



Dip-N-Drink Membrane Pouch for Providing sterile water solution from contaminated water

BARC has developed Dip N Drink Membrane Pouch technology to convert the biologically contaminated water into sterile solution for oral consumption. It works on the principle of osmosis and do not require external energy driven system. The pouch is sealed and stored in ready to use condition and can be used for providing sterile drinkable solution during disaster conditions like flood, cyclones, tsunami, earthquakes, etc. or Oral Rehydration Therapy in remote areas / villages.



Advantages & Applications

- Membrane pouches produce complete sterile drinkable solution (free from suspended solids, biological and other contaminants).
- Made in easily portable form and can be used during disaster management.
- It can be prepared in any size depending on the requirement.
- Does not require external energy driven system and infrastructure support.
- Depending upon preparation, it can provide ORS or glucose or fruit juice solutions.
- It can be used for concentration of high value low volume product in food, pharmaceutical, chemical industries.

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The entire process involves several steps like:

1. Preparation of membrane pouch using locally manufactured or commercially available RO membrane and sealed by using adhesives or ultrasonic welding technique.
 2. During disaster the membrane pouch is put in contaminated water. After 2.5 – 3.0 hrs. a 15cm × 15cm size membrane pouch containing 5 gm of Oral Rehydration Salt (ORS) powder can produce 200ml sterile drinkable water solution.
- Technical know-how of this membrane pouch preparation technique is available on nonexclusive basis. We provide only the process for preparation of membrane pouch. However designing the machinery/equipment for large scale defect free pouch production is under the scope of the licensee.

This technology has been transferred to following parties:

- M/s. Superklean Environmental Engineers Pvt. Ltd., Mumbai (Tel.No. 022-24942383, E-mail: superklean@gmail.com)
- M/s. Aum Technologies, Navi Mumbai (Tel.No. 022-27571121, 9322990991; E-mail: zodiaccomputers@gmail.com)
- M/s. Godrej & Boyce Mfg. Co. Ltd., Mumbai (Tel.No. 022-67962193, E-mail: info@godrej.com)
- M/s. Plasty Surge Industries Pvt Ltd, Amravati, Maharashtra (Tel.No. 0721-2521295, E-mail: sales@psidispo.com)
- M/s. S.K.Mittal & Co. Pvt. Ltd., New Delhi (Tel.No. 011-41640694)
- M/s. Permionics Membranes Pvt. Ltd., Vadodara, Gujarat (Tel.No. 0265-2281563)

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