

**Project Title:**

**Enhancement of livelihood options based on locally available resources in disaster affected villages in Kedar valley of Uttarakhand (No. GBPI/GU/DST-SEED/TIME/028/2014 -G)**

<b>Name of Principal Investigator</b>	Dr. R.K. Maikhuri, Scientist 'F' (G. B. Pant National Institute of Himalayan Environment and Sustainable Development)
<b>Co- Principal Investigator</b>	Dr. A. K. Sahani, Scientist 'D' (GBPNIHESD)
<b>Thrust Area</b>	Balancing Forest use & Conservation
<b>Project Area</b>	Kedarnath valley, block Ukhimath, Rudraprayag district
<b>Total Cost of Project</b>	Rs. 31,89,980/-
<b>Date of Start</b>	22 July 2016
<b>Date of Completion</b>	22 July 2019
<b>Achievements</b>	<p><b>✓ Demonstration of cost-effective protected cultivation of promising high value off-seasonal and seasonal vegetables under protected condition (poly-house/shade-net house/polytunnels) through participatory approach.</b></p> <p>-Installed and distributed poly-houses and poly-sheets in model demonstration site and in some selected villages for vegetable sq. meter cultivation.</p> <p>-More than 30 farmers have started nursery raising of some valuable vegetable.</p> <p><b>✓ Demonstration through cultivation of selected high value low volume medicinal plant species and their integration with horticultural plants.</b></p> <p>-Developing demonstration model on integration of medicinal plants cultivation together with horticultural plants as a potential option to increase per unit area production and income.</p> <p><b>✓ Screening of potential multipurpose tree species based on ecological suitability and adaptability, economically valuable and socially acceptable for large scale</b></p>

	<p><b>restoration/ rehabilitation of flooded rural landscape of the region.</b></p> <p>-Initiated screening and raising nursery of 10 MPTs for restoration/rehabilitation of flooded rural landscape in the valley following ecological restoration and agroforestry approaches.</p>
	<p><b>√ Capacity building/skill development through training, live demonstrations/field exercise of disaster affected people on sustainable utilization and management of bio and land resources for livelihood improvement</b></p> <p>-3 training programs and 2 skill development programs on livelihood enhancement and sustainable management of natural resources have been organized between November 2016- July 2017</p>

### **Project Goal**

To enhance livelihood options through application of simple, cost-effective technological interventions to build capacity and skills of the affected people in harnessing the potential of locally available resources by balancing forest use and conservation.

<b>S.No.</b>	<b>Approved Objectives</b>	<b>Objectively Verifiable Indicators</b>
<b>01.</b>	<b>Demonstration of cost-effective protected cultivation of promising high value off-seasonal and seasonal vegetables under protected condition (poly-house/shade-net house/polytunnels) through participatory approach.</b>	List of vegetables to be cultivated
		No. of poly-houses, nurseries developed
		List of technologies employed
		List of beneficiaries
		No. of awareness workshops conducted
		No. of people trained
		List of technologies adopted by people
<b>02.</b>	<b>Demonstration through cultivation of selected high value low volume medicinal plant species and their integration with horticultural plants.</b>	List of medicinal plant species or MAPs selected for cultivation
		On-site demo for promotion and cultivation of suitable MAPs conducted
		No. of MPTs successfully raised using poly-house technology.

		List of species selected for integration with horticulture plants
		Bioprospecting options created
03.	<b>Screening of potential multipurpose tree species based on ecological suitability and adaptability, economically valuable and socially acceptable for large scale restoration/ rehabilitation of flooded rural landscape of the region.</b>	No. of MPT species screened
		No. of MPTs nurseries successfully raised.
04.	<b>Capacity building/skill development through training, live demonstrations/field exercise of disaster affected people on sustainable utilization and management of bio and land resources for livelihood improvement.</b>	List of new technologies created and demonstrated
		No. of existing technologies upgraded
		List of trainings imparted
		No. of people trained
		Number of beneficiaries
		No. of women participants
		List of ecological benefits
		No. of livelihood activities generated
		List of organization mobilizers
		Drudgery reduction
		Improved access to energy resources
		Improved health of beneficiaries
		No. of institutions created/linkages established
		List of documentations