

National Mission on Himalayan Studies

PERFORMA FOR THE HALF YEARLY PROGRESS REPORT

(Period from 01/04/2016 to 30/9/2016)

Project Title : Collection, evaluation and conservation of native crops germplasm form Uttarakhand hills and pre-breeding through community participation

Sanction No. and date : NMHS/MG-2016/003/8501-7 dated: 31-03-2016

Institution Name: G.B. Pant University of Agriculture & Technology, Pantnagar, U.S. Nagar, Uttarakhand-263145

Personal Details:

Name and Address of the PI:

Dr. Anand Singh Jeena, Professor & Nodal Officer,
Pantnagar Centre for Plant Genetic Resources,
Directorate of Experiment Station, G.B. Pant University of Agriculture &
Technology, Pantnagar, U.S. Nagar, Uttarakhand-263145

Name and Address of the Co PI:- NA

Partner Details:

Sl. No	Name/ Address	Work assigned to partners	Fund allocated to partner during the period
1	Himalayan Gram Vikas Samiti, Awalaghat Road, Dasaithal Gangolihat (Pithoragarh)	1. Motivation of farmers and organization of trainings for creating awareness on germplasm collection <i>in situ</i> conservation and seed production. 2. Collaboration for survey and collection of land races of native crops from different districts of Uttarakhand. 3. In-situ conservation of identified strains (germplasm) by the community groups at the farmers' field.	175300.00

Project Objectives –

1. Survey, collection and purification of germplasm / land races of native crops (millets, pulses and vegetables) of Uttarakhand
2. Evaluation and characterization of strains for identification of specific distinguishable traits by morphological characters and biochemical and molecular techniques
3. In-situ conservation of identified strains (germplasm) by the community groups at the farmers' field and ex-situ conservation at Pantnagar Centre for Plant Genetic Resources (PCPGR), respectively for future use.
4. Development of model mechanism for in-situ conservation linked with seed production (millets and pulses) and seedling production (vegetables) of identified unique germplasm for income generation

Completion in the last six months in % (According to each Deliverables)-:

Sl No.	Quantifiable Deliverables (as per sanction letter)	Output/ achievements	Performance in terms of Monitoring indicators	Remarks
1.	Appointment of SRFs and Project Staff, Workers etc	Staff appointed by Main centre as well as partner NGO.	100%	
2.	Meeting with SHGs with the help of NGO and Awareness Lectures	Two meetings conducted	100%	
3.	Survey and exploration of the plant germplasm in the hilly district of Uttarakhand with community participation and collection	Only preliminary survey conducted during SHGs meetings	25%	Will be conducted during III quarter
4.	Identification of suitable biochemical and/ or molecular markers for differentiation among the germplasm through literature search	Suitable biochemical and/ or molecular markers were searched in literature and list was prepared.	50%	Will be continued as per requirement

Summary of progress

The project entitled “Collection, evaluation and conservation of native crops germplasm from Uttarakhand hills and pre-breeding through community participation” was sanctioned by GBPIHED under NMHS, was implemented in the University from June 17, 2016 with the objective to explore and preserve the genetic wealth of Uttarakhand with respect to millets, pulses, vegetables and spices. During the first quarter of the project appointment of suitable JRF and Project staff was done. One JRF (full time) and a contractual worker (FA) at PCPGR, Pantnagar and one coordinator and one motivator at HGVS, Gangolihat had been appointed. With the help of partner NGO (HGVS, Gangolihat), meetings with SHGs were conducted in two villages and awareness lectures on importance of in-situ germplasm conservation were delivered. Project objectives were explained to villager of the village Bhurtig and Mandalkiya in Munishyari block of Pithoragarh district. Regular survey and exploration were planned to be conducted from third quarter, however on the way survey of diversity of cultivated crops was done and potential areas were identified. More exploration of plant germplasm in hilly district of Uttarakhand with local participation and collection of native germplasm from hills will be conducted. Simultaneously, literature were searched for crop descriptors, various molecular and biochemical markers were identified in cereals, pulses, millets and vegetable pertaining to native crops of Uttarakhand hills.

Name of the PI: Dr. Anand Singh Jeena, Professor & Nodal Officer

Signature :

Date:02/11/2016

Supporting data files/ maps/ tables/ figures of the results to be attached



SHGs Meeting and evaluation local Finger millet germplasm with Local at Village: Bhurtig



SHGs Meeting at village: Mandalkiya