## 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.

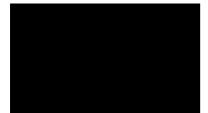
REIL in collaboration with DRDO has developed the SOLAR POWERED WATER DESALINATION PLANT which is ideal for the remote areas having high salinity in drinking water and non-availability of grid electric power.

## **FEATURES**

RFIL's SOLAR POWERED WATFR DESALINATION PLANT produces safe drinking water by reducing ppm to the safer limits as per WHO/ICMR standards. POWFRFD The SOLAR WATFR **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-I	MODEL-2	MODEL-3
<ol> <li>Salinity of feed water</li> <li>Salinity of Output Water</li> </ol>	2000 - 5000 ppm	2000 - 5000 ppm	2000 - 5000 ppm
	500 - 1500 ppm	500 - 1500 ppm	500 - 1500 ppm
<ol> <li>Capacity</li> <li>Flow</li> </ol>	5 - 10 litres / hr	10 - 15 litres / hr	100 - 150 litres / hr
	Gravity flow from	Gravity flow from	Gravity flow from
5. Power Supply	ONE metre head	ONE metre head	TWO metre head
	Solar PV Panel	Solar PV Panel	Solar Module
6. Polarity Reversal	35 W	70 W	5 kWp
	Daily, to avoid	Daily, to avoid	Daily, to avoid
	scaling	Scaling	Scaling



For further information contact:

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