



# TGUP Project Details

## New school construction

### San Antonio, Malacatoya, Nicaragua



**PROJECT NAME:** San Antonio School Construction

#### **PROJECT SUMMARY:**

San Antonio is a small village of 28 families and approximately 150 inhabitants. There is no school in the community and the nearest one is 1.5 miles away. Of the 32 school-age children living in the community, only 5 are attending a school. This is because the only way to travel to the school is walking along a very busy highway that lacks pedestrian or bike lanes, which makes the trip very dangerous, especially for small children. This project will build a 33'x20' one-room school. A latrine will also be constructed for the school.

#### **PROJECT PARTNERS:**

- 1) **The Global Uplift Project (TGUP)** helps American students and individuals build classrooms and other infrastructure projects in the developing world from donations as small as one dollar. Since its founding in 2007, TGUP has completed more than 140 such projects in 17 countries in Asia, Central America, and Africa. TGUP is an IRS registered 501c3 nonprofit.

2) **Seeds of Learning (SOL)** has worked with communities in Central America since 1991 to improve access to education. It has constructed 244 classrooms with 71 different communities across Nicaragua and El Salvador. SOL has two offices in Nicaragua, and headquarters in northern California. SOL is an IRS registered 501(c)3 non-profit.

3) **The San Antonio Community School Construction Committee:** Made up of community leaders elected by the people. This committee will be in charge of organizing the logistics and support by the community for the project implementation. This includes the organization of volunteers to work on the construction; provision of space for storage and safeguarding tools and materials; and procuring material support from rice farmers for the project.

## **PROJECT MANAGEMENT (for all listed above):**

### The Global Uplift Project

#### **Senior Executive:**

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Executive Director  
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#### **Supervising Executive:**

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### Seeds of Learning

#### Senior Executive:

Annie Bacon  
Executive Director  
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#### Supervising Executive:

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Managua Regional Director  
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**PROJECT DATES:** May-July 2021

## **TIMELINE:**

May 3–31:	Construction of foundations
June 01–18:	Construction of the steel structure for roof and walls
June 21–July 2:	Installation of roofing sheets and wall panels
July 5–16:	Floor filling and construction of the floor slab and floor finishing
July 19–23:	Latrine construction
July 26–30:	Painting
August 7:	Inauguration

## **ABOUT THE COMMUNITY AND PROJECT:**

San Antonio is part of the Malacatoya municipality of the Granada department in Nicaragua, and is located 18 miles Northwest from Tipitapa, Managua. Most people work as agricultural workers in rice fields around the community, but this source of employment is seasonal only five months per year on average. During the time without employment, people struggle to get food and basic goods for survival. Many of them hunt iguanas or fish in ponds and creeks near the community to get some food. Others travel to the neighboring towns to do informal labor work and earn some income.



A couple of years ago before the road was paved, around 20 students from the community went to a school 1.5 miles away in the neighboring community of Santa Martha. Recently, the road was paved and extended to connect Tipitapa with Granada and the Central Region of Nicaragua. This improvement has exponentially increased the traffic,

mainly big trucks for transport of agricultural products and other imported goods.

The good conditions of the road tempt drivers to go at high speeds, breaking the speed limits in the country. Besides, the road was built without shoulders or lanes for pedestrians or bicycles. This has made walking or biking very challenging and, in fact, dangerous. Many fatal accidents have already occurred at different points of the road. Parents are scared to send children to the Santa Martha school by themselves. Even before, when the road was not so busy, pre-schoolers were not attending school because of the distance.

During the rice crop season, parents are not able to take younger children to school and prefer for them to stay at home. Currently, only 5 out of around 32 school age children are attending school. Three families moved to neighboring towns with relatives in order to have access to education. In response, community leaders looked for support to provide an alternative for younger children and ensure support for those who had access to the school. A faith-based organization provided volunteers from the community to teach children at homes. Later, a small room made of sticks was built to provide community-based basic schooling, but it was too shaky and collapsed. Now the vast majority of children have no access to education.

The school does not have teachers paid by the government, but the with a new school building and sufficient students, the government will provide a state-appointed teacher. It is a policy of the Ministry of Education to provide teachers to communities

that have more than 15 children for preschool and elementary school. Seeds of Learning will support teachers from the community to start providing classes to the children as soon as the school is finished.



The project will build a 33 x 20 ft building. The foundations, slab and floor will be made of concrete reinforced with  $\frac{3}{8}$  and  $\frac{1}{4}$  steel rebar. The walls will be supported by a steel structure anchored in the slab, made by 4"x4" square steel columns and beams. This structure will be covered on the outside by cement dry panels (Durock) screwed to the metal structure and

finished with cement-sand-based stucco for further strength and esthetics. The inside of the classroom will be covered by dry wall panels. The roof will be made of galvanized steel sheets supported by a structure made of steel rafters and purlins. The doors will be made of wood and metal grates; and the windows will be protected by steel pipe bars.

Consistent with SOL's model, the school will be mostly built with community participation, led by a professional builder. If traveling to Nicaragua is back to normality, and SOL implements its Work Group program, this project will also be able to receive international volunteers from the United States to work alongside the community. The project will also offer an opportunity to improve the community organization and increase self-esteem, including the provision of vocational training that allow community members to increase their chances to get a job or create their own income-generating initiatives during rice off-season time.

The school space may also be used for other purposes, like community meetings, adult education, vocational training and even the provision of health care by government health staff. The school will be built on an existing piece of land owned by the community and therefore no coordination with the Ministry of Education is necessary.

### **ANTICIPATED BENEFITS:**

- More than 30 children will have access to education.
- Create new opportunities for adult education and other educational programs like vocational training.
- Reduction of the risk of traffic accidents for children currently attending the nearest school.
- A space for the community to meet and exchange around community issues and potential projects.
- A space for the provision of other social services to the community, like health care, training, adult education.



### **PRIMARY BENEFICIARIES:**

35 preschool and elementary school children  
1 teacher  
150 community members

### **IMPACT METRICS:**

- School enrollment grows from 5 to 35 students (700%)
- At least 10 community meetings held in the new school every year
- At least 3 health care mobile services held by the school every year
- At least 2 training sessions held per year.

### **BUDGET SUMMARY:**

Summary of project costs:

Materials	\$	7,743.69
Labor	\$	3,521.45
Project Management	\$	2,393.00
Other	\$	<u>700.00</u>
<b>Total</b>	<b>\$</b>	<b>14,358.14</b>

### **SUMMARY AND EVALUATION:**

This is a high priority project based on the following facts:

- Currently 30 children have no access to education at all in the community.
- A school will minimize the risk of fatal accidents among school-aged children.
- The new building will be used immediately and education authorities will appoint a teacher due to the significant number of children.
- A school will allow community members to find jobs in the area.
- The new infrastructure will facilitate the provision of additional community services like health, training and adult education.
- The project implementation will help the community to develop organizational skills required to deal with other urgent community issues.

## SAN ANTONIO SCHOOL CONSTRUCTION PROJECT 2021

Category	Description	Unit Cost	Quantity	Total cost in US\$
<b>Materials and equipment</b>	Cement bags	\$10.00	70	\$700.00
	Sand (m3)	\$17.00	13	\$221.00
	Gravel (m3)	\$26.00	9	\$234.00
	Quarry stone	\$1.00	300	\$300.00
	Quarries materials (truck load)	\$120.00	3	\$360.00
	Steel bars 3/8" qq	\$40.00	6	\$240.00
	Steel bars 1/4" qq	\$38.00	5	\$190.00
	4x4"x1/8 sqare pipe	\$77.00	8	\$616.00
	4x4" ch16 sqare pipe	\$31.00	25	\$775.00
	4x2 ch16 purlins	\$16.00	16	\$256.00
	1" square pipe	\$7.58	27	\$204.66
	1 1/4" round steel pipe	\$12.00	2	\$24.00
	2.35 x 6 m. steel mesh	\$30.85	7	\$215.95
	Roofing sheets (Meter)	\$6.00	92.4	\$554.40
	Cement dry wall sheets	\$29.19	22	\$642.18
	Thinset mix	\$6.00	13	\$78.00
	Dry wall panels	\$6.00	22	\$132.00
	Gypsum paste bucket	\$18.00	2	\$36.00
	2" screws for dry wall sheets	\$0.11	700	\$77.00
	1" screws for roofing sheets	\$0.08	375	\$30.00
	Roof ridge cap (units)	\$8.50	6	\$51.00
	Transport	\$50.00	5	\$250.00
	Welding rod box	\$20.00	3	\$60.00
	Cutting disk 7"	\$3.50	15	\$52.50
	Anticorrosive paint 5 gal bucket	\$53.00	3	\$159.00
	Motorized welding equipment rental	\$28.75	8	\$230.00
	Welding equipment fuel (gallons)	\$4.20	40	\$168.00
	Wall paint (5 gal bucket)	\$58.00	5	\$290.00
	Thinner (galons)	\$7.00	11	\$77.00
	Paintbrushes and rollers	\$70.00	1	\$70.00
	Latrine	\$250.00	1	\$250.00
	Tools fund	\$200.00	1	\$200.00
				<b>\$7,743.69</b>

<b>Admin Expenses</b>	Transportation	\$50.00	10	\$500.00
	Food	\$4.00	50	\$200.00
				<b>\$700.00</b>
<b>Personnel</b>	Masonry (slab)	\$645.00	1	\$645.00
	Community Labor	\$8.75	128	\$1,120.00
	Roof construction (m2)	\$6.10	102	\$622.20
	Floor installation (m2)	\$75.00	4.39	\$329.25
	Wals and windows construction	\$800.00	1	\$800.00
	Field supervision (monthly)	\$375.00	3	\$1,125.00
				<b>\$4,641.45</b>

<b>Total General</b>	<b>\$13,085.14</b>
<b>Community contribution</b>	<b>\$1,120.00</b>
<b>Project management</b>	<b>\$2,393.00</b>
<b>Amount Requested</b>	<b>\$14,358.14</b>