

**GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
LOK SABHA
UNSTARRED QUESTION No. 797
TO BE ANSWERED ON WEDNESDAY, DECEMBER 20, 2017**

ELECTRICITY FROM OCEAN WATER

797. SHRIMATI KAMLA DEVI PAATLE:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether the National Institute of Ocean Technology is working towards generating electricity from ocean water;**
- (b) if so, the details thereof;**
- (c) whether any cost analysis has been conducted in this regard and if so, the details thereof;**
- (d) whether the Government proposes to start pilot projects for this purpose in the country; and**
- (e) if so, the details thereof and the progress made so far in this regard?**

ANSWER

**MINISTER OF STATE FOR MINISTRY OF SCIENCE AND TECHNOLOGY AND
MINISTRY OF EARTH SCIENCES
(SHRI. Y. S. CHOWDARY)**

- (a) Yes, Madam.**
- (b) National Institute of Ocean Technology (NIOT) has conducted experiments on harnessing energy from ocean and developed small units for wave and current energy for which open sea trails have been conducted. NIOT has also submitted a proposal for establishment of pilot experimental desalination plant at Kavaratti, Lakshadweep Islands powered by Ocean Thermal Energy Conversion (OTEC).**
- (c) No, Madam. It is too early to undertake cost analysis of ocean energy projects in India since they are still at demonstration and scaling up levels.**
- (d) Yes, Madam.**
- (e) The proposed capacity of the OTEC powered desalination plant is one lakh liter of potable drinking water per day. The bathymetric survey has been completed and site for location of the plant has been identified.**
