

SCIENCE

Science Journals

Nepal rich in water resources, but facing water stress today

Organisations there working with partners including Spore researchers to tackle woes

Cheeryl Tan
In Singapore

Nepal, like Singapore, is one of the world's water-stressed countries by the world. But where Singapore lacks its

water, Nepal is rich in water resources. Nepal has abundant rivers and lakes, and its mountainous terrain provides a natural water reservoir. Nepal has abundant rivers and lakes, and its mountainous terrain provides a natural water reservoir. Nepal has abundant rivers and lakes, and its mountainous terrain provides a natural water reservoir.

How NTU is helping schools in Nepal to battle arsenic contamination

Cheeryl Tan
In Singapore and Nepal

When Mr Hanprasad Yadav, who lives in rural Nepal, started drinking water from a well, he did not think much of the health implications. But then he was told that the water was contaminated with arsenic, a substance which would become a serious health concern for his family. He had to stop drinking the water and look for other sources.

NTU is providing a solution. Dr Mahajan has been working with scientists from the National Environmental and Water Research Institute (NEWRI) to install water filtration systems in schools in Nepal. As part of a collaboration, NEWRI and NTU have installed water filtration systems in several schools in Nepal. The first school was installed in Saranwati Secondary School in 2010.

These living in the Newari region had been drinking from shallow wells, or in the traditional dugwells, through the use of hand pumps. This is where the arsenic contamination is the most serious. A report from Singapore's Nanyang Technological University

has found that in certain sections of the river, the water is highly toxic to human cells, and that there is an accumulation of pharmaceuticals, including antibiotics, which could be harmful to the environment. The water is highly toxic to human cells, and that there is an accumulation of pharmaceuticals, including antibiotics, which could be harmful to the environment.

Now, organisations in Nepal are working with various partners, including researchers from Singapore, to help the country safeguard its water resources. The first school was installed in Saranwati Secondary School in 2010.

THREATS TO WATER SECURITY

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Left: The Pashupatinath Temple, a UNESCO World Heritage site in Kathmandu, on the banks of the highly polluted Bagmati River.

Above: A recreation ceremony taking place at the temple by the water's edge. The festival, which runs through Kathmandu Valley, is viewed by locals and tourists as the water is thought to be holy.

Right: Children at a public water supply in Patan, both sources are part of an ancient water distribution system that was greatly affected by the earthquake in Kathmandu.

Dr Mahajan Mahajan, a programme director of non-profit organisation Health and Environment Development, Nepal (HED-Nepal) and a research assistant collecting samples near the Pashupatinath Temple to assess the physical and chemical characteristics, and the microbiological quality of the Bagmati River water.

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What's happening nowadays is that you often get a very heavy downpour in a single day, but dry weather during the rest of the week.

Another IPCC report published in August last year warned that the water cycle has been intensifying and will continue to do so in the future. The report says that by the end of the century, there will be a decrease in the number of days with heavy rain, but an increase in the number of days with heavy rain. The report also says that there will be a decrease in the number of days with heavy rain, but an increase in the number of days with heavy rain.

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