

GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
RAJYA SABHA
UNSTARRED QUESTION No. - 27
ANSWERED ON 20/07/2023

LOW TEMPERATURE THERMAL DESALINATION (LTTD)

27. DR. ANIL SUKHDEORAO BONDE:

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

- (a) the status of production of desalination technology plants in the country for conversion of sea water into potable water based on Low Temperature Thermal Desalination (LTTD) technology producing drinking water from sea water;
- (b) whether Government has formulated any scheme to establish a large number of plants in the coastal areas of the country for producing drinking water from sea water;
- (c) if so, the details thereof and per litre cost of drinking water so produced from these plants; and
- (d) the time by which the said scheme is likely to be implemented?

ANSWER

THE MINISTER OF EARTH SCIENCES
(SHRI KIREN RIJJU)

- (a) Lakshadweep Administration approved setting-up of 6 desalination plants based on the Low Temperature Thermal Desalination (LTTD) technology with capacity of producing 1.5 lakh litre per day in the islands of Amini, Androth, Kadamat, Chetlat, Kalpeni and Kiltan of the Union Territory of Lakshadweep. The fresh water produced at the desalination plants of Kalpeni and Amini are being supplied locally since June, 2022 and January 2023 respectively on trial basis and the project activities are at different stages of completion at the remaining four Islands viz Androth, Chetlat, Kadamat & Kiltan. Earlier, three desalination plants based on the LTTD technology have been developed and demonstrated at Kavaratti, Agati and Minicoy. The capacity of each of these LTTD plants is 1 Lakh litre of potable water per day.
- (b) No Sir. The LTTD technology requires a temperature difference of about 15°C between sea surface water and deep sea water, which is found in the vicinity of Lakshadweep coasts only as of now. However, Department of Science & Technology (DST) under Water Technology Initiative launched a call for enrolment of Solution providers in the area of Desalination Technologies and compiled & published a compendium in the year 2019 to bring out the status of Global and National Desalination technologies. Further, water supply is a State subject and power to plan, approve and implement water supply schemes including setting up of desalination plants for drinking water, are vested with respective State Governments.
- (c) Does not arise.
- (d) Does not arise.
