GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
STARRED QUESTION NO. 178
ANSWERED ON 09.12.2021

OCEAN ENERGY

***178.SHRI PINAKI MISRA**

Will the Minister of New & Renewable Energy be pleased to state:

a) the details of estimated potential of the country in ocean energy including tidal energy, wave energy, salinity and ocean temperature difference, coastal State-wise;
b) the quantum of funds allocated for R&D on each Ocean Energy including tidal energy, wave energy, salinity and ocean temperature difference during the last three years;
c) whether the Government had started any tidal energy projects and if so, the details thereof;
d) whether the Government has conducted any study on the potential of Odisha in ocean energy and if so, the details thereof;
e) if not, whether the Government proposes to conduct any similar study; and
f) whether the Government proposes to start any pilot project on ocean energy in the country and if so, the details thereof?

ANSWER

MINISTER OF POWER AND NEW & RENEWABLE ENERGY
(SHRI R.K. SINGH)

(a) to (f) A statement is laid on the Table of the House.

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STATEMENT

STATEMENT REFERRED TO IN REPLY TO LOK SABHA STARRED QUESTION NO. 178 FOR ANSWER ON 09.12.2021

(a) The Indian Institute of Technology, Chennai in association with Credit Rating Information Services of India Limited (CRISIL) conducted a study on "Tidal & Waves Energy in India: Survey on the Potential & Proposition of a Roadmap" in December 2014. As per this report, the state-wise estimated theoretical tidal and wave power potential are as follows:-

State	Tidal Power Potential (MW)	Wave Power Potential (MW)
Andhra Pradesh	100	6,900
Gujarat	10,425	4,100
Karnataka	100	6,100
Kerala	100	4,900
Maharashtra	200	8,100
Odisha	400	600
Tamil Nadu	230	10,600
West Bengal	900	--
Total	**12,455**	**41,300**

The study has not estimated the potential of Ocean Thermal Energy Conversion (OTEC).

(b) During the last three years, the quantum of funds allocated for research and development (R&D) in the area of new and renewable energy technologies is Rs. 107 crore. The R&D budget of the Ministry is a composite one without specific allocations for different technologies. Since no viable R&D project was received, no R&D funds have been spent on ocean energy R&D projects.

(c) MNRE had sanctioned a demonstration project for setting up of 3.75 MW capacity tidal power plant in Sunderbans region in West Bengal in 2007. However, the project was not taken up by the Govt. of West Bengal due to high capital cost of Rs. 238 crore. Similarly, the Govt. of Gujarat had proposed 50 MW tidal power project in 2011. This project was also not taken up by Govt. of Gujarat due to high capital cost of Rs. 750 crore.

(d)&(e) Reply is given in part (a) above.

(f) Globally, ocean energy is still at a nascent R&D stage. MNRE under its Research, Design, Development and Demonstration (RD&D) programme provides financial support to academic institutions, research and development organisations and industry for research and development in renewable energy projects, which can also possibly include projects for developing Ocean Energy technologies.

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