

Ministry of Earth Sciences (MoES)

When you look at the clouds, feel the ocean breeze, or watch the rain fall, you are witnessing the work of nature that scientists study every day at the Ministry of Earth Sciences (MoES). This remarkable ministry helps India understand and predict the secrets of our planet, from the depths of the ocean to the heights of the atmosphere.

Understanding the Earth

The Ministry of Earth Sciences (MoES) was established in 2006 to bring together all Earth-related research under one roof. It studies weather, climate, oceans, geophysics, and the atmosphere, helping India prepare for natural events like cyclones, earthquakes, and monsoons. Its scientists combine the power of observation, data, and technology to understand how the Earth works and how we can live more safely with it.

From the Ocean Floor to the Clouds

One of the key organizations under MoES is the India Meteorological Department (IMD), the team behind our weather forecasts. Whether it's predicting rainfall, issuing cyclone warnings, or monitoring heatwaves, IMD's work helps farmers, fishermen, and people across the country stay safe and informed.

Under the sea, the National Institute of Ocean Technology (NIOT) and the National Centre for Polar and Ocean Research (NCPOR) explore India's vast marine and polar regions. Scientists at these institutions study tides, marine life, and undersea minerals. They even develop robots and underwater vehicles to explore the deep sea, an exciting area called deep ocean exploration.

Meanwhile, the Indian National Centre for Ocean Information Services (INCOIS) in Hyderabad provides critical information for fishermen and coastal communities, helping them navigate safely and understand changing sea conditions.

Protecting People and the Planet

MoES scientists play a crucial role in disaster warning systems. They predict cyclones before they strike, study earthquakes to improve safety, and monitor climate change to plan for the future.

The ministry is also leading the Deep Ocean Mission, a groundbreaking initiative that aims to explore deep-sea resources and understand marine biodiversity, a true frontier of science.

The Science of Our Home

The MoES reminds us that science isn't just about stars and atoms, it's also about our home planet. By studying the oceans, the atmosphere, and the land beneath our feet, India's Earth scientists are helping protect our planet and prepare us for the future.

