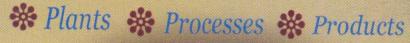


Institute of Himalayan Bioresource Technology

Council of Scientific & Industrial Research)
Post Box No. 6 Palampur (H.P.) 176 061 India
ISO 9001-2000: AND NABL ACCREDITED

A Tech Profile





Mission

IHBT is committed to provide R&D services on economic bioresource in western Himalayan region leading to value added plants, products and processes for industrial, societal and enviornmental benefits

Thrust Areas

- Biodiversity mapping & conservation
- Climate change
- Adaptation biology
- Genomics, proteomics & metabolomics
- Nanobiology
- Chemical characterization, molecular modification & value addition
- Viral diagnostics
- Tea, bamboo, floriculture, medicinal and aromatic plants





Recognition

- Plant Bioresource Databases
- National Facility for Virus Indexing of Ornamental Plants
- National Centre for Pesticide Residue Analysis for Tea & Herbals
- Referral Herbarium Acronymed as PLP
- Centre of Excellence in Bamboo

Technologies Developed

Warieties released

Damask Rose (Himroz and Jwala); Gladiolus (10 varieties); Tagetes minuta(Himgold); Valeriana jatamansi (Himbala); Hedychium spicatum (Himkachri); Curcuma aromatica (Himhaldi)

Recombinant Enzymes

Superoxide dismutase, Polyphenol oxidase, Catalase, Ascorbate peroxidase

***** Processes

Stevioside, Aescein, Vanillin, 4-vinyl guaiacol, Analogue of natural whisky lactone, Theaflavin, Tea wine, Tea concentrates, Natural dye, Viral diagnostic kits, Bioformulations, *iRIS*TM (RNA isolation solution)

Apparatus/Machines Developed

Mini-Distillation Unit, Tea Leaf Plucking Machine, Tea Withering Machine, Steriflow (Mini Laminar Flow Unit), Gel Transfer Device, Rooting Vessel for tissue culture plants





In vitro propagation of Bamboos, Tea, Scented Roses, Lilies, Orchids

Agrotechnologies

Stevia, Lavender, Scented Rose, Geranium, Wild Marigold, Lilies, Alstroemeria, Bird of Paradise, Chrysanthemum, *Hedychium*, Valerian, Curcuma



Planting Material Available

Bamboo, Stevia, Rose, Lavender,
Alstroemeria, Bird of Paradise,
Carnation, Chrysanthemum
Gladiolus, Lilies, Tulip, Tuberose
Ginkgo, Curcuma, Valerian, Hedychium,
Large cardamom and
several medicinal & aromatic plants





Services Rendered

- Project Formulation and Evalution
- Consultancy Services
- Collaborative Research
- Turnkey Ventures
- Plant Virus Testing
- Chemical Analysis of Aromatics and Herbals
- DNA fingerprinting
- Trainings and Human Resource Development

Infrastructure

IHBT is the constituent laboratory of Council of Scientific and Industrial Research, established in 1983 in the famous Kangra valley of Himachal Pradesh. The 250 acre campus has state-of-the art labs for research on plant metabolic engineering, nanobiology, climate change, plant-microbe interactions, plant tissue culture pesticide residue analysis. It has GIS and computing facilities for mapping of plant resources. Labs equipped with analytical facilities and pilot plants strengthen process and product development. Herbal gardens for medicinal plants, tea, rose and bamboo plantations support research on mandate crops. Farms, greenhouses, propagation chambers aid in standardization of agrotechnologies. Modern library and IT network serve as important tools for R&D. Institute focuses research around development of value chain from agrotechniques, processing to product development

Contact Person

Director

Phone: +91-01894-230411

Fax: +91-01894-230433

E-mail: director@ihbt.res.in website: http://www.ihbt.res.in