



TGUP Project Details

New Classroom Building in Luz de Cristo, Tipitapa, Nicaragua



PROJECT NAME: Luz de Cristo New Classroom Building

PROJECT SUMMARY: Luz de Cristo is a small, rural community 8 miles from Tipitapa in the larger municipality of Managua. The elementary school only has a single classroom to accommodate 45 students in pre-school through 6th grade. The total space is 517 square feet.



This project will build an additional 20'x33' classroom building, which will allow the younger students to keep the existing building and have two groups of older students in the new building. Solar panels for electricity and a simple, three-structure playground are also being proposed as add-on projects. This will be TGUP's 17th classroom in Nicaragua.

PROJECT PARTNERS:

1) **The Global Uplift Project (TGUP)** helps American students and individual donors build classrooms and other infrastructure projects in the developing world from donations as small as one dollar. TGUP was founded in 2007 as One Dollar For Life. It changed its name to The Global Uplift Project in 2020. Since its founding in 2007, TGUP has completed more than 170 projects in 18 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 more than 200 classrooms with 76 different communities across Nicaragua and El Salvador. SOL has two offices in Nicaragua, and headquarters in Northern California. SOL is an IRS registered 501c3 nonprofit.

3) **The Community School Construction Committee** is made up of community leaders elected by the citizens of Luz de Cristo. It will be in charge of organizing the logistics and support from the community for the project implementation. This includes the organization of volunteers to work on the construction; storage and safeguarding of tools and materials; and procurement of materials.

PROJECT MANAGEMENT (for all listed above):

The Global Uplift Project

Senior Executive:

Robert Freeman
Executive Director
robertf@tgup.org
650-575-3434

Supervising Executive:

Cathy Dwulet
Director, Global Field Operations
cathyd@tgup.org
650-269-5598

Seeds of Learning

Senior Executive:

Annie Bacon
Executive Director
annie@seedsoflearning.org
707-235-8260

Supervising Executive:

Julian Guevara
Managua Regional Director
julian@seedsoflearning.org
011 505 8950 7135

PROJECT DATES: August – October 2021

TIMELINE:

Weeks 1 - 2: Construction of foundation
Weeks 3 - 4: Construction of the steel structure for roof and walls, and installation of the zinc roofing sheets
Week 5: Installation of wall panels
Week 6 - 7: Floor filling, construction of the floor slab, and floor finishing
Week 8 - 9: Painting and finishing details
Week 10: Inauguration

ABOUT THE COMMUNITY AND PROJECT:



The Luz de Cristo community is located 8 miles to the northeast of Tipitapa, in the department of Managua, Nicaragua. It is a very rural community with 250 inhabitants who live in 100 houses scattered in a wide area. Most inhabitants are farmers with small plots of less than two hectares, which they use to produce corn, rice, yucca, watermelon, squash and other vegetables. Some farmers also raise cattle on a very small scale.

Ten years ago, an elementary school was established in the community with a single teacher for six grades. At the beginning, the school operated in houses or churches. Three years later, the government built one classroom, which was enough for the 25 students at that time. However, the community and the population have grown and the school is currently accommodating 45 students in a space of 517 square feet.

The school now has two teachers - one who teaches from pre-school through second grade and other who teaches third through sixth grade. The small classroom is divided by a partition to accommodate the two teachers. Both spaces are crowded. To avoid too

much noise and distraction, the teachers accommodate some students outside on the sidewalk. During the rainy season, they need to move inside the building, making classes difficult. To improve educational quality, prevent school dropout and low school performance, an additional classroom is urgently needed.



The project will build a 20'x33' new classroom like the one shown above that TGUP and SOL recently completed in the nearby community of La Quebradita. It will be divided into two spaces by a gypsum partition wall. The foundation and floor will be made of concrete and quarry stone; the walls and the roof structure will be made of fabricated beams. The external wall will be covered with cement drywall panels and the interior of the school with Gypsum dry wall, which will help to insulate the room from high temperatures. Square metal pipes to protect windows and doors will be made of metal. The roof will be made of zinc-coated steel sheets.

The distribution of the students in two bigger areas will improve the educational quality, improve attendance and help boost students' performance. Consistent with SOL's model, the school will be built mostly with community participation, led by a professional builder and master craftsmen. This will improve the community organization as well as their self-esteem and encourage them to look for other projects that improve their living conditions. The school space will also be used for other purposes after school hours: community meetings; adult education; vocational training; and the provision of health care by government health staff.

ANTICIPATED BENEFITS:

- More space allows students to be taught at a level common to their own grade.
- It will drastically reduce distractions, promoting better student performance.
- Capacity for increased school enrollment by 20%.
- Improved school attendance from 80% of village children to 95%.
- Reduced students' failure – expected completion rises from 90% to 95%.

- A space for the community to meet and discuss community issues and potential projects.
- A space for the provision of other social services to the community, like health care, training, and adult education.

PRIMARY BENEFICIARIES:

45 preschool and elementary school children
 2 teachers
 250 community members

BUDGET SUMMARY:

Materials	\$	8,298.37
Labor	\$	4,641.45
Other	\$	700.00
Project management	\$	2,504.00
Community contribution	\$	<u>- 1,120.00</u>
Total	\$	15,023.82

SUMMARY AND EVALUATION

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

- The existing school is too small even at current enrollment causing students to experience distractions and end up having classes outside.
- The new building will be used immediately after its construction
- The community is aware of the school need and has committed to cooperate voluntarily in its construction.
- 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.
- SOL has excellent relations with the community.
- SOL and TGUP have a 10+ year history of successful collaboration.
- The project is approved by the national Ministry of Education.

DETAILED BUDGET:

On following page

LUZ DE CRISTO SCHOOL CLASSROOM CONSTRUCTION PROJECT 2021

Category	Description	Unit Cost	Quantity	Total cost in US\$
Materials and equipment	Cement bags	\$10.00	70	\$700.00
	Sand (m3)	\$17.00	8	\$136.00
	Gravel (m3)	\$26.00	6	\$156.00
	Quarry stone	\$1.00	200	\$200.00
	Quarries materials (truck load)	\$120.00	3	\$360.00
	Steel bars 3/8" qq	\$50.00	8	\$400.00
	Square stirrups	\$0.10	600	\$60.00
	Triangle stirrups	\$0.10	200	\$20.00
	4x4" ch 14 sqare pipe	\$60.00	5	\$300.00
	4x4" ch16 sqare pipe	\$43.80	21	\$919.80
	4x2 ch16 purlins	\$18.00	26	\$468.00
	1" square pipe ch 16	\$11.00	27	\$297.00
	Metal doors	\$112.00	2	\$224.00
	2.35 x 6 m. steel mesh	\$43.35	7	\$303.45
	Roofing sheets (Meter)	\$9.32	92.4	\$861.17
	Cement dry wall sheets	\$37.00	22	\$814.00
	Thinset mix	\$6.00	13	\$78.00
	Dry wall panels	\$7.00	22	\$154.00
	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	500	\$40.00
	Roof ridge cap (units)	\$9.00	6	\$54.00
	Transport	\$50.00	5	\$250.00
	Welding rod pounds	\$2.80	23	\$64.40
	Cutting disk 7"	\$3.50	15	\$52.50
	Anticorrosive paint 5 gal bucket	\$53.00	2	\$106.00
	Motorized welding equipment rental	\$28.75	8	\$230.00
	Welding equipment fuel (gallons)	\$4.20	40	\$168.00
	Wall paint (5 gal bucket)	\$73.00	4	\$292.00
	New-wall paint	\$43.35	3	\$130.05
	Thinner (galons)	\$7.00	11	\$77.00
	Paintbrushes and rollers	\$70.00	1	\$70.00
Tools fund	\$200.00	1	\$200.00	
	Total			\$8,298.37
Admin Expenses	Transporte	\$50.00	10	\$500.00
	Alimentación	\$4.00	50	\$200.00
		Total		\$700.00
Personnel	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
	Walls and windows construction	\$800.00	1	\$800.00
	Field supervision (monthly)	\$375.00	3	\$1,125.00
	Total			\$4,641.45
	Total General			\$13,639.82
	Community contribution			\$1,120.00
	Project management			\$2,504.00
	Total requested			\$15,023.82