Case Study

Residential Industry

River water filtration system

GIBB ENGINEERING

Problem Statement

A remote residential property development required a decentralised water treatment solution capable of producing 1,080 m³/day of safe drinking water. The available river water source exhibited consistently high turbidity, making reliable treatment essential to ensure a stable supply of potable water for the community.

Solution

Watericon designed and supplied a pressure filtration system incorporating conventional multimedia filtration to effectively remove suspended solids and reduce turbidity from the river water. The robust, decentralised solution provides a reliable supply of high-quality drinking water while meeting the demands of the residential development.

Typical Plant Feed

- River Water
- Turbidity- 300NTU

Performance Target

- The treated water needs to comply to the Mauritian Drinking Water Standards & Regulations:
- Turbidity – < 1 NTU
- pH – 6.5 to 8.5

Process

Feed pumps will feed river water through multimedia filters, dosing flocculant to assist the filtration process. The filtered water will be stored in a reservoir before being pumped to the distribution points.

Innovation

This solution allows the supply of clean drinking water, through a decentralised solution, to a new community development.