

Project title: Diversification of Hill Agriculture through Integration of medicinal/ aromatic plants for Livelihood improvement in Garhwal Himalayas

Name of PI: Dr. Vishwajeet Kumar, Scientist F

Duration: 2011 to 2013

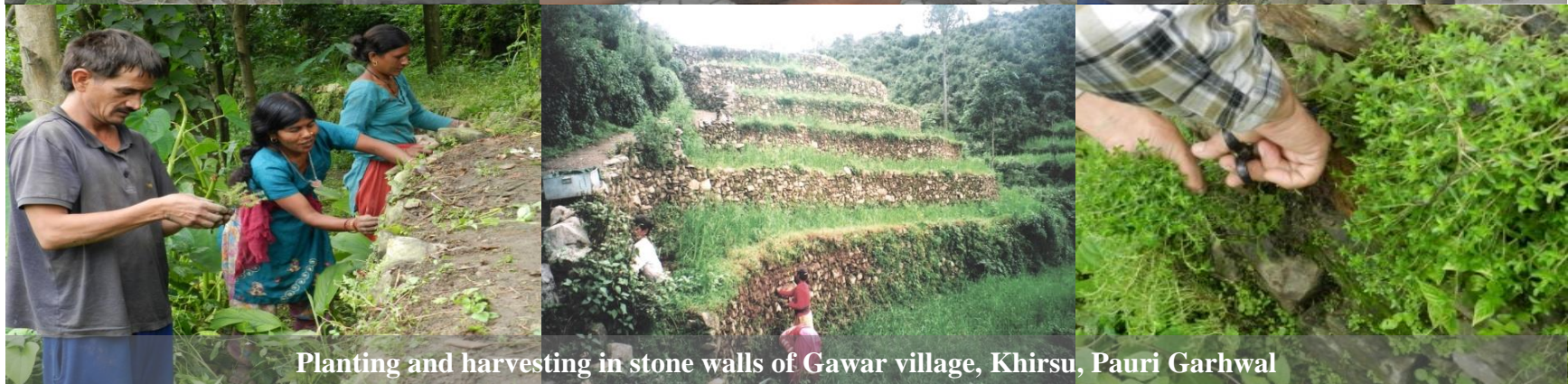
Funding Agency: ICFRE

Diversification of hill agriculture through integration of medicinal / aromatic plants for livelihood

Vegetative propagation technique was developed for *Thymus serpyllum* in Garwal Himalaya. Winter season recorded highest rooting (75.57%) for vegetative multiplication directly in nursery beds. Planting in July recorded 50-60% survival in upper 1/3rd part of stone walls of terraced fields. Fresh leaf yield in northern aspect recorded 4.5 g/plant. Growth and yield in stone walls is dependent on moisture level. Oil content of pooled samples ranges between 0.49-0.51%. Thymol constitute (64.66%) of Wild Thyme oil. Annually maximum of three harvests may be taken during active growing season i.e April to September. Estimated Input/Output ratio for Wild Thyme cultivation on stone walls is 1.71. Wild Thyme may be grown as annual herb in stone walls of agricultural fields without disrupting traditional crops.



Raising, packing, and field planting of *Thymus serpyllum*



Planting and harvesting in stone walls of Gawar village, Khirsu, Pauri Garhwal