

SANDIP FOUNDATION's  
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### FIELD VISIT TO WATER FILTRATION PLANT

**Date:** 08<sup>th</sup> April 2022

**Venue:** Sandip Foundation, Nashik.

**Event Coordinator:** Dr. Swati Talele, Mrs. Pallavi Pawar.

**Committee Members:** Dr. Swati Talele, Ms. Chetna shinde, Mr. Nilesh Nikam, Mrs. Megha Badwar

**Theme of Programme:** Field visit at Water filtration plant located in the Sandip foundation campus

**Time:** 3.00pm - 4.00pm

All students of first-year D. pharmacy visited the water filtration plant located in Sandip Foundation college campus. They observed various types of water filtration plants there.

For this water filtration plant, the college takes water from a well, located near the bus parking, and then the water travels to the sand filter, carbon filter, R.O filter, and softener filter in a stepwise manner.

The names and functions of water filtration plant that we observed are as follows:

- 1. Sand filter**- removes the suspended matter, as well as floating and sinkable particles.
- 2. Carbon filter**- removes contaminants through adsorption.
- 3. R. O. filter (reverse osmosis filter)**- removes contaminants from water by using pressure to force water molecules through a semi permeable membrane. It is used for drinking.
- 4. Softener filter**- removes high concentrations of calcium and magnesium that cause hardwater. It is used for washing and cleaning purposes.
- 5. U.V. filter** - Treats microbiologically unsafe water with germicidal ultraviolet light. For 1000 liters of water this entire process of filtration takes 3 hours and 50 min.

