



Deep Ocean Mission

For Prelims: Deep Ocean Mission (DOM), Blue Economy, Manned Submersible Vehicle, National Institute of Ocean Technology (NIOT), International Seabed Authority,

For Mains: Deep Ocean Mission (DOM), Government Policies & Interventions, Scientific Innovations & Discoveries, Blue Economy

Why in News?

Recently, the Ministry of Earth Sciences has launched the [Deep Ocean Mission \(DOM\)](#).

- DOM is a **mission mode project** to support the [Blue Economy Initiatives](#) of the Government of India.
- Earlier, the Ministry of Earth Sciences had also rolled out the draft [Blue Economy Policy](#).
- **Blue Economy** is the sustainable use of ocean resources for economic growth, improved livelihoods and jobs, and **ocean ecosystem health**.

- Studies and detailed engineering design for offshore **Ocean Thermal Energy Conversion (OTEC)** powered **desalination plants** are envisaged in this proof of concept proposal.
- OTEC is a technology that uses ocean temperature differences from the surface to depths lower than 1,000 metres, to extract energy.
- **Advanced Marine Station for Ocean Biology:**
 - It is aimed at the development of human capacity and enterprise in ocean biology and engineering.
 - It will translate research into industrial application and product development through on-site business incubator facilities.

What is the Significance of DOM?

- **Leveraging Ocean Resources:** Oceans, which cover **70% of the globe**, remain a key part of our life. About 95% of the **Deep Ocean remains unexplored**.
 - Three sides of India are surrounded by the oceans and around **30% of the country's population lives in coastal areas**, the ocean is a major economic factor supporting fisheries and aquaculture, tourism, livelihoods and blue trade.
 - Considering the importance of the oceans on sustainability, the UN has declared the decade, 2021-2030 as the **Decade of Ocean Science for Sustainable Development**.
- **Long Coastline:** India has a unique maritime position. Its **7517 km long coastline** is home to nine coastal states and 1382 islands.
 - The Government of India's Vision of New India by 2030 announced in February 2019 highlighted the **Blue Economy as one of the ten core dimensions of growth**.
- **Technology Expertise:** The technology and expertise needed in such missions are now available in only five countries - the US, Russia, France, Japan and China.
 - **India will now be the sixth country to have it.**

What are other Blue Economy 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 the 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 the conservation of coastal and marine resources, improving livelihood opportunities for coastal communities etc.
- **National Fisheries Policy:**
 - India has a **National Fisheries policy** for promoting the '**Blue Growth Initiative**' which focuses on sustainable utilisation of fisheries wealth from marine and other aquatic resources.

PYQ

If National Water Mission is properly and completely implemented, how will it impact the country? (2012)

1. Part of the water needs of urban areas will be met through recycling of waste-water.
2. The water requirements of coastal cities with inadequate alternative sources of water will be met by adopting appropriate technologies that allow for the use of ocean water.
3. All the rivers of Himalayan origin will be linked to the rivers of peninsular India.
4. The expenses incurred by farmers for digging bore-wells and for installing motors and pumpsets to draw ground-water will be completely reimbursed by the Government.

Select the correct answer using the codes given below:

- (a) 1 only
- (b) 1 and 2 only
- (c) 3 and 4 only
- (d) 1, 2, 3 and 4

Ans: (b)

Source: PIB

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