



## Water Purification

Seed powder can be used as a quick and simple method for cleaning dirty river water. The powder joins with the solids in the water and sinks to the bottom. This treatment also removes 90-99% of bacteria contained in water. Using Moringa to purify water replaces chemicals such as aluminum sulphate, which are dangerous to people and the environment, and are expensive.

Twenty liters of water can be treated in the following way:

1. Remove the wings and brown seed coat and discard any seed kernels that have dark spots or any other signs of damage.
2. Pound the kernels to a fine powder.
3. Add 2 grams (2 small spoons) of powder to one cup of clean water pour into a bottle and shake for 5 minutes.
4. Filter the solution through a clean cloth into the bucket of dirty water that is to be treated.
5. Stir the water quickly for 2 minutes and slowly for 10-15 minutes. Do not use a metal tool to stir the water.
6. 6. Leave the bucket undisturbed for one hour or until the water becomes clear and the impurities have sunk to the bottom.
7. 7. Filter the water through a clean cloth.
8. 8. Boil the water before drinking.
9. Water from varying sources will need different amounts of powder because of the impurities present will not be the same. Experiments with a jar will help in working out the correct amount needed. Both the seeds and the seed powder can be stored but the solution made in stage 3 should not be stored. It should be freshly made every time water is to be purified. Honey and sugar cane juice can also be cleared of impurities using the powder. Moringa *stenopetala* seeds have better water purifying properties than Moringa *oleifera*.