

**GOVERNMENT OF INDIA  
MINISTRY OF EARTH SCIENCES  
RAJYA SABHA  
UNSTARRED QUESTION No. 34  
TO BE ANSWERED ON MONDAY, JULY 17, 2017**

**CONVERSION OF SEA WATER INTO DRINKING WATER**

**34. SHRI A. VIJAYAKUMAR:**

**Will the Minister of EARTH SCIENCES be pleased to state:**

- (a) whether Government has any proposal to convert sea water into drinking water in the country;**
- (b) if so, the details of thereof;**
- (c) any other projects for non-conventional method of producing drinking water; and**
- (d) if so, the details thereof?**

**ANSWER**

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

- (a) Yes, Sir.**
- (b) The National Institute of Ocean Technology (NIOT), an autonomous body of the Ministry of Earth Sciences, has indigenously developed and demonstrated Low Temperature Thermal Desalination (LTTD) technology for conversion of sea water to drinking water. Three desalination plants each with a capacity of 1 lakh litre of potable water per day, based on LTTD technology have been successfully commissioned by NIOT one each at Kavaratti, Minicoy, and Agatti islands of the Union Territory of Lakshadweep. Recently, Ministry of Drinking Water and Sanitation has approved the proposal of Lakshadweep Administration for establishment of 6 LTTD plants each with capacity 1.5 lakh liters per day in the islands of Amini, Androth, Kadamat, Chetlat, Kalpeni and Kiltan of Lakshadweep.**
- (c) One experimental LTTD plant using condenser waste heat from power plant was set up at North Chennai Thermal Power Station (NCTPS).**
- (d) The experimental LTTD plant uses the surface seawater to condense the vapours generated from the thermal effluent to produce potable water as well as boiler quality water.**

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