

## Time Frame

Activities	Y1	Y2	Y3
<b>Establishment of high tech “state of the art” plant propagation nursery in collaboration with of CITH and IHBT</b>			
Procurement of virus indexed mother culture from IHBT Palampur for mass multiplication of apple rootstocks	√		
Modification in the tissue culture lab growth room for apple rootstocks mother cultures	√		
Establishment of high tech hardening chamber for primary hardening of apple rootstocks	√		
Establishment of semi high tech hardening chamber for secondary hardening of apple rootstocks		√	
<b>Rejuvenation of apple orchards by identification of meritorious trees from the existing plantations and top grafting with low chilling varieties</b>			
Procurement of bud wood of low chilling cultivars of apple ( for 50,000 plants)	√	√	
Procurement of climate resilient varieties of walnut and almond from CITH Germplasm ( 5000 each variety)	√	√	
Survey for the identification of meritorious trees in existing orchards (hiring 8 surveyor, 2 for each block for 15 days )	√		
Rejuvenation of apple orchards by top grafting of 40000trees with low chilling cultivars of apple	√	√	
Grafting kits for rejuvenation program of temperate region in all four blocks	√		
Establishing, management and hand holding support for promote decentralisednurseries at Kumaon and Garhwal regions	√	√	√
Development of 40000 apple plants for demonstration with 800 farmers in 20 villages of 4 blocks (includes recurrent cost of tissue culture lab and nurseries)	√	√	
Soil sampling and testing of 1000 orchards from four blocks	√	√	
Minimising gap between soil and plant health through organic cultivation e.g. IPNM input material	√	√	√
Establishment of 40 Mother orchards (PCDOs)		√	
<b>Capacity building of farmers on best package of practices on orchard management through trainings, demonstrations,IECand exposures</b>			
Capacity building of paratech with certified training program on orchard management	√	√	√
Capacity building of paratech with certified training program on nutrient management and soil health of orchards	√	√	√
Capacity building of farmers on orchard management of temperate fruits by exposure in apple production zones ( 2 per year)	√	√	√
capacity building of farmers on orchard management of temperate fruits at field level	√	√	√
Scope study for identification and indexing of fruit tree varieties (apple, walnut and almond) in Kumaun and Garhwal region of Uttarakhand (in collaboration with CITH and IHBT) for better market opportunities	√		
linkages with national and international agencies on knowledge development	√	√	√

Development of IEC material on temperate horticulture and soil health	√	√	√
Quarterly program monitoring of project	√	√	√