

Department of Geography Kumaun University Nainital











Eesti Maaülikool









Department of Geography Kumaun University, Nainital, Uttarakhand, India

EQUIPMENT UTILIZATION AND SHARING PLAN

A. Lab Equipment: Computers Procured under SUNRAISE Project

S.	Programmes	Courses	Utilization Plan
No.	MIA MICO	Course Common and a	
1	M.A./M. Sc	Course Components: (i) Natural Resource Management; (ii) Integrated Watershed Management; (iii) Integrated Mountain Development with Special Reference to the Indian Himalaya; and (iv) Climate Change, Impacts and Adaptation in Himalaya	The Computers and Printer will be installed in RS-GIS Laboratory of the Department of Geography, Kumaun University, Nainital under the administrative control and responsibility of the Department of Geography. Laptop will be used during the field work by the students
		Computer Application Requirements:	The machines will be accessible for use to
		(i) Remote Sensing and GIS Applications; (ii) Three dimensional terrain modelling; (iii)	M.A./M.Sc. and Ph.D. Students of Geography and other subjects.
		Hydrological modelling of watersheds; (iv) Flood early warning system; (v) Development of local level climate scenarios; (v) Analysis of rainfall pattern; (vi) Landslides modelling	In order to ensure the wider utilization of the facility a roster of use by different categories of students will be developed and implemented in consultation with all
2	Ph.D. Course Work	Course Components: (i) Introduction of Aerial Photographs, Satellite Data; (ii) Global Positioning System (GPS); (iii) Geographical Data and Geographic	concerned Departments of the University under the supervision of the Department of Geography.
		Information Science Computer Application Requirements:	The Department of Geography will depute one of its faculty members as overall in- charge of Computer Facility who will always ensure the wider utilization of the
		(i) Interpretation of Satellite Data and Computer Aided Mapping; and (ii) Application of Geographical Information System (GIS);	facility during as well as beyond the life of the project.
		Global Positioning System (GPS); Data Integration and Modelling. The similar components are included in the Ph.D. Course Work of other disciplines, such as botany, forestry and Geology	Besides, the normal utilization of the computer facility by the M.A./M.Sc. and Ph.D. Students of the University; we also propose the utilization of high configurations machines for the capacity
	Ph.D. Research	More than 75% Ph.D. Students in Geography and other allied disciplines propose the applications of Computer, Remote Sensing, GIS and GPS in their research	building of local level government agencies in the application RS, GPS and GIS in mountain specific development planning level planning.
3	Training	The Department of Geography organizes	In view of this, RS, GPS and GIS
	Programmes for Local	Capacity Building Training Programmes for local level government departments in the	application Training Programmes and
	Government	development of Natural Resources Database	Workshops will be organized, particularly during summer and winter vacations in the
	Officials	Management System (NRDMS), Disaster Management; and Climate Change Impact Assessment from time to time. The Training	University when the computer laboratory will not used by the students.
		Modules include the use and demonstration of GIS, RS and GPS.	The maintenance of all the computers
			procured under the project will be responsibility of the Department of Geography and University.



Department of Geography Kumaun University





SALZBURG







• In order to build the capacity of rural communities, particularly for improving women [who are the primary resource developers in the Himalayan mountains] direct access to climate information we have installed low cost automated and manual weather equipment in the Ramgad Watershed located in the Middle Himalayan Ranges of District, Nainital, Uttarakhand.

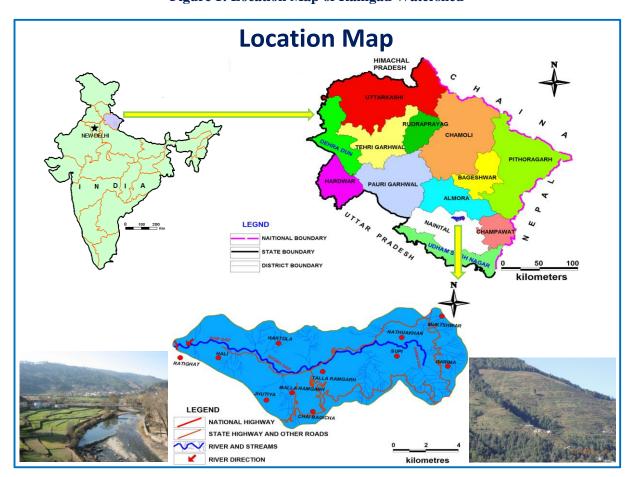


Figure 1: Location Map of Ramgad Watershed

- The automated weather station are located at two villages, and manual equipment have been installed in 7 villages of the Ramgad Watershed. The women have been trained in the collection and analysis of weather information.
- The information is collected after every 24 hours, the climatic trends of month, agricultural season and of the year are presented and discussed in the village meeting every month.
- The students and faculty of the network member institutions of the project are most welcome to visit the weather equipment sites, interact with the community and observe the monitoring process.



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Figure 2: Location of the Community Based Weather Stations in Ramgad Watershed

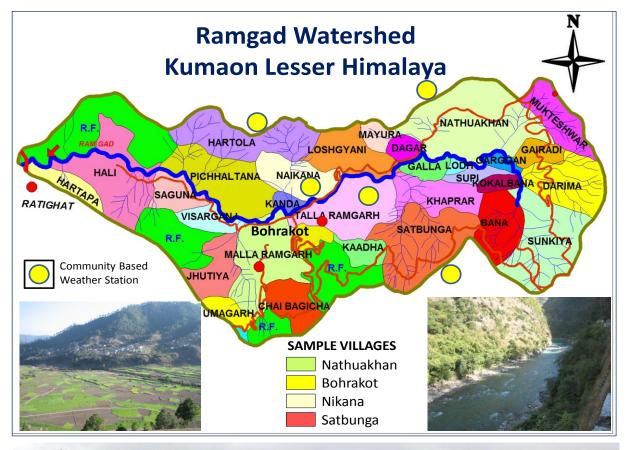




Figure 3: Low Cost Community Managed Weather Equipment



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Figure 4: Community Managed Automated Weather Station