

**Ministry of Earth Sciences
Government of India**

Call for Proposals - Thunderstorm and Meso-scale Processes Prediction (THUMP)

Research Proposals are invited on Thunderstorm and Meso-scale Processes Prediction from Universities, Research/Academic institutions in the country for funding for focused research in these specific areas under the Project Appraisal and Monitoring Committee-Atmospheric Sciences (PAMC-AS) of MoES.

1. Observational Studies using conventional and Radar & Satellite data:

- a. Climatology, Diurnal Variation, Genesis, intensification and Propagation
- b. Synoptic Systems for large scale thunderstorm/lightning activities
- c. Observational studies on physical processes

2. Prediction Aspects:

- a) Prediction using mesoscale models – Dynamical Core, Physical Parametrization processes including land surface processes and data assimilation and initiation methods, Model Diagnostics and sensitivity studies
- b) Statistical methods/Expert Systems/AI Techniques for development of prediction/nowcast tools

It is preferable that the model development activities be carried out using the WRF model or the regional version of the Unified Model.

The research proposals with the details of investigators and budget may be submitted to the Ministry of Earth Sciences for further consideration. More details of the format of the proposal are given at <http://www.moes.gov.in/content/project-management-system>. The last date of receiving complete project proposals is **31 August 2018**. For more details, please contact Dr R.S. Maheskumar (Email : mahesh.rs@gov.in) or Mrs Shyla Minhas (E mail : shyla.minhas@nic.in).