



Ministry of Earth Science

Conversion of Sea Water Into Drinking Water

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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.

One experimental LTTD plant using condenser waste heat from power plant was set up at North Chennai Thermal Power Station (NCTPS).

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.

This information was given by Minister of State for Science & Technology and Earth Sciences Shri Y.S.Chowdary in written reply to a question in Rajya Sabha

RDS/nb

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