

## **INDIGENOUS TECHNOLOGY DEVELOPMENT FOR OFFSHORE PLACER MINING**

### Brief write up

This project is under the CSIR network project on '**Capacity Building for Coastal Placer Mining**'.

India has large reserves of beach sand minerals, such as ilmenite, rutile, leucoxene, zircon, monazite, sillimanite and garnet which are mostly located in the coastal stretches of peninsular India. But suitable marine mining technology is not available in India. In this project CMERI will design and develop a pilot mining system for mining placer deposits at the rate of 50 tons per hour from shallow sea of depth approximately 10 metres.. Different systems that will be tried are: I) Mining system using dredging pump and II) Mining system using hydraulic jet pump where a series of high pressure water jets will be used to loosen the sand on the seabed