

GOVERNMENT OF INDIA  
MINISTRY OF PORTS, SHIPPING AND WATERWAYS

**LOK SABHA**  
**UNSTARRED QUESTION NO. 3319**  
ANSWERED ON 08.08.2025

**GREEN HYDROGEN POWERED SHIPS**

3319. SHRI KESINENI SIVANATH:

Will the Minister of PORTS, SHIPPING AND WATERWAYS be pleased to state:

**पत्तन, पोत परिवहन और जलमार्ग मंत्री**

- (a) the total number of vessels, including ferries and inland/coastal ships, that are currently powered by green hydrogen fuel cells along with the number of these built and designed indigenously;
- (b) the total funds allocated, disbursed and utilized by the Government during the last three years for investment in the development, testing and deployment of hydrogen-powered ships;
- (c) whether the Government has approved or plans to launch additional pilot projects for other hydrogen-fuelled vessels of different sizes and types, if so, the timeline and locations for the same;
- (d) the details regarding steps taken by the Government to develop supporting infrastructure like hydrogen bunkering, refuelling facilities at major ports along with the details of the funds allocated therefor; and
- (e) whether the Government has formulated any roadmap to integrate green hydrogen vessels into the National Green Hydrogen Mission, if so, the details thereof?

**ANSWER**

MINISTER OF PORTS, SHIPPING AND WATERWAYS  
(SHRI SARBANANDA SONOWAL)

(a) to (e) Cochin Shipyard Limited and Mazagon Dock Shipbuilders Limited has built 1 vessel each powered by Hydrogen Fuel cell. The scheme guidelines for implementation of Pilot projects for use of Green Hydrogen in the Shipping Sector under the National Green Hydrogen Mission (NGM), have been issued in February 2024 with an outlay of Rs.115 crore till 2025–26. Thrust areas under the scheme for providing support for

development/ selection/ validation of commercially viable technologies, for the utilization of hydrogen in shipping sector, are as follows:

- i) Component A: Retrofitting of existing ships to run on Green Hydrogen or its derivatives. Scheme Implementing Agency (SIA) for this scheme is Shipping Corporation of India (SCI).
- ii) Component B: Development of bunkering and refueling facilities on ports for Green Hydrogen based fuels. Scheme Implementing Agency (SIA) for this scheme is V.O. Chidambaranar Port Authority (VOCPA) (Tuticorin Port).

During the foundation phase (2024–2025), Deendayal Port Authority (DPA), V.O. Chidambaranar Port Authority (VOCPA), and Paradip Port Authority (PPA) have been identified as hydrogen hubs. The Green Hydrogen Hub Development Roadmap outlines a phased strategy to establish these major ports as key centers for green hydrogen production and export. VOCPA has prepared a Detailed Project Report for a pilot project involving the development of a bunkering and refueling facility with a 750 cubic metre green methanol capacity.

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