

Rotary Club Zapopan presents the project:

Dry Toilets for indigenous communities GG 2235574

Did you know that by the end of this year there will be about 300 cases of disentery on the community of "Las Guayabas" due contaminated water?

# About "Las Guayabas"

"Las Guayabas" is a Wixarika indigenous community located in the northern highlands of the state of Jalisco.

- Distance to the Nearest City: 8 hours.
- Number of persons in the communitiy: 180
- Number of cases of dysentery per year due contaminated water: 300







### **Problem**

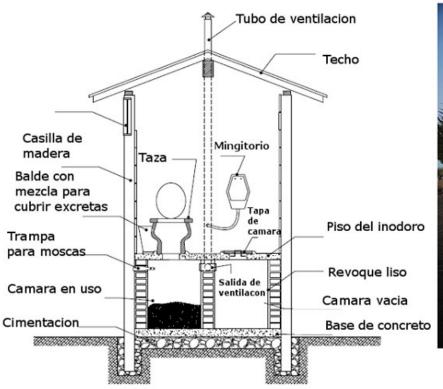


Families in the community do not have toilets or water in their homes. Derived from the above, much of its fecal waste ends up in nearby rivers.



### Solution

Implement dry toilets in the community that can operate without water





The members of the community will help with the labor to build the dry toilets.



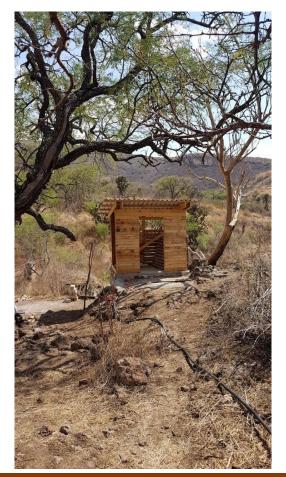
## **Solution**

#### We already build a prototype of a dry toilet that is working









### **Our Goal**

#### **Project Goals**

- Build 30 dry toilets in the community in order to decrease dysentery cases in 80 %.
- Provide environmental care and hygiene workshops to people in the community in order to help sustainability long term.
- The members of the community will help with the labor to build the dry toilets.

# Rotary Areas of Interest we are covering

- Prevention and treatment of diseases
- Water, sanitation and hygiene.
- Environment

# Total Budget: US\$56,248 dollars

- 75 % is what we are asking as an external support
- 25 % will be provided by our club



# Unit Costs per dry toilet

	CONCEPT	UNIT	VOLUME	UNIT PRICE	SUBTOTAL (PESOS)	DOLLARS
	POLIN MADERA 4"X4"X8FT	PZA	13.00	210.00	2,730.00	130.00
	BARROTE 2"X4"X8FT	PZA	8.00	120.00	960.00	45.71
	CEMENTO	SACO	6.00	192.00	1,152.00	54.86
	ARENA	M3	1.04	250.00	259.70	12.37
	GRAVA	M3	0.89	350.00	312.06	14.86
	ADOBE	PZA	211.20		-	-
	VARILLA 3/8	M	56.20	15.03	844.71	40.22
	ALAMBRE RECOCIDO	KG	8.00	33.10	264.80	12.61
	TUBO PVC 4" TRAMO 6M	PZA	1.00	520.00	520.00	24.76
	TAZA CON HERRAJES	PZA	2.00	2,275.00	4,550.00	216.67
	SILICON CARTUCHO	PZA	1.00	110.00	110.00	5.24
	MANGUERA NEGRA 1/2"	M	10.00	3.00	30.00	1.43
	PUERTA DE 1.0X0.60	PZA	2.00	950.00	1,900.00	90.48
	LAMINA GALVANIZADA 2X1.22	PZA	4.00	350.00	1,400.00	66.67
<del></del>	PUERTA 0.70X2.10	PZA	1.00	1,850.00	1,850.00	88.10
끨	CLAVO 2.5"	KG	4.50	49.00	220.50	10.50
2	CLAVO 4"	KG	2.00	37.16	74.32	3.54
<u></u>	CODO PVC 4"	PZA	2.00	35.00	70.00	3.33
8	T PVC 4"	PZA	1.00	45.00	45.00	2.14
甲	CODO PVC 1/2"	PZA	3.00	6.00	18.00	0.86
⊨	T PVC 1/2"	PZA	1.00	7.00	7.00	0.33
MATERIALS TO BUILD THE DRY TOILET	PEGAMENTO PVC Y CPVC 125ML	PZA	1.00	75.00	75.00	3.57
	CARRIZO O MADERA PARA MUROS	M2	15.64	210.00	3,284.40	156.40
O	PIJA PUNTA DE BROCA CON EMPAQUE	PZA	80.00	2.10	168.00	8.00
Ĕ	ABRAZADERA PARA MANGUERA DE 1/2"	PZA	5.00	14.00	70.00	3.33
ĘS	PALA	PZA	0.17	250.00	41.67	1.98
₹	PICO	PZA	0.17	350.00	58.33	2.78
띹	BARRA	PZA	0.17	450.00	75.00	3.57
ξ	CUCHARA	PZA	0.17	350.00	58.33	2.78
_	MANGUERA DE NIVEL	PZA	0.33	60.00	20.00	0.95
	HILO	PZA	0.33	45.00	15.00	0.71
	CEGUETA CON ARCO	PZA	0.33	180.00	60.00	2.86
	PISTOLA PARA CARTUCHO DE SILICON	PZA	0.17	80.00	13.33	0.63
	PISON	PZA	0.17	350.00	58.33	2.78
	MACHETE	PZA	0.17	125.00	20.83	0.99
	CIMBRA DE MADERA ARMADA PARA MUROS	PZA	0.50	850.00	425.00	20.24
	COLADOS DE 1.0X2.44	D74	0.50	222.02	400.00	40.05
	CIMBRA DE MADERA ARMADA PARA MUROS	PZA	0.50	800.00	400.00	19.05
	COLADOS DE 0.80X2.1	574	00.00	25.00	500.00	20.04
	SEPARADORES DE TUBO GALV PARA COLADOS	PZA	20.00	25.00	500.00	23.81
	CERRUCHO	PZA	0.17	250.00	41.67	1.98
	LAPIZ BICOLOR	PZA	1.00	9.00	9.00	0.43
	PINZAS PARA CORTAR ALAMBRE	PZA PZA	0.17	250.00	41.67	1.98
	NIVELETA	PZA	0.17	120.00	20.00	0.95
				TOTAL	<b>6</b> 00 770 00	-
				IOTAL	\$ 22,773.66	\$1,084.46

#### Transportation & Supervision

FRANSPOR'	TATION OF MATERIALS				PESOS	<b>DOLLARS</b>
	TRUCK TO DELIVER MATERIALS TO "LAS GUAYABAS" (VOLTEO 12M3 ENTREGANO EN LAS GUAYABAS	TRIP	0.40	9,000.00	\$ 3,600.00	\$ 171.43
ABOB (CIII	OFF) (ICION)				PESOS	DOLLARS
ABOK (SUI	PERVISION)					
	SUPERVISOR	JOR	10.00	650.00	\$ 6,500.00	\$ 309.52
	ASSISTANT	JOR	10.00	390.00	\$ 3,900.00	\$ 185.71
	SOCIAL SECURITY	-	-	-	\$ 2,600.00	\$ 123.81
					\$ 13,000.00	\$ 619.05

#### **TOTAL COST PER UNIT:**

CATEGORY	DOLLARS				
Materials	\$ 1,084.46				
Transportation	\$ 171.43				
Supervision	\$ 619.05				
	\$ 1,874.94				

**X 30 Dry Toilets = US\$56,248.08 dollars** 







# Together let's help "Las Guayabas"

For more information please contact:

Ramón Díaz

Rotary Club Zapopan

ramond@avansys.com.mx

+52 333 809 33 46