

# Editor in Chief

## S.T.S. Lepcha

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### Personal Information:

Contact details	Indian Forest Services
Date of Birth	6 <sup>th</sup> April 1958
Date of superannuation from the Institution	31 <sup>st</sup> April, 2018
Designation at the time of superannuation from Service	Principal Chief Conservator of Forests, Uttarakhand Forest Department

### Educational Qualifications (Bachelors' Degree onwards):

Degree	Name of the Institution/ University	Passing Year	Subjects
Bachelor of Science	North Bengal University	1978	Botany, Zoology, Chemistry
Master of Science	North Bengal University	1980	Botany
Diploma in Forestry	Indira Gandhi National Forest Academy, Dehradun	1985	Forestry

### Professional Trainings:

Participated training programmes (more than 35) in different organisation conducted by Government of India in major subjects like Forestry, Law, Environment, Public Administration, Social economic issues and Livelihoods.

Organisations	Period		Details of Trainings
	From	To	
Foundation Course from Lal Bahadur Shastri National Academy Mussorie	April, 1985	June, 1985	Organisational Administration
Training of Trainers (ToT) from Manchester University (UK)	January, 1995	March, 1995	Training of Trainers in watershed management.
Midterm review training on forestry from University of British Canada/IIM Bangalore (India)	March, 2008	April, 2008	New forest management techniques, climate change etc.

### Experience:

#### Research Experience:

- Undertaken R&D on various bamboo and natural fiber related activities, ranging from provenance trials for species suitability in various geo-physical conditions of Uttarakhand. Introduction of new bamboo species. Bamboo preservation and treatment using alternate plant based preservation and treatment methodology. Tool development for value addition. Exploratory work on unexplored forestry species aimed to generate sustainable livelihoods for the rural communities of the state.
- A research and development activity on Himalayan Nettle and hemp fibre processing and standardization was carried out. The traditional degumming and softening methods used till date involved heavy use of fuel wood and was introduced in an effort to:
- Reduce the usage of fuel wood in the processing

- Reduce the usage of water in the processing
- Reduce the drudgery associated in processing to the extent possible
- Improve the overall economics of the value chain associated in processing Himalayan Nettle from raw bast fiber to final product
- To create rural development through bamboo and natural fibre based activities, several design development tools and machines were developed and introduced.

#### Experience related to sustainable mountain development:

- During my tenure in Tehri forest division, plantation of three tyre system, trees, shrubs and grass was carried out in the community forest area to increase the fodder to the rural people. Social development through watershed approach in the Doon Valley watershed management project funded by European Union. Participatory techniques like PRA exercise was developed first time in the state (Govt. Department). Subsequently these techniques were adopted by the World Bank Project under JFP, which helped to increase the capacity of the Vanpanchayat of the state in forest management.
- Successfully prepared 10 years working plan for Kalsi and Siwalik Division in the erstwhile State of Uttarpradesh. Got to implement exercise like inventory, survey and mapping of forest area. Enumeration, soil sampling, silvicultural systems and operation to be adopted. Work related to bamboo and natural fibre based livelihood in the state included inter-alia, bamboo resource augmentation, training and capacity building of farmers, artisans and other stakeholders, post harvest treatment with boi-preservation methods activities were developed for the Bamboo and Fibre Development Board, Dehradun. Helped to the Government of India to formulate natural fibre policy in 2010 and included nettle and hemp fibres in the policy first time. A mechanism like Eco-tourism was introduced in the state, which is an innovative programme to create new model in the state.

#### Experience in Managing Research Projects:

S.No.	Project Details	Donor Agency	Duration	Project Budget (INR in Lakhs)
1	Bamboo and Fiber Based Livelihood Development in Uttarakhand – Phase-I	Sir Ratan Tata Trust	2005 to 2007	123
2	Revalidation of the project entitled “Uttarakhand Bamboo Craft, Revitalization & Diversification Program for Livelihood & Ecological Restoration” (UBRDP)	Social Welfare Department, Govt of Uttarakhand	2006-2011	253
3	Bamboo and Fiber Based Livelihood Development in Uttarakhand - Phase – II	Sir Ratan Tata Trust	2008 to 2011	145
4	National Bamboo Mission	Govt. of India	2006-07 to 2011-12	1423.84
5	Bamboo Resource Development Project	Govt. of Uttarakhand	2004-2009	650.01
6	Allied Activities in Bamboo/Ringal and Natural Fibers	CAMPA Uttarakhand	2008-09 to 2011-12	202
7	Ecological Rebuilding – Ringal Plantation	ONGC	2008-09 to 2011-12	300
8	Setting up of Center for Bamboo Training and Product Development at Paniyali, Kotdwar (CBTPD)	NMBA (Govt. of India)	2009-10	50
9	Eco-Friendly housing using bamboo	Forest Department, Garhwal Mandal Vikas Nigam, and private Entrepreneurs	2005 to 2011	500

#### Project Proposals Handled for Fund Generation:

- Capacity Building project to World Food Programme.
- Research and Development project on Bamboo Plantation to DBT, Govt. of India.

- Project prepared for National Bamboo Mission Govt. of India.
- Bamboo Resource Development Project Allied Activities in Bamboo/Ringal and Natural Fibers to CAMPA Uttarakhand.
- Rural livelihood Support Project to Sir Ratan Tata Trust Mumbai.
- Ecological Rebuilding – Ringal Plantation to ONGC.
- Overall plan and financial management for Uttarakhand Forest Department.

### **Major Scientific/ Technological Achievements:**

- Bamboo treatment with Bio-preservation techniques in Neem and lantana and agave extract.
- Degumming and softening methods developed in Himalayan nettle and Hemp fibers.
- Tools and machines modification and development for bamboo and natural fibres processing.

### **Members of Learned Societies (International and National):**

- Member at Himmothan Society (Sir Ratan Tata Trust)
- Editor in Chief Journal of Non-Timber Forest Products

### **New Methods/ Theory/ Process established, Technology Developed, Socioeconomic issues Addressed, Unique data base/centres established:**

- To promote bamboo and natural fibre based activities in the state an institution was developed in the name of Uttarakhand Bamboo and Fiber Development Board. Technology like bamboo and natural fiber processing was introduced, whereby more than 10000 farmers/artisans/weaver of the state were benefited. To train rural artisans in market focused bamboo/natural fibre products several design development workshop and capacity building programme were conducted. Social development through Watershed approach in the Doon Valley Watershed management was introduced, under which on farming and off farming techniques were developed to increase the socio-economic condition of the farmers. Bamboo felling from private land and free transit policy was developed first time in the state. Concept like natural fibres bank was introduced, under which minimum support price (MSP) on plant fibres approach was declared to the rural community.

### **Research/Book/Policy Papers Publication:**

#### **Policy Paper:**

- S. T. S. Lepcha; Draft of National Fibre policy was developed as a core member of policy maker group.

#### **Books:**

- Dr. Nisha Tripathi, Dr. Rakesh Singh, Dr. Prashant Singh, Dr. Sunita Kumar, Mr. STS Lepcha, Mr. Charan Jeet Singh, Ms. K. Rathna and Dr. Anshul Chandra; 2019; Phytochemical Investigation of *Girardinia Diversifolia* (Himalayan Nettle), India; ISBN-978-93-5335-447-3; Pp-1-91; AkiNik Publications, New Delhi.
- S. T. S. Lepcha, Sanjay Bahti, Anuj Kumar; Common Fiber Yielding Plants of North-West Himalayas-with Special Reference to Uttarakhand; Uttarakhand State Council for Science and Technology, Rural Technology Action Group, Dehra Dun, Uttarakhand Bamboo and Fiber Development Board; Bishen Singh Mahendra Pal Singh, 2009.

### **National/International Research Publication:**

- S. T. S. Lepcha, H. B. Naithani; 2018; Gregarious Flowering of a Bamboo *Ampelocalamus patellaris* from West Bengal. *Indian Forester*, 144 (1): 96-97.
- Nisha Tripathi, S. T. S. Lepcha, C.J.Singh; 2013; Characterization of Industrial Hemp and *Girardinia heterophylla* and factor affecting fiber properties. *International journal of fiber and textile research*, Universal research publications, 3(2): 49-51.
- Nisha Tripathi, Sunita Kumar, Rakesh Singh And S.T.S.Lepcha; 2011; Development of commercially viable technologies of *Girardinia Diversifolia* (*Dans Kandali*) for income generation in Uttarakhand. *Universities journal of phytochemistry and ayurvedic heights*, 1(10): 28-32

- Anshul Vivek Chandra, N.S.K. Harsh, SadhnaTripathi and S.T.S. Lepcha; 2010; Efficacy evaluation of *Lantana camara* for bamboo protection. *Indian Forester*, 136: 1261-1270.
- Satish Kumar, Meirisiyang Pamei, J. Durai., S. T. S. Lepcha; 2009; Efficacy of some Remedial Treatment of Bamboo Structures/Furniture. *Indian Forester*, 135 (11): 1465-1469.
- Anshul Vivek Chandra, N.S.K. Harsh, SadhnaTripathi and S.T.S. Lepcha; 2009; Preliminary screening of Neem seed oil against *Schizophyllum commune*- A bamboo degrading white rot fungus. *Indian Forester*, 135 (11): 1511-1514.
- Nisha Tripathi, Abhay Bahuguna, Anshul Chandra and S.T.S.Lepcha; 2009; Status of herbal products in the markets at Haridwar, Uttarakhand. *Indian forester*, 135 (9): 1232-1236.
- S. T. S. Lepcha, Satish Kumar; 2008; A Note on the Biocidal Efficacy of Agave Extract on Bamboos. *Indian Forester*, 134 (3): 363-366.
- Abhay Bahuguna, Nisha Tripathi, Anshul Chandra and S.T.S. Lepcha; 2008; Production and processing of industrial hemp (bhang) fibre and its future potential in textile/ cordage industry. *Indian Forester*, 134 (12): 1571-1574.
- S. T. S. Lepcha, N. S. Bisht, C. J. Singh, Vimal Dhiman; 2008; Impact of Cultural Operations on the Production of New Culms in *Dendrocalamus strictus*(Roxb.) Nees in Uttarakhand. *Indian Forester*, 134 (7): 859-865.
- H. B. Naithani, S. T. S. Lepcha; 2017; A Note on Gregarious Flowering of *Gigantochloa andamanica* from Andaman Islands, India. *Indian Forester*, 143 (11): 1207-1208.
- H. B. Naithani, Mohinder Pal, S. T. S. Lepcha; 2003; Gregarious Flowering of *Thamnocalamus spathiflorus* and *T. falconeri*, Bamboos from Uttaranchal, India. *Indian Forester*, 144 (1): 517-526.
- J. D. S. Negi, S. C. Sharma, S. T. S. Lepcha; 1991; Biomass and Nutrient Accumulation (Inventories) in Shrubland Ecosystems of Garhwal. *Indian Forester*, 117 (8): 635-641.
- S. T. S. Lepcha, G. S. Goraya, H. B. Naithani; 1991; A Note on the Occurrence of Orchid *Galeola lindleyana*, from Uttarakhand. *Indian Forester*, 117 (8): 712-713.