

ROSHINI (SALINE WATER LANTERN)

BRIEF DESCRIPTION:

Off Grid power is becoming much common even for well connected communities. Climate changes, weather disasters etc. have fuelled up the requirement of emergency power systems. With current stark warnings on irreversible global warming, the world is switching over to green and sustainable forms of energy. Taking forward the institute has developed a portable light weight Sea water lantern ROSHNI (Renewable Ocean System for Harnessing Novel Illumination).

SALIENT FEATURES AND APPLICATIONS:

- The lamp can operate continuously up to 12 Hrs for every replacement of sea water.
- In case Sea water is not available, 300 ml of tap water can be used with 10 gm of table salt.
- A higher version of the saline lantern is available with provision for Mobile charging.
- The lamp is designed with three lamps which can be used as a torch, reading lamp, and a USB based mobile charger.
- Sea water lantern finds its utility among the local community which has limited access to the power, such as the fishermen community and the island population.
- Also, it can be very useful for the community in case of an emergency during natural disasters such as floods, hurricanes, earthquakes etc. in the event of grid disconnection.

Scale of development: Demonstrated and commercialized

