



# ODFL Project Prospectus

## Classrooms/School Expansion

### Villa Japon, Tipitapa, Nicaragua

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#### **PROJECT NAME:**

Villa Japón School Expansion

#### **PROJECT SUMMARY:**

Provide design, materials and supervision while working alongside the people of Tipitapa community to build at the Villa Japón School in Managua, Nicaragua:

- Four classrooms costing \$10,960 each;
- One of the four classrooms will be a multipurpose room with moveable walls that can function as an assembly area/auditorium for the entire school.

Both Philanthropreneurs and schools can invest in as little as a single classroom. Construction will begin in spring 2017 and is expected to be completed by fall 2017.

## **PROJECT PARTNERS:**

One Dollar for Life (ODFL), Seeds of Learning (SOL), Nicaragua Ministry of Education (MINED)

One Dollar For Life (ODFL) helps American students and individuals build classrooms and other infrastructure projects in the developing world from donations as small as one dollar (hence its name). Since its founding in 2007, ODFL has completed 79 such projects in nine countries in Asia, Central America, and Africa. ODFL is an IRS registered 501(c)3 non-profit.

Seeds of Learning (SOL) has worked with communities in Central America since 1991 to improve access to education. It has constructed 196 classrooms with 61 different communities across Nicaragua and El Salvador. SOL has three offices in Nicaragua, and headquarters in northern California. SOL is an IRS registered 501(c)3 non-profit.

The Nicaragua Ministry of Education (MINED) works with SOL to ensure that classrooms are provided with qualified teachers. They oversee structural and ergonomic standards in design and construction for all projects. MINED has explicitly requested and approved this project.

## **PROJECT MANAGEMENT:**

### Seeds of Learning

#### **Senior Executive:**

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### One Dollar For Life

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## **PROJECT DATES:**

February - September, 2017

## **ABOUT THE COMMUNITY:**

Villa Japon is a semi-urban village located in the municipality of Tipitapa. Tipitapa is “exurban” to Managua, the capital city of Nicaragua. It was originally established by former combatants of both parties involved in the conflict of the 80’s who claimed land for survival in the context of the peace agreements that put an end to the armed conflict. A positive answer by authorities for small land grants for farming and homes spurred the arrival of people displaced by the conflict and now the village has grown to a population of around 3,000 inhabitants.

Most people work in big rice, cassava, and cattle farms in the area, as well as free trade zones in the municipal capital, Tipitapa. Others have small businesses. Some have small farming plots, growing a variety of foods for personal and family sustenance. Most people live below the poverty line in small shacks made of corrugated zinc and plastic. The village has rudimentary but functional infrastructure in roads, electricity, water, sewerage. Cellular telephone service was added via a tower in 2015. The UN Human Development Report of 2015 places the average level of education in Nicaragua at just six years. Tipitapa is typical of this.

## **ABOUT THE SCHOOL:**

In 2013, the school had 250 students and five teachers in two classrooms and a kitchen. Three additional provisional tents offered very poor conditions for education with dirt floor and plastic walls. Three classrooms were constructed that year, increasing enrollment by 50%. Two additional teachers were hired to serve the larger population.

However, enrollment continued to grow forcing many students to either travel to remote locales to attend school, or not be able to attend at all. As a result, three more classrooms were added in 2015, bringing to nine the total number of classrooms at the school. Salaries for all teachers and the school principal are paid by MINED.

Currently enrollment is around 500 students. There are 16 teachers deployed as such:

### **Enrollment**

Preschool Level 1 and 2:	48	1 Teacher
Preschool Level 3:	35	1 Teacher
Grade 1:	36	1 Teacher
Grade 1:	28	1 Teacher
Grade 2:	32	1 Teacher

Grade 2:	27	1 Teacher
Grade 3:	30	1 Teacher
Grade 3:	26	1 Teacher
Grade 4:	34	1 Teacher
Grade 4:	29	1 Teacher
Grade 5:	38	1 Teacher
Grade 6:	24	1 Teacher
Grade 7:	41	1 Teacher
Grade 8:	33	1 Teacher
Grade 9:	28	1 Teacher
School Principal:		1 Teacher

**Total Number of Students: 489**

**Total Number of Teachers: 16**

### **ABOUT THE PROJECT:**

This project will build three additional instructional classrooms designed to be flexible, with moving walls, to work eventually as a large auditorium. A multipurpose room will also be built, providing space for a library, a computer lab, a teacher’s work room, and a media room for projection of video. A small portion of the project funding will be allocated for the school principal’s office. The construction of these new facilities will allow use of the existing kitchen for its original purpose, facilitating the preparation of students’ meals in the school.

**Costs for Four Classrooms** (Rounded; See budget details, attached as Appendix 1)

	<b>Total Cost</b>	<b>Per Classroom</b>
<b>Direct Materials</b>	\$ 28,730	\$ 7,183
<b>Equipment/Furniture</b>	\$ -	\$ -
<b>Direct Labor</b>	\$ 11,008	\$ 2,752
<b>Misc.</b>	\$ 4,115	\$ 1,029
<b>Total</b>	\$ 43,853	\$ 10,963

The expansion of classrooms will allow as many as 80 additional students to attend the school. All of these additional students are either not attending school at all or are being forced to travel to adjacent neighborhoods, placing an extraordinary strain on families. The larger facility will permit the operation of a first-ever high school in the afternoons,

greatly expanding educational opportunities for teenagers. Currently high school is offered only on Saturdays for about 102 students in 7<sup>th</sup> – 9<sup>th</sup> grades. The community has also requested that the school conduct adult education classes. That is being evaluated.

### **Additional Info**

- Land title is in MINED's name.
- There is a large and active Parent/School committee overseeing all aspects of school operation.
- Food program – many mothers and families help prepare food for all kids in the school kitchen.
- Grounds have electric access and water, though water is available only a few hours a day. A water tank would significantly improve reliability of access.
- There is a need for a fence wall to protect school facilities.
- Location: [Click here](#)

### **ABOUT SUMMER SERVICE TRIP OPPORTUNITY:**

Each year, Seeds of Learning welcomes between 10 and 20 work groups (groups of 12-24 volunteers who travel together to work alongside community members on the schools). Since 1992, SOL has hosted almost 4,000 such volunteers. Approximately 50% of the volunteers are youth. SOL has experienced, bilingual, bi-cultural staff in each of our regions that receive volunteers.

These staff ensure that volunteers have a safe, meaningful, hands-on community service experience. They meet volunteers at the airport, set up their itinerary, interface with construction personnel and local volunteers, and accompany the group on every part of their trip. Volunteers will stay in a local hostel that will be entirely devoted to members of this trip for its duration. As such, there is a high degree of security. It is also clean and in close proximity to the work site. It includes common rooms for group meetings, and provides excellent cooked breakfasts and dinners in local cuisine.

Volunteers stay together and spend the days working alongside of community members on the construction project, and the afternoons engaged in educational and cultural activities to help them better understand the realities, people, history, and society of Nicaragua. It has proven to be a life-changing experience for many people. See, for example, the feedback (below) from travelers on one recent ODFL trip to Nicaragua. SOL looks forward to being able to host student and adult volunteers so they may see what they have helped bring into the world through their donations and construction of these classrooms.

## **SUMMARY AND EVALUATION:**

We rate this a high priority project. That is based on several factors:

- Existing resources are both overstretched and deficient;
- Expansion will be utilized immediately;
- Expansion will open up access to facilities for new high school classes;
- SOL has a excellent working relationships with the community;
- The site is safe and proximate to facilities for volunteers;
- ODFL's productive history of working with SOL;
- Project costs are extremely attractive (~ \$10,000 per classroom);
- The project has the explicit endorsement of the Ministry of Education.

Details of project cost are accompanying in the Appendix.

		<b>Appendix 1</b>				
		<b>Cost Detail</b>				
		<b>Villa Japon Classroom/School Expansion</b>				
<b>Characteristics</b>						
Name of the community	<b>Villa Japón</b>		4 Classrooms	Materials	\$28,730	
Number of classrooms	4			Equipment/Furniture	n/a	
Classroom length (mts)	8			Direct labor cost (excluding supervision)	\$11,008	
Classroom width (mts)	6			Misc. (transport)	\$86.96	
Height (mts)	2.5			M & E	\$4,028	
Total perimeter (mts)	94			<b>TOTAL</b>	<b>\$43,853</b>	
Number of columns	39					
Sidewalk (linear mts)	80					
Windows length (mts)	2.3					
Windows height (mts)	1.25					
Number of windows	16					
Wall materials	Cinder blocks					
Roof materials	Corregated steel					
exchange rate \$-C\$	<b>27.6</b>					
<b>Total budget (\$)</b>	<b>\$43,853</b>					
<b>Foundations</b>						
<b>Material</b>	<b>Subphase</b>	<b>Budget Quantity</b>	<b>Unit</b>	<b>Unit price (C\$)</b>	<b>Total price (C\$)</b>	<b>Ttl budget (\$)</b>
Wood 1"x3"x5 varas	Foundations	48	Units	103.2	4954	179
Wood 1"x3"x5 varas	Foundations	8	Units	103.2	826	30
Wood 2"x2"x6 varas	Foundations	16	Units	144	2304	83
Wood 1"x12"x6 varas	Forms	48	Units	490	23520	852
Cement	Seismic beam	47	x100 lbs	272	12784	463
Cement	Floor beam	47	x100 lbs	272	12784	463
Cement	Cinder Blocks	28.06	x100 lbs	272	7632	277
Cinder Blocks	Foundations	912	Units	19.81	18067	655
Half Cinder Blocks	Foundations	120	Units	12	1440	52
Corrugated steel bar3/8"	Footings	1.49	x100 lbs	980.95	1462	53
Corrugated steel bar 3/8"	Seismic beam	4.97	x100 lbs	980.95	4875	177
Corrugated steel bar3/8"	Floor beam	4.97	x100 lbs	980.95	4875	177
steel bar1/4"	Seismic beam	2.82	x100 lbs	1054.08	2973	108
steel bar1/4"	Floor beam	2.82	x100 lbs	1054.08	2973	108
Wire	Foundations	40	pounds	18.79	752	27
Regular nails	Foundations	60	pounds	18.79	1127	41
Steel nails	Foundations	20	pounds	33.4	668	24
sand	Foundations	20	mts3	540	10800	391
gravel	Foundations	8	mts3	900	7200	261
wooden board 2x10x6	Foundations	1	Unit	600	600	22
Foremen	Foundations	4	month/forema	16560	66240	2400
					<b>Total</b>	<b>\$6,843</b>

<b>WALLS</b>						
<b>Material</b>	<b>Subphase</b>	<b>Budget Quantity</b>	<b>Unit</b>	<b>Single price (C\$)</b>	<b>Total price (C\$)</b>	<b>Total price (\$)</b>
Cinder Blocks	lower wall	1400	Units	19.81	27734	1005
Cinder Blocks	upper wall	1200	Units	19.81	23772	861
Cinder Blocks	coping	320	Units	19.81	6339	230
Half Cinder Blocks	lower wall	200	Units	12	2400	87
Half Cinder Blocks	lower wall	140	Units	12	1680	61
Cement	lower wall	43.08	x100 lbs	272.35	11733	425
Cement	Middle beam	47	x100 lbs	272.35	12800	464
Cement	upper wall	36.92	x100 lbs	272.35	10055	364
Cement	crown beam	47	x100 lbs	272.35	12800	464
Cement	columns	63.98	x100 lbs	272.35	17425	631
Corrugated steel bar3/8"	Middle beam	4.97	x100 lbs	980.95	4875	177
Corrugated steel bar3/8"	crown beam	4.97	x100 lbs	980.95	4875	177
Corrugated steel bar3/8"	columns	5.16	x100 lbs	980.95	5062	183
steel bar1/4"	Middle beam	2.01	x100 lbs	1054.08	2119	77
steel bar1/4"	crown beam	2.01	x100 lbs	1054.08	2119	77
steel bar1/4"	columnas	7.43	x100 lbs	1054.08	7832	284
Wire	walls	60	pounds	18.79	1127	41
Regular nails	walls	80	pounds	18.79	1503	54
Steel nails	walls	32	pounds	33.4	1069	39
sand	walls	30	mts3	540	16200	587
stone	walls	8	mts3	900	7200	261
Wood 2"x4"x6varas	scaffolding	16	Units	282	4512	163
Wood 1"x12"x6varas	Wooden forms	48	Units	489.6	23501	851
Wood 1"x8"x6 varas	lintels	20	Units	270	5400	196
Wood 1"x3"x5varas	walls	16	Units	103.2	1651	60
transportation	walls	7	trips	300	2100	76
labor	walls	8	month/forema	16560	132480	4800
					<b>Total</b>	<b>\$12,694</b>
<b>FLOOR</b>						
<b>Material</b>	<b>Subphase</b>	<b>Budget Quantity</b>	<b>Unit</b>	<b>Single price (C\$)</b>	<b>Total price (C\$)</b>	<b>Total price (\$)</b>
Cement	floor	96	x100 lbs	272.35	26145.6	947
Cement	sidewalk	28	x100 lbs	272.35	7625.8	276
tiles	floor	272	mts2	272.35	74079.2	2684
stones	sidewalk	100	Unit	205.92	20592	746
welded mesh	floor	16	Unit	945.4	15126.4	548
labor	floor	2	month/forema	16560	33120	1200
					<b>Total</b>	<b>\$6,402</b>
<b>ROOF</b>						
<b>Material</b>	<b>Subphase</b>	<b>Budget Quantity</b>	<b>Unit</b>	<b>Single price (C\$)</b>	<b>Total price (C\$)</b>	<b>Total price (\$)</b>
galvanized steel purlins	longitudinal	47.47	Unit	495.6	23526	852



galvanized steel purlins	transversal	80.67	Unit	495.6	39980	1449
Zinc	roof	315.21	mts	122.53	38623	1399
Screws	roof	1584	Unit	0.79	1251	45
welding rods 6011-3/32"	roof	4	box	637.2	2549	92
Anticorrosive paint	roof	0	gallon	339.13	0	0
Thinner	roof	0	liters	62.62	0	0
transportation	roof	1	trips	300	300	11
labor	roof	2	month/forema	16560	33120	1200
					<b>Total</b>	<b>\$5,049</b>

### WINDOWS AND DOORS

Material	Subphase	Budget Quantity	Unit	Single price (C\$)	Total price (C\$)	Total price (\$)
steel square pipe 1"	window	20.85	Unit	197.11	4110	149
steel square pipe 1"	door	20	Unit	197.11	3942	143
Expanded mesh	window	16	Unit	1163.48	18616	674
steel pipe 1 1/4"	door	11.73	Unit	325.06	3813	138
Wood 1"x8"x14'	door	28.04	Unit	264.96	7429	269
Anticorrosive paint	window	8	gallons	339.13	2713	98
Thinner	window	8	litros	62.62	501	18
Cutting discs 7"	window	12	Unit	0	0	0
Steel flat bar	door	6.67	Unit	264	1761	64
Padlocks	door	8	Unit	328.7	2630	95
Shutters	window	57.5	Unit	900	51750	1875
labor	window	81.5	month/forema	300	24450	886
					<b>Total</b>	<b>\$4,410</b>

### PAINTING

Material	Subphase	Budget Quantity	Unit	Single price (C\$)	Total price (C\$)	Total price (\$)
exterior acrylic paint	lower walls	20	gallons	465.6	9312	337
exterior acrylic paint	upper wall	12	gallons	465.6	5587	202
exterior acrylic paint	columns	11	gallons	465.6	5122	186
interior acrylic paint	lower walls	20	gallons	366	7320	265
interior acrylic paint	lower walls	12	gallons	366	4392	159
interior acrylic paint	columns	10	gallons	366	3660	133
Sealant	paint	30	gallons	266.09	7983	289
Paintbrushes	paint	8	Unit	36	288	10
Rollers	paint	4	Unit	55.2	221	8
					<b>Total</b>	<b>\$1,590</b>

### ELECTRICAL INSTALLATION

Material	Subphase	Budget Quantity	Unit	Single price (C\$)	Total price (C\$)	Total price (\$)
materials	instalación eléctrica	1	Unit	47942	47942	1737
labor	instalación eléctrica	1	Unit	14400	14400	522
					<b>Total</b>	<b>\$2,259</b>

### STORE ROOM

Material	Subphase	Budget Quantity	Unit	Single price (C\$)	Total price (C\$)	Total price (\$)
Wood 2x4"	store room	3	Units	249.6	749	27
Wood 1x3"	store room	31	Units	105	3255	118
Wood 2x2"	store room	12	Units	150	1800	65
Zinc	store room	29	Unit	350	10150	368
Nails	store room	1	libra	15	15	1
					<b>Total</b>	<b>\$579</b>
<b>M&amp;E</b>						
Material	Subphase	Budget Quantity	Unit	Single price (C\$)	Total price (C\$)	Total price (\$)
Supervisor	M&E	8	months	6864	54912	1990
Coordination	M&E	8	months	3432	27456	995
Transportation	M&E	96	trips	300	28800	1043
					<b>Total</b>	<b>\$4,028</b>