

Abstract of the project

Project Title:

Establishment of School of Earth System Sciences and Man Power Development at the University of Hyderabad

Principal Coordinator/PI:

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In the 21st century, the greater challenges lie in management of water resources, climate change and environment, and the development of secure and ever expanding knowledge structures in the closely linked subjects of ocean, atmosphere, water, environment and natural hazards are important for achieving global sustainability. The rapid assimilation of new technologies in the field of Earth Sciences has allowed the generation of large volumes of multi-scale data, enabling better and more rigorous analysis of problems in the fields of ocean and atmospheric sciences. It must be noted that critical thinking in modern Earth Sciences is increasingly being rooted in an inter- multi- and trans-disciplinary context.

Against this background, the Ministry of Earth Sciences, Government of India, has sanctioned a financial grant for the establishment of School of Earth System Sciences with a vision to generate skilled manpower and promote research in ocean and atmospheric sciences. The project with financial outlay of Rs. 1.70 crores envisages to create infrastructural facilities for the establishment of Earth System Sciences programs, particularly ocean and atmospheric sciences in the first phase of the programme; to train and develop the technical manpower in the fields of weather prediction, climate change and water resources; to meet the crucial challenges in earth-related issues such as climate change, water resources and natural hazards, in the 21st century; and to promote interaction between earth scientists, environmentalists and social scientists for sustainable management of climate change and environment.

The grant will be utilized for infrastructural facilities for teaching M. Sc programme in ocean and atmospheric sciences and to carry out research in the fields of coastal oceanography and paleoclimate studies.