

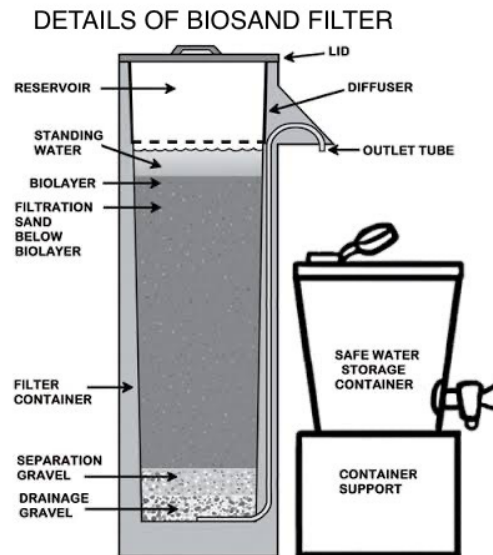
BIOSAND WATER FILTERS. COST AU\$90

BioSand Filters are a simple low-tech water filtration device designed for household use in developing countries. The filter casing is manufactured from steel moulds and made of concrete. It is filled with layers of specially selected and prepared sand and gravel. The sand removes pathogens and suspended solids from contaminated drinking water.

Contaminated water is poured into the top of the BioSand filter at least once per day (but not continuously). The water poured into the top of the filter slowly drips through the holes in the diffuser, and flows down through the sand and gravel.

Treated water flows out of the outlet tube. No power is required - the filter works by gravity and should take about 1 hour to get 12-18 litres of filtered drinking water.

Pathogens (capable of causing diseases) and suspended solids are removed through biological and physical processes that take place in the sand.



MAINTENANCE :

About every 12 months, the top 5 cm of sand is either removed and washed, or removed and replaced.

SUSTAINABILITY:

A concrete BioSand Filter can last for more than 25 years and requires very minimal maintenance and cleaning, making it an extremely durable, sustainable, and effective means of water filtration.

