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IF I COULD INVENT SOMETHING NEW

I live in Nyanya, Federal Capital Territory, but my hometown is Igue-Sale in Owan-East local government of Edo state. Whenever I go home with my parents, I see the pain caused by the lack of access to clean pipe-borne water for their everyday water needs, most of the population relies on rivers and streams. These sources are usually contaminated with pollutants and microorganisms endangering the villagers' health. I have seen the destruction that water-borne infections have caused. The village's high death rate is partly caused by the contaminated water, which frequently makes children sick. Every day, women and children spend hours fetching water from distant sources, only to come home tired.

If I could invent something and put smiles on their faces, I would make a machine that could rapidly purify water, enabling every household in my home country of Nigeria to have access to safe drinking water. I would name this gadget the "Jesse Water Guard." It will be a small, lightweight device that will be simple to install in every community center to rid the water of pollutants, microbes, and other impurities. It will involve the use of the Nano filtration technology. Nano filtration technology is the removal of impurities and contaminants from liquids, by passing them through a semi-permeable membrane to produce high-quality water. Since solar energy would power the device, it would be a reliable choice. Simplicity and use would be prioritized in the design of the Jesse Water Guard. People with little technical experience would be able to use and take care of it. The gadget would be workable for both rural and urban communities because it would be accessible to every household in the village. To be sure of the Jesse Water Guard's success, I would put in place an arrangement to enlighten people on how to properly use and maintain it. Training on regular maintenance duties, such as cleaning the equipment and

changing the filters, would be part of this program. In addition, skilled officers would carry out regular inspections to make sure the equipment is operating properly and to note any problems. The Jesse Water Guard would have an important effect on Igue-Sale and beyond. The people would no longer have to worry about catching diseases from contaminated water as they would have access to safe drinking water.

The people would be more economically empowered to carry out activities that generate revenue. Additionally, the ecosystem would benefit from the Jesse Water Guard by reducing the risk of water pollution and saving the local ecosystem by relying less on streams. In addition to helping the Igue-Sale people, the Jesse Water Guard would be an inspiration to other communities in Nigeria. Finally, the Jesse Water Guard is going to be a discovery that will completely change how people in Igue-Sale and elsewhere get clean drinking water, improve lives, empower communities, and build a healthier future for generations to come.