

Jal Tara Nano Filtration System

The Jal Tara Nanofiltration System removes dissolved contaminants from water including Total Dissolved Solids (TDS) and it also ensures the safety of drinking water by removing bacteria, viruses, and other pathogens from water. As per the World Health Organization (WHO), nanofiltration techniques are recommended for the treatment of drinking water over other membrane filtration processes.



Nanofiltration is a pressure-driven process which is used for treating water by passing it through a semi-permeable membrane. The pore size of the membrane lies between 1-10 nanometers, which is lesser than the pore size of membrane used for ultrafiltration but larger than that of an RO (Reverse Osmosis) process.

Advantages of Nano-Filtration:

Lower energy use: Nano-filtration uses less pressure than Reverse Osmosis (RO), making it more energy-efficient

- ♦ **Keeps essential minerals:** Unlike RO, nano-filtration keeps important minerals in the water, preserving its taste and nutritional value.
- ♦

Less clogging: Nano-filtration membranes have larger pores, so they clog less often than RO membranes, leading to longer-lasting membranes and lower maintenance costs.