

Aquatron-based STP Case Study

Indian Army Camps, Leh



Site data

Location: Leh

Capacity: Various

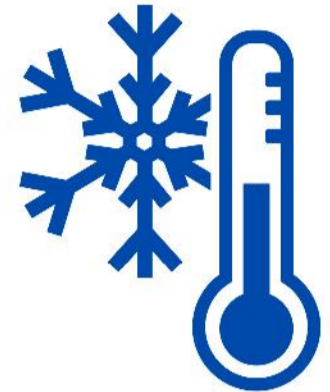
Installation type: Retrofit

Year of completion: 2022



Aim

To provide an eco-friendly sewage treatment system capable of operating in sub-zero temperatures



Project objectives

- Decentralized solid-separation and natural composting units for WC water below frost line. Geothermal ventilation keeps temperature above 0.
- Soak pit for separated WC water



Low-cost O&M

- No operator
- No power consumption
- Systems function fully with gravity



Water quality

- Typical BOD of Aquatron outlet water: 20-40 mg/ltr.
- This and any residual suspended solids are easily filtered in the soak pit

High-altitude challenges

The climate and altitude in Leh present a challenge for sewage treatment as freezing winter temperatures prevent any treatment and even otherwise regular aeration-based systems have a poor oxygen supply.

About Aquatron

Aquatron instantly removes solids from flushing water using the momentum of flushing water, centrifugal force and gravity. Separated solids turn into a small quantity of hygienic manure and liquids go for further treatment. Aquatron-based STPs are free of sludge and septic smell.

