

Improved Iron Removal Plant



The presence of excess iron in ground water creates several problems including health hazards to the masses and also causes rust, stains on house hold washings and laundry. Groundwater iron removal process in the present work is adapted to remove iron efficiently from the groundwater without affecting the other water quality parameters. The present work comprises of a improved iron removal plant (IIRP) which accommodates a force & lift type arrangement fitted with the existing India Mark-II hand pump, number of holes around the aeration chamber, presettling chamber, settling chamber and a outlet tap to collect the safe iron free drinking water. Improved iron removal plant (capacity: 800 Lit/hr.) for community purpose use has been designed & developed by CSIR-CMERI, Durgapur. The know-how for which is ready for transfer & commercialisation.



Capacity of the plant: 800 litre/hr.

Advantages:

- Naturally available sand and gravels used for removal
- No electric power requirement- Implementable in remote villages
- Useful to community service: a small village may cover for drinking purpose only
- Attachable to the existing Mark-II hand pump
- Simple in design-Operation and Maintenance
- Instant iron free water
- Cost effective

For details:

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