

Water - The elixir of life

BARC water technologies

secure the needs of Border Security Force

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India's premier organization for research and development activities in nuclear energy sector, Bhabha Atomic Research Centre (BARC), continues to expand its pan-India footprint through deployment of new technologies that serve wider societal benefit. The technology for treating seawater to supply clean drinking water, developed in BARC, has now been deployed at Creek Border Outposts, BSF Bhuj, Gujarat.

The two 1000 litres per hour capacity desalination plants - commissioned at BSF Bhuj (at Lakkinala and Lakhpatwari) recently - would now ensure proper supply of clean drinking water to meet the day-to-day requirements of security forces stationed near the international border. The desalination plants - developed based on BARC supplied technology knowhow - were manufactured by a Rajkot-based firm Osmotech Membranes Pvt. Ltd. The membrane based technology incorporated in these plants is equipped to reject high levels of dissolved salts present in seawater to provide clean and safe drinking water.

The facility was formally inaugurated on 1 September, 2023 by Shri Ravi Gandhi, Inspector General, Gujarat Frontier BSF; Shri K. T. Shenoy, Director, Chemical Engineering Group, BARC and Shri A. K. Adak, Head, Desalination & Membrane Technology Division, BARC in the presence of Shri Anant Singh, Deputy Inspector General, BSF Bhuj; Shri Sanjeev Kumar, Commandant, 18 BN, BSF Bhuj; Shri Shreyas Vagadia, Director, M/s. Osmotech Membranes Pvt. Ltd.

Two 1000 litres per hour capacity desalination plants (equipped with BARC technological knowhow), now installed in one of the remotest locations of the country, would ensure proper supply of clean drinking water to serve the needs of India's security forces



BARC Photo

Top: Senior personnel of BARC Trombay and BSF preside over a function organized to mark the official commissioning of desalination plant.

Bottom: Inside view of desalination plant commissioned at BSF Bhuj.



BARC Photo