TECHNOLOGICAL INTERVENTION FOR

MOUNTAIN ECOSYSTEM-LIVELIHOOD ENHANCEMENT THROUGH ACTION, RESEARCH AND NETWORKING (TIME-LEARN) PROGRAMME

INTRODUCTION



People of the Himalayas draw their livelihoods from agriculture and animal husbandry and forest resources. However, dwindling natural resources base, unsustainable agricultural practices and lack of basic amenities have posed a challenge for the local people. This calls for a need to develop technologies for proper utilization of natural resources of the Himalayan region, This can be achieved by innovative thinking and human resource development.

VISION & OBJECTIVES

- 1. To strengthen support linkages between field groups, S&T based civil societies, universities, and institutions involved in research and development
- 2. To support development of appropriate technologies for empowering local communities working groups and labourers.
- 3. To upgrade new technologies and optimum utilisation of local resources and motivate scientists and technologists to apply their knowledge for development and implementation of such technologies and their replication and dissemination in the disadvantaged sections.

Science for Equity, Empowerment & Development (SEED) Division. Department of Science and Technology (DST), Government of India along with Himalayan Environmental Studies and Conservation Organization (HESCO) and Wildlife Institute of India (WII), Dehradun, developed a concept of Technology Intervention for Mountain Ecosystems (TIME)-Livelihood Enhancement through Action Research & Networking (LEARN) program based on the deliberation among different stakeholders, Under this program, various Science and Technology (S&T) based innovative solutions have been developed and Implemented in the states of Jammu and Kashmir. Himachal Pradesh and Uttarakhand in Western Himalaya. Under this 19 projects have been sanctioned to various centers of excellence and research institutes for sustainable utilization and conservation of local resources.

THRUST AREAS

1. PROMOTING SUSTAINABLE AGRICULTURE AND BIO-FARMING

 Nurseries Comprising Virus free Elite mother plant of Apple established in H.P.
 Workshop cum Seed distribution held and seed banks are established .
 Farmers strain collected, purified, preserved , distributed and training conducted.

• Farmers are trained for polyhouse technology use to increase their production .



3. SUSTAINABLE TECHNOLOGY FOR WATER RESOURCE MANAGEMENT

5 polytanks and 5 percolation tanks established in villages Toolkit distributed for improving productivity and reducing drudgery

4. SUSTAINABLE TECHNOLOGIES FOR HARNESSING AND CONSERVING RENEWABLE ENERGY

The Solar retrofit has drastically reduced the use of fuel wood and pressure on the forest. Crop drying is carried by solar drier which has reduced the drudgery and also improved the dried products quality.



2. BALANCING FOREST USE AND CONSERVATION

 Nutritional Barley and extruded noodle from rice flour and barley flour are prepared.
 Frontline department trained for wildlife conflict mitigation and locals from lower socioeconomic strata household were also involved in technology monitoring and adaptation. Programme and training on livelihood improvement enhancement were attended by locals.
 Training on scientific

management of bees in mud hive disseminated and practiced by locals

5. DISASTER MANAGEMENT AND LANDSLIDE CONTROL

Mason training Programme on 'Eco-friendly and disaster resistant building technique conducted in villages.
Construction of demonstration building carried out at Various levels of training for artisans carried out to upscale capacities in masons.

6. GENDER SENSITIVE DEVELOPMENT APPROACH

Training on conservation & registration of farmers verities conducted in villages.
Fruit, fodder and plants have been distributed to the villagers.

 increased plant biodiversity and fodder production

· reduced women drudgery.





7. RURAL ENGINEERING AND TECHNOLOGY SUPPORT SERVICE

• Fabrication, Demonstration and trial of river rope-way has been done.

• Training on livestock management has been done and practiced.

• Sustainable backyard poultry are set up and practiced. •Mass production unit for bio formulation unit established.





SUSTAINABLE DEVELOPMENTAL GOALS ADDRESSED



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