

LITB-2024-9188571- Ultrafiltration Treatment Units
Answers to Queries 2

Q1: Do UNICEF need only Ultrafiltration membrane or complete system of 4 to 6 KLD.

Answer: We need a full water treatment system with ultrafiltration membrane technology.

Q2: What would be the pressure at the inlet of the system . Generally UF need around 1 to 2 bars of pressure to operate for which pump is used also there is backwash system with automatic valves which needs electricity .

Answer: we have tried several systems that use Ultrafiltration technology and only require to have a water tank at 2 to 4m. As for backwashing, it might be done by pumping, we cannot use electricity.

Q3: The inlet TSS 50 to 150 ppm is very high , What is source of water and what is the reason for such TSS and for this need a pretreatment like a sand filter and disc filter if the inlet TSS is such high. Is UNICEF willing to put it to the pretreatment .

Answer: No, we need a system to treat raw water with NTU levels going up to 50 NTU minimum and up to 150 NTU.

Q4: Please share picture of Ultra Filtration Membrane

Answer: ultra Filtration Membrane is a known technology for water treatment.

Q5: What is the source of raw water?

Answer: you can assume that water can be fed to the system from a water tank at 2 to 4m above the system (2-4m head). Yet, the water tank should not be included in the proposed system.

Q6: For what purpose will it be used at the outlet?

Answer: drinking potable water.

Q7: Shall the system consist of a water tank for raw water. If yes, then what is the required size ?

Answer: no, but you can assume that water can be fed to the system from a water tank at 2 to 4m above the system(2-4m head). Yet, the water tank should not be included in the proposed system.

Q8: Shall we include a feed pump for raw water for each system ?

Answer: no, but you can assume that water can be fed to the system from a water tank at 2 to 4m above the system(2-4m head). Yet, the water tank should not be included in the proposed system.