ION EXCHANGE
Refreshing the Planet

INDION® ASM

Description

INDION ASM is an ion exchange resin based media designed to selectively remove arsenic from ground water without affecting the characteristics of influent water.

INDION ASM performs well, even in the presence of common anions such as chlorides, sulphates or bicarbonates. INDION ASM is used like conventional ion exchange resins.

Characteristics

Appearance	:	Reddish brown beads
Matrix	:	Gel
Moisture holding capacity	:	47 - 54 %
Shipping weight	:	800 g/l , approximately
True density	:	1.145 g/ml, approximately
Particle size range	:	0.3 mm to 1.2 mm

Operating parameters :

Maximum operating temperature	:	60^0 C
Operating pH range	:	6.5 to 9.0
Arsenic adsorption capacity	:	0.5 - 2.0 g /l
Static arsenic adsorption capacity	:	25 - 37 mg /g
Recommended contact time	:	2.5 to 5 minutes (Typical 3 minutes)
Specific service flow rate	:	Typical 20 - 30 BV/h
Minimum bed depth	:	0.5 m

Salient features

- INDION ASM Selectively removes arsenic in presence of other anions.
- It removes As III as well as AS IV.
- INDION ASM is operated like conventional ion exchange resins and operates at conventional pressures.
- Physically stable during usage, does not generate fines.
- Effluent arsenic levels does not exceed influent levels at any point of normal operation.
- Ideal for municipal and residential POE & POU devices.
- INDION ASM was tested for Volatile organic compounds VOC's, and found to be within the drinking standard as per EPA 8021 B.
- Water treated through INDION ASM was tested for oral toxicity as per IP (Indian Pharmacopoeia) and found to be safe for human consumption.
- Exhausted INDION ASM is non toxic and safe for disposal as per TCLP (Toxicity characteristic leaching procedure as per EPA 1311). Please follow Local regulations for disposal.

Note: -

- It is recommended to rinse the resin with minimum 10 bed volumes of DM water before taking it into service.
- It is recommended to pre-treat and pre-filter the influent water to obtain best results.
- The desirable influent water quality must be within the specified limits.
- Turbidity 1 NTU, Iron - < 0.5 ppm, Manganese - < 0.5 ppm, Oil & grease Nil, Organics Nil, Arsenic 3000 ppb max.
- Presence of Phosphates, Vanadium and Silica can affect the Arsenic removal capacity.

Field performance of Arsenic removal unit.

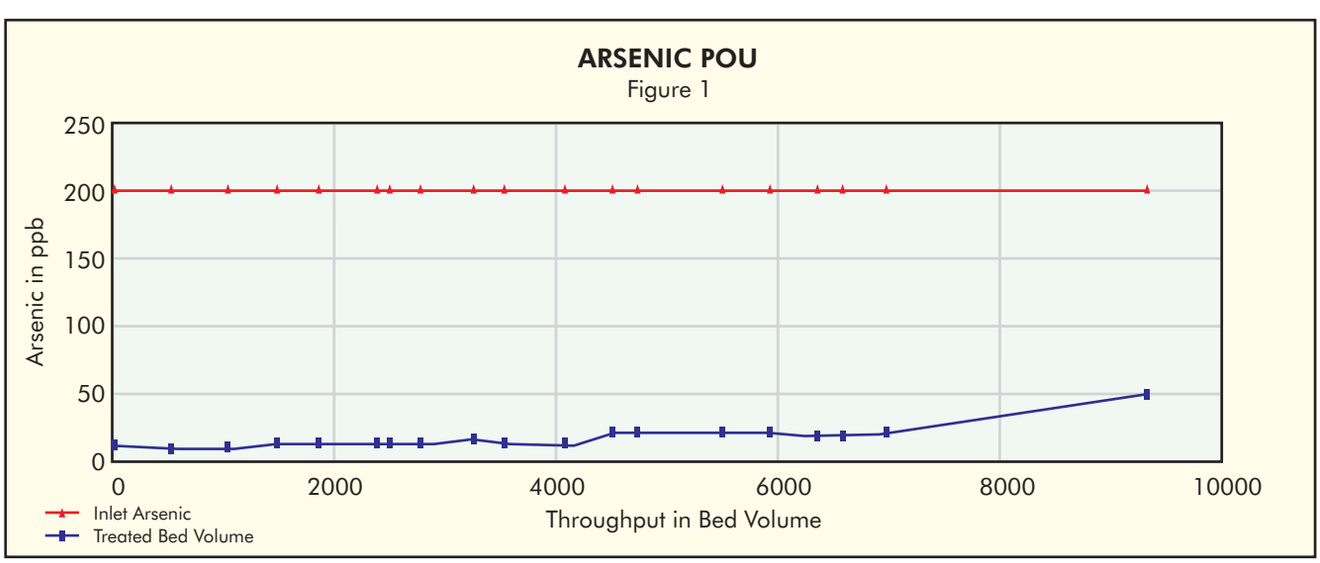
Point of use unit:-

Location: Block Development Office,

Dist. Nadia, West Bengal

Inlet feed water quality

Sr.no.	Parameters	Values
1	pH	7.30
2	Conductivity	600 - 700 μs / cm
3	Alkalinity	352 ppm as $CaCO_3$
4	Total Hardness	340 ppm as $CaCO_3$
5	Iron	0.5 to 1 ppm as Fe
6	Arsenic	0.2 ppm as As
7	Treatment flow rate LPH	60 - 90



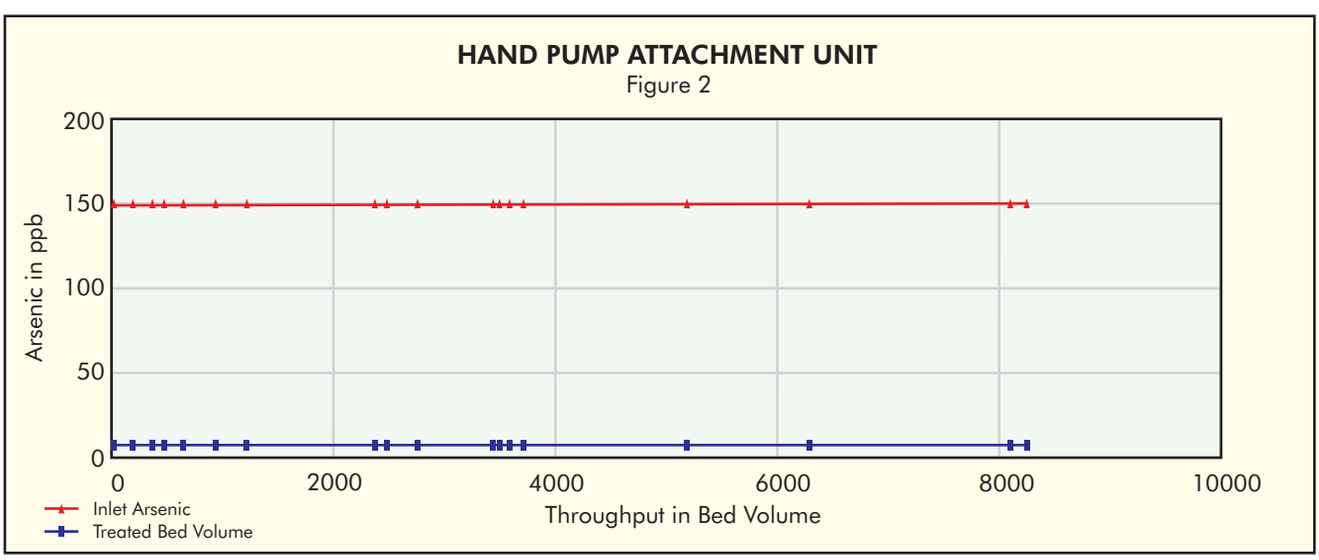
Field performance of Arsenic removal unit.

Hand pump attachment unit: -

Location: Govindpur Haldarpada,
at Debogram (Dist Nadia), West Bengal

Inlet feed water quality

Sr.no.	Parameters	Values
1	pH	7.40
2	Conductivity	600 - 700 μs / cm
3	Alkalinity	264 ppm as $CaCO_3$
4	Total Hardness	240 ppm as $CaCO_3$
5	Iron	0.5 to 1 ppm as Fe
6	Arsenic	0.15 - 0.2 ppm as As
7	Treatment flow rate LPH	600 - 700



Packing

HDPE Lined bags	25/ 50 lts	LDPE bags	1 cft / 25 lts
Super sack	1000 lts	Super sack	35 cft
MS drums with liner bags	180 lts	Fiber drums with liner bags	7 cft

Storage

Ion exchange resins require proper care at all times. The resins must never be allowed to become dry. Repeated drying and rewetting produce stresses analogous to those due to osmotic shock and can lead to fragmentation of Ion exchangers.

Safety

During storage and usage contact with oxidizing agents must be avoided to prevent accidents and damage to the resin.

INDION range of Ion Exchange resins are produced in a state-of-the-art ISO 9001 and ISO 14001 certified manufacturing facilities at Ankleshwar, in the state of Gujarat in India.

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