

GOVERNMENT OF INDIA  
MINISTRY OF EARTH SCIENCES  
**RAJYA SABHA**  
**UNSTARRED QUESTION No. 499**  
ANSWERED ON 21/07/2022

**MEASURES TO PROMOTE DESALINISATION OF WATER IN STATES**

499. DR. KANIMOZHI NVN SOMU:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) the steps taken by Government to promote desalinisation of water in States as per the requirement;
- (b) the States which are likely to be benefitted from desalinisation of water;
- (c) the cost of setting up a desalinisation plant; and
- (d) whether Government has taken /proposes to take foreign assistance for setting up desalinisation plants and if so, the details thereof?

**ANSWER**  
**THE MINISTER OF STATE (INDEPENDENT CHARGE) OF**  
**MINISTRY OF SCIENCE AND TECHNOLOGY AND**  
**EARTH SCIENCES**  
**(DR. JITENDRA SINGH)**

- (a) Ministry of Earth Sciences (MoES) through its autonomous Institute National Institute of Ocean Technology (NIOT) has developed Low Temperature Thermal Desalination (LTTD) technology for conversion of sea water to potable water which has been successfully demonstrated in Lakshadweep islands.
- (b) Three desalination plants based on the LTTD technology have been developed and demonstrated at Kavaratti, Agati and Minicoy Islands of Union Territory of Lakshadweep. The capacity of each of these LTTD plants is 1 Lakh litre of potable water per day. Based on the success of these plants, Ministry of Home Affairs (MHA) through Union Territory (UT) Lakshadweep has entrusted the work of establishing 6 more LTTD plants at Amini, Androth, Chetlet, Kadmat, Kalpeni and Kiltan with a capacity of 1.5 lakhs litres/day. The LTTD technology is found suitable for Lakshadweep islands where the required temperature difference of about 15°C between sea surface water and deep sea water is found in the vicinity of Lakshadweep coasts only as of now.
- (c) The cost of desalination plant depends on a number of factors inter alia which includes technology used and location of plant. The total cost of the six LTTD plants in Lakshadweep islands is Rs. 187.75 cr.
- (d) No, Sir. MoES has not taken any foreign assistance for setting up desalinisation plants in Lakshadweep Islands.

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