

## Improving health of school students by providing arsenic and pathogens free safe drinking water at 20 selected schools in Nepal

**Status: Completed**

**Project Partner:** Dubai EXPO 2020 - live partnership fund, MIT, CAWST and schools

**Project Area:** 20 selected schools from arsenic affected districts

**Project Duration:** November 2013 – November 2015

### **Aim:**

To improve health of school students by providing arsenic and pathogens free safe drinking water through installation of large Kanchan Arsenic Filter (KAF).

### **Project Description:**

Due to lack of appropriate technology to treat arsenic and pathogens in large volume, most of the school children are still drinking unsafe drinking water in Terai. KAF was developed by MIT and ENPHO as innovative device to treat drinking water at household level. But ENPHO later modified KAF in larger volume which can treat arsenic, pathogens and remove iron from drinking water. In this context, ENPHO with



support from MIT and CAWST had submitted the application for EXPO live partnership fund announced by Dubai EXPO 2020. The proposed project to provide safe drinking water in 20 schools was selected for the implementation under the grant category of opportunity.

### **Project Outputs:**

- Built capacity of 10 local entrepreneurs on installation and monitoring of large KAF;
- Selected 20 arsenic affected schools at Nawalparasi and Kailali districts;
- Installed 20 large KAF in the selected schools;
- Performed monitoring and water quality analysis for arsenic and iron. The results showed 100% arsenic and iron removal;
- Formulated plan to conduct period monitoring and water quality analysis of those systems.

**Project achievements:**

- Provided arsenic free drinking water to more than 9,100 school students at 20 schools.

**Beneficiaries**

- More than 9,100 schools students at 20 arsenic affected schools