

Vigyan Samachar: MoES News

06/02/2020

Ministry of Earth Science signed MoU with DNV GL for Development of human scientific submarine Matsya 6000

National Institute of Ocean Technology (NIOT) under the Ministry of Earth Sciences (MoES), Government of India signed a memorandum of understanding (MoU) with Det Norske Veritas & Germanischer Lloyd (DNV GL) for the certification and classification of manned submersibles rated for a water depth of 6000 m.



NIOT is involved in deep-sea exploration for nonmetallic resources such as polymetallic manganese nodules, methane hydrates, hydrothermal sulfides and cobalt crusts. These resources are spread over 1000-m to 5500-m water depth in the Indian Ocean.

Observation of deep sea-bed activity with the help of direct observation instruments in Indian Ocean basins such as the Central Indian Ocean Basin, Bay of Bengal and the Arabian Sea has been the dream of Indian scientists for many decades.

NIOT is proceeding to develop manned submersible for 6000 m. In-house designing is in progress using titanium alloys, acrylic visual ports, life support systems, power budgets, propulsion systems and more. This is going to be a major step towards

developing 6000-m-depth-rated human scientific submarine 'Matsya 6000' for India's manned submersible programme.

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