

AUG 03, 2015

ROTARY CLUB QUITO NORTE, QUITO-ECUADOR

ROTARY PERIOD 2015-2016

District Number 4400 (Qualified)

Drinking Water Systems-Pedro Vicente Maldonado, San Miguel de los Bancos, Andoas, Province Pichincha- Ecuador, and Latacunga, Province Cotopaxi-Ecuador.

OBJECTIVES

PLANNED ACTIVITIES

In a few short sentences, tell us your objectives for this global grant.

We will provide five water purification systems to get clean water to drinking, food preparation in 27 small Andean Villages and five schools. The systems which we previously installed are composed of both sand and activated charcoal filter for the raw water and it is dosed automatically with disinfectant agents such as calcium hypochlorite using for that a metering diaphragm. We will provide also back wash system in the village Andoas.

Who will be benefit from this global grant?. Provide the estimated number of direct beneficiaries.

The five water systems will go to schools and communities with a total of 113 students and 10.645 community inhabitants, and the back wash system to clean water taken from the river will benefit to 3.000 inhabitants.

Which of the following activities will this global grant fund?. (Select all that apply)

Humanitarian project

Humanitarian project

Where will the project take place?.

In Pedro Vicente Maldonado, San Miguel de los Bancos, Andoas and Latacunga, Provinces Pichincha and Cotopaxi -Ecuador.

Community

Three Andean Villages and schools Los Andes-Coronel Nicolás, Pasaje Rio Blanco-Ligdano Chavez and Santa Rosa-Corsino Duran.

Regional Parroquial San Antonio de Alaquez with 11 villages, and Regional Calatoa San Marcos with 12 villages.

Village Andoas.

City or Village

Pedro Vicente Maldonado, San Miguel de los Bancos and Andoas are located on the western slopes of the Andes mountains northwest of Quito and in Pichincha province to 50 and 100 miles from Quito. The altitude varies from 700 to 800 ASL. The villages are close the main highway from Quito to Esmeralda, a seaport on the North West coast of Ecuador.

Latacunga is located on the southern slopes of the Andes mountains south of Quito and in Cotopaxi province to 70 miles from Quito. The altitude varies from 1000 to 1100 ASL.

Country

Ecuador, South America.

When do you anticipate your project will take place?

From:

10/01/2015

Until:

01/31/2016

Outline your project implementation schedule

No	Activity	Duration
1.	Construction small houses for equipment	30 days
3.	Purchase of materials	15 days
4.	Construction filters	30 days
5.	Installation equipment	30 days

6. Test equipment operation at communities 14 days
7. Official delivery of water system to communities 2 day

SUSTAINABILITY

What community needs will your project address and how were these needs identified? Provide any relevant data or survey result.

The villages and schools have a complete absence of public potable water supply. The inhabitants must utilize raw water that has become contaminated by human and animals waste and other contaminated upstream from the villages. There are serious gastrointestinal problems, particularly for children. The villages and schools also use non potable water. There is low educational performance resulting partly from absence due to illness from water borne pathogens.

Water is delivered in trucks, buckets, or pipes from nearby rivers and streams. Some water is fetched manually by women in the community directly from water sources. Water can be made potable by boiling or adding of chemicals.

Installations of water system were evaluated with the communities as a need for provision of drinking water to villages and schools, since actually the inhabitant and students population consumes tap water without treatment. Meeting with local leaders and residents as well as with educational authorities and parents of the villages and schools were done, and they requested to our club drinking water projects, because the government didn't provide them any solution.

For Andoas village, will be necessary have an automatic backwash system because water taken directly from the river for drinking water system, contains a lot of sand and sludge that clog filters, forcing the community to clean them manually every week and stop for one or two days the potable water supply to the community. This is a complementary work to the water system installed by our club three years ago.

Detail how your project will address these community needs.

The water will be used for direct drinking and food preparation satisfaction of domestic needs, such as personal hygiene and cleaning materials or equipment. From our experience in similar projects, we are certain the five water systems will provide the recipients with better health outcomes, fewer days of absence from work and school, and more productive days in the communities.

How were members of local community involved in planning the project? Does your project align with any current or ongoing local initiatives?

The benefiting communities will be providing labor and materials for installation of equipment and the construction of the small building to house the equipment at each site. This contribution is

value in US\$ 10,000. After the project is completed it is the responsibility of the local community to operate and maintain the building and equipment.

Each village and school will enter into a legal agreement with the Rotary Club of Quito Norte, to operate and maintain the system. The leaders in the villages and schools will receive training from the contractor in operating and providing good maintenance of equipment. If any problems develop, the leaders can call the contractor to receive help solving any technical problems.

Describe any training, community outreach, or educational programs, if applicable, and who will conduct them. How will recipients be selected?

The Rotary Club of Quito Norte has installed eighty units of drinking water in one hundred different places since year 2006, systems that in most cases are operating properly. The Club has hired in the years 2010 and 2013, the revision of each one of equipment with very satisfactory result of these inspections. The Club has the goal to do review by independent contractor each four years all installed system, to verify good operation of them. In this new Global Grant, we are including the cost to review 33 drinking water systems.

Community's leaders and representatives of schools must enter into a written agreement with the Rotary Club of Quito Norte prior to installation of the equipment. The agreements require the communities and schools, to maintain the systems.

A plasticized copy of the agreement and clear instructions how to operate the equipment are posted to the inside wall in each equipment building. Villagers trained by the engineers are reminded of their duties each time they enter the treatment facility.

The club will remain in contact with the villages and schools and will visit each site with the club members or another independent person who will verify that the systems are in use and the equipment is in good working condition.

Annual cost of operation per each place depends of size of equipment, but the average cost per person per year is US\$ 0.93. Money is available in the villages or schools budgets for this expense. The equipment is guarantee by the contractor for one year, but these equipments could be in operation during at least 10 years without any problem. The contractor will change any spare parts needed at no charge the communities and schools during the warranty period.

The overall experience of sustainability of the different projects done by our Rotary Club has been very successful, as concluded of visit made to all systems in November 2010 and May 2013.

Our Rotary Club of Quito Norte has monitored the use and correct maintenance of all water treatment systems doing periodic visits. The Rotary Club of Quito Norte conducted two technical inspections one in 2010 and another in 2013 to all systems installed in villages and schools to

verify normal functioning of the systems, finding that with few exceptions, all equipment are operating properly. With this new Global Grant, we are planning to visit 33 systems installed by us.

As mentioned, at the time of delivery of the project documents will be signed to the care and maintenance equipment and civil works.

For installation of project of drinking water, the contractor Sehicoci give oral and practical training operation at least to 3 people chosen by the community in each site to ensure that equipment and facilities are used properly and done on time preventive and corrective maintenance to ensure that projects are in operation all the time.

After a year of warranty, the villages and schools will handle the costs of operation and maintenance of treatment systems. The contractor Sehicoci warrants a permanent stock of spare parts and immediate assistance. To facilitate communication with the user of the system installed, in the equipment goes a sticker with the necessary information such as phone number, emails.

The operating cost is quite low and it is paid by all members of the communities, as well as the repairs that have to be made one year after the equipment were installed, with the technical support of the contractor Sehicoci.

AREA OF FOCUS

Area(s) of focus (select all that apply)

Water and sanitation.

Which goals will your activities support?

Providing equitable community Access to safe water, improved sanitation and hygiene, strengthening the ability of communities to develop, fund and maintain sustainable water system. Supporting programs that enhance communities' awareness of the benefits of safe water, sanitation and hygiene.

How will you meet these goals?

Providing safe drinkable water at the villages and schools will lessen the gastrointestinal diseases allowing them to attend work and schools more regularly.

Normally we do 10 and 15 health surveys of residents of each community including teachers. On the other hand, teachers in college and schools are committed to promote the standard of hygiene and drinking water use in their class's students.

The day of the official delivery of drinking water systems, we have a meeting with an important number of residents, in which we read the rules of hygiene and water drinking use. We give to resident attending the meeting written information about this issue.

80 drinking water systems had been installed for 100 different communities by Rotary Club Quito Norte in conjunction with the company SEHICOCI our contractor, in all project, the contractor had given talks on the care and proper use of drinking water, prevention to avoid infections and contaminations of water sources, hygiene standard rules, so the inhabitants of the communities changing way of life on the positive side (health and food). Besides brochures, posters, interactive multi-media CD inherent health standard and proper use of drinking water are delivered.

How you will measure your impact?

Note that global grant sponsor of approved applications will be expected to account for the total number of direct beneficiaries in the final report.

	Measurement Method	Measurement schedule
No Measure		
1: Other: (we will perform a health survey of the Communities when is installed and again at the time of each four year visit).	Surveys/ questionnaires	each four years
2: Number of people with access to improve source Of drinking water	Testing	
3: Other: (In Subsequent visits to the sites where They have installed water systems; we repeat the health surveys to compare with the initial survey and see the progress on the health of community residents).	Surveys/ questionnaires	each four years

Who will be responsible for collecting information for monitoring and evaluation?

The Rotary Club of Quito Norte with the help of the contractor, SEHICOCI, who is in contact with the communities if they have any problems with the equipment. The communities will have the results of all tests of equipment and water which they will be required to show it is necessary at any time.

PRIMARY CONTACTS

Name	Club	District	Sponsored by	Serving as	Role
Juan Faini	Quito Norte	4400	Club	Host	Primary Contact
Susana Falck	Muncy	7360	Club	International	Primary Contact

COMMITTEE MEMBERS

No Rotarian who has a vested interest in the activity (e.g., an employee or board member of a cooperating organization, owner of the store where project goods will be purchased, trustee of a university that scholar plans to attend) may serve on the grant committee. If any potential conflict interest exists, disclose it here.

Name	Club	District	Role
Gustavo Alzate	Quito Norte	4400	Secondary Host Contact
Fernando Vallejo	Quito Norte	4400	Secondary Host Contact

Name	Club	District	Role
Ed Knight	Rancho Bernardo	5340	Secondary International Contact
Carl Askew	Sunbury	7360	Secondary International Contact

ROTARIAN PARTICIPATION

Describe the role of the host Rotarians in this activity and list their specific responsibilities.

Rotarians from the Rotary Club of Quito Norte have visited the communities where projects will be made to verify the actual need for them. They will be overseeing the work of the contractor. They will participate in the delivery of the water equipment to the communities. Further, they will publicize the project by creating official events for the opening of each water system in the communities. They will generate publicity of these events in the local newspaper, local TV and on the website of the Rotary Club of Quito Norte.

Describe the role of the International Rotarians in this activity and list their specific responsibilities.

They will be in contact by phone and email with the host club in Ecuador to receive reports of the projects. International Rotarians will visit the projects in the summer of 2014 to see the communities where the project will be done. The International Rotarians will publicize the project as well through the local media in Pennsylvania and California and through a presentation by the host Rotarians at the District 7360 Conference in April 2015.

SUSTAINABILITY

Describe the role that members of the local community will play in implementing your project. What incentives (e.g., compensation, awards, certification, and promotion) will you provide to encourage local participation?

The benefiting communities will be providing labor and materials to installation of the equipment and the construction of the small building to house the equipment at each site and facilities to install back wash system. The contribution is valued at US\$ 10,000.00. After the project is completed it is the responsibility of the local community to operate and maintain the building and equipment.

Each school and village will enter into a legal agreement with the Rotary Club of Quito Norte to operate and maintain the system. The leaders in the schools and villages will receive training from the contractor in operating and providing good maintenance of equipment. If any problems develop, the leaders can call the contractor to receive help.

The Rotary Club of Quito Norte has so far installed eighty similar water systems in 100 different places, has conducted with the help of the contractor visits all sites to verify the correct functioning of water systems. The result has been very satisfactory. Only in a few cases the contractor found that the equipment was not working due to small defects. The Rotary Club has helped to correct them with the contractor. Most systems functioned in perfect condition.

Identify any individual in the local community who will responsible for monitoring outcome and ensuring continuity of services. How will you support these individuals to help them take on this leadership role?

The contractor will give training to at least three members of each community in the management of the drinking water systems to ensure that the equipment is operated and maintained correctly. The contractor will also be accessible to that community on an ongoing basis in order to resolve technical concerns.

BUDGET

Detail your proposed expenses by adding items to the budget. Note that the total budget must be equal to the total financing of your activity.

No	Description	Supplier	Category	Local cost USD	Cost in USD
1	Equipment for water treatment (Incl, taxes)	SEHICOCI	Equipment	\$ 68.262	\$ 68.262
2	Water's Laboratory analysis		Test	\$ 252	\$ 252
3	Rotary Labels 5 places			\$ 616	\$ 616
Total Budget				\$ 69.130	\$ 69.130

SUPPORTING BUDGET DOCUMENTS

SUSTAINABILITY

Describe the process for selecting these budget items. Do you plan to purchase any items from local vendors? Have you performed a competitive bidding process to select vendors? Do these budget items align with the local culture and technology standards?

The contractor who was selected by the club has worked on similar projects with the host club in the last 9 years. They have demonstrated their professional competence, the compliance in the execution of the works and their competitive pricing according to quality of equipment and to market. The equipment is imported from the US and was chosen for easy operation and the easy of repair in case of damage.

The company on the first project done back in 2005 was selected among other local companies.

Yes the budgets align with the local culture and technology standards.

In this budget are all costs to implement projects. We will have lower costs as visiting Rotarians to oversee the works and for the final delivery of projects to the communities, but these costs are no necessary to include in the project budget, since they will be covered with funds from Rotary Club of Quito Norte in some cases and with the funds contributed by club members.

The estimates annual maintenance cost per person is in average US\$ 0.93, a value that is funded by the users of the systems. There is a consumption meter installed in each community to their respective homes, so that consumption in cubic meters is converted to dollars by a value set by Water Board. This value is charged to each user monthly family system for payment, which communities generate funds to keep the system working properly. The person in charge to operate the water system is chosen by the Water Board of the Community.

How will the beneficiaries maintain these items? If applicable, confirm that spare or replacement parts are readily available and that the beneficiaries possess the skill to operate the equipment.

Community members will receive appropriate training from the contractor on how to operate the equipment and how to maintain it. Spare or replacement parts are available to buy in the local market or with the contractor.

At the time of delivery of the project, documents will be signed by Rotary Club of Quito Norte and each of the communities and educations centers in which beneficiaries are committed to the care and maintenance equipment and civil works.

For installation of projects of drinking water, the contractor Sehicoci give oral and practical training operation at least to 3 people chosen by the community in each site to ensure that equipment are used properly and done on time preventive and corrective maintenance to ensure that projects are in operation all the time.

After a year of warranty, the villages and schools will handle the costs of operation and maintenance of treatment systems. The contractor Sehicoci warrants a permanent stock of spare parts immediate assistance. To facilitate communication with the user of the systems installed, in the equipment goes a sticker with the necessary information such as phone number, emails.

The operating cost is quite low and it is paid by all members of the communities, as well as the repairs that have to be made one year after the equipment were installed, with the technical support of the contractor Sehicoci.

Who will own the items purchased with grant funds at the end of the project, including equipment, assets and material? Note that items cannot be owned by the Rotary club or Rotarian.

Communities and schools own the equipment and facilities of the drinking water systems.

FINANCING

No	Funding Method	Organization	Amount (USD)
1	District Designated Fund (DDF)	4400	1679
2	District Designated Fund (DDF)	5340	6000
3	District Designated Fund (DDF)	7360	20000
5	Cash from club	Quito Norte	100
6	Cash from club	Rancho Bernardo	5000
7	Cash from	Escondido	1000
8	Cash from	Hawthorne	3000
		DDF contributions	27679
		Cash contributions	9100
		World Fund match (maximum)	32229
		World Fund match (requested)	32229
		Total financing	69008
		Total budget	69008
		Dif	0

SUSTAINABILITY

Have you identified a local funding source to ensure long term project outcomes? Will you introduce practices to help generate income for ongoing project funding?

Communities with their own funds will take care of the maintenance of the systems.

Quito Norte Rotary Club will help with its own funds in buying some materials and expenses that involve visiting communities during the process to make the projects and the official delivery of systems to the communities.

LEGAL AGREEMENT

Name	club	District	Date Authorized
Susana Falck	Muncy	7360	
Cristobal Sarzosa	Quito Norte	4400	

AUTHORIZATIONS

DRFC Authorizations

Role	District	Name	Auth. Status	Auth. Date
District Rotary Foundation Chair (DRFC)	4400	Erwin Velasco Izquierdo		
District Rotary Foundation Chair (DRFC)	7360	Susana Falck		
District Rotary Foundation Chair (DRFC)	5340	David Breeding		

DDF Authorizations

Role	District	Name	Auth. Status	Auth. Date
District Governor (DG)	4400	Manuel Nieto		
District Rotary Foundation Chair (DRFC)	4400	Erwin Velasco Izquierdo		
District Governor (DG)	7360	XXXXXXXXXXXXXXXX		
District Rotary Foundation Chair (DRFC)	7360	Susana Falck		
District Governor (DG)	5340			
District Rotary Foundation Chair (DRFC)	5340	David Breeding		

Primary Contact Authorization

Role	District	Name	Auth. Status	Auth. Date
Primary Contact	7360	Susana Falck		

Primary Contact

4400 Juan Faini