

## Bwacha Basic School



### Overview:

Bwacha Basic School is located within Kalomo town in the Southern Province of Zambia. Around 600 households surround the immediate school premises.

The School was founded in 2006 by a community member using his house as a classroom in order to address the number of children in the neighbourhood who were not attending school.

The community were so determined to continue sending their children to school that they decided to mould bricks and buy a piece of land to build a classroom block - a year later they were so successful they became a government school.

Approximately 650 pupils attend Bwacha Basic School, of which 80% live within a 1km radius - the rest live as far as 6km away.

The reason for supporting Bwacha was the noticeable lack of facilities to accommodate an ever increasing attendance. Many children had in fact stopped attending and would walk as far as 10km to attend other schools.



### Programme of Support:

When the ARZ team first visited Bwacha in 2014, we discovered that the school, although well maintained, was unable to accommodate the 650 enrolled pupils within 6 classrooms.

Often multiple classes were held together in the same classroom, or sometimes even outside under a tree. We established the ratio of latrine to pupil use was 1/110.

The following programme was designed and implemented with funding from Guernsey Overseas Aid Commission:

- 1x3 Classroom Block with office and library - now complete.
- 2 Latrine Blocks with 4 stances each for boys and girls, including 1 shower for girls and 1 urinal for boys - now complete.
- 1 Latrine Block with 2 stances for the staff - now complete.
- Learning aids and teaching resources including Government approved books - delivered.
- Furniture for the 3 classroom blocks, office and library - manufactured and delivered.

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**Programme Implimentation:**

The classroom block was the first element of the programme to be implemented, as it was deemed the greatest need for the school by both and teachers and parents.

The contract was signed and the builders commenced work in June 2016. However, due to unforeseen circumstances, the contractors were delayed in the building process which had a knock on effect - disrupting scheduling and the transport of materials. The delay impacted the timeline of project delivery and increased staffing costs - outlined in the budget.

As soon as the materials were ordered and delivered, weekly monitoring by our Projects Officer, Dave Sangweni, began and the community were able to complete the digging of the foundation so that building could commence.

There were four stages to the building process:

**Stage one:** laying the foundation, footing and slab.

**Stage two:** block work up to the level of the window and the setting of the window and door frames.

**Stage three:** construction of the strong room (to meet government standards), beam filling, roofing, plastering and flooring.

**Stage four:** the fixing of the doors, windows, interior fixings, painting, and drainage and site clearance.

Now complete the classroom block has added an extra 50% more capacity space for teaching. As a result several classes are no longer sharing one room. The overall teaching and learning environment has drastically improved.

**Furniture & Teaching Materials:**

With three additional classrooms, and potentially 100 more pupils, the need for desks and furniture was a necessity. Not only were the classrooms in need of desks and chairs, but the new library was in need of shelving for the additional teaching and learning materials such as books, paper and learning aids.

Before GOAC's generous contribution 3 pupils were sharing 1 desk however, now that both the furniture and the books have been delivered the pupils are enjoying a more inspiring learning environment, which in turn leads to improved learning outputs.

The desks were made by a local company and books were delivered from the District Education Board in time for the handover ceremony in December 2016.



Children in front of their new classrooms



"With the new staff room we can now prepare our lessons appropriately and have a space to discuss school issues without having to sit under a tree."  
Charity, Head Teacher



### Latrines for girls, boys, & staff:

The foundations for the latrines for pupils were dug in August, swiftly followed by brickwork - with reinforcement also laid. The slab was completed shortly after with the blocks, concrete roofing, plastering and flooring completed by early September. The final touches were made and the latrines were completed by mid-September 2016. The new government approved latrine designs incorporate washrooms for girls. This provides them with privacy and reduces absenteeism associated with menstruation.

*"I know we are getting a changing room / shower for the girls and I am very thankful. We don't have to hide anymore."*

*Pupil - Maria, 12*

The school staff latrines were also completed and teachers are thankful to have these new facilities, affording them privacy - previously 19 teachers shared 2 latrines.



Staff Latrine Construction



A total of 10,500 bricks, 110 tonnes of stones, and 90 tonnes of river sand were provided by the parents towards the school's development. This not only demonstrates a strong commitment on all levels to the development of the school, but also presents an "in-kind" financial input to the project by the community - estimated to be around £2,800.

### Project Impact:

The 650 pupils that regularly attend Bwacha Basic School, along with their families and the local community, will be the direct beneficiaries of this project – increasing year on year as more children pass through the school.

Providing a good educational environment and sanitation facilities will help Bwacha Basic School secure good teaching staff. The attraction, and retention of well trained staff is incredibly important in rural schools - research conducted by Stanford University found that 'high value-added' teachers can generate significant additional earnings for their students during the course of adult lives.

Over time improved education in the district will have numerous positive impacts.

Community members have reported increased enrolment rates, now that Bwacha has sufficient facilities and resources. This means that Bwacha now qualifies for further government funding and more children are likely to pass their grade 7 exams and move on to secondary school.

Improved education has also been shown to have a causal and direct impact on many social markers such as: sanitation, health and mortality, nutrition, and civic participation - all aiding rural development, and eventually lifting children and families out of poverty.



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## Financial Overview

BWACHA					
1 x 3 classroom block					
	Total Budget ZMW	Total Budget £	Spent to (31.03.2017) ZMW	Available to spend/ Variance (ZMW)	Comments / Assumptions
Project set-up	5,625	450	5,625	0	community consultation & sensitisation / preparation workshops and tender documents, appointment contract etc
Materials	144,688	11,575	149,392	-4,705	Materials had increased in price between project design and implementation.
Transport	53,594	4,288	1,135	52,459	This was overbudgetted in error in the initial budget.
Local labour	0	0	0	0	
Main contractor	40,000	3,200	33,000	7,000	
Inspection fees	2,500	200	250	2,250	structural engineers and MOE inspections
Equipment & Tools	7,500	600	2,520	4,980	for site clearance, community tools were used but will be replaced within the next week
Other Project costs incl .sundry items like site security guards & site storage	0	0	0	0	
Maintenance support	7,500	600	7,500	0	Based on 2 visits p.a. for 3 years, this is yet to be spent, but is a fixed cost.
<b>Subtotal 1</b>	<b>261,406</b>	<b>20,913</b>	<b>199,422</b>	<b>61,984</b>	
Contingency @ 10%	26,141	2,091		26,141	
Project Support @ 15%	39,211	3,137	70,732	-31,521	Procurement, project coordination & management, technical support, monitoring, accounts, reporting etc.  Delays caused by supplier issues meant staff time allocations were much higher than anticipated.
<b>Subtotal 2</b>	<b>65,352</b>	<b>5,228</b>	<b>270,154</b>	<b>-5,380</b>	
<b>TOTAL PROJECT</b>	<b>ZMW 326,758</b>	<b>£26,141</b>	<b>270,154</b>	<b>56,604</b>	
exchange rate	12.50				

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## Final Donor Report – Guernsey Overseas Aid Commission



BWACHA					
Latrine block - 4 stances					
	Total Budget ZMW	Total Budget £	Spent to (31.03.2017) ZMW	Available to spend/ Variance ZMW	Comments / Assumptions
Project set-up	2,813	225	2,813	0	community consultation & sensitisation / preparation workshops and tender documents, appointment contract etc
Materials	14,500	1,160	36,685	-22,185	Materials were more expensive on procurement
Transport	23,088	1,847	1,180	21,908	This was overbudgetted in error in the initial budget.
Local labour	0	0	0	0	incl. security guard & store keeper
Main contractor	13,750	1,100	19,000	-5,250	Contract initially budgetted at 11,000. Between programme design and implementation the government latrine design changed to include a urinal & washroom so the construction cost was more than expected.
Inspection fees	1,563	125	250	1,313	structural engineers and MOE inspections
Equipment & Tools	3,750	300	1,630	2,120	Some tools were supplied by the community
Other Project costs incl .sundry items like site security guards & site storage	0	0	0	0	if secure site storage is not available on site and security is required
Maintenance support	7,500	600	1,200	6,300	based on 2 visits per year for 3 years post completion: NB. This has not yet been spent, but is a fixed future cost (200K per visit)
<b>Subtotal 1</b>	<b>66,963</b>	<b>5,357</b>	<b>62,758</b>	<b>4,205</b>	
Contingency @ 10%	6,696	536	0	6,696	
Project Support @ 15%	10,044	804	13,590	-3,546	Procurement, project coordination & management, technical support, monitoring, accounts, reporting etc.  Delays caused by supplier issues meant staff time allocations were much higher than anticipated.
<b>Subtotal 2</b>	<b>16,741</b>	<b>1,339</b>	<b>76,348</b>	<b>7,356</b>	
<b>TOTAL PROJECT</b>	<b>83,703</b>	<b>6,696</b>	<b>76,348</b>	<b>7,356</b>	
exchange rate	12.50				

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BWACHA					
Furniture & teaching materials					
	Total Budget ZMW	Total Budget £	Spent to (31.03.2017) ZMW	Available to spend/ Variance ZMW	Comments / Assumptions
Project set-up	1,563	125	1,563	0	community consultation & sensitisation / preparation workshops and tender documents, appointment contract etc
Materials	59,375	4,750	63,850	-4,475	
Transport	750	60	140	610	
Local labour	0	0	0	0	
Main contractor	0	0	0	0	
Inspection fees	0	0	0	0	
Equipment & Tools	0	0	0	0	
Other Project costs incl .sundry items like site security guards & site storage	0	0	0	0	
Maintenance support	0	0	0	0	
<b>Subtotal 1</b>	<b>61,688</b>	<b>4,935</b>	<b>65,553</b>	<b>-3,865</b>	
Contingency @ 10%	6,169	494		6,169	
Project Support @ 15%	9,253	740	11,340	-2,087	Procurement, project coordination & management, technical support, monitoring, accounts, reporting etc.  Delays caused by supplier issues meant staff time allocations were much higher than anticipated.
<b>Subtotal 2</b>	<b>15,422</b>	<b>1,234</b>	<b>76,893</b>	<b>4,082</b>	
<b>TOTAL PROJECT</b>	<b>77,109</b>	<b>6,169</b>	<b>76,893</b>	<b>217</b>	
exchange rate	12.50				

Project	Total Budget	Total Spend	Total Variance
1x3 CRB	326,757.81	270,154	56,603.81
Latrines	83,703	76,348	7,355
Furniture & Teaching Materials	77,109	76,893	217
<b>Totals:</b>	<b>487,570.31</b>	<b>423,395</b>	<b>64,176.13</b>
<b>Contingency Spend: UK transferred a total of K469,485 due to currency fluctuations - deficit of K18,085 from the original total</b>			<b>-18085</b>
Total Remaining for possible spend on additional projects			46,091.13
Total in GBP			3,840.93

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