

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 3802
ANSWERED ON 05.04.2022

DEVELOPMENT OF TIDAL ENERGY

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

- (a) whether Government plans to dedicate any funds to the development of tidal energy from the Budget of the Ministry and if so, the details thereof;
- (b) whether Government has any plans to assess the practically exploitable potential of tidal, wave and ocean thermal power in the country;
- (c) if so, the details thereof, and if not, the reasons therefor;
- (d) whether Government has any plans to undertake a pilot tidal power project in any location in the country in general and in Andhra Pradesh in particular; and
- (e) if so, the details thereof, and if not, the reasons therefor?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a) There is no scheme under implementation for development of tidal energy. However research and demonstration projects in tidal energy can possibly be funded under the Research, Design, Development and Demonstration programme of the Ministry. The budget for this programme is a composite one without any specific dedication to different new and renewable energy technologies. During the last three years (2018-19, 2019-20, 2020-21), the quantum of funds allocated for research and development (R&D) in the area of new and renewable energy technologies including tidal energy is Rs. 107 crores.

(b) to (e) 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 potentials 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

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 crores. 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 techno-economic non-viability of the project.

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 tidal power.
