

Potable Sterilized Water pouches

Potable sterilized water pouches, is one of the main component of Life Support Systems in Personal Survival Pack (PSP) of Indian Air Force. The potable water pouches are very critical for the Indian Air Force to meet their operational requirements during sortie and strike operations. Potable sterilized water is packed in multilayer pouches and thermally processed to achieve commercial sterility with the shelf life of 24 months under ambient conditions. The technology has been developed to indigenously the process to reduce the cost and to develop indigenous manufactures/processors to supply potable sterilized water pouches to Indian Air Force. The technology is indigenous and cost effective. The potable sterilized water pouches are storable up to 24 months under ambient conditions. In civil sector if any situation emerges for potable sterilized water, this technology can be adopted for the production of potable sterilized water in flexible pouches with longer shelf life. Hence, this technology is highly useful for critical mission and for other logistic operations. Potable water (pH: 6.5-7.5) is filled in multilayer packaging pouches which are sealed subsequently sealed hermetically using high pressure pneumatically operated sealing machine. The water pouches are thermally processed to achieve commercial sterility ($F_0:3.0$) as well as to reduce the bioburden.

