Methods

- Steps of sewage water purifications 1) The water has been passed through a screen to remove large piece
- of debris, skadges, and other solids. 2) The water has been passed through a box with a pump to aerate it to
- 3) The sludge has been collected from the water. Then, placed in a dosed system "anaerobic digestion process" to produce methane,
- 4) Moringa Cleifica crushed seeds have been added to the water in the dosages of 2g for one-liter sessage water to coagulate the impuritiand sediments and perform its antimicrobial and heavy metal
- 5) The solution has been stirred for 15 minutes then rested for one hou
- to collect the clear water.
- 6) The water has been passed through activated charcoal to remove the odor taste, and color as a final step for the purification process.
- 7) At the end, the water had been filtered from charcoal by filter paper







Moringa for Sewage Water and Clean Energy

21519, Egypt

Although water makes up to 71% of the Earth's surface, only 0.5% is fresh. Fresh water resources are getting exhausted at an exponential rate due to environmental changes, as well as the lack of sustainable planning. This project addresses three of the United Nations Sustainable Development Goals (UN SDGs): Clean Water and Sanitation (SDG 6). Affordable and Clean Energy (SDG 7), and Zero Hunger (SDG 2). People living...

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