

Dearsenification Unit (Capacity 200 L/Hr)

In recent days, the arsenic contamination in ground water of NE India is in an alarming condition. DRL, DRDO Tezpur has developed dearsenification unit to provide arsenic free drinking water. The cylindrical water dearsenification unit consists of an aeration system with cover, four chambers viz. sedimentation, up flow filtration, gravity flow filtration and filtered water chamber. These chambers are housed in the cylindrical main body and separated by partition. The chambers are connected by holes for flow of water. The unit also contains a charge holder, a doser for lime, sludge/backwash outlet valves and a filtered water outlet.

Main features:

- Adequate aeration facility
- Arsenic content of the treated water through this unit within WHO standards (< 10 ppb) from water having dissolved arsenic up to 500 ppb.
- Major portion of arsenic and iron precipitate/ co-precipitate in sedimentation chamber
- Double filtration ensures better removal
- Efficient backwashing system
- Easy operation and maintenance
- Filtration rate: 200 L/hr (approx).



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