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Low-Cost Water Filtration Process

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Abstract: *Water purification has been a necessity since the beginning of civilization. Purification is necessary to reduce the risk of toxins from recharging runoff rain water and to avoid a variety of illnesses. In India, sand filters are often used to remove suspended and colloidal particles from water more quickly during the filtering process by laying down different sand beds. It's commonly used in industry to remove contaminants from water and waste water. The filtration process weakens at the start and end, lowering the filtrate's initial quality after back washing. However, scientists believe that the quality of water will deteriorate inthe near future as a result of major increases in global warming, and that we must address this issue with appropriate solutions. The goal of this study is to present a variety of low-cost water filtration materials that are both effective and efficient at purifying waterwithout being too expensive. These filtering materials can be used to replace sand filters, which take up more space, time, and maintenance, with filters that take up less space, time, and maintenance.*

Keywords: Low-cost, Low-cost filter materials, Sand Filter, Water quality**,** Charcoal, Cactus, Moring oleifera**,**.

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