

# Advanced Computing Research Laboratory



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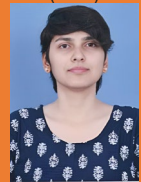
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**Name of the Funding Agency**  
Department of Science and Technology

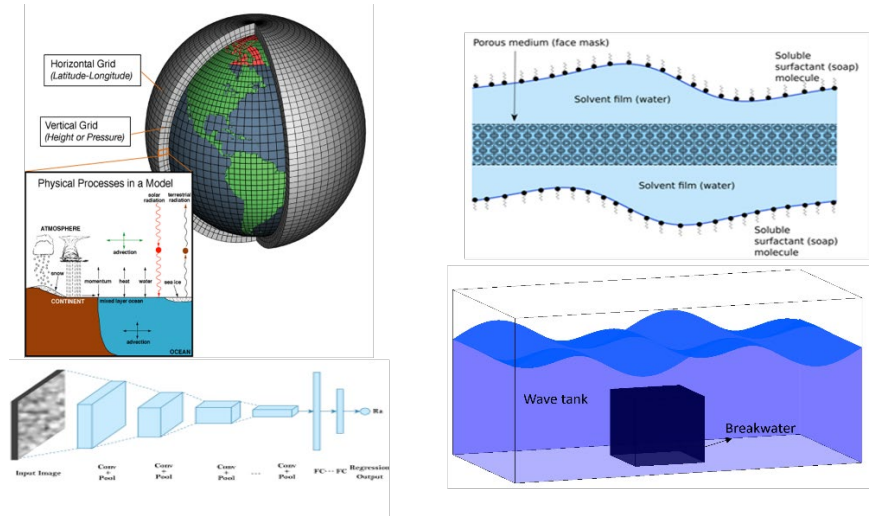
**Name of the Scheme**  
Fund for Infrastructure Development

**Sanctioned Amount (in Rupees)**  
Rs. 2,71,00,000

**Duration of the Project (years)**

5

## Graphical Abstract



## Project Description

The project aims to support high-quality research, enabling scholars and students to complete computational work, projects, and publications while advancing knowledge. Key outcomes include developing climate models, neural networks, reusable face masks, and stochastic systems, with broad societal and academic benefits. The **Advanced Computing Research Lab** is a hub for cutting-edge research in computational science, leveraging High-Performance Computing (HPC) to address complex, data-intensive challenges. Equipped with state-of-the-art supercomputing infrastructure, it supports large-scale simulations, modeling, and interdisciplinary collaborations in fields like AI, climate science, and genomics. The lab fosters innovation by enabling researchers and students to develop advanced algorithms and optimize software for parallel computing. It is dedicated to driving breakthroughs and advancing education in HPC-driven technologies.

## Products/ Instruments (Pictures)

