

### **Production of Clean Energy from Fossil Fuels Using Gas Hydrate System**

The Ministry of Earth Sciences, Government of India is working in the field of enhancing the production of ***non-hazardous fossil fuels to fulfil the growing need of clean energy associated with the problem of uncertain supply of fuel energy needed in the populated developing countries*** considering the geopolitical scenario for a greater demand for clean energy.

The Government of India is launching a comprehensive ***research-oriented gas hydrates program to develop non-hazardous fossil fuel supply system***. National Centre for Antarctic and Ocean Research (NCAOR) and The National Institute of Ocean Technology (NIOT), Chennai jointly have been responsible for the implementation of the scientific aspects and technological aspects related to this ***Gas Hydrate Exploration***.

The main objective of the program is to understand the nature of distribution of gas hydrates in marine sediments, developing techniques for detection and quantification of gas hydrates, monitoring environmental perturbation during harvesting of gas hydrates, developing ***hazardless and cost-effective transportation of gas from gas hydrates and understanding mechanism for the production hydrated gas***.

This would help developing hazardless and cost-effective fossil fuels from the gas hydrates system. It is expected that India would emerge as one of the leading countries in the world to supply clean energy compliant fuels extracted from fossil fuel gas hydrate reserves.

Dr. Faiyaz Anwar  
Project Scientist, Vigyan Prasar