



Perception Based Climate Change Impacts on Forest Vegetation, Farming System and People Health in Uttarakhand Himalaya

Zoya Shah, Dhani Arya* and K. Chandra Sekar¹

Department of Botany, Soban Singh Jeena University, Almora-263 601, India

*¹Centre for Biodiversity Conservation and Management, G.B. Pant National Institute of Himalayan Environment
Kosi-Katarmal, Almora-263 643, India*

**E-mail: dhaniarya@gmail.com*

Abstract: The manuscript presents people's perception overview of climate change impacts on forest, farming systems, and human health in Mukteshwar and Joshimath regions of Uttarakhand Himalaya, India. People's perception indicating that climate change has serious, environmental, economic, and social impacts in the study region and pressed impacts on reduced precipitation as well as unseasonal heavy rainfall, longer drought period, which affects regeneration and phenology of forest species, invasion of alien invasive plant species in both forest and agricultural fields, production of fruits, vegetables, and cereal crops. Cultivation of cereal crops has also been affected by different insect pests and pathogens. Reducing adaptation against the climate change impact, the hill people of the study area are starting a mixed cropping system to enhance agricultural production. Climate change coupled with improper management of local resources and the farming systems will induce migration. Proper adaptation and mechanisms to addressing the climate change impacts are needed.

Keywords: Climate change, People's perception, Livelihood, Human health, Socio-economic status
