

**DST HAS SANCTIONED A RESEARCH PROJECT TO DR. SUNIL DHAR, ASSOCIATE PROFESSOR, DEPARTMENT OF ENVIRONMENTAL SCIENCES, CENTRAL UNIVERSITY OF JAMMU**

**The title of the project is “*Glacio-hydrometeorology and paleo-history of Brahma Group of Glaciers, Chenab basin, Jammu and Kashmir*”**

**Total budget sanctioned for the project is 61.5 lac.**



**The glaciers of the Chenab basin of Jammu region will be studied for the first time and following are main objectives of the research project.**

- To generate spatial data base of glacier extent including loss of area using high resolution satellite data of ablation period of 2000-2018 time frame and monitor the changes in glaciers in Chenab basin of Jammu province in Western Himalayan region.
- To calculate the glacier ice volume and its water equivalent present in the Bramha group of glaciers of Chenab basin. Two to three benchmark glaciers will be taken in this work.
- Estimating total annual loss in the glacier ice volume of some benchmark glaciers and establish correlation if any with the meteorological observation.
- Hydro -chemical characterisation of glacier melt water draining from the glaciated area of Bramha group glacier will be carried out to decipher the concentration of cations which could be attributed to increasing weathering rates due to temperature increase.
- To understand and decipher the role Glacio-Geomorphological parameters on the changing dimensions of the glaciers and study the Palaeo-extent and recessional history of the Brahma group of glaciers through detailed field investigation of some benchmark glaciers of Chenab basin.