

GOVERNMENT OF INDIA  
MINISTRY OF PORTS, SHIPPING AND WATERWAYS  
LOK SABHA  
STARRED QUESTION NO. \*44  
ANSWERED ON 09/12/ 2022

**NATIONAL CENTRE OF EXCELLENCE FOR GREEN PORT & SHIPPING**

\*44. SHRI GIRISH BHALCHANDRA BAPAT:  
SHRI RAHUL RAMESH SHEWALE:

Will the Minister of PORTS, SHIPPING AND WATERWAYS be pleased to state:  
पत्तन, पोत परिवहन और जलमार्ग मंत्री

- (a) whether the country's first National Centre of Excellence for Green Port & Shipping (NCoEGPS) a major initiative for providing greener solutions has been set up in the country, if so, the details thereof along with the salient features;
- (b) whether NCoEGPS will provide support on policy, research and cooperation on Green Shipping areas for Ports, DG Shipping, CSL and other institutions and if so, the details thereof;
- (c) whether the ports also aim at reducing Carbon emissions per ton of cargo handled by them;
- (d) if so, the details of the existing Carbon emissions per ton and also the reduction targets fixed by various ports; and
- (e) whether the Centre proposes to provide technological arms to support the port and shipping sector and also provide solutions to various problems being faced by industry through scientific research and if so, the details thereof?

**ANSWER**

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

(a) to (e). A Statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF THE LOK SABHA STARRED QUESTION NO. \*44 ANSWERED ON THE 9<sup>TH</sup> DECEMBER, 2022 RAISED BY SHRI GIRISH BHALCHANDRA BAPAT AND SHRI RAHUL RAMESH SHEWALE REGARDING "NATIONAL CENTRE OF EXCELLENCE FOR GREEN PORT & SHIPPING"

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(a) Yes, Sir.

The Memorandum of Agreement was signed on November 18, 2022 between Ministry of Ports, Shipping and Waterways (MoPSW) along with Deendayal Port Authority, Kandla; Paradip Port Authority, Paradip; V.O. Chidambaranar Port Authority, Thoothukudi; Cochin Shipyard Limited, Kochi & The Energy & Resource Institute (TERI).

The details and the salient features of NCoEGPS are as follows:

- NCoEGPS will provide policy and regulatory support for developing regulatory framework and alternate technology adoption road map for Green Shipping to foster carbon neutrality and circular economy (CE) in the shipping sector in India.
- The NCoEGPS will be housed at and led by 'The Energy and Resources Institute' (TERI) as a knowledge and implementation partner.

(b) Yes Sir.

The Centre would aim to identify the technologies, alternative fuels, renewable energy sources and targets for the shipping and port sector to reduce GHG emissions in line with the Govt. of India commitment for the sector. The legal framework developed by the centre will support research and cooperation on green shipping and will aid to formulate policy that will best suit the industry. The Center will work with all ports, shipping companies, and maritime states to understand their problems and offer solutions based on research.

The broad focus areas of NCoEGPS are as follows:

- i. Policy, Regulatory and Research
- ii. Human Resource development
- iii. Network- Key Partners and Strategic collaborators
- iv. Explore- Area of work, outcomes, projects and resources
- v. Engage- Past events, upcoming events, dissemination

(c) & (d) Yes, Sir.

Our Ministry is taking a number of initiatives to contribute towards fulfillment of national commitments towards achieving sustainable development goals. Maritime India Vision – 2030 aims to reduce Carbon dioxide emission by 30% by the year 2030. Major steps taken by the Ports to achieve the set targets include transition to Renewable energy in a big way. As on date, the installed capacity of Solar Power in the Major Ports of the country, has gone up to around 118 MW. Similarly, on shore Wind Mills have been installed to generate 20.7 MW of power. Further, to cut down Carbon emission from the Ships during idling while at Berth, the facility for Shore-to-Ship powering is being installed at a number of Major Ports. Major Ports have also taken initiative to deploy electrically powered cranes and to convert the existing cranes also to electrical powered equipments. Hybrid tugs and hydrogen fuel cell powered port crafts are also being developed to reduce carbon emissions. Similarly, the Ministry has initiated a number of actions to increase transportation of Cargo and Passengers through Inland Waterways and promoting modal shift from road and rail to Sea. A number of incentives are being provided to promote coastal shipping.

The performance of Major ports have been consistently improving. Average output per Ship berth-day during FY 2022-23 has increased by **32%** as compared to FY 2013-14. Similarly, the average Turn Around Time of Container Vessels has improved by **35%** and has come down to only 26.5 hours in FY 2021-22 as compared to FY 2013-14. These improvements in operational efficiency have helped Major ports in reducing carbon emissions by improving visibility of supply chain as also reducing idling time of vessels and vehicles operating in the Port area.

(e) The Centre will host several technological arms to support the port and shipping sector and will provide solutions to the industry through scientific research. The Centre will interact with all the ports, shipping, maritime states to offer solutions through well proven and upstream scientific approaches. It will also carry out valuable education, applied research and technology transfer in maritime transportation at the local, regional, national and International levels. It will focus on the following areas.

- i. Energy Management - Energy management tools, waste energy recovery systems
- ii. Emission Management- Alternate, clean Energy/Fuel, emission control & monitoring.
- iii. Sustainable Maritime Operations – novel technologies and approaches

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