SUMMARY - EWB USA-1:

ENGINEERING WITHOUT BORDERS USA

University of Colorado Boulder

NEPAL

1.CONTACT DETAILS

They haven't mentioned any individual contact details. They provided a group email for queries.

Group Email: EWBCU.Nepal@gmail.com

2.PROJECT DETAILS

Since 2007, the EWB Nepal team has been working on several projects in Ilam and Godak in partnership with a local NGO, the Namsaling Community Development Center. The lack of access to drinking water continues to be a critical issue in Nepal. Also, girls in the community are unable to regularly attend school while menstruating. Along with technical engineering solutions, the team analyzes the sustainability and feasibility of implementing strong educational programs and projects to sustain water resources in future communities. This partnership of technical and educational solutions aims to promote a healthier and cleaner environment.

3. PROJECT GOALS & OBJECTIVE

Currently, The team is working with the rural municipality of Kalinchowk to implement and monitor 2-3 single home tap-stands as part of the "One Tap, One Home" initiative. The team will continue with these water access projects and plans to implement filtration systems in the near future. The team is trying to implement the menstrual hygiene management (MHM) latrine which will empower girls by providing the resources to better manage menstrual hygiene while at school.

1. Construction of sustainable systems that developing communities can own and operate without external assistance.
2. To empower communities by enhancing local, technical, managerial, and entrepreneurial skills.

4.CURRENT STATUS

In Summer 2018 our team built a water distribution system at the Balodaya Secondary School and a pilot home tap stand for the local government's One Home One Tap initiative. It is currently working to assess for a drinking water system project and on education programs to promoting female student menstrual hygiene management. The team is now working to develop the community of Kalinchok, Nepal.

5.FUTURE GOALS

The future goal is to partner with developing communities to improve their quality of life through the implementation of environmentally sustainable, equitable, and economical engineering projects.

SUMMARY- EWB USA-2:

ENGINEERS WITHOUT BORDERS USA
New York Professional Chapter

MISUUNI PROJECT

1.CONTACT DETAILS

They haven't mentioned the details separately they have given the group Email id for contact purpose:- Misuuni group: **email misuuni@ewbny.org**

2.PROJECT DETAILS

Misuuni is a community located about 70 kilometres southeast of Nairobi, Kenya on a semi-arid high plain covering. The project area is bounded by two intermittent streams: the Kathaana River to the east and a tributary of the Muvaa River to the west, known as the Usi Umu stream.

Like many communities in this region, there is inadequate access to potable water. The objective of the Misuuni Development Self Help Group (MDSHG) has been to improve access to potable water and prevent the debilitation of waterborne disease for the approximately 4,000 people scattered across the 12 square kilometre Misuuni program area. There is also a need to alleviate poverty. These issues are intertwined.

Residents of Misuuni collect water from a variety of sources, including shallow dammed impoundments, intermittent streams, boreholes, and/or rooftop rainwater catchment. Public

surface water sources (dams and intermittent streams) cost nothing but are unsanitary and unreliable. Groundwater from the MDSHG borehole is bacteriologically safe and costs a moderate amount. Private sources of groundwater may vary in price depending upon supply and demand as well as the excess capacity of the owner.

3.PROJECT GOALS AND OBJECTIVE

The current goal is to improve the rainwater harvesting (RWH) systems at two primary schools. The RWH projects are considered interim improvements while an overall water resources plan is assembled and a larger capital project for groundwater development is pursued. The larger project is currently in the planning phase and steps are being taken in parallel with the interim projects.

The project objective is to increase the quantity and quality of potable water available at the Misuuni Primary School while making routine operation and maintenance easier.

1. Install a more effective gutter system
2. Provide a first flush system
3. Install screens which can be easily cleaned
4. Use HDPE tanks configured in series to improve water quality

4.CURRENT STATUS

The new, Misuuni Primary School, RWH system was constructed in August 2018 and is currently serving the 285 students and staff. This construction consists of:

1. Four new 7,200 L HDPE tanks
2. New gutter, piping and appurtenances
3. Two concrete foundation pads constructed, each with two HDPE tanks and a first flush device.

5.FUTURE GOALS

In partnership with the MDSHG, EWB-NY aims to replicate this successful RWH system at a larger primary school in August 2019. This second school, the Miumbuni Primary School, has a population nearly double the Misuuni Primary School. The community has already contributed to this RWH project by installing a new metal roof in anticipation of new gutters, piping, and tanks anticipated in April 2019.

SUMMARY- EWB DELHI/NCR :

Delhi/NCR Region Chapter

1.Contact Details

Email: praveenramahujam@gmail.com

2.PROJECT DETAILS

This project started in March 2014 with its first field visit to Kadappakam village to interact with people and students of local school and members of TEWFI and to have complete detail from them and their inputs. With over 4 field visits and 10 meetings, we have made great progress in our project. Mr Sriram (Founder Karma Company), Mr Gokul (EWB Chennai President) & Student from SRM University, Sastha University is constantly working on this project to have the optimized solutions for various problems and to create a bus which meets all the expectations of a resident in the village.

3.CURRENT STATUS

The current progress of the project is

1)Decided about various equipment, need to purchase and have started talking to vendors for the same as soon as the CAD drawing is ready and will start their fabrications work firstly, all mechanical related then all the electrical and finally networking and interior design.

2) Purchased the bus which we will modify to meet our requirements. This Bus is Ashok Leyland LYNX 49 seater.

4.PROJECT GOALS AND OBJECTIVE

EWB Chennai Professional and student's chapter along with Karma Company (NGO) are working on this E- Classroom on wheels project to benefit the people of kadappakam a small village near Chennai where this bus will go to various schools to teach children apart from their regular course and create a completely different environment for them. This environment will be more interactive and fun as students will have a hand on experience on what they are taught. TEWFI (The East West Foundation of India) is currently operating one bus there this bus will aid further.

5.FUTURE GOALS

1) Install Solar Panels to meet the power need of our bus for which we have to install an Inverter to supply the electricity inside the bus and rolling shutter for protecting the solar panels

2) Interiors that encourage students to come and learn and to provide a whole new and fun-filled environment to study so that they develop their skills gain knowledge.

SUMMARY- EWB ARGENTINA:

Engineering Without Borders Argentina

Water in "El Negrito" Community

1.CONTACT DETAILS

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voluntarios@isf-argentina.org

2.PROJECT DETAILS

El Negrito is an isolated community of 60 people. Residents drink rainwater that they collect on their roofs and store in tanks. Before this project, they didn't have enough harvesting or storage capacity to fulfill their needs during droughts; they had to resort to other sources of water that are unfit for human consumption and move their animals several miles for them to drink. In addition, the area does not have an electrical system.

3. PROJECT GOALS & OBJECTIVE

1.Improving minimum supply of drinkable water.

2.Improving health and quality of life for residents.

3.Sharing knowledge, practices and experience with the community.

4.WHAT THEY DID:

They worked together with the community to build a rainwater harvesting system via rooftops and tanks in each home, which allow for storage; water reservoirs were expanded and enclosed for other uses and animal feed; a system to extract water from said reservoirs was installed; and distribution amongst homes with a community motorcycle was organized.

Current Status:*Finished*

No.of volunteers involved:*20*

No.of people benefitted: *60*

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