

**GOVERNMENT OF INDIA  
MINISTRY OF EARTH SCIENCES  
LOK SABHA  
UNSTARRED QUESTION NO. 2900  
TO BE ANSWERED ON WEDNESDAY, 17<sup>TH</sup> DECEMBER, 2025**

**LAUNCH OF HIGH PERFORMANCE COMPUTING FACILITY**

2900. SHRI KRIPANATH MALLAH:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) the features of Tarang facility at Indian National Centre for Ocean Information Services; and
- (b) whether the facility will help ocean scientists to provide warning for tsunamis in India and neighbouring countries and if so, the details thereof?

**ANSWER**  
THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR  
MINISTRY OF SCIENCE AND TECHNOLOGY  
AND EARTH SCIENCES  
(DR. JITENDRA SINGH)

- (a) 'TARANG' is a 64-bit High Performance Computing (HPC) system, capable of supporting multi-tasking, multi-programming, multi-user and time-sharing environment, of a proven architecture with scalable processing elements, scalable high performance I/O, scalable interconnection network and a balanced design to have 99.5% uptime with adequate redundancies and to avoid single point of failure so as to meet the operational requirements. The HPC system is supported by technical support facilities such as transformers, diesel generators, UPS, batteries, multiple utility paths, lighting system, adequate number of earthing pits and cables.

The compute capacity is about 1 Peta FLOPS, with 2 Peta Byte storage and 3 Peta Byte archival storage. Additionally, there is a dedicated standalone system for Artificial Intelligence (AI) and Machine Learning (ML) applications with a capacity of 15.5 Peta FLOPS.

- (b) Yes sir. The HPC would help scientists to run advance operational models for providing Tsunami Early Warnings for India and other 25 countries on the Indian Ocean rim.

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