



WATER AND SANITATION

MARCH IS WATER AND SANITATION MONTH



Protecting lives

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"Clean water, the essence of life and a birthright for everyone, must become available to all people now."

Jean-Michel Cousteau

Rotary   www.rotary.org



CURRENT SITUATION

3 Crore kids in India have no toilet facilities in schools.
Source : UNICEF

53.1% households in India do not have toilets.
Source: Census, 2011

RESULT

Increase in School Dropout Rate | Poor Hygiene | Vulnerable to abuses
To avoid this she just HOLDS and thinks.

OUR SOLUTION

Construction of Toilets | Maintenance & Upkeep | Sanitation & Hygiene Education

 Rotary 



There are millions of people all over the world who don't have access to water, or, if they have access, that water is unable to be used. About 70% of the Earth's surface is covered with water and 3% of it is actually fresh water that is fit for human consumption. Around two-thirds of that is tucked in frozen glaciers and unavailable for our use. According to [WWF](http://www.wwf.org), some 1.1 billion people worldwide lack access to water scarcity and a total of 2.7 billion find water scarce for at least one month of the year.

Situation in India is expected to worsen as the overall population is expected to increase to 1.6 billion by year 2050. Children in 100 million homes in the country lack water, and one out of every two children are malnourished. Regardless of improvements to drinking water, many other water sources are contaminated with both bio and chemical pollutants, and over 21% of the country's diseases are water-related. Furthermore, only 33% of the country has access to traditional sanitation.

Causes of Water Scarcity

The problem of water shortage in many parts of the country is increasing by the day because of 1) Overuse of Water 2) Pollution of Water 3) lack of good sewage system 4) Conflict 5) Distance

When the water is scarce, you don't have proper Access to Drinking Water: which results in :-

Hunger: for both people and animals that are located in the area.

Lack of Education: children either become too sick to go to school or they are working to help get water to the home and the family.

Diseases: Whether you're drinking the water or using it for bathing, water-borne pathogens will get into the body and cause diseases. In a number of cases, the people carrying those diseases will pass away.

Sanitation Issues: Without access to clean water, there is no way to clean food, dishes, or people. It also causes mental health issues, including depression and anxiety.

Poverty: All in all, people who are dealing with water scarcity are often stuck in poverty as well. These people are not able to get the resources that they need in order to be able to thrive, and instead are just barely surviving through these difficult times.

Quality of drinking water is also a major issue in NE. Ground water is contaminated with arsenic and fluoride and government intervention has not been effective.

Sikkim and **Assam** have more than 40% of the population having access to safe drinking water within their homes. **Manipur** and **Mizoram** are the worst performers in this area as only 15% of the population have access to safe drinking water

Clean water and sanitation is a human right. When people, especially children, have access to clean water, sanitation, and hygiene, they lead healthier and more successful lives.

Rotary Mission

Rotarians just don't build wells and walk away. Rotary members integrate water, sanitation, and hygiene into education projects. When children learn about disease transmission and practice good hygiene, they miss less school. And they can take those lessons home to their families, expanding Rotary's impact.

Recycle Water: There are plenty of technologies out there that allow you to recycle rainwater and other water that you may be using in your home. Consider learning about how you can recycle water. Not only does it help to prevent scarcity, but it can save you some money as well. Rain water harvesting is an example.

Water Conservation: Advance Technology has been developed in the world of water **conservation in many countries & it needs to be ensured that the rest of the world is able** to conserve water. Putting money and effort into conservation could be life saving.

Improve Sewage Systems: Clean drinking water starts with a good sewage system. Without proper sanitation, the water in an area becomes ridden with disease and any number of other problems. By improving the sewage systems in these areas, we can prevent water scarcity from becoming any worse.

Support Clean Water Initiatives: There are organizations located all over the world that are looking to bring clean water to areas that don't have it. Consider donating to these organizations, either with your time, your skills, or your finances (whichever you can afford to give to them).

What the Rotary Clubs are doing around the world?

Strengthening the ability of communities to develop, fund, and maintain sustainable water and sanitation systems.

Providing equitable community access to safe water, improved sanitation, and hygiene.

Supporting programs that enhance communities' awareness of the benefits of safe water, sanitation, and hygiene.

Support career-minded professionals' studies related to water and sanitation.

Create tools and resources that facilitate, measure, and enhance high-quality water and sanitation projects worldwide.

1500/- is all it takes to provide one person with safe water

23million people IN THE WORLD now have safe water because of Rotary

21million people have access to sanitation and hygiene thanks to Rotary projects

2030 is the year Rotary hopes to finish providing everyone with safe water, sanitation, and hygiene

SANITATION , WASH & WINS

Figures

- Nearly 130m households lack toilets.
- Only 32% of rural households have their own toilets and that less than half of Indian households have a toilet at home
- Of the 1 billion people in the world who have no toilet, India accounts for nearly 500m.
- Of the estimated billion people in the world who defecate in the open, more than half reside in India.
- Because India's population is huge, growing rapidly and densely settled, it is impossible even in rural areas to keep human faeces from crops, wells, food and children's hands.
- Ingested bacteria and worms spread diseases, especially of the intestine. They cause enteropathy, a chronic illness that prevents the body from absorbing calories and nutrients.
- According to the UNICEF, water-borne diseases such as diarrhoea and respiratory infections are the number one cause for child deaths in India.
- Children weakened by frequent diarrhoea episodes are more vulnerable to malnutrition and opportunistic infections such as pneumonia.

- UNICEF estimates that nearly 48 per cent of children in India are suffering from some degree of malnutrition.
- Hundreds of thousands of them die from preventable conditions each year.
- Faeces in groundwater spread diseases such as Encephalitis, Diarrhoea. Underweight mothers produce stunted babies prone to sickness who may fail to develop to their full cognitive potential.
- India fares worse on sanitation than a host of poorer places including Afghanistan, Burundi and Congo.
- With 638 million people defecating in the open and 44 per cent mothers disposing their children's faeces in the open, there is a very high risk of microbial contamination (bacteria, viruses, amoeba) of water which causes diarrhoea in children.
- Also, diarrhoea and worm infection are two major health conditions that affect school children impacting their learning abilities.
- Thankfully, that appears now to be changing. Shri Narendra Modi, India's Prime Minister, says building toilets is a priority over temples & has set a goal of ending defecating in the open by 2019.

WINS

- Only 53 per cent of the population wash hands with soap after defecation, 38 per cent wash hands with soap before eating and only 30 per cent wash hands with soap before preparing food. Only 11 per cent of the Indian rural families dispose child stools safely. 80 per cent children's stools are left in the open or thrown into the garbage.
- According to the UNICEF, hand washing with soap, particularly after contact with excreta, can reduce diarrhoeal diseases by over 40 per cent and respiratory infections by 30 per cent.
- Hand washing by birth attendants before delivery has been shown to reduce mortality rates by 19 per cent while a 4 per cent reduction in risk of death was found if mothers washed their hands prior to handling their newborns.
- Preventive tools such hand washing with soap is among the most effective and inexpensive ways to prevent diarrhoeal diseases and pneumonia.
- Poor wash causes diarrhoea, which is the second biggest cause of death in children less than five years

ROTARY MISSION

- Rotary has targeted schools & is trying for adequate, well-maintained water supply and hygiene facilities (WASH) which include proper toilets and hand washing basins in schools all across India.
- Schools provide an excellent opportunity for children and parents to learn about healthy hygiene practices
- The focus SHOULD BE on giving girls the knowledge and facilities necessary for good menstrual hygiene. It will ensure their dignity, privacy, educational achievement and their health.
- Awareness campaigns for mothers and caregivers about Hand washing with soap at critical times is important for protecting the health of the whole family. By being a role model, mothers and caregivers can also help instill in their children healthy hygiene practices, which will serve them for life.

Important

Some of the ways suggested to get involved as a club or as a Rotarian :

- Building safe, clean toilets in rural households
- Constructing girl toilets in schools
- Hygiene camps in schools and villages specially for the girls
- Active collaboration with the UNICEF for WASH
- Organizing camps to create awareness on the urgent need to change sanitation and hand washing habits
- Public campaigns, in schools and in the media, to explain the health and economic benefits of WASH & WINS
- Projects in Public private partnerships
- Working in collaboration with other NGOs
- Working for sustainable projects in partnership with corporate houses
- Apply for a Global grant with an International partner
- Procure WASH in schools project kit and distribute in schools
- Find a project to support on Rotary Ideas & submit to the District
- Digging bore wells//covered wells for the schools or the communities
- Providing water filtration plants to schools and communities
- Empowering the villagers with the low cost technology of filtration process
- Empower the villages, schools and the even the urban areas with any of following three technologies to remove arsenic and fluoride from the water and make it fit for drinking purpose.

- **Activated Alumina Reverse Osmosis Coagulation-Assisted Direct Filtration (Closest technology to Seccua Filtration).** The details of the technology is available with all PHE dept, DRL, Tezpur, NERIWALM, Tezpur
- **Celebrate World Water Day on 22nd March 2018** as a means of focusing attention on the importance of freshwater and advocating for the sustainable management of freshwater resources **The theme in 2018 is "Nature-based Solutions for Water".**
- **Observe world Toilet Say on 19th November** World Toilet Day is a day to raise awareness and inspire action to tackle the global sanitation crisis – a topic often neglected and shrouded in taboos. This year’s theme focuses **on how sanitation, or the lack of it, can impact on livelihoods. Toilets play a crucial role in creating a strong economy, as well as improving health and protecting people’s safety and dignity, particularly women’s and girls’.**
- **Celebrate Global Hand washing Day on 15th October** to promote hand washing with soap throughout the District.

Be A Donor

- **Chlorine Dispensers for Safe Water**
- The World Health Organization has promoted the use of dilute chlorine, an approach which not only disinfects water, but provides ongoing protection from recontamination for over 24 hours. It is a low cost technology for treating water
- **Ministry of Drinking Water and Sanitation** : This Ministry of the Govt of India is dedicated to the cause of better sanitation, building toilets, WINs. Clubs can assist the Ministry in implementing schemes and thereafter ensure maintenance.
- **Apply for a UNESCO-IHE scholarship** (for water and sanitation professionals)

Note :-

The partnership between The Rotary Foundation and UNESCO-IHE Institute for Water Education addresses the world’s water and sanitation crisis by increasing the number of trained professionals to plan and implement solutions in developing areas.

A limited number of scholarships are awarded each year for graduate students at UNESCO- IHE’s Delft campus in the Netherlands. Scholars receive a Master of Science degree in urban water and sanitation, water management, or water science and engineering.

The scholarships promote long-term relationships between Rotary members and graduates of the program.

- **Exhibit the CD of the catchy animated music video** put out by Unicef that urges Indians to “take the poo to the loo” using toilets and of better hygiene for children in school

Recycle Water

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WINS

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WASH in Schools Target Challenge

Clean water, better sanitation, teacher training, and hygiene education in schools can improve the health and education of children by creating a cycle of opportunity: improved education, increased school attendance, and improved academic performance.

What is the WASH in Schools Target Challenge?

The WASH in Schools Target Challenge is a pilot program created to motivate Rotary clubs to develop sustainable water, sanitation, hygiene (collectively referred to as WASH), and education projects using the expertise and resources available through two of Rotary's areas of focus: [basic education and literacy](#) and [water and sanitation](#).

The program will focus on measuring the impact that WASH and basic education and literacy initiatives have on school attendance. Rotary and UNICEF will recognize Rotary clubs and schools whose WASH in Schools projects achieve the benchmarks outlined below.

During the pilot phase, the program will run through July 2020 in five countries, all chosen for their strong, active involvement in school sanitation efforts: Belize, Guatemala, Honduras, India, and Kenya.

Recognition levels: A three-star approach

The first two levels (Rotary One Star and Rotary Two Stars) set benchmarks for water and sanitation facility upgrades, hygiene and menstrual hygiene education, and teacher training, along with key behaviour change components; the third level (Rotary Three Stars) emphasizes incorporation into government initiatives and curriculum enhancement. Rotary and UNICEF will recognize Rotary clubs and schools that meet the requirements for the second and third levels.

Rotary One Star: Rotary district governor recognition

Education: Teachers trained to teach hand washing, begin taking daily attendance, and supervise daily group hand washing at mealtimes.

Facilities: Establish low-cost, improved water supply, hand washing facilities, and gender-segregated toilets.

Behaviour change: Daily supervised hand washing before school meals and at group toilet times.

Management: Plans created for operational maintenance and menstrual hygiene management.

Rotary Two Stars: Rotary and UNICEF recognition

Education: Teachers trained in hygiene and menstrual hygiene management education. Improved attendance and follow-up with absent students.

Facilities: Safe drinking water is available. WASH conditions meet the pilot country's national standards.

Behaviour change: All students use the sanitation facilities at all times and actively participate in tasks to keep the facilities clean.

Management: Menstrual hygiene management plan implemented, and training provided to maintain sanitation facilities.

Rotary Three Stars: Rotary and UNICEF recognition

Education: WASH lessons integrated into curriculums, and complementary teacher training provided.

Facilities: WASH conditions meet national or World Health Organization standards, and regular maintenance is ensured.

Behaviour change: Community members involved.

Management: Continuous monitoring and evaluating to check compliance with national standards; data reported to government.

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