

SUPPLY OF TERAFIL WATER FILTER

Terafil Water Filter is a low cost device to filter impure water into clean drinking water. The filter is developed to cater to the needs for clean drinking water, especially when the water is rich in sediments, suspended particles, iron and certain microorganisms causing water borne diseases. It is most suitable for areas where water from dug wells, ponds, tube wells and rivers is user for drinking purpose. Terafil has been developed at the Institute of Minerals and Materials Technology (IMMT), formerly known as Regional Research Laboratory, CSIR, Bhubaneswar after long years of research and trials. The ingredients used in the preparation of the Terafil discs are red clay, sand and wood sawdust mixed in a definite proportion which is then sintered (burnt) in kiln used by artisans. Total capacity of the filter (top and bottom container together) is 30 liter.



The Terafil Water Filter is an assembly of six parts:

1. Lid
2. Top container,
3. Three TERAFIL Filter Discs
4. Support Ring
5. Bottom Container
6. Tap

The lid, ring, containers and tap are made from food grade plastic materials. The filter discs (TERAFILS) are attached with a food grade plastic holders using ordinary cement paste and screwed to the bottom of the top container.

Maintenance of Terafil

The sediment deposits on the top surface of the Terafil discs are to be cleaned once in a week or as and when required, by mild scrubbing with an ordinary scrubber (Supplied free along with the filter) or coir followed by a rinse with cold water. Although the filter is delivered in fully assembled mode, it is also easy to dismantle and reassemble the filter and the Terafil discs by a person of ordinary skill. Always ensure that the Terafils are fitted tightly on the base of top container with rubber washers in proper places and undamaged.

The height of the Terafil discs will reduce over a period of time due to scrubbing but shall remain active till half inch above the plastic holder. Care should be taken not to drop the filter/Terafil discs as it may cause accidental break/crack. During first use of a new filter, fill the filter with water repeatedly during first two days and drain out the filtered water. Consume the filtered water for drinking from third day onwards.

Self Test

The Transparent colour of the filtered water in the lower container is indicative of proper working of the filter. However the user is advised to ensure that water of about half inch height always stands at the bottom of the top container in empty condition. Failing this, the filter discs are to be checked for crack/loose mounting.

Activity proposed

Based on the results of the water quality tests carried out in the project area and the recommendations of CCDU, Jalanidhi, Kerala, Terafil Water Filters will be supplied to households where the drinking water is rich in sediments, suspended particles, iron and microorganisms causing water borne diseases. The total cost of one unit is Rs. 750/-. 10 percent of the cost will be collected as beneficiary contribution.