

Managing Water Resources through Campus Mapping



Gyan Mandir Public School, Delhi, India

Gyan Mandir Public School located in Delhi, India has been involved in several environment education and conservation activities such as moving towards being a zero-waste campus. Recognizing the water issues being faced by the region as well as across the globe, the school is attempting a systemic approach to manage water resources, with a goal of developing a model of water management as well as help students learn about managing local water resources. Managing water resources is one of the most crucial components of adapting to climate change.

The school has completed mapping of the campus, identifying various locations in the school where water is used, as well as the activities in those locations that require water. These are referred to as end uses. End-point consumption for various water uses was calculated and efforts were made to identify solutions for reducing water consumption. Tanks and water taps are periodically checked for any possible leakages. To ensure efficient use of available water resources, float valves have been installed in all the tanks to prevent overflow, a drip irrigation system was installed and is used to reduce water waste, water quality testing is being done, and a rooftop rainwater harvesting system was installed. The school conducts various awareness activities engaging students and in the nearby communities. Water conservation work of the Gyan Mandir Public school has also been recognized by several other organizations and some residents have begun household water management after being inspired by the success of the school's efforts.



28 Teachers



800 Students



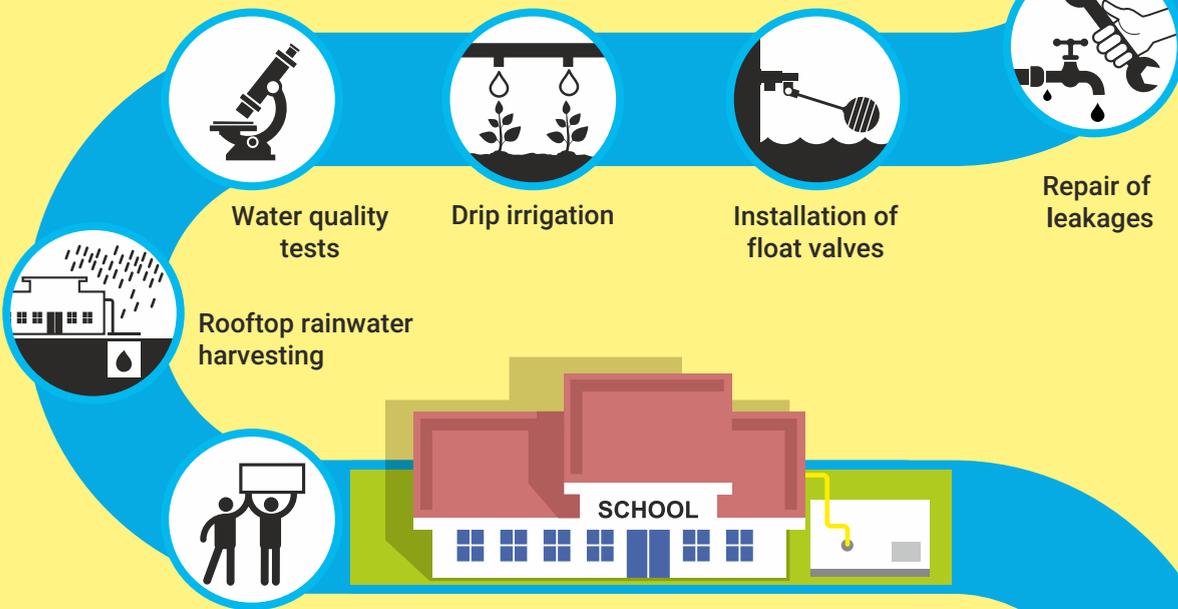
Mapping of water resources in the campus



Water usage

Water wastage and related issues

Systemic approach to manage and conserve water resources



Water quality tests

Drip irrigation

Installation of float valves

Repair of leakages

Rooftop rainwater harvesting

School and community level awareness activities for effective water management

Effective water management helped reduce water consumption from **55 Units to 36 Units** over a period of one year