

A Noteworthy Attempt of INARS Endeavor for safe drinking water



Attempts to ensure safe drinking water for all

Arsenic contamination in groundwater of Bangladesh is a major concern. The scientific community in Bangladesh has given their efforts since last few decades in order to mitigate arsenic in drinking water. Still, research has been going on in this field to find possible sustainable options. Arsenic removal filter has been considered as a robust alternative in this process. Many Arsenic Removal Technologies (ARTs) have evolved in the last decades to ensure arsenic safe water. Most of them have not been verified yet for natural arsenic contaminated water. Their efficacies have been projected by relying on laboratory based experiment only. Therefore, it was necessary to verify the efficacy of the filter using Bangladesh groundwater. Bangladesh Council of Scientific and Industrial Research (BCSIR) is mandated by the Government of Bangladesh to verify performance claims of ART. Subsequently, BCSIR has nominated INARS, previously known as Analytical Research Division (ARD), to perform this work in 2003. Since then, INARS has been involved with the process and continuing its effort to ensure arsenic free drinking water for everyone in Bangladesh. It is noted that ARD conducted performance claims verification of Arsenic Removal Technology (ART) in collaboration with Canadian International Development Agency (CIDA) through ETV-AM and BETV-SAM project in 2003 and 2006, respectively. We verified thirteen (13) arsenic removal technologies and six of them were certified for marketing in Bangladesh. Presently, we have received a number of applications from different proponents for

verification of their technologies such as Xiano filter. In addition, we have assessed WASA supply water throughout Dhaka city to investigate any possible contamination. Currently, we have collected so called mineral water bottles from local market to examine correct level of minerals in them.



Alcane



Nelima



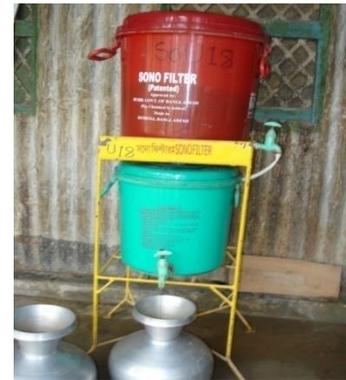
Read-F



Swadesh



Sidko



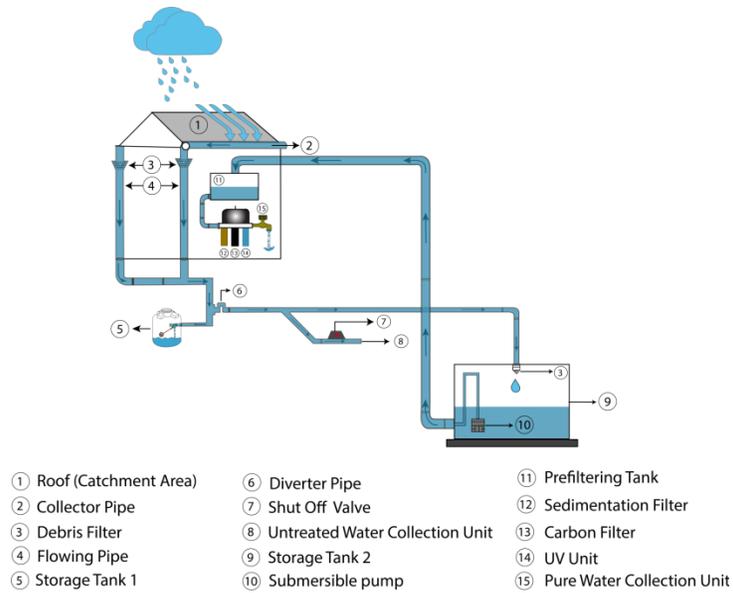
Sono

Process Name: BCSIR Mineral Water



Developed by: Md. Ahedul Akbor (SSO), Md. Ripaj Uddin (SO), Shamim Ahmed (PSO), Rokaia Sultana (SO), Shahanaz Sultana (SO), Shakila Akter (PSO), Md. Abu Bakar Siddique (SSO), Muhammad Abdullah Al Mansur (PSO) and Md. Aminul Ahsan (CSO)

Process Name: A Process for the Production of Drinking Water by First Flush Rainwater Harvesting System



Developed by: A.H.M. Shofiul Islam Molla Jamal (SSO), Shamim Ahmed (PSO), Md. Ahedul Akbor (SSO), Md. Abu Bakar Siddique (SSO), Sumon Chandra Debnath (SSO, PP & PDC), Shahnaz Sultana (SO) and Md. Ripaj Uddin (SO)

Patent

1. Preparation of anionic surfactant treated bentonite as adsorbent for water treatment.

Process

1. Preparation of calcium hydroxyapatite bio-ceramic material from egg shell.
2. Preparation of fluoroapatite from egg shell
3. Production of Herbal Body Wash
Ref. 39.02.0000.043.37.442.19/455 dated: 17.12.2020
4. 2. Production of oil from kernel of ripe mango
Ref. 39.373.037.01.00.269.2015/222 dated: 19.01.2016