

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 1258
ANSWERED ON 27.07.2023

OFFSHORE WIND ENERGY PROJECTS

1258. SHRI MITESH RAMESHBHAI PATEL (BAKABHAI)
SHRIMATI SHARDABEN ANILBHAI PATEL

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether it is a fact that Gujarat and Tamil Nadu have been identified as States for setting up offshore wind energy in the country; and

(b) if so, the details of progress made thereunder and the quantum of funds that has been spent so far?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a)&(b) Based on the preliminary studies Government has identified potential off-shore wind zones off the coast of Gujarat and Tamil Nadu. It is estimated that, approximately 36 Giga Watt (GW) offshore wind power potential exists off the coast of Gujarat and 31 GW offshore wind power potential exists off the coast of Tamil Nadu.

The National Institute of Wind Energy (NIWE), Chennai had commissioned a LiDAR (Light Detection and Ranging) equipment in November, 2017 for measurement of wind resource off the coast of Gujarat. A report based on two years of collected data from the LiDAR has been published. Offshore wind energy site of an area of about 365 Sq. km required for a 1 GW capacity project has been demarcated around the LiDAR location. Required Geophysical study, Geotechnical study at 5 bore hole locations and Rapid Environment Impact Assessment study have been conducted for the propose of the 1 GW project. Geotechnical study at three bore hole locations and Rapid EIA study for installation and commissioning of a LiDAR off Tamil Nadu coast has been carried out. NIWE has incurred a total expenditure of Rs. 32.6 Cr towards carrying out the above offshore wind related activities.

MNRE issued a 'Strategy Paper for Establishment of Offshore Wind Energy Projects' indicating the various business models and sites proposed to be allocated to developers under these models. For sea bed leasing of initial 04 GW offshore wind capacity sites off Tamil Nadu coast, the draft tender document along with contractual agreements have been circulated for stakeholder comments.

Central Transmission Utility (CTU) has completed the planning for initial 10 GW offshore transmission capacity (05 GW each off Gujarat and Tamil Nadu coast). Govt. of Gujarat and Govt. of Tamil Nadu have agreed to purchase the power at Rs. 4.0 per unit from initial offshore wind projects off their respective coasts.
