Construction of a drinking water system Puerto Escondido Village, Olanchito

Rotary

Club Rotario Olanchito

INTRODUCTION

The community does not have a drinking water service. It is currently supplied by a well with community manual pumping equipment, forcing all the neighbors to store water inside the house, causing water-borne diseases due to the unhealthy conditions in which they do so, which affects the majority of the inhabitants. Health, both individual and collective, is the result of the complex interactions between the biological, ecological, cultural, economic and social processes that occur in society. It is the product of the interrelations established between man and the social and natural environment in which he lives. In addition, health depends on the natural conditions where society develops, the climate, the soil, the location and the geographical characteristics and the available natural resources. For this reason, the inhabitants have prioritized the management of the drinking water system before the authorities of the Olanchito Rotary Club.

PROJECT NAME

Construction of a pumped drinking water supply system in the community of Puerto Escondido, Olanchito, Honduras.

APPLICANT DATA

OLANCHITO ROTARY CLUB

Contact Telephone Email Contact 1 Marco Girón 9726-7354 marcogiron_20@yahoo.com

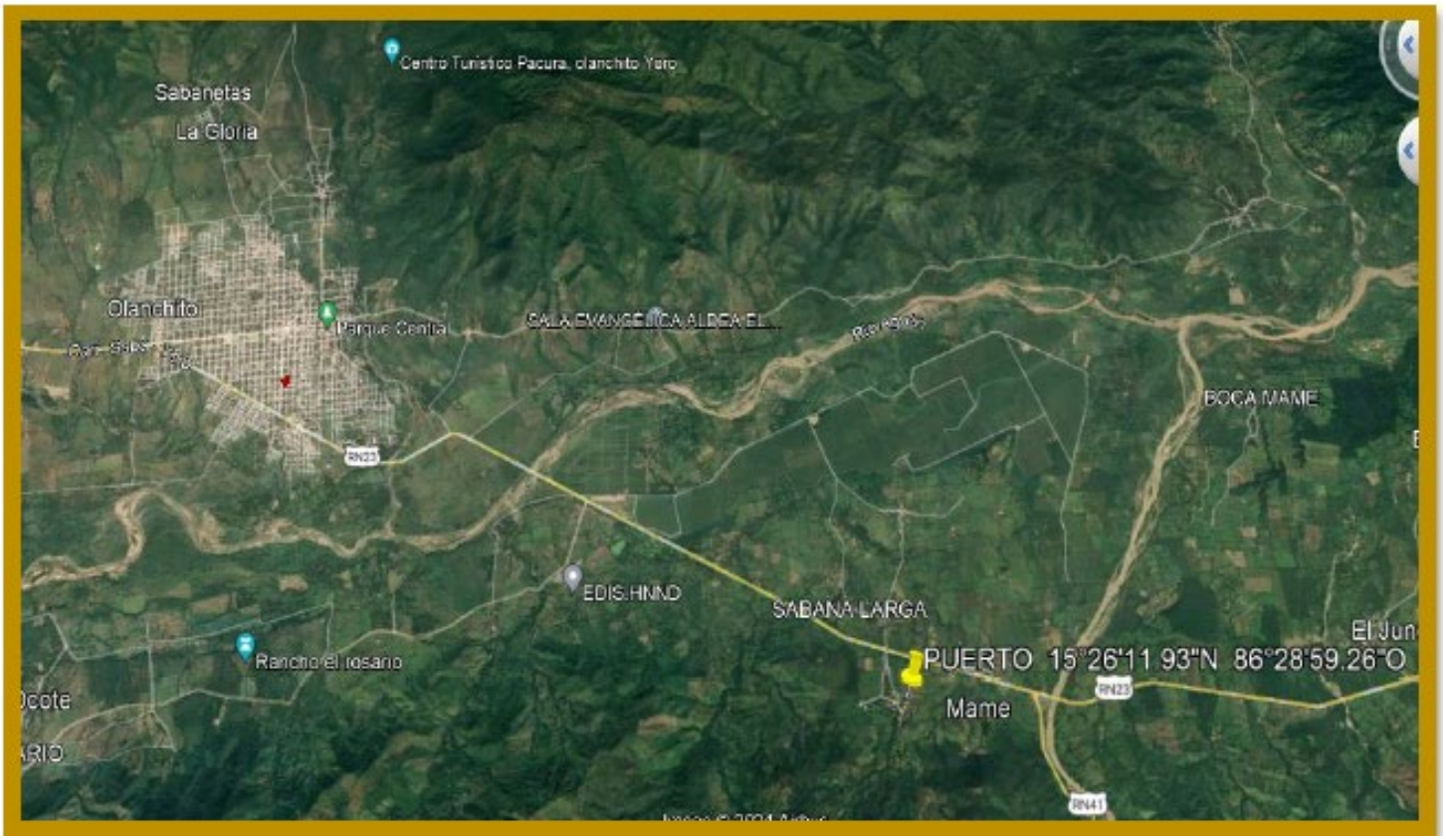
Contact 2 Osman Guardado 9490-3312 osmanguardado@hotmail.com

Contact 3 Manuel Quintanilla 9935-4598 manuel1087@hotmail.com

Contact 4 Carolina Ventura 3300-4538 carolinaventuramolina@yahoo.com

LOCATION: Located in the community of Puerto Escondido. Micro Location The project is located in the rural area of the city of Olanchito.

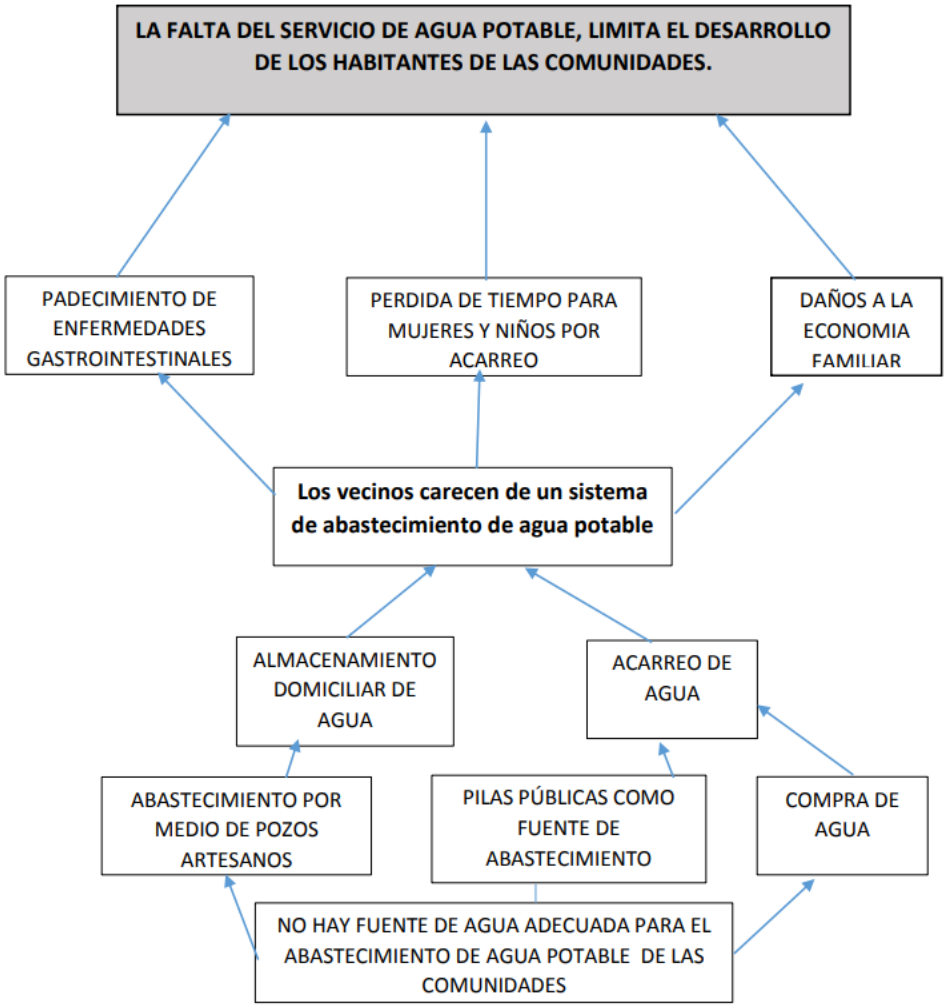
Macro Localización:



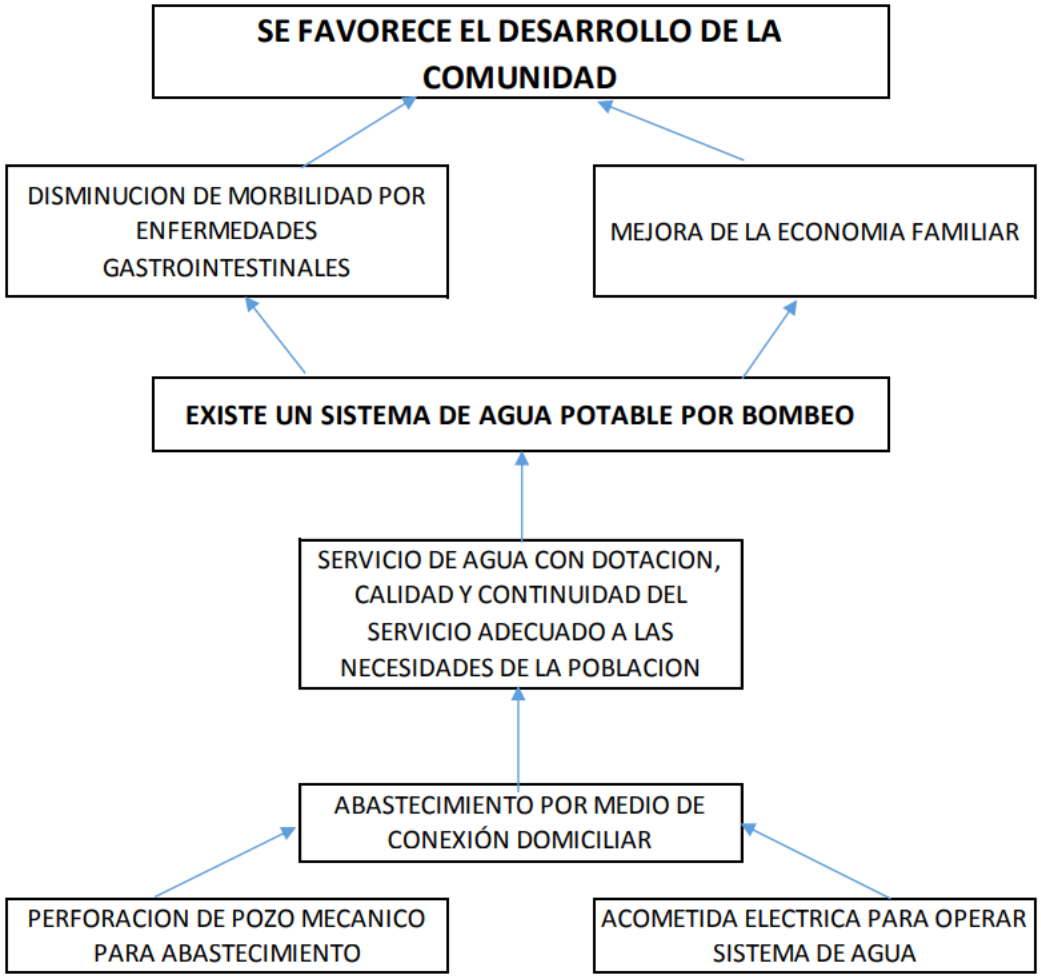
IDENTIFICATION OF THE PROBLEM TO BE SOLVED

The community does not have drinking water service. It is currently supplied by a well with manual pumping equipment located in the park. From here, residents carry the vital liquid to their homes with buckets. This forces all residents to store water inside their homes, causing waterborne diseases due to the unhealthy conditions in which they do so, which affects the majority of residents.

PROBLEM TREE



OBJECTIVE TREE



BRIEF DESCRIPTION OF THE PROJECT

The project consists of the construction of a Drinking Water System by means of the drilling of a new well in the community of Puerto Escondido, which will have a depth of 300 - 350 feet, a pressure conduction line of 800 meters, a storage tank of 10,000 gallons.

PROJECT EXECUTION PERIOD

This project will have a duration of approximately 5 months from the moment all the economic resources are available.

PROJECT JUSTIFICATION BACKGROUND In the village of Puerto Escondido, there is currently no drinking water service that covers the needs of the entire community to satisfy the demand for the vital liquid. To solve this situation, it is necessary to build a drinking water supply system. In addition, the entire community is willing to assume the economic cost of the electricity consumed by the operation of the system, guaranteeing the sustainability of the project, as well as the willingness to provide unskilled labor for the execution of this project. With the drilling of a mechanical well to supply the system with water for human consumption, the villagers will benefit from improved health and economic conditions, since the new system will supply water suitable for human consumption, in quantity, quality and continuity according to their needs. The storage of water inside the home will be eliminated and will contribute to reducing water-borne diseases that are currently affecting the population, since the service will be available 24 hours a day, since the flows that will be pumped during the periods of operation of the pumping equipment, together with the storage volumes of the tank guarantee the service during the hours of maximum demand. Likewise, both women and children will have time to dedicate themselves to other types of tasks (work, study, training) since they will no longer invest time in carrying the vital liquid.

PROBLEM THAT THE PROJECT PROPOSES TO SOLVE

With the execution of this project, it is intended to solve health and sanitation problems, with an uninterrupted drinking water service, in addition to improving the possibilities of living healthily so that children in the community can attend school, and not be absent due to illness, and adults can go to work without wasting time carrying water.

PROPOSAL GENERAL OBJECTIVE

Execute the project to build a drinking water supply for the community of Puerto Escondido in the municipality of Olanchito, department of Yoro. Improving the economic and health conditions of the inhabitants of this community, guaranteeing the supply at the home level in quantity, quality and continuity according to the needs of the population.

SPECIFIC OBJECTIVES a) Improve the health of the inhabitants by providing drinking water (disinfected with chlorine). b) Construction of pumping lines, storage tanks and distribution network to supply the 141 domestic connections that will be installed in the same number of homes, thus eliminating the transport and domestic storage of water in 100% of the homes in the community.

CONSTRUCTION OF DRINKING WATER SYSTEM IN PUERTO ESCONDIDO VILLAGE, OLANCHITO BASIC ACTIVITIES 1. Well drilling. 2. Well cleaning and gauging. 3. Excavation and installation of pipes. 4. Construction of Tank. 5. Construction of Pumping Station Booth. 6. Installation of Valves. 7. Construction of Perimeter Fence (Tank and Well). 8. Installation of three public keys to supply water. 9. Electrical Installation and Single-phase Pump.

DIRECT AND INDIRECT BENEFICIARIES

The direct beneficiaries will be all the inhabitants of Puerto Escondido, men, women and children, with a total of 475 people. The indirect beneficiaries will be all those people who settle in the community or in the population expansion of the same.

IMPACT AND SUSTAINABILITY

The execution of this project of construction of supply of drinking water in the community of Puerto Escondido, generates a great impact in the whole community, since the population has scarce economic resources, for which reason they do not have the capacity to execute it, but they do have the resources to be able to pay for the services, regarding the use of energy and the maintenance of the same. For years they have managed this project without achieving it. In addition, we consider that it is a project that leads the community to development. It is a project that through its execution will not cause damage to the environment or the ecosystem in general. The population is aware that they will pay a monthly fee for the drinking water service, which will be used to pay for the electricity consumption of the

CONSTRUCTION OF DRINKING WATER SYSTEM IN THE VILLAGE OF PUERTO ESCONDIDO, OLANCHITO operation of the pump and the maintenance of the entire system, which is why it is considered a sustainable project over time.

EXPECTED RESULTS

results that the community expects through this project are the obtaining of: 1. Installation of pipes. 2. Construction of a Tank. 3. Construction of a Pumping Station Booth. 4. Construction of a Perimeter Fence (Tank and Well). 5. Installation of water intake valves.

PROJECT BUDGET

1.00 STUDIES, DESIGNS AND PLANS UNIT 1.00 L60,000.00 L60,000.00

2.00 MINOR TOOLS, FOR NETWORK EXCAVATION GB 1.00 L15,000.00 L15,000.00

3.00 PERIMETER FENCE IN THE AREA OF THE WELL AND PUMPING HOUSE ML 40.00 L3,000.00 L120,000.00

4.00 WELL DRILLING FT 350.00 L1,500.00 L525,000.00

5.00 SUPPLY AND INSTALLATION OF WELL EQUIPMENT PUMPING GB 1.00 L166,000.00 L166,000.00

6.00 EXCAVATION FOR PIPELINE ML 2000.00 L50.00 L100,000.00

7.00 SUPPLY AND INSTALLATION OF PIPELINE FOR DISTRIBUTION NETWORK 2"- 1 1/2"- 1" - 1/2" ML 1800.00 L250.00 L450,000.00

8.00 SUPPLY AND INSTALLATION OF PIPELINE FOR 4" PIPELINE ML 100.00 L1,200.00 L120,000.00

9.00 CONSTRUCTION OF STORAGE TANK 10,000 GALLONS UNIT 1.00 L227,597.21 L227,597.21

10.00 PUMPING STATION CONSTRUCTION UNIT 1.00 L120,000.00 L120,000.00 SUB TOTAL L1,903,597.21

ADMINISTRATIVE EXPENSES 10% L190,359.72

TOTAL PROJECT COST $83,758.28 L2,093,956.93

Item	Descripción	Unidad	Cant	COSTO U.	TOTAL
1.00	ESTUDIOS, DISEÑOS Y PLANOS	UND	1.00	L60,000.00	L60,000.00
2.00	HERRAMIENTAS MENORES, PARA EXCAVACIÓN DE RED	GB	1.00	L15,000.00	L15,000.00
3.00	CERCO PERIMETRAL EN EL ÁREA DEL POZO Y CASETA DE BOMBEO	ML	40.00	L3,000.00	L120,000.00
4.00	PERFORACION DEL POZO	FT	350.00	L1,500.00	L525,000.00
5.00	SUMINISTRO E INSTALACIÓN DE EQUIPO DE BOMBEO	GB	1.00	L166,000.00	L166,000.00
6.00	EXCAVACIÓN PARA LÍNEA DE CONDUCCIÓN	ML	2000.00	L50.00	L100,000.00
7.00	SUMINISTRO E INSTALACIÓN DE TUBERIA PARA RED DE DISTRIBUCIÓN 2"- 1 1/2"- 1" - 1/2"	ML	1800.00	L250.00	L450,000.00
8.00	SUMINISTRO E INSTALACIÓN DE TUBERIA PARA LINEA DE CONDUCCIÓN 4"	ML	100.00	L1,200.00	L120,000.00
9.00	CONSTRUCCIÓN DE TANQUE DE ALMECENAMIENTO 10,000 GALONES	UND	1.00	L227,597.21	L227,597.21
10.00	CONSTRUCCIÓN DE CASETA DE BOMBEO	UND	1.00	L120,000.00	L120,000.00
	SUB TOTAL				**L1,903,597.21**
	GASTOS ADMINISTRATIVOS 10%				**L190,359.72**
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	COSTO TOTAL DEL PROYECTO			**$ 83,758.28**	**L2,093,956.93**

DISTRIBUTION OF CONTRIBUTIONS FOR THE EXECUTION OF THE PROJECT

CONTRIBUTION FROM THE OLANCHITO ROTARY CLUB Lps.60,000.00 $ 2,400.00

COMMUNITY CONTRIBUTION Lps.100,000.00 $ 4,000.00

EXTERNAL FINANCING TO THE CLUB Lps.1,933,956.93 $ 77,358.28

TOTAL COST OF THE PROJECT Lps.2,093,956.93 $ 83,758.28

PHOTOGRAPHIC MEMORY

See children collecting and carrying water to their school for consumption.

See municipal government staff helping to supply water to community residents by truck.

See existing water storage reservoirs.

See community residents carrying water to their homes.

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