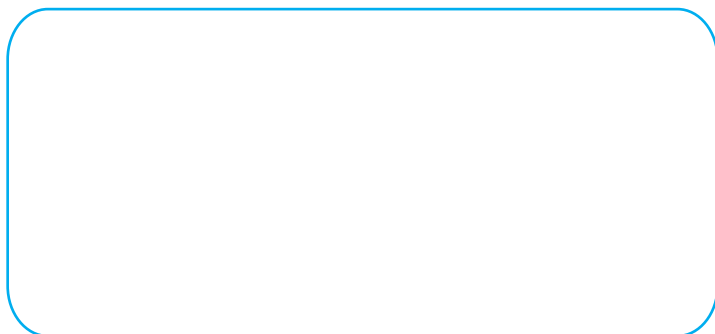


Producer



Technical Support

S M Sehgal Foundation (Sehgal Foundation) is a public, charitable trust registered in India since 1999 with a mission to strengthen community-led development initiatives to achieve positive social, economic, and environmental change across rural India. Sehgal Foundation's three key programs on water management, agriculture development and good rural governance are carried out based on the most critical needs in villages. The interventions in these areas are supported by research and community media.



www.smsfoundation.org



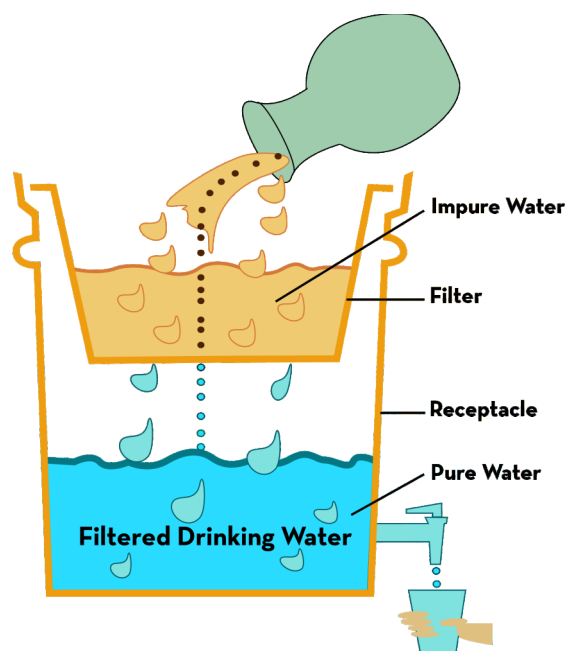
MATIKALP WATER FILTER



TOGETHER
WE EMPOWER
RURAL INDIA

Matikalp Water Filter

Dirty water is a major cause of disease in the developing world. Matikalp, a ceramic water filter, is a simple yet effective technology that purifies and treats water through a silver impregnated body of clay baked at high temperature to induce micro-pores. Made from all natural and non-toxic materials, this gravity-based water filter is low cost, reliable and generates livelihoods for local artisans. With a filtration rate of 1.5-2 litres / hours, the filter is suitable for disaster and emergencies also.



The Matikalp Water Filter Removes

- Biological contamination
- Iron and manganese contamination
- Turbidity and suspended solids

Advantages

- Ceramic filters are simple, small, and lightweight making them easy to carry.
- Filtration is extremely effective at removing pathogens and suspended solids.
- Colloidal silver coating ensures disinfection of drinking water. No further disinfection is needed.
- Ceramic filters can be produced locally, using local resources
- They are relatively inexpensive.
- Ceramic filters keep the water cold and safe.

Limitations

- Ceramic filters have a slow flow rate (1.5 – 2 litres per hour).
- High turbidity water can clog up pores in ceramic filters requiring frequent cleaning so sedimentation of turbid water before pouring into Matikalp is recommended.
- Good quality control is required in production of filters.
- Does not remove many chemical impurities.
- Ceramic is fragile and vulnerable to breakage for mishandling.

PLEASE JOIN

Sehgal Foundation invites partnerships with other individuals, corporates, government bodies, multilateral organizations, and educational institutions to further the access to safe drinking water and overall sustainable development work to achieve positive social, economic, and environmental change across rural India.

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