

This issue of Update spotlights the drinking water treatment systems supplied by Ion Exchange for rural communities in Chotian (Sangrur) village and at Ferozepur in Punjab state, under the government's drinking water treatment programme. It also features our Eco+ Puriline point-of-use drinking water purifiers supplied to government schools in Punjab and the new generation packaged sewage treatment plant installed at CPWD, Shillong.

Water Treatment Systems in Rural Punjab

The Punjab government, in its efforts to ensure clean and clear drinking water to various rural areas including schools as a part of the overall government scheme for eradication of drinking water related issues, selected Ion Exchange to partner their efforts in this area. Two major activities that we implemented as a part of the government drinking water programme were for provision of community drinking water systems for rural areas and point-of-use water purifiers for rural schools.

Community Drinking Water Systems

Since the raw water source in various areas in the state had different contaminants, the choice of technology was a crucial deciding factor in the government choosing to partner with Ion Exchange for these solutions. Our state-of-art fluoride removal systems are used to treat water



Our 2000 l/h fluoride removal system was installed at Chotian (Sangrur) village, Punjab

containing harmful fluoride ions making it suitable for drinking. For other areas in the state where turbidity and suspended impurities were a problem

because of canal water sources our state-of-art continuous sand filters provide an effective solution for removal of these impurities. These filters by virtue of their unique design are ideally suited for rural areas because they require no operator attention/stoppage for backwash and can also withstand spikes and higher levels of turbidity and suspended solids.



INDION Fluoride Removal System

POU Drinking Water Purifiers for Rural Schools

Under the Rajiv Gandhi Drinking Water Mission, the Ministry of Rural Development and the Dept. of Drinking Water Supply launched the Jalmani project, to provide non-electric water purifiers for schools in rural India. Ion Exchange received an order for 750 Eco+ Puriline systems from the Government of Punjab for their government schools, for disinfection and removal of microbial impurities from water.



Eco⁺ Puriline Drinking Water Purifier

The Eco⁺ Puriline purifier is ideal for installation in large drinking water consumption areas like schools, colleges, canteens, hospitals, offices and factories, etc.

It effectively eliminates bacteria & viruses from water, irrespective of the level of contamination besides eliminating foul taste, odour & colour and uses Bacteriostatic Activated Carbon (BAC) to give natural tasting water. Eco⁺ Puriline provides up to 10-20 glasses of water per minute, i.e. 1000 glasses during peak hours.

The purification process consists of:

Stage 1: Special synthetic filter which removes suspended impurities

Stage 2: Zero B resin eliminates waterborne bacteria & viruses

Stage 3: The BAC chamber removes foul odour, taste and colour, giving natural tasting water



Features:

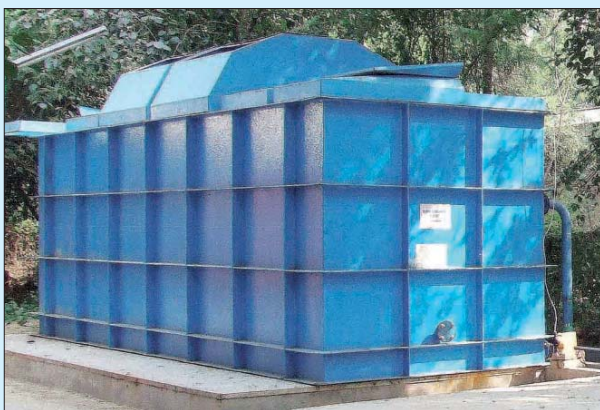
- Does not require electricity to operate
- Separate water meter to indicate capacity utilisation
- Higher dispensing capacity of 4 litres per minute
- Simultaneous connection with cooler and normal outlets possible
- Only food-grade material used within

Advantages:

- Not only paralyses, but effectively eliminates bacteria and viruses
- Virtually maintenance-free
- Effective cost less than 5 paise/litre of safe drinking water
- Simple design

Sewage Treatment Plant For Central Public Works Department, Shillong

We supplied our INDION new generation packaged sewage treatment plant (NGPSTP 1000) to Central Public Works Department, Shillong.



Features of **INDION** NGPSTP

- All-in-one single tank packaged sewage treatment plant
- Modular design: 10-100 m³/day
- Compact and simple to operate
- High quality effluent
- Three months sludge storage capacity
- Minimal maintenance
- GRP construction tank – no corrosion

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