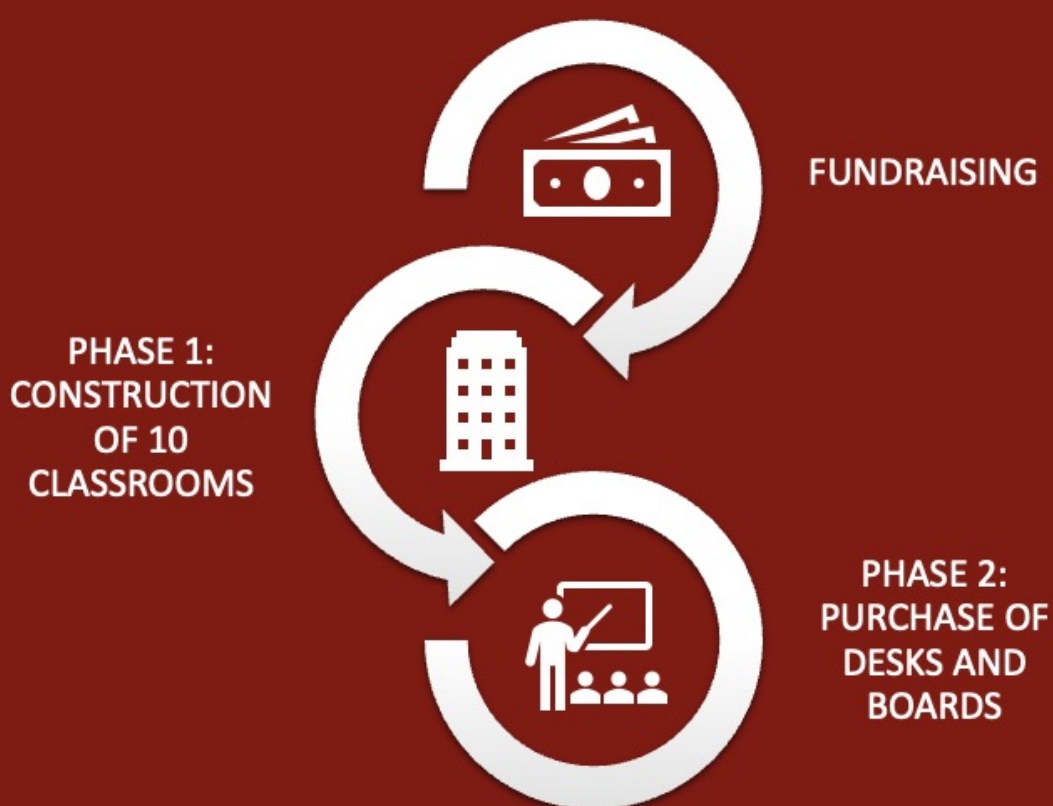




# Classroom construction – Brilliant Brains School

# CLASSROOM CONSTRUCTION BRILLIANT BRAINS SCHOOL BY COOPERATING NGO



**BUDGET PHASE 1: 26.176€**

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## 1. Cooperating NGO

Cooperating NGO is a non-profit organization whose objective is to carry out international cooperation projects, contributing to the comprehensive and sustainable development of communities in different developing countries.

To fulfil these objectives, the following activities are carried out:

1. Promotion of awareness regarding the diverse realities of various cultures through presentations, events, or access to the media.
2. Fundraising efforts in both the public and private sectors, including presentations for public subsidies or collaborations with private entities to secure the necessary resources for project implementation.
3. Technical assistance, execution and evaluation of projects directly or in collaboration with local entities from the various countries where work will be carried out.

### Mission and vision

- Mission: Foster well-being in developing countries by providing economic support to local social organizations for the implementation of sustainable projects in the fields of education and health.
- Vision: Realize empowered communities where all individuals experience complete equality and have equal opportunities.



## 2. Brilliant Brains

Brilliant Brains Nursery and Primary School is a nursery and primary school, located in the Busokwa area, Kabarole district, western Uganda. It is a private school, created mainly for orphaned and vulnerable children from the villages near the school. The school started with approximately 80 children in 2016, and currently around 500 children between 3 and 15 years old attend class, many of whom are orphans.



### 3. Class Construction - Brilliant Brains School

#### 3.1. Identification of the need

Despite the great work carried out at the Brilliant Brains school, allowing hundreds of children to attend school, the facilities are not the most adequate:

- **Classrooms:** The school has ten classrooms, which are divided into Nursery (Baby, Middle, Top) and Primary (P1-P7). The classrooms are close to each other, in a very deplorable state. The walls are made of wood veneer, so you can hear the lesson of the class next door at all times. In addition, the walls are full of holes and filled with dangerous elements, such as nails, wires and sharp wood, which can cause wounds and cuts, as well as some diseases such as Tetanus.
- **Desks:** The number of children per classroom varies based on the course, with an average attendance of approximately 70 children. Each class is equipped with about 10-12 benches, leading to a situation where 5-6 children often have to share a bench measuring about one and a half meters. Unfortunately, many of these benches are broken, requiring the children themselves to make repairs, using stones and any available materials to support them. In some instances, due to the high number of students, children are unable to find space on the benches and must resort to sitting on the floor, using wooden boards as makeshift desks.
- **Floor:** Two types of floors can be found in classrooms. Some are covered with cement, although most of the ground is raised, so there are potholes and loose stones. This is very dangerous for children, since many of them go barefoot. In the rest of the classrooms the floor is dirt, also in poor condition. Due to lack of soil in some areas or accumulation, puddles and mud occur. This means the appearance of mosquitoes, and with them the disease Malaria.
- **Roof:** It is also worth highlighting the general condition of the roof. Most classrooms are covered with aluminium or wooden roofs. The poor condition of these materials causes flooding in the classrooms, the deterioration of the materials found inside (backpacks, notebooks, benches, etc.) and above all, this leads to stopping classes when it rains. Uganda is a tropical country, very green, with abundant vegetation, due to high rainfall. During the rainy season it rains almost every day, so class interruptions are numerous.



- **Lighting:** The classrooms have two small wooden windows, which are the only source of lighting, so on cloudy days, the classrooms are very dark and many times the classes have to stop due to lack of vision.
- **Blackboards:** The blackboards are also in poor condition. Most of them are broken, so in many pieces it is not possible to write with chalk and it also makes it difficult to understand the text.

All of these conditions prevent creating an environment in which children can grow and learn safely. For this reason, in 2022 the Brilliant Brains class renewal project was launched by a volunteer from Cooperating Volunteers.

The project consists of the construction of 10 classrooms, 3 for preschool and 7 for primary (see APPENDIX A). The initial budget (see APPENDIX B) was 150,033,050 Ugandan shillings (approximately €38,470).

The project had an initial investment of €24,000 thanks to the donation from the 2022 Benicasim charity Christmas market. Additionally, several fundraising campaigns have been carried out among other volunteers, which have raised €27,000.

Work on the school has had to be stopped until more funds are obtained. In addition, some unforeseen events have arisen, which have caused a slight increase in the initial budget:

- The approval of the project by the Ministry was not taken into account when preparing the budget.
- The foundation budget was raised considerably due to the poor quality of the land.
- Roof budget was under-budgeted.

Currently €26,176 are needed to finish the construction of the classrooms.

### 3.2. Proposed solution

Cooperating NGO intends to carry out a fundraising campaign in order to finish the Brilliant Brains classroom construction project. In addition, not only will the classes be completed, but they will also be equipped with the necessary furniture to promote student learning.

No modifications will be made to the original classroom plans.



### 3.2.1. Implementation

The project will be developed in two phases:

- **Phase 1 – Classroom construction:** The 10 classrooms will be built in accordance with the school's requirements and local building regulations. Periodic inspections will be carried out to monitor construction progress. The safety of students and workers will be a priority during this phase.
- **Phase 2 – Purchase of furniture:** The necessary material to equip the classes will be purchased: desks and blackboards. The number of desks and blackboards will be based on the capacity of each classroom. Desks and whiteboards will be durable and suitable for students.

### 3.2.2. Phase 1 budget

The following table shows the detailed budget for phase 1 of the project.:

Description	Unit	Quantity	Ratio	Price (€)
Walling	-	-	1.316	1.316
Internal finishes	-	-	2.342	2.342
External finishes	-	-	1.211	1.211
Doors, windows & railings	-	-	9.813	9.813
Roof	-	-	9.556	9.556
Subtotal				24.237
Administration			8%	1.939
<b>TOTAL</b>				<b>26.176</b>

### 3.3. Donations

Donors will obtain a tax deduction certificate by making the donation through the following link:

<https://www.migranodearena.org/en/cause/construccion-de-clases---brilliant-brains>





APPENDIX A: Work plans

NO.	DESCRIPTION	REMARKS
01	STEEL CLAMPING	
02	STEEL CLAMPING	
03	STEEL CLAMPING	
04	STEEL CLAMPING	
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49	STEEL CLAMPING	
50	STEEL CLAMPING	

# CLASSROOM CONSTRUCTION – BRILLIANT BRAINS SCHOOL



**GROUND PLAN LAYOUT**  
SCALE: 1:100

**SECTION S14-S19**  
SCALE: 1:100

**REAR ELEVATION**  
SCALE: 1:100

**RIGHT-SIDE ELEVATION**  
SCALE: 1:100

**LEFT-SIDE ELEVATION**  
SCALE: 1:100

**FRONT ELEVATION**  
SCALE: 1:100

**REAR ELEVATION**  
SCALE: 1:100

**GROUND PLAN LAYOUT**  
SCALE: 1:100

**SECTION S14-S19**  
SCALE: 1:100

**ROOF NOTES**

**BOUNDARY WALL DETAIL**

**SECTION S14-S19**  
SCALE: 1:100

**REAR ELEVATION**  
SCALE: 1:100

**LIST OF MATERIALS**

**LIST OF NOTES**

**PROPOSED SCHOOL BUILDINGS**

**APPROVED BY:**  
RICH ALFRED JOEL MALIWANA  
RMC No. 015 RMC No. 015

**DRAWN & DESIGNED BY:**  
K.C.C.  
Mob: 0701-598111  
0701-598111

**FORWARDED TO:**  
Kamukamba Cluster Director  
BRILLIANT BRAINS SCHOOLS AT  
PRIMARY SCHOOL  
KAMUKAMBA DISTRICT  
MILWA, UGANDA

## APPENDIX B: Initial budget

**COST ESTIMATES FOR THE  
PROPOSED CONSTRUCTION OF FACILITIES FOR BRILLIANT BRAINS, NURSERY AND PRIMARY  
SCHOOL.**

No.	ITEM	UNIT	QTY	RATE	AMOUNT (UGX)
<b>A</b>	<b>SUBSTRUCTURE</b>				
1	<u>Anti-termite treatment</u>				
	Termidor 96sc	200ml Tin	5	35,000	175,000
2	<u>Blinding concrete- class 15 (1:4:8)</u>				
	Cement	Bags	16	40,000	640,000
	Sand	4T Trip	0.5	200,000	100,000
	Aggregate	4T Trip	1	270,000	270,000
3	<u>Reinforced concrete - mix (1:3:6) for columns, stubs, slab and strip concrete</u>				
	Cement	Bags	167	40,000	6,680,000
	Sand	4T Trip	4	200,000	800,000
	Aggregate	4T Trip	6	270,000	1,620,000
	8mm bars	Pcs	20	14,000	280,000
	12mm bars	Pcs	89	40,000	3,560,000
	Binding wire	Kgs	25	5,000	125,000
	Wire nails 4"	Kgs	20	5,000	100,000
	Formwork timber 12 x 1"	Pcs	40	10,000	400,000
	Formwork timber 4 x 2"	Pcs	20	5,000	100,000
4	<u>Plinth wall including waterproofing it</u>				
	0.23x0.15x0.06m burnt Clay bricks	No.	10000	300	3,000,000
	Cement	Bags	27	40,000	1,080,000
	Sand	Trips	2	200,000	400,000
	Bituminous paint	20L Tin	1	275,000	275,000
	DPM	Rolls	7	95,000	665,000
5	<u>Fillings</u>				
	Murrum	4T Trip	4	200,000	800,000
	Hardcore	4T Trip	12	300,000	3,600,000
	Sand blinding	4T Trip	3	180,000	540,000
	BRC A98	Rolls	10	330,000	3,300,000
	<b>Subtotal</b>				<b>28,510,000</b>
	<b>Labour</b>		20%		<b>5,702,000</b>
	<b>Contingencies</b>		5%		<b>1,425,500</b>
	<b>Total substructure</b>				<b>35,637,500</b>
<b>A</b>	<b>SUPERSTRUCTURE</b>				
<b>1</b>	<b>BUILDING FRAME</b>				
	<u>Reinforced concrete (1:3:6) for lintel beams, ringbeams and columns</u>				
	Cement	Bags	43	40,000	1,720,000
	Sand	4T Trip	3	200,000	600,000
	Aggregate	4T Trip	5	270,000	1,350,000
	8mm bars	Pcs	35	14,000	490,000
	12mm bars	Pcs	146	40,000	5,840,000
	Binding wire	Kgs	100	5,000	500,000
	formwork timber 12x1"	Pcs	50	10,000	500,000
	formwork timber 4x2"	Pcs	30	5,000	150,000
	Wire nails	Kgs	75	5,000	375,000
	<b>Subtotal</b>				<b>11,525,000</b>
	<b>Labour</b>		20%		<b>2,305,000</b>
	<b>Contingencies</b>		5%		<b>576,250</b>
	<b>Total building frame</b>				<b>14,406,250</b>
<b>B</b>	<b>WALLING</b>				

	0.23x0.15x0.06m burnt clay bricks	No.	50000	300	15,000,000
	Cement	Bags	65	40,000	2,600,000
	Sand	4T Trips	5	200,000	1,000,000
	Whoop iron	Rolls	15	45,000	675,000
	<b>Subtotal</b>				<b>19,275,000</b>
	<b>Labour</b>		20%		<b>3,855,000</b>
	<b>Contingencies</b>		5%		<b>963,750</b>
	<b>Total walling</b>				<b>24,093,750</b>
<b>C</b>	<b>INTERNAL FINISHES</b>				
1	<b>Plaster to walls</b>				
	Cement	Bags	94	40,000	3,760,000
	Sand	4T Trip	6	200,000	1,200,000
2	<b>Paint to internal walls</b>				
	Undercoat paint	20L jerrycan		68,000	-
	Silk vinnyl paint	20L Tin		265,000	-
4	<b>Floor finishes including splash apron</b>				
	<b>Screed</b>				
	Cement	Bags	34	40,000	1,360,000
	Sand	Trips	4	200,000	800,000
	<b>Subtotal</b>				<b>7,120,000</b>
	<b>Labour</b>		20%		<b>1,424,000</b>
	<b>Contingencies</b>		5%		<b>356,000</b>
	<b>Total internal finishes</b>				<b>8,900,000</b>
<b>D</b>	<b>EXTERNAL FINISHES</b>				
1	<b>Render</b>				
	Cement	Bags	38	40,000	1,520,000
	Sand	Trips	4	200,000	800,000
	Stone cladding	Sq.m	16	85,000	1,360,000
2	<b>Paint</b>				
	Undercoat	20L jerrycan		68,000	-
	Weatherguard paint	20L Tin		265,000	-
	<b>Subtotal</b>				<b>3,680,000</b>
	<b>Labour</b>		20%		<b>736,000</b>
	<b>Contingencies</b>		5%		<b>184,000</b>
	<b>Total External finishes</b>				<b>4,600,000</b>
<b>E</b>	<b>DOORS, WINDOWS &amp; RAILINGS</b>				
1	<b>Steel doors including glass</b>				
	1.5 x 2.4m high door	No.	7	450,000	3,150,000
	0.9 x 2.4m high door	No.	3	350,000	1,050,000
2	<b>Internal timber doors</b>				
	0.9 x 2.4m high door	No.	3	450,000	1,350,000
3	<b>Windows including glass</b>				
	1.5 X 1.2m high window	No.	55	450,000	24,750,000
	0.6 X 0.9m high window	No.	2	200,000	400,000
4	<b>Railing</b>				
	Steel railing to balconies	No.	1	3,200,500	3,200,500
	<b>Subtotal</b>				<b>33,900,500</b>
	<b>Labour</b>		5%		<b>1,695,025</b>
	<b>Contingencies</b>		5%		<b>1,695,025</b>
	<b>Total Doors, windows &amp; railings</b>				<b>37,290,550</b>
<b>F</b>	<b>ROOF</b>				
	30 Gauge roofing sheets	No.	281	50,000	14,050,000
	4 x 2" timber	No.	620	5,000	3,100,000
	6 x 3" timber	No.	198	8,000	1,584,000
	Wood preservative	Jerrycans	10	45,000	450,000
	Wire nails	Kgs	75	5,000	375,000
	Roofing nails	Kgs	75	6,000	450,000
	Rubber washers	Pkts	15	5,000	75,000
	<b>Subtotal</b>				<b>20,084,000</b>



<b>Labour</b>	20%		4,016,800
<b>Contingencies</b>	5%		1,004,200
<b>Total Roof</b>			<b>25,105,000</b>

**SUMMARY**

ELEMENT	AMOUNT (UGX)
A Substructure	35,637,500
C Building frame	14,406,250
C Walling	24,093,750
D Internal finishes	8,900,000
E External finishes	4,600,000
F Doors, windows & railings	37,290,550
G Roof	25,105,000
<b>Grand Total</b>	<b>150,033,050</b>