



Samudrayaan Mission

Why in News?

According to the Ministry of Earth Science, the **Samudrayaan Mission is expected to be realised by year 2026.**

What is Samudrayaan Mission?

▪ About:

- The mission is aimed at **sending three personnel to 6000-metre depth in a vehicle called 'MATSYA 6000'** for the exploration of deep-sea resources like minerals.
 - 'MATSYA 6000' vehicle is being **designed and developed by National Institute of Ocean Technology (NIOT)**, Chennai under **Ministry of Earth Sciences**.
 - It has an endurance of 12 hours under normal operation and 96 hours in case of emergency for human safety.
- It is **India's first unique manned ocean mission** and is a part of the Rs 6000-crores [Deep Ocean Mission](#).

▪ Significance:

- The manned submersible will **allow scientific personnel to observe and understand unexplored deep-sea areas** by direct intervention.
- It will also **boost the Central government's vision of 'New India'** that **highlights the Blue Economy** as one of the ten core dimensions of growth.
 - India has a **unique maritime position, a 7517 km long coastline**, which is home to nine coastal states and 1,382 islands.
 - For India, **with its three sides surrounded by the oceans and around 30% of the nation's population living in coastal areas** and coastal regions play a major economic factor.
 - It supports **fisheries and aquaculture, tourism, livelihoods, and blue trade**.

What is the Deep Ocean Mission?

- It was approved in June 2021 by the Ministry of Earth Sciences. 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 crores over **a five-year period** and will be implemented in phases.

What are the Other Related Initiatives?

- [India-Norway Task Force on Blue Economy for Sustainable Development](#): It was inaugurated jointly by both the countries in 2020 to develop and follow up joint initiatives between the two countries.
- **Sagarmala Project**: The [Sagarmala project](#) is the strategic initiative for port-led development through the extensive use of IT enabled services for modernization of ports.

- **O-SMART:** India has an umbrella scheme by the name of **O-SMART** which aims at regulated use of oceans, marine resources for sustainable development.
- **Integrated Coastal Zone Management:** It focuses on conservation of coastal and marine resources, and improving livelihood opportunities for coastal communities etc.
- **National Fisheries Policy:** India has a National Fisheries policy for promoting 'Blue Growth Initiative' which focuses on sustainable utilization of fisheries wealth from marine and other aquatic resources.

Source: PIB

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