



Samudrayaan Mission

Why in News

Recently, the [Ministry of Earth Sciences \(MoES\)](#) has launched India's first manned ocean mission "Samudrayaan" in Chennai.

- With this Unique Ocean Mission, India joined **the elite club of nations** such as **the US, Russia, France, Japan, and China** to have niche technology and vehicles to carry out subsea activities.

Key Points

▪ About:

- It is India's **first unique manned ocean mission** that aims to send men into the deep sea in a submersible vehicle for [deep-ocean exploration](#) and [mining of rare minerals](#).
- It will send three persons in a manned submersible vehicle **MATSYA 6000** to a depth of 6000 metres into the sea for deep underwater studies.
 - [Submarines](#) go only about 200 metres.
- It is a part of the Rs 6000-crores [Deep Ocean Mission](#).

Deep Ocean Mission

- It was **approved in June 2021 by the (MoES)**. It aims to explore the deep ocean for resources, develop deep-sea technologies for sustainable use of ocean resources, and support the [Blue Economy Initiatives](#) of the Indian Government.
- The cost of the Mission has been estimated at Rs. 4,077 crore over a **five-year period and will be implemented in phases**.
- **MATSYA 6000:**
 - It is an indigenously developed manned submersible vehicle.
 - It will facilitate the **MoES** in conducting **deep ocean exploration of resources** such as gas hydrates, [polymetallic manganese nodules](#), hydro-thermal sulfides, and cobalt crusts which are located at an approximate **depth between 1000 and 5500 metres**.
 - **Polymetallic nodules**, also called manganese nodules, are mineral concretions on the sea bottom formed of concentric layers of iron and manganese hydroxides around a core.
- **Significance:**
 - This will open up more growth avenues to explore ocean resources for [clean energy](#), drinking water, and blue economy.
 - Developed countries have already carried out similar ocean missions. India is the **1st country among the developing nations** to carry out a **deep ocean mission**.
- **Other Related Initiatives:**
 - [India-Norway Task Force on Blue Economy for Sustainable Development](#).
 - [Sagarmala Project](#).
 - [O-SMART](#).

- [Integrated Coastal Zone Management.](#)
- **National Fisheries Policy.**

[Source: PIB](#)

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