

## **Gas Hydrate**

World over gas hydrate is at R&D stage. The presence of gas hydrate was established in the year 2006 in Krishna Godavari, Mahanadi and Andaman deep waters in numerous complex geologic settings. In accordance with the roadmap for the National Gas Hydrate Programme (NGHP), India has already acquired core samples with the help of drill ship "JOIDES Resolution", USA. The cooperation between the Directorate General of Hydrocarbons (DGHI and U.S. Geological Survey(USGS), USA on exchange of scientific knowledge and technical personnel in the field of Gas Hydrate and research with the view to exploit the potential of Gas Hydrate as an alternate source of energy is in progress.

Based on the findings of NGHP Expedition-01, the Krishna Godavari deepwater basin and the Mahanadi deep waters have been considered potential areas for Gas Hydrate. Geo-scientific studies have been carried out in Krishna Godavari and Mahanadi offshore deepwater out to identify potential sand channel systems. Based on critical review of over 79 potential sites, the NGHP scientists along with international scientists have prioritized 20 sites for drilling and coring during NGHP Expedition-02. Depending on the results NGHP Expedition-02, the NGHP geoscientists plan to identify a suitable site for carrying out pilot production testing during NGHP Expedition-03. The NGHP Expedition-02 is currently under the planning stage. The major challenge for gas hydrate is - how to produce gas from gas hydrate.