

SPV WATER DESALINATION PLANT

INTRODUCTION

Ground Water is a major source of drinking water. In many parts of our country ground Water has a very high level of salinity containing total dissolved solids such as fluorides, nitrates, chlorides etc. more than 2000 ppm. The water having such a high level of salinity is classified as Brackish Water. Brackish Water is unfit for human consumption and continual use of it is hazardous to health. The conventional methods of Desalination of Brackish water is not feasible in the remote areas because of non-availability of Electricity and cumbersome operation. Sun is the only source of energy which can be exploited to achieve the goal of providing Soft Water in those areas affected by the problem of high salinity in drinking water and non-availability of grid power.

REIL in collaboration with DRDO has developed the SOLAR POWERED WATER DESALINATION PLANT which is ideal for the remote areas having high salinity in drinking water and non-availability of grid electric power.

FEATURES

REIL's SOLAR POWERED WATER DESALINATION PLANT produces safe drinking water by reducing ppm to the safer limits as per WHO/ICMR standards. The SOLAR POWERED WATER DESALINATION PLANT is a very small & portable and is so easy that a housewife can operate it. The Desalination plant is powered by Solar Energy using SPV Modules in the day time. It requires practically zero maintenance. It produces nearly 70-10000 litres of safe drinking water per day from a feed of Brackish Water.



SPECIFICATIONS	MODEL-1	MODEL-2	MODEL-3
1. Salinity of feed water	2000 - 5000 ppm	2000 - 5000 ppm	2000 - 5000 ppm
2. Salinity of Output Water	500 - 1500 ppm	500 - 1500 ppm	500 - 1500 ppm
3. Capacity	5 - 10 litres / hr	10 - 15 litres / hr	100 - 150 litres / hr
4. Flow	Gravity flow from ONE metre head	Gravity flow from ONE metre head	Gravity flow from TWO metre head
5. Power Supply	Solar PV Panel 35 W	Solar PV Panel 70 W	Solar Module 5 kWp
6. Polarity Reversal	Daily, to avoid scaling	Daily, to avoid Scaling	Daily, to avoid Scaling

For further information contact:

RAJASTHAN ELECTRONICS & INSTRUMENTS LTD.

(A Public Sector Enterprise - **ISO 9001 Company**)

2, Kanakpura Industrial Area, Sirsi Road, JAIPUR - 302 012 (Rajasthan) INDIA

Telephone : 91-141-352841, 203038

Fax : 91-141-352841, 202701

E-mail : reiljp@jp1.dot.net.in

Web Site: www.reiljp.com

