

## **Emergency Sea Water Purification Kit**

Defence Laboratory Jodhpur has designed and developed an Emergency Sea Water Purification Kit (ESWPK) for use in life rafts Indian Navy, aircrafts and commando operations.

ESWPK unit comprise of design & fabrication, specific material synthesis and its process optimization, experimental studies, developmental trial at sea-shore and testing certification of output water & system evaluation procedures. The technology based on specific desalination material and membrane filter. It is capable to convert Sea water (more than TDS 35000 ppm) into drinkable water (below TDS 500 ppm) with in short period of around 30 min. Kit is capable to remove colour, odour, turbidity, high TDS and microbial contaminants from sea water. It is light weight, foldable, simple to operate, compact and no need of electricity.

The scope of technology transfer involves specific material preparation and its process optimization and membrane-based Emergency Sea Water Purification Kit (ESWPK). An industry involved in the development /fabrication of membrane and material-based Water Purification units/ other industries may express interest for Transfer of Technology (ToT) of ESWPK.