S.S. Samant** (2017) Diversity, Distribution, Indigenous Uses and Conservation of Orchids in Parvati Valley of Kullu District, Himachal Pradesh, Northwestern Himalaya. *J Biodivers Endanger Species* **5**: 177. doi: 10.4172/2332-2543.1000177.
14. Arya, S.C. & **S.S. Samant** (2016). Habitat wise Assessment of Alpine vegetation and prioritization of communities for conservation in a part of Nanda Devi Biosphere Reserve of West Himalaya, India-I. *International Journal of Life Sciences* **5(1)**: 6-19; ISSN: **2277-193x**.
15. Sharma, P. & **S.S. Samant** (2016). Diversity of Pteridophytes in the surrounding areas of Hydro-electric projects in Kullu district of Himachal Pradesh, Indian Himalaya. *Forestry Ideas* 22, No.2 (52): 127 – 136; ISSN: 1314-3905.
16. Jyoti, **S.S. Samant**, K. Kishor, B.M. Upreti, M. Bharti, N. Bohra, P. Sharma & L.M. Tewari (2014). Diversity, distribution, indigenous uses and conservation prioritization of the economically important floristic diversity in Nadaun Block of Hamirpur district, Himachal Pradesh. *International Journal of Biodiversity and Conservation* **6(7)**: 522-540; DOI:10.5897/IJBC2014.0710; ISSN 2141-243X.
17. Sharma, P. & **S.S. Samant** (2014). Diversity, Distribution and Indigenous uses of medicinal plants in Parvati Valley of Kullu district in Himachal Pradesh, Northwestern Himalaya. *Asian Journal of Advance Basic Science* **2(1)**: 77-98; ISSN: 2347 – 4114.
18. Sharma, P., **S.S. Samant**, Manohar Lal & Aman Sharma (2014). Diversity, Indigenous Uses, Threat Categorization and Conservation Prioritization of Medicinal Plants: A Case Study from Himachal Pradesh, India. *Journal of Biodiversity & Endangered Species* **2 (4)**: 2-6; ISSN: 2332-2543.
19. Sharma, P. & **S.S. Samant** (2014). Assessment of fuel resource diversity and utilization pattern in Nargu Wildlife Sanctuary of Himachal Pradesh, NW Himalaya. *International Journal of Biodiversity and Conservation* **6(1)**: 17-27.
20. Butola, J.S., Vashistha, R.K., Kuniyal, C. P., Malik, A. R., Aasif Ali & **S. S. Samant** (2014). Germination Eco-physiology of *Angelica glauca* Edgew. Seeds. *European Journal of Medicinal Plants* **4(4)**: 404-412.
21. Vidyarthi, Shalini, **S. S. Samant** & Pankaj Sharma (2013). Traditional and indigenous uses of medicinal plants by local residents in Himachal Pradesh, North Western Himalaya, India. *International Journal of Biodiversity Science, Ecosystem Services & Management* **9(3)**: 185-200.

22. Sharma, A. & **S.S. Samant** (2013). Diversity, Structure and Composition of Forest Communities in Hirb and Shoja Catchments of Himachal Pradesh, North West Himalaya, India. *International Journal of Botany* **9(1)**: 50-54.
23. Vidyarthi, Shalini, **S. S. Samant** & Pankaj Sharma (2013). Dwindling status of *Trillium govaniatum* Wall. ex D. Don - A case study from Kullu district of Himachal Pradesh, India. *Journal of Medicinal Plants Research* **7(8)**: 392-397.
24. Sharma, R.K., N. Sharma, **S.S. Samant**, S.K. Nandi & L.M.S. Palni (2013). Antioxidant activities in Methanolic extract of *Olea ferruginea* Royle fruits. *International Journal of Bioscience, Biochemistry & Bioinformatics* **3(2)**: 154-156.
25. Sharma, R.K., P. Sharma, S. Devi & **S.S. Samant** (2013). Enhancement of Pea production using leaf extract of *Withania somnifera* L. under tropical field conditions of Kullu, North Western Himalaya. *J. Plant Nutrition* **36(11)**: 1754-1764.
26. Rana, M.S., Sakshi B. Rana & **S.S. Samant** (2012). Extraction, Utilization Pattern and Prioritization of Fuel Resources for Conservation in Manali Wildlife Sanctuary, Northwestern Himalaya. *Journal of Mountain Science* **9**: 580–588.
27. Sharma, R.K., **S.S. Samant**, P. Sharma & S. Devi (2012). Evaluation of antioxidant activities of *Withania somnifera* leaves growing in natural habitats of North-west Himalaya, India. *Journal of Medicinal Plant Research* **6(5)**: 657-661.
28. Butola, J.S. & **S.S. Samant** (2012). Medicinally important species of *Hypericum* in Indian Himalaya: Need for more exploration for Socio-economic development. *Medicinal Plants* **4(2)**: 104-110.
29. Rana, M.S. & **S. S. Samant** (2011). Population biology of *Lilium polyphyllum* D. Don ex Royle—A critically endangered medicinal plant in a protected area of Northwestern Himalaya. *Journal for Nature Conservation*, **19(3)**:137-142.
30. Rana, M.S., **S.S. Samant** & Y.S. Rawat (2011). Plant communities and factors responsible for vegetation pattern in an alpine area of the North Western Himalaya. *Journal of Mountain Science*, **8**: 817-826.
31. Rana, M.S., Manohar Lal & **S.S. Samant** (2011). Status and regeneration of Himalayan Maple in the Himachal Pradesh: Honing Red List of Plants. *Journal of Sustainable Forestry*, **30 (8)**: 775-789.
32. Pandey, M., U. Dhar, **S.S. Samant**, M.V. Shirgurkar & S.R. Thengane (2011). Recurrent somatic embryogenesis and plant regeneration in *Angelica glauca* Edgew., A Critically Endangered medicinal plant of Western Himalaya. *Journal of Horticultural Science & Biotechnology*, **86(5)**: 493-498.
33. Pant S. & **S.S. Samant** (2010). Ethnobotanical observations in the Mornaula Reserve Forest of Kumaun, West Himalaya, India. *Ethnobotanical Leaflets*, **14**: 193-217.
34. Rana, M.S. & **S.S. Samant** (2010). Threat Categorization and Conservation of Floristic Diversity in the Indian Himalayan Region: A State of Art Approach from Manali Wildlife Sanctuary. *Journal for Nature Conservation* **18**: 159-168.
35. Singh, A. & **S.S. Samant** (2010). Conservation prioritization of habitats and forest communities in the Lahaul valley of proposed Cold Desert Biosphere Reserve, North Western Himalaya, India. *Applied Ecology and Environmental Research* **8(2)**: 101-117.

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37. Singh, A., M. Lal & **S.S. Samant** (2009). Diversity, indigenous uses and conservation prioritization of medicinal plants in Lahaul valley, proposed Cold Desert Biosphere Reserve, India. *International Journal of Biodiversity Science & Management*, **5(3)**: 132-154.
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39. **S.S. Samant**, Shreekar Pant, Man Singh, Manohar Lal, Ashok Singh, Aman Sharma & Sakshi Bhandari (2007). Medicinal Plants in Himachal Pradesh, North Western Himalaya, India, *International Journal of Biodiversity Science & Management* **3(4)**: 234-251.
40. **S. S. Samant**, Man Singh, Manohar Lal & Shreekar Pant (2007). Diversity, utilization pattern and prioritization of fodder species for conservation in Kullu district, Northwestern Himalaya, India. *Journal of Mountain Science* **4(3)**: 259-274.
41. Pant, Shreekar & **Samant, S.S.** 2007. Assessment of plant diversity and prioritization of communities for conservation in Mornaula Reserve Forest, West Himalaya, India, *Applied Ecology & Environmental Research* **5(2)**: 151-166.
42. **Samant, S.S.**, J.S. Butola & A. Sharma (2007). Assessment of diversity, distribution, conservation status and preparation of management plan for the medicinal plants in the catchment area of Parbati Hydro-Electric Project Stage III in North Western Himalaya. *Journal of Mountain Science* **4 (1)**: 34-56.
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44. **Samant, S.S.**, R.S. Rawal, & U. Dhar (2006). Diversity, extraction and status of fodder species in Askot Wildlife Sanctuary, West Himalaya. *Int. J. Biodiversity Science & Management*, **2**: 29-42.
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47. **Samant, S.S.** & Pant Shreekar (2006). Diversity, distribution pattern and conservation status of plants used in liver diseases/ailments in Indian Himalayan Region. *Journal of Mountain Science* **3**: 28-47.
48. Pant, Shreekar & **S.S. Samant** (2006). Diversity, distribution, uses and conservation status of plants species of the Mornaula Reserve Forest, West Himalaya, India *International Journal of Biodiversity Science & Management*, **2**: 97-104.
49. Joshi, H.C. & **S.S. Samant** (2004). Assessment of forest vegetation and prioritization of communities for conservation in a part of Nanda Devi Biosphere Reserve, West Himalaya, India I. *Int. J. Sust. Dev. & World Ecol.*, **11**: 326-336.

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54. Dhar, U., R.S. Rawal & **S.S. Samant** (1998). Endemic Plant Diversity in Indian Himalaya II. Poorly Represented Primitive Families. *Biogeographica* **74(1)**: 27-39.
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6. **Samant, S. S.**, Rawal, R. S., Bhatt, I. D., Airi, S. and Bisht, J. S. 2008. SURYA- KUNJ (Ex situ Conservation and Nature Interpretation Centre. Information Booklet 1. GBPIHED, Kosi-Katarmal, Almora.
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8. **Samant, S. S.**, U. Dhar and L. M. S. Palni (2001). *Himalayan Medicinal Plants: Potential and Prospects*. Gyanodaya Prakashan, Nainital. 435 p.
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12. Purohit, K. & **S. S. Samant** (1995). *Fodder Trees and Shrubs of Central Himalaya*. Gyanodaya Prakashan, Naini Tal. 116 p.
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14. Khullar, S. P., Y. P. S. Pangtey, **S. S. Samant**, R. S. Rawal and P. Singh (1991). *Ferns of Naini Tal*. Bishen Singh, Mahendra Pal Singh, Dehra Dun. 234 p.

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3. Dhar, U., **S.S. Samant** & R.S. Rawal (1998). *Himalay Ki Jaiv Vividhata Sanrakshan Mei Janta Ki Bhagidari, V*, GBPIHED, Kosi- Katarmal, Almora.
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6. Dhar, U., S. Airi, R.S. Rawal & **S.S. Samant** (2002). *Himalay Ki Jaiv Vividhata Sanrakshan Mei Janta Ki Bhagidari, IX*, GBPIHED, Kosi- Katarmal, Almora.
7. Dhar, U., S. Airi, R.S. Rawal & **S.S. Samant** (2003). *Himalay Ki Jaiv Vividhata Sanrakshan Mei Janta Ki Bhagidari, X*, GBPIHED, Kosi- Katarmal, Almora.
8. **Samant, S.S.** (2008). *Jav Vividhata Sanrakshan mei Janata ki Bhagidari I*. GBPIHED, Himachal Unit, Mohal-Kullu.
9. **Samant, S.S.** (2008). *Jav Vividhata Sanrakshan mei Janata ki Bhagidari II*. GBPIHED, Himachal Unit, Mohal-Kullu.
10. **Samant, S.S.** (2010). *Jaiv Vividhata Sanrakshan mei Janata ki Bhagidari III*. GBPIHED, Himachal Unit, Mohal-Kullu.
11. **Samant, S.S.** (2012). *Aushadhiy Padapo Ki Vividhata, Sanrakshan and Krishikaran IV*. GBPIHED, Himachal Unit, Mohal-Kullu, Himachal Pradesh.
12. **Samant, S.S.** (2012). *Jaiv Vividhata Sanrakshan Mei Janata Ki Bhagidari V*. GBPIHED, Himachal Unit, Mohal-Kullu, Himachal Pradesh.
13. Shashni, S., Sood, S., **S.S. Samant**, J.C. Kuniyal, V.E. Gosavi, R.K. Sundriyal and S. K. Nandi (2018). *Ban Sansadhan Avam Padap Jaiv Vividhta*, GBPNIHESD, Himachal Regional Centre, Mohal-Kullu, Himachal Pradesh.

15. Awards and Recognitions

- Elected Fellow of National Academy of Sciences, Allahabad (2010).
- Elected Fellow of the Society of Ethnobotanists (2010).
- Prof. P. N. Mehra Memorial Young Scientist Award for the meritorious contributions in Plant Sciences (Plant Taxonomy and Plant Diversity Evaluation) for the year 2001.
- Prof. S. P. Vij Memorial Award 2017 for contribution in Orchidology.
- Conferred **Award of Excellence** for the Year 2008 for contribution on Research, Development and creating awareness on Environmental Conservation among the stakeholders of Himachal Pradesh at Kullu on April 05, 2008 by Himalayan Paryavaran Evam Vanya Prani Suraksha Smiti, New Manali, Himachal Pradesh.
- Received **SEED Award 2008** on November 17, 2008 from the Minister for the Environment, Nature Conservation and Nature Safety of the Federal Republic of Germany and Ambassador of the Federal Republic of Germany along with Biolaya Organic Pvt. Ltd., Jagriti, Faculty of Health and Life Science, University of the West of England, Bristol and SGS India at Embassy of the Federal Republic of Germany, New Delhi for the contribution on Himalayan Oregano Oil and Sustainable Livelihood, India for its entrepreneurship and outstanding potential to contribute to sustainable development.
- ICFRE, Dehradun **Forest Conservation Award for the year 2001-2002** by the Core Group, Conservation of Biological Diversity.

- Rajbhasha Shield and Certificate for excellent performance in official Hindi language for the year 2017-2018 on 02 June, 2018 by Town Official Language Implementation Committee, Kullu - Manali, Himachal Pradesh.
- Received Green Mapple Foundation Award 2018 for Research Excellence on 24 June, 2018 by the Green Maple Foundation, Chandralok, Lucknow, Uttar Pradesh.
- Won 2nd prize for paper presentation entitled “*Diversity, distribution and indigenous uses of essential oil yielding medicinal plants of Indian Himalayan Region*” in the National Seminar on the Research and Development in Aromatic Plants: Current Trends in Biology, Uses, Production and Marketing of Essential Oils, CIMAP, Lucknow.
- Awarded first prize in **Photograph Competition: Life in Forests, in the “Theme- Forest Dwellers: Human and Wildlife”** organized by GBPIHED, Kosi-Katarmal, Almora, Uttarakhand on September 10, 2011 at Kosi-Katarmal, Almora, Uttarakhand (No. GBPI/Photo.Comp./2011/3631; dated- 20.10.2011).
- **Member, Research Policy Committee (RPC)** of the Indian Council of Forestry Research and Education (ICFRE), Dehradun (No.: 72(XVII)/2016/ICFRE®/RP/923; dated – 13.12.2016).
- **Member, Research Advisory Group (RAG)** of Himalayan Forest Research Institute, Panthaghati, Shimla by Director General, Indian Council of Forestry Research and Education (ICFRE), Dehradun 2009-2016 (No.: 3-1(30) Vol-VIII/2016/651; dated- 13.09.2016).
- Ecological Expert Member of the Committee constituted by **Hon’ble National Green Tribunal (NGT) for the preparation of report on Shimla, Himachal Pradesh (No.GBPI/NGT/5337; dated – 4th November 2015).**
- Ecological Expert Member of the Committee **constituted by Hon’ble National Green Tribunal (NGT) for the preparation of report on Kasauli Planning Area, Kasauli, Solan, Himachal Pradesh (No.PCB/CWP No. 506/2015-548-55; dated – 13.04.2017).**
- Member for the joint inspection of muck dumping sites of **Kireetpur – Ner Chowk Four Lane Project; Hon’ble NGT’s order dated 21.09.2017 (No. PCB/Apl No. Madan Lal/17/13041-45; dated- 26.09.2017).**
- **Member** to carry out the inspection as per the direction of the **Hon’ble National Green Tribunal** vide order dated 07.12.2017, O.A. No. 635/2017_titled Ramesh Chand V/s State of Himachal Pradesh and ors. (No. TCP-E (3)-48/2017; dated-24.07.2018).
- Member, Research Board of Advisors, The American Biogeographical Institute, North Carolina, USA.
- Member, National Biodiversity Strategy and Action Plan, North Western Himalayan Eco-region and Uttar Pradesh.
- Member of Panel of Experts of the Himachal Pradesh State Medicinal Plants Board, Shimla for monitoring the ongoing projects in the State sanctioned by the National Medicinal Plants Board.
- Member of the Committee for the research and management of protected areas in Himachal Pradesh.
- DBT nominee for IBSC Farmenta Biotech Ltd., Himachal Pradesh Facility, Nagwai, Mandi.
- Member of the Advisory Committee for Establishment of Temperate Arboretum and Botanical Garden (TABG) at Porter Hill, Shimla, Himachal Pradesh.
- Member of the Executive Council of TOSI (The Orchid Society of India), Chandigarh.

- Member of the Research Advisory Committee (RAC) of the Central Himalayan Research Association (CHEA), Nainital, Uttarakhand for the Climate Change Leaders (CCL).
- Appointed as a Special Reviewer of Journal of Forestry Research during the years from 2009-2013.
- Included biography in the 2010 Edition of Marquis Who's Who in the World, USA.
- Appointed as the Member of the Panel of Experts by the State Medicinal Plants Board Himachal Pradesh, Shimla to monitor the ongoing projects on medicinal plants in the State Sanctioned by the National Medicinal Plants Board (No. Ay.H(A) (8)-8/81-SMPB-III-1753).
- Associate Editor of the International Journal of Biodiversity and Conservation.
- Appointed as Paper setter and evaluator for the M.Sc. Special Paper on Resource Botany and Ethnobotany by Kumaun University, Nainital; Course- Medicinal and Aromatic Plants by Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Solan (Nauni), H.P.; M.Sc. Environmental Science, Kurukshetra University, Kurukshetra, Haryana; and M.Sc. Wildlife New Course, Biogeography, Ecology and Vegetation Science by Saurashtra University, Rajkot, Gujrat.
- **External Examiner** for the evaluation of M.Sc., M.Phil. and Ph. D. Theses and conduct Viva Voce examination by Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Solan (Nauni); Himachal Pradesh University, Shimla; Kumaun University, Nainital; Central University, Garhwal, Srinagar; Forest Research Institute (Deemed) University, Dehradun; Jawaharlal Nehru University, Delhi and Panjab University, Chandigarh.
- **Member, Editorial Board** (2017-18) and **Advisory Board** of the Journal "**Medicinal Plants – International Journal of Phytomedicines and Related Industries**" published by National Medicinal Plants Board, New Delhi in collaboration with Society for Conservation and Resource Development of Medicinal Plants, New Delhi
- **Member, Advisory Board** of the journal **Technology Intervention for Mountain Ecosystem (TIME)** published by Himalayan Environment Studies and Conservation Organization (HESCO), Dehradun.
- **Member, District Level Expert Appraisal Committee (DEAC)** constituted in pursuance to Ministry of Environment, Forest and Climate Change, Govt. of India notifications dated 20.01.2016 and notified by worthy Deputy Commissioner Kullu for grant of Environmental Clearance having areas less than five hectare category B2 projects for mining of minor minerals in Kullu District, Himachal Pradesh (**No.: Bhu Kullu/Environmental Clearance/DEIAA & DEAC/-3203; dated- 30.03.2017**).
- **Member, Governing Body** of the Parvati Valley Conservation Cell in Environment Management Plan of Parvati Hydro Electric Project Stage-II District Kullu, Himachal Pradesh (**No.: A-I-521/Vol.IV ET 10-40; dated- 03.04.2017Continuing**).
- **Member, Governing Body** of Eco-tourism Society, Kullu (ETSK) constituted by Himachal Pradesh Forest Department, Himachal Pradesh (**No.A-1-521/Vol.IV ET/3473-92; Dated – 31.07.18**).
- **Member** of the Governing body of Nature Conservation Society (NaCoSoc), Kullu, Himachal Pradesh. (**No.'D.IV.286/4693-4715; Dated 12.09.2018**).
- **Member, Technical Advisory Expert Group** of the Science for Equity, Empowerment & Development (SEED) Division of Department of Science and Technology for the initiative to plan and implement a programme "**Technological Interventions for Mountain Ecosystems:**

Livelihood Enhancement and Action Research through Networking (TIME – LEARN) for North Western Himalaya”. (SEED/TIASN-2/004/2010; dated- 02.06.2015).

- **Member** of Expert Group for the on spot evaluation of DST Core Activities implemented by the Himalayan Research Group (HRG) Shimla and Science Technology Development, Mandi on 01-02 July, 2015 (E-mail: 19 June 2015).
- **Member** of the Expert Team of DST for the field monitoring and review of the projects of SRDA and JAGRITI during 7-9 September, 2015 under the second phase of People and Protected Area Programme coordinated by WWF, India, Delhi. (E-mail: 3rd September 2015).
- **Member, Expert Committee** of the Science for Equity, Empowerment & Development (SEED) Division of Department of Science and Technology for the evaluation/review of DST Core Funded Projects under Technological Advancement for Rural Areas (TARA) Scheme. (No.: SEED/TIASN-2/003/2016; dated- 5th April, 2016).
- **Member, State Level Technical Committee (SLTC) of SECURE Himalaya project** of Himachal Pradesh Forest Department (No WLA/UNDP-GEF_SECURE Himalayas Project/3758-83; dated-20.09.2018).
- **Member, Task Force** in Department of Environment, Science, and Technology, Himachal Pradesh, Govt. of Himachal Pradesh for preparing an action plan for the promotion of biotechnology in the state (No. STE-A (1)-2/2018; dated-01.08.2018).
- **Expert Member, DST** for review of progress of the project entitled “**Fortification of mountain crops**” and discussion on possible S&T Intervention in Chamba, Aspirational district under TIME LEARN Programme of SEED Division, DST, New Delhi on 29-30 May, 2018. (E-mail: June 07, 2018).
- **Member, Project Approval and Evaluation Committee (PAEC)** for HP Specific Research & Development Projects of HIMCOSTE-Shimla (No. SCSTE/F(8)-2016-17-Vol.-III-6705; Dated-30.01.2019).
- **Member, Expert Committee on Normally Traded Commodities** reconstituted by the National Biodiversity Authority (NBA), Chennai (No. F.NBA/2/9/2002-Admin/12/16-17/2085; dated 9th September 2016).
- **Member, Advisory Board** of Central Himalayan Institute for Nature and Applied Research (CHINAR) (E-mail: 11.12.2016).
- **Member, Technical Advisory Expert Group** of the Science for Equity, Empowerment & Development (SEED) Division of Department of Science and Technology for the initiative to plan and implement a programme “**Technological Interventions for Mountain Ecosystems: Livelihood Enhancement and Action Research through Networking (TIME – LEARN) for North Western Himalaya**”. (E-mail of Dr. Sunil K. Agarwal, SEED Division, DST; dated- 02.10.2014).
- **Member of the Advisory Committee** of 1st Himachal Pradesh Science Congress on “**Role of Science and Technology in Sustainable Development**”, 15 – 16 October, 2014) organized by Himachal Pradesh State Council for Science, Technology and Environment, Shimla at Hotel Peterhoff, Shimla, Himachal Pradesh.
- **Member of the Selection Committee** for the selection of suitable candidate for the post of Scientist/Sr. Scientist in the area of Ecology (01 – Post reserved for ST), Post Code-1607 at CSIR-IHBT, Palampur, H.P. (for High Altitude Centre at Ribbling, Keylong in Lahaul Spiti) held on June 22, 2014 at CSIR Vigyan Kendra, Lodhi Road, New Delhi (No. IHBT-2-7/379/2013-Rectt.; dated: 05.06.2014).

- Member of Expert Committee constituted by the Governor of Himachal Pradesh for the visit of Rohtang valley and submission of report (**No.FFE-B-E(3)5/2010-L-V-I; dated: 14.10.2013**).
- **Member of Selection Committee** by Head, Indian Agricultural Research Institute Regional Station, Katrain (Kullu Valley) for the Walk-in-Interview of Junior Research Fellow at IARI, Katrain on 10.05.2013 (No.F.1-1/2013-H/17; dated- 09.05.2013).
- **Member of Selection Committee** for the selection of SRF in Indian Agricultural Research Institute, Regional Station, Katrain, Kullu, Himachal Pradesh on 10th July, 2018. (**No.F. 1-1/2018-H/140; dated-03.07.2018**).
- **Member, Selection Committee** of ICAR- Indian Agriculture Research Institute Regional Station, Katrain (Kullu Valley), Himachal Pradesh for the selection of JRF and two Skilled helpers under IARI Katrain held on 05.05.2017 (**Ref. No.: F.1-10/2017/1-1/114; dated- May 02, 2017**).
- **Member of Selection Committee Meeting** for the selection of SRF/RA under NMHS Project and review the progress report of RAs and JRFs working in NMHS Project in Department of Biotechnology, Himachal Pradesh University, Shimla held on 03-04 August, 2018.
- **Member of Selection Committee** for the selection of SRF, JRF, PA and FA in the office of Director-cum Conservator of Forests GHNP Shamshi on 24-26 September, 2018 participated. (**No.110/2018-19; dated 22.09.2018**).
- **Counselor** for the **Appreciation Programme on Sustainable Management of Biodiversity** for delivering online lecture on “**Threats to Biodiversity**” to the students of Indira Gandhi National Open University on 20.02.2013 by the Chair for Sustainable Development, Indira Gandhi National Open University, New Delhi (**Counseling Schedule of Block No. 03: Threats to Biodiversity; E-mail- 19.02.2013**).
- **Counselor** for the **Appreciation Programme on Sustainable Management of Biodiversity** for delivering online lecture on “**Threats to Biodiversity**” to the students of Indira Gandhi National Open University on 20.06.2013 by the Chair for Sustainable Development, Indira Gandhi National Open University, New Delhi (**Counseling Schedule of Block No. 03: Threats to Biodiversity; E-mail- 19.06.2013**).
- **Counsellor** for the **Appreciation Programme on Sustainable Management of Biodiversity** for delivering online lecture on “**Threats to Biodiversity**” to the students of Indira Gandhi National Open University on 01.10.2012 by the Chair for Sustainable Development, Indira Gandhi National Open University, New Delhi.
- **Counsellor** for the **Appreciation Programme on Sustainable Management of Biodiversity** for delivering online lecture on “**Threats to Biodiversity**” to the students of Indira Gandhi National Open University on 20.11.2012 by the Chair for Sustainable Development, Indira Gandhi National Open University, New Delhi.
- **Member of the State Biodiversity Board**, Government of Himachal Pradesh (No. STE-A(3)-1/2004; Dated- 31.05.2011).
- **Member of Steering Committee of the State Centre for Climate Change (CCC)** in Himachal Pradesh (No.STE-B (15)-1/2010; dated- 09.09.2011).
- **Member of Working Group on National Mission on Himalayan Ecosystem** under the State Centre for Climate Change (CCC) in Himachal Pradesh (ENV&ST(F)-2359).

- **Member of State Level Steering Committee** for the Protection, Development and Maintenance of Cold Desert Biosphere Reserve (No. FFE-B-E(13)-4/2007-L).
- **Expert of the Selection Committee** for interviewing the candidates for appointment to the post of **Assistant Professor in Forestry** on August 08, 2011 by the Uttarakhand Open University, Haldwani, Nainital, Uttarakhand (Ref. No. UOU/OSD/Conf/67; Dated-06.07.2011).
- **Member of Indian National Steering Committee (NSC)** of the Global Pollination Project “**Conservation and Management of Pollinators for Sustainable Agriculture through an Ecosystem Approach**”.
- **Member of Expert Team of the Department of Science and Technology** for the Field Monitoring of Core Support for Himalayan Research Group, Shimla and Science Technology Development, Mandi from 23-25 November, 2011 (D.O. No. SP/RD/052/2003; Dated-October 28, 2011).
- **Member of the delegation of Ministry of Environment and Forests, Govt. of India**, participated in the **China-India Joint Workshop on Mountain Ecosystem and Climate Change held at Beijing, China** on September 29, 2010.
- **Member** of Panel of Experts by the State Medicinal Plants Board Himachal Pradesh, Shimla to monitor the ongoing projects on medicinal plants in the State Sanctioned by the National Medicinal Plants Board (No. Ay.H(A) (8)-8/81-SMPB-III-1753).
- **Member** of the State Level Steering Committee for the Protection, Development and Maintenance of Cold Desert Biosphere Reserve (No. FFE-B-E(13)-4/2007-L).
- **Member** of the District Steering Committee to the Community Led Assessment, Awareness, Advocacy & Action Programme for Environment Protection & Carbon Neutrality in H.P. (CLAP) constituted by the Additional Secretary (Env., S&T) to the Govt. of Himachal Pradesh, Shimla, Himachal Pradesh (No. DRDA/CLAP/Meeting/2010-11/6088-94).

16. Professional Memberships: 16

- Member, National Academy of Sciences, Allahabad
- Member, Prof. P.N. Mehra Memorial Trust
- Life Member, Indian Fern Society
- Life Member, Indian Science Congress Association
- Founder Member, Association for Plant Taxonomists
- Life Member, Society of Ethnobotanists
- Life Member, The U.P. Association for the Science and Technology Advancement
- Life Member, Central Himalayan Environment Association
- Life Member, Orchid Society of India
- Life Member, PAHAR, Nainital
- Life Member, Association of Administrative Staff College of India, Hyderabad
- Life Member, Indian Society of Life Sciences
- Life Member, Himalayan Medicinal Plants Grower’s Association, Mandi, Himachal Pradesh
- Life Member, Society for Plant Research, India

- Life Member, Indian Society of Seed Research
- Life Member of the Seabuckthorn Society of India

17. Projects Completed (As Principal Investigator & Co – Investigator): 36

- Conservation of Biological Diversity of Ecologically and Economically important plants of Kumaun Himalaya. **In House Project (Principal Investigator)**
- Bioresource Inventory of the Himalaya. **In House funded (Co -Principal Investigator)**
- Studies of Biodiversity: Fragmentation and conservation of ecologically sensitive habitats of the Himalaya. **In House Project (Co- Investigator)**
- Establishment and maintenance of a functional Arboretum at Kosi-Katarmal, Almora. **In House Project (Principal Investigator)**
- Initiating people's participation in the conservation of Himalayan Biodiversity. **In House Project (Co - Principal Investigator)**
- Assessment of biodiversity of subtropical and temperate forests of Kumaun Himalaya. **In House Project (Principal Investigator)**
- Studies on the structure, composition and changes of the vegetation in Nanda Devi Biosphere Reserve of West Himalaya. **Funded by MOE&F (Principal Investigator)**
- Lead/Coordinating Institution for Nanda Devi, Manas, Dibru- Saikhowa and Dehang Debang Biosphere Reserves. **Funded by MOE&F (Principal Coordinator)**
- Centrally Sponsored Scheme- Macro Management of Agriculture- Supplementation/Complementation of State's efforts through Work Plans- Development of Medicinal and Aromatic Plants. **Funded by Directorate of Arecanut and Spices, Ministry of Agriculture, Department of Agriculture and Cooperation, Calicut (Principal Investigator)**
- Documentation of agrotechniques and post harvest processing of medicinal plants of the Indian Himalayan Region. **Funded by IUCN Himal, IUCN Secretariat, WII, Dehradun (Principal Investigator)**
- Development of infrastructural facilities in the botanical garden of G.B. Pant Institute of Himalayan Environment and Development, Kosi- Katarmal, Almora. **Funded by MOE&F, New Delhi (Principal Investigator)**
- Population assessment and maintenance of germplasm of selected multipurpose trees and rare, endangered medicinal plants in the Arboretum, Kosi- Katarmal, Almora, Uttaranchal. **Funded by Investing in Nature- India (IIN- India), NBRI, Lucknow (Principal Investigator)**
- Studies on the Floristic Diversity of the Hamta-Jagatsukh Catchments in Himachal Pradesh. **Funded by WPA, New Delhi (Principal Investigator)**
- Preparation of Management Plan for Medicinal Plants in the Catchment Area of Parbati Hydro Electric Project Stage – III (520 MW) in District Kullu, Himachal Pradesh. **Funded by NHPC, Kullu, Himachal Pradesh (Principal Investigator)**
- Inventory of plant diversity of the Trans, North West and West Himalaya. **In House Project (Principal Investigator)**
- Studies on diversity and conservation status of forest vegetation in a Cold Desert Biosphere Reserve of North West Himalaya. **Funded by MOE&F, New Delhi (Principal Investigator)**
- Inventory and monitoring of natural resources for the socio-economic development of local communities in Mohal Khad Watershed of the Himachal Himalaya. **In House Project (Principal Investigator)**
- Establishment and maintenance of arboretum, herbal garden and nursery in Himachal Pradesh. **In House Project (Principal Investigator)**

- Studies on Diversity and Conservation Status of Plants in a Proposed Cold Desert Biosphere Reserve of Trans and North West Himalaya. **Funded by MOE&F, New Delhi (Principal Investigator)**
- Study on the assessment and conservation prioritization of plant diversity along an altitudinal gradient in Himachal Pradesh, North Western Himalaya. **Funded by DST, New Delhi (Principal Investigator)**
- Response assessment and processing of knowledge base to serve long term management and use of biodiversity in the area- Biodiversity evaluation and conservation in Nargu Wildlife Sanctuary of the Himachal Pradesh, North Western Himalaya. **In House Project (Principal Investigator)**
- Conservation and sustainable utilization of medicinal plants in the Himachal Pradesh, north western Himalaya. **In House Project (Principal Investigator)**
- Up-scaling applicability of *ex situ* mechanisms for conservation and utilization of high value plant species – focusing on promotion of conservation education and capacity building. **In House Project (Principal Investigator)**
- Expanding outreach through Participation of Youth in Real time/ field Observations to Benefit Education (PROBE) in the Himalayan Region and establishment of Technical Resource Centre (TRC) at Mohal-Kullu, Himachal Pradesh. **Funded by DST (Co-Principal Investigator)**
- Project Proposal for Financial Assistance for Improvement of Infrastructural Facilities and Establishment and Maintenance of Rare, Endangered, Threatened and Endemic Plants in the Arboretum at Mohal and Herbal Garden at Doharanala, Himachal Pradesh under Botanical Garden Scheme. **Funded by MOE&F, New Delhi (Principal Investigator)**.
- Assessment and quantification of forest ecosystem services with special emphasis on pollination in the Indian Himalayan agro-ecosystems. **Funded by Earthwatch Institute, India (Co-Principal Investigator)**
- Ecological evaluation, mapping and conservation prioritization of floristic diversity of the Spiti Valley in a Proposed Cold Desert Biosphere Reserve in Trans Himalaya. **Funded by MOE&F, New Delhi (Principal Investigator)**
- Understanding biodiversity patterns and processes under changing resource use and climate scenario in Indian Himalaya – ecological and social implications. **In House Project (Principal Investigator)**
- Promoting conservation and sustainable utilization of Himalayan biodiversity elements using biotechnological and physiological approaches. **In House Project (Co-Principal Investigator)**
- Mapping community perceptions and vulnerability assessment of Biodiversity in the selected sites of Kullu district, Himachal Pradesh. **Funded by Swiss development Cooperation (Principal Investigator)**
- Promoting Pollinators using Community based Conservation Approach at Kullu, Himachal Pradesh. **Funded by Earthwatch Institute, India (Principal Investigator)**
- All India Coordinated Research Project on Sacred Grove Ecosystem Service Assessment of Ecosystem Services in Sacred Groves of Himachal Pradesh, North Western Himalaya. **Funded by Ministry of Environment & Forest, New Delhi (Principal Investigator)**
- All India Coordinated Project of DBT on “Preventing Extinction and Improving Conservation Status of Threatened Plants through Application of Biotechnological Tools”. **Funded by Department of Biotechnology, New Delhi (Principal Investigator)**
- Study on the impact of Sainj Hydro-Electric Project on the Great Himalayan National Park (GHNP) in general and flora and fauna of the local area in particular. **Funded by Sainj**

Hydro-Electric Project, Himachal Pradesh Power Corporation Ltd., Sarabhai, H.P. (Principal Investigator)

- Scientific Research on Changing Climate and its impact on Floral Diversity and Ecosystem Services (Pollination) at Kullu region of IHR – a Citizen Science initiative. Funded by **EWI, India (Principal Investigator)**
- Himachal Pradesh Forests for Prosperity Project: Environmental Assessment and Management Framework for the Satluj Catchment Area. Funded by World Bank under Himachal Pradesh Forests for Prosperity project (**Principal Investigator**)

18. Projects Ongoing (As Principal Investigator & Co – Investigator): 10

- Population Assessment, Standardization of Propagation Protocols and Establishment (*ex situ* & *in situ*) of Selected Species as a Part of Biodiversity Conservation Plan under Sainj Hydro-Electric Project in Himachal Pradesh. **Funded by HPPCL, Sarabhai (Principal Investigator)**
- National Mission for Sustaining the Himalayan Ecosystem (NMSHE): Task Force-3, Forest and Plant Resources. (**DST funded; Co-Principal Investigator**)
- Vulnerability assessment of mountain ecosystems due to climate change: Ecosystem structure and function. (**IIRS funded: Principal Investigator**)
- Standardization of post harvest technology for Wild Rose Hips and promotion as sustainable livelihood option among poor self help women groups in Kullu Valley, Himachal Pradesh. (**DST funded; Co - Principal Investigator**)
- Preparation of Peoples' Biodiversity Register (PBR) for Kullu district in Himachal Pradesh (**HimCOSTE - SBB Funded; Principal Investigator**)
- Community based conservation project and long term monitoring of Pollination projects in Kullu, Himachal Pradesh (**EWI, India funded; Principal Investigator**)
- Assessment of floristic diversity and microbial association of the Birch – Rhododendron forest in Himachal Pradesh, North Western Himalaya, India (**Mountain Division funded; Principal Investigator**).
- Community driven solid waste management in Himachal Pradesh: A step towards Swachh Bharat Mission (**In House funded; Principal Investigator**)
- Microbial Endophytes and Soil Enzymes as Indicators of Climate Resilience with Respect to Himalayan Birch: A Critically Endangered Timber Line Species (**NMHS funded; Principal Investigator**).
- Identification of Elite Planting Material of Selected Temperate Medicinal Herbs, Mass Multiplication, Field Demonstration and Post-Harvest Processing (**DBT funded; Principal Investigator**).

19. Ph. D. Guided (As Guide and Co – Guide): 25

- Assessment of habitat diversity, forest vegetation and human dependence in the buffer zone of Nanda Devi Biosphere Reserve of west Himalaya (**Dr. H.C. Joshi- Awarded, 2002**)
- Assessment of habitat diversity, distribution of vegetation and human dependence in alpine meadows of Nanda Devi Biosphere Reserve, west Himalaya (**Dr. S.C. Arya-Awarded, 2002**)
- Assessment of plant diversity and ethnobotany of Mornaula Reserve Forest in Kumaun, west Himalaya (**Dr. Shreekar Pant- Awarded, 2005**)

- Assessment of diversity of economically important plant resources in the Gola Catchment of Kumaun region, west Himalaya (**Dr. Surbhi Pandey-Awarded, 2006**)
- Assessment of diversity and conservation status of plants in Kais Wildlife Sanctuary of Himachal Pradesh in North West Himalaya (**Dr. Manohar Lal- Awarded, 2007**)
- Assessment of floristic diversity and prioritization of communities for conservation in Manali Wildlife Sanctuary of Himachal Pradesh in North Western Himalaya (**Dr. Man Singh-Awarded, 2007**)
- Assessment of plant diversity and conservation status of forest vegetation in a proposed Cold Desert Biosphere Reserve of Himachal Pradesh in North Western Himalaya (**Dr. Ashok Singh- Awarded, 2007**)
- Assessment of floristic diversity and prioritization of communities for conservation in Hirb & Shoja Catchments, Siraj Forest Division of Himachal Pradesh in North Western Himalaya (**Dr. Aman Sharma- Awarded, 2008**)
- Assessment, valuation and prioritization of floristic diversity along an altitudinal gradient in Mandi District of Himachal Pradesh, North Western Himalaya (**Ms. Sakshi Bhandari-Awarded, 2009**)
- Assessment of plant diversity of Sandeo area of Pithoragarh district, Kumaun Himalaya (**Dr. S.C. Garkoti- Awarded, 2009**)
- Ecological Assessment and Conservation Prioritization of Floristic Diversity of the Tirthan Wildlife Sanctuary in Himachal Pradesh, North Western Himalaya (**Ms Shalu Thakur: Awarded, 2012**)
- Ecological Assessment of Floristic Diversity and Possible Impacts of Hydropower Projects in Kullu District of Himachal Pradesh, North-Western Himalaya (**Mr. Pankaj Sharma-Awarded, 2013**)
- Ecological Assessment of Floristic Diversity of the Sacred Shrines in Central Part of Himachal Pradesh, North-Western Himalaya (**Mr. Sunil Marpa- Awarded, 2013**)
- Evaluation and Conservation Prioritization of Medicinal Plants Diversity of Kullu District in Himachal Pradesh, North-Western Himalaya (**Ms. Shalini Vidyarthi- Awarded, 2013**)
- Assessment and Conservation Prioritization of Floristic Diversity of Watershed Rissa Khad (**Ms. Tara Devi- Awarded, 2013**)
- Study on Assessment and Prioritization of Floristic Diversity for Conservation Management in Nargu Wildlife Sanctuary, North Western Himalaya (**Mr. Pankaj Sharma- Awarded, 2015**)
- Assessment of forest carbon stock in the sub-tropical and temperate forests of North Western Himalaya, India (**Mr. Shankroop Ghosal- Awarded, 2016**)
- Studies on Medicinal Plants of Anni Khad Watershed, Kullu in Himachal Pradesh: Diversity, Indigenous Uses and Seed Ecophysiological Aspects (**Anita Kumari - Submitted, 2017**)
- Assessment, Characterization and Conservation Prioritization of Floristic Diversity of the Cold Desert Biosphere Reserve in Trans Himalaya (**Ms. Lipika Sharma- Awarded, 2017**)
- Study on Floristic Diversity Assessment, Monitoring and Prioritization in Great Himalayan National Park, North Western Himalaya For Management Implications (**Ms. Monika Bodh-Awarded, 2017**)
- Study on Assessment, Ecological Niche Modeling and Investigation of Antioxidant Potential of Medicinal Plants in Cold Desert Biosphere Reserve, Trans Himalaya (**Ms. Deepti Negi-Awarded, 2017**)

- Ecological Assessment, Valuation and Conservation Prioritization of Floristic Diversity in Kalatop-Khajjar Wildlife Sanctuary of Himachal Pradesh, North Western Himalaya (**Mr. Ashish Kumar – Submitted 2018**)
- Assessment, and Conservation Prioritization of Floristic Diversity in Kanawar Wildlife Sanctuary, Himachal Pradesh, North Western Himalaya (**Ms. Kaushalaya Devi – Submitted 2018**)
- Vulnerability Assessment of Economically Important Floristic Diversity in Central Himachal Pradesh of North Western Himalaya (**Mrs. Pooja Kumari – Submitted 2018**)
- Population Assessment and Ecological Niche Modeling of Economically Important Species in North Western Himalaya (**Mr. Shiv Paul – Submitted 2018**)

20. Ph. D. Registered (As Guide and Co – Guide): 09

- Population Assessment, Ecological Niche Modeling and Conservation Strategies for Threatened Plant Species in Himachal Pradesh, North Western Himalaya (**Mr. Rajesh Kumar**)
- Vulnerability Assessment of Floristic Diversity of Shivalik Hill in Himachal Pradesh (**Ms. Jyoti**)
- Valuation of Ecosystem Services in the Selected Sacred Groves of Himachal Pradesh, North Western Himalaya (**Mr. Deepak Kumar**)
- Threat Categorization and Conservation Prioritization of Floristic Diversity in Pangi Valley of Himachal Pradesh, North Western Himalayas (**Mr. Om Prakash**)
- Vulnerability assessment of floristic diversity of sub alpine and Alpine Ecosystem in Great Himalayan National Park, North- Western Himalaya (**Mr. Amit Singh**)
- Assessment and Conservation Prioritization of Floristic Diversity of Bagi and Munjag Catchments in Mandi Districts of Himachal Pradesh (**Ms. Anjana**)
- Study on population assessment and ecological niche modeling of *Quercus oblongata* D. Don in Himachal Pradesh, North Western Himalaya for conservation (**Mr. Tanay Barman**)
- Assessment, Valuation and Conservation Prioritization of Floristic Diversity of Khokhan Wildlife Sanctuary in Himachal Pradesh, North Western Himalaya (**Mr. Vijay Kumar**)
- Study on compositional and structural diversity of vegetation in the Inderkilla National Park, North Western Himalaya (**Mr. Sunil Dutt**)

21. Abroad Visits: United Kingdom (U.K.); China; Switzerland; and Nepal

22. Professional Training Courses : 08; **Expeditions:** 02

23. Technical Reports Submitted: > 20

24. Seminars/Workshops/Meetings/Exposure Visits Organized: > 60

25. Seminars/Workshops/Meetings Attended: > 200 (Local, Regional, National and International)

26. Lectures Delivered as Chief Guest, Expert and Resource Person: > 100

Place: Mohal-Kullu, Himachal Pradesh

(S. S. Samant)

Date: 04.04.2019