

# Water Purification through Ceramic membrane based process

## IPR STATUS

Off Patent

## APPLICATION/USES

- Removal of arsenic and iron from contaminated groundwater for production of Quality Drinking Water
- Pretreatment of river water for removal of colloidal material to produce drinking water by Ceramic Membrane based process

## SALIENT FEATURES

Technology is essentially a hybrid type comprising of two steps:

- Adsorption of arsenic by the colloidal media particles suspended in water and

- Application of membrane based separation technique for solid-liquid separation using ceramic micro-filtration membrane modules.

The level of purification achieved is as per WHO recommended limits for arsenic (<0.01 ppm) and iron (<0.3 ppm) in Drinking Water.

## LEVEL/SCALE OF DEVELOPMENT

- Developed and deployed through licensees at multiple locations

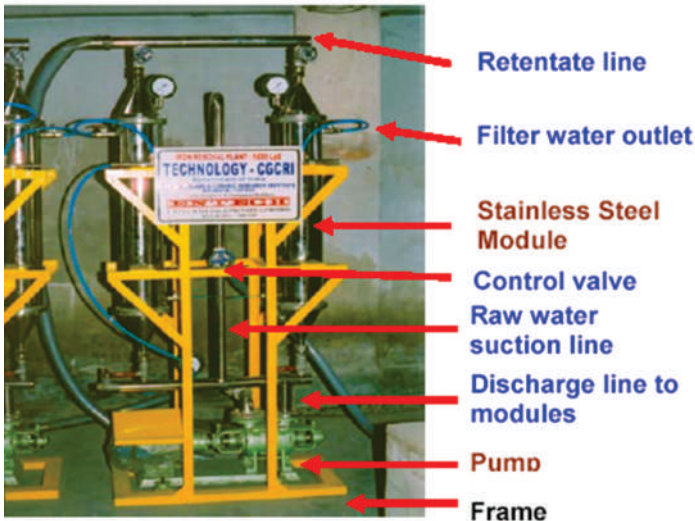
## LINE MINISTRY MAPPING/USER SECTOR

Department of Public Health Engineering / Ministry of Rural Development etc.



एक कदम स्वच्छता की ओर

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Components of water purification plant

