

**Application Number : EOI-W- 93**

**Category :** Water related

**Title :** Watsan Natural Terafil Water Purifier

**Current Stage of the Technology :** Technology Commercialized/ Implemented

**Estimated Capital Cost,If Quoted (In Rs):** 1100.00

**Cost of Water Per Litre (Paise per liter):** 3.00

**Patent filed :** Yes

**Patent Application Number :** 4387/CHE/2014

**Patent granted :** No

**Patent Number :** --

**Provide Video Link :** <https://www.youtube.com/watch?v=ZhII0kIZO58>

**Key Word :** --

**Summary of the Product :** Zero wastage of water, no electricity and no maintenance; Works on the principle of Nano technology & Micro filtration method developed and patented by C.S.I.R (I.M.M.T) and Arsenic removal technology adapted from I.I.T Madras, Fluoride removal technology developed in-house.

**Contaminants that can be removed through this Technology :** Pathogens, turbid materials, arsenic, fluoride, iron

**Design Capacity :** 15 litres up and 15 litres down

**Pre-Treatment Protocol :** Clean and rinse

**Post-Treatment Protocol :** Only for arsenic- replenishment of absorbent in one year, for Fluoride replenishment once in 6 months

**Operations and Maintenance Cost and Protocol :** Rinse and wash top vessel daily

**Reject Management Cost and Protocol :** Nil

**Certification of Product :** Approved by DST, CSIR(IMMT), CIPET - all GOI institutions and arsenic removal technology done with IIT incubated company Inno-Nano

**Ease of Operations and Management :** Just rinse and wash

**Interference by other Contaminants :** Negligible

**Test Trailed : Whether Test Trailed/Implemented :** Terafil, arsenic removal, fluoride removal

**Competitors** : No competitors in this line of activity. We are doing region specific contamination removal like iron removal, arsenic removal, fluoride removal etc. Filters tailor made to suit the region's contamination.

**About Innovator and Contributors** : J Chandrasekaran - Founder Director Watsan Envirotech Private Limited and proprietor Custom Parts Online, Licensee of CSIR (IMMT) Bhubhaneshwar for Terafil Technology and collaborator with Inno-Nano reserach Private Limited for making arsenic removal purifiers.

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