

Application Number : EOI-W- 98

Category : Water related

Title : BHARTI UNDER DRAIN SYSTEM

Current Stage of the Technology : Technology Commercialized/ Implemented

Estimated Capital Cost,If Quoted (In Rs): 0

Cost of Water Per Litre (Paise per liter): 10.00

Patent filed : No

Patent Application Number : --

Patent granted : No

Patent Number : --

Provide Video Link : --

Key Word : UNDER DRAIN SYSTEM

Summary of the Product : The Bharti Under Drain System are based on new concept of eliminating filter bed upsets, hence having distinct advantages over conventional under drain systems.

Contaminants that can be removed through this Technology : The design of a Bharti Under Drain System is based on header lateral distribution theory. This method of collecting and distributing flows is common technology. The Cylindrical Header is installed lengthwise in the center of the bed. One end of the header will be closed and other end will remain open to outlet for the filtered water.

Design Capacity : The design of a Bharti Under Drain System is based on header lateral distribution theory. This method of collecting and distributing flows is common technology. The Cylindrical Header is installed lengthwise in the center of the bed. One end of the header will be closed and other end will remain open to outlet for the filtered water.

Pre-Treatment Protocol : Raw Water enters the filter bed at the top and percolates down through the filter media bed into the screen laterals. Flow from each lateral travels to the connected to the outlet header pipe. Backwash is distributed uniformly to each lateral by this cylindrical header, and along each lateral through the base pipe hole orifice.

Post-Treatment Protocol : NOT APPLICABLE

Operations and Maintenance Cost and Protocol : We look forward to your valuable and positive guidance and support in our task of popularizing this world proven technology now in Bharti under drain system i.e. canal base schemes, which not only improve the efficiency of the schemes but also give better quality water and effective back wash system. One time additional investment in BHARTI UNDER DRAIN SYSTEM WILL PAID BACK IN FEW MONTHS by saving

heavy exchequer amount spend on maintenance and construction of new schemes, sand free discharge etc, which is becoming a scare resource in the national interest.

Reject Management Cost and Protocol : NOT APPLICABLE

Certification of Product : ISO 9001 : 2015 , ISO 14001 : 2015, OHSAS 18001 : 2007, ISO 22000 : 2005 and NSIC Registration Certificate

Ease of Operations and Management : The system is simple to install as it requires no special grouting. Laterals are connected to the header with suitable flanges. The system with backwash is well engineered based on proven design criterion.

Interference by other Contaminants : NOT APPLICABLE

Test Trailed : Whether Test Trailed/Implemented : BHARTI UNDER DRAIN SYSTEM IS SUCCESSFULLY IMPLEMENTED IN DELHI JAL BOARD, UP JAL NIGAM, UTTARAKHAND JAL SANSTHAN AND OTHER STATE

Competitors : NOT APPLICABLE

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