

**Ministry of Earth Sciences (MoES)
Government of India**

Call for Proposals in Hydrology and Cryosphere in the Indian Himalayan Region

Scope of the Call:

The Indian Himalayan Region (IHR) faces challenges in capturing the complexity of its glacier and hydrological regimes due to the under-representation of benchmark glaciers and sparse validation data for large-scale remote sensing and model-based studies. An integrated approach—combining observational, modelling, and remote sensing techniques—is crucial to comprehensively understanding glacier dynamics, and the glacier hydrological contributions downstream.

Simultaneously, addressing hydrology in gauged and ungauged basins—whether rain-fed or snow-fed—is vital for sustainable water management. These basins, integral to agriculture, ecosystems, and livelihoods, are highly sensitive to climate variability.

The MoES, under the PAMC Hydrology and Cryosphere under the REACHOUT scheme, invites proposals for integrated research to generate critical databases and insights, enhancing water security, mitigating climate-induced risks, and promoting sustainable development in glacier-fed and rain-dependent regions. Investigators belonging to Universities, Research/Academic institutions may submit proposals under any **ONE** of the following two themes:

- I. ***Cryosphere: Integrated study including remote observations, modelling and field-based investigation of glaciers and glacierized basins encompassing seasonal snow contributions in micro-watershed or micro-basin level.***
- II. ***Hydrology: Basin-scale water sustainability studies under the impact of changing climate in India: rain and snow-fed; gauged and ungauged basins.***

Evaluation of proposals:

The project evaluation shall be a three-step process. First, the proposals received under this call shall be initially screened by the PAMC members to determine the relevance and novelty of the project proposal. At the next level, the screened-in proposals shall be evaluated for the technical soundness of the proposed work by the external reviewers. Subsequently, based on the comments of the external experts, the PIs of selected projects shall be invited to present the proposal before the PAMC. The final decision to fund the project will be taken based on the recommendations of the PAMC.

Note: The project outcomes/applications/databases developed by the supported proposal will be transferred to the MoES for real-time use/applications before the closure of the project.

Guidelines and deadline:

1. The proposal **format** can be downloaded from <https://www.moes.gov.in/documents/downloads>
2. The proposals need to be submitted **online** to pamc.hydrocryo@gmail.com
3. The project duration can vary from **3 to 5** years proportionate to the project deliverables
4. The last date for receiving the proposal is **45 days** from the online publishing date
5. For any further queries, please contact:
Dr Aparna Shukla, Scientist E (Email ID: aparna.shukla@gov.in, Phone: 011-24669541)