

1. SUMMARY

1.1 Overview

This is the final report for the work done at **Shree Kiulethane Basic School** located in Gufa village as required by the Contract of Acceptance dated 9 April 2017 and follows the interim report Mondo sent on the 4 November 2017.

The whole of the school's facilities were affected by the April 2015 earthquake, which impeded the school's ability to operate. We requested funds to help with the dismantling of older buildings, rebuilding six new earthquake-resilient classrooms, constructing a toilet building, providing fencing for the playground and funding for continued teacher support.

We are pleased to report that we have completed all the work we had requested in our proposal.



New earthquake-resilient school in Gufa

Perhaps the best way to see the impact of the work is to watch these two short videos.

The one on the left was recorded last July when the work had started. The second film shows Jimmy Lama, our Country Director outside the completed school in February this year.



1.2 Overall aims of the project

The project's aim was to build sufficient earthquake-resistant classrooms and a toilet block, plus other facilities such as fencing and playground, to enable the children who are currently being taught in TLCs to return to proper classrooms as soon as possible.

1.3 Summary of results to date.

The new earthquake-resistant school building, together with a new toilet block and boundary fencing, has been successfully completed and came into use in January 2018, **2 months ahead of schedule**. Currently 126 students aged 5 to 14 are enrolled and being taught by 7 teachers of which one teacher is funded using the funds provided by Fondation Eagle.

Total direct cost of construction (including preparation) was **Rs. 64,86,250.61 or £51,070**. We overspent on the budget because the costs of deconstructing the older building were higher than anticipated. We also incurred higher costs in ground leveling work, constructing the new toilet building and the fencing. (see below). Indeed, since we started the building of this project we estimate that the price of raw materials has increased by 8.2% making this the highest inflation rate in South Asia¹

The overspend has been funded by donations from wider Mondo supporters.

The teacher salary of £2,500 over two years is as per the agreed budget and it will continue through to the March 2019.

There were minor modifications to the original proposal but in all fundamental aspects the building has been completed according to the original specification.

¹ <http://www.myrepublica.com/news/2273/>

2. IMPLEMENTATION

As referred to in the interim report, there were delays in the early stages caused by the requirement of the villagers that the playground be enlarged, which led to additional site leveling work. This is also one of the factors causing the budget overspend. Nevertheless, and in spite of consequential challenges in obtaining labour and materials through the monsoon season (late May to end of August), the project was completed without possible delay. The fact that we completed most of the building work during the monsoon is in itself a very significant achievement and shows the commitment of not just the local community and workers, but of the HELP team on the ground.

There were modifications to the classroom sizes required by new Government Standards (refer Interim Report) but these were accommodated by amending the layout within the structure and through careful control did not increase the overall classroom building cost. As referred to in the interim report, there was a change to the specification of the toilet building which is larger, as required by the villagers, and has been constructed with bricks rather than hollow concrete blocks. This was recommended by the engineer to both significantly increase its lifespan and provide earthquake resistance. The cost is £6500, which is £3000 over budget. As a result of the site amendment referred to above, the boundary fence has considerably increased in length. It is 600ft and this has resulted in an overspend of £1120 to the original budget of £1500.



The deconstruction of the old damaged school and the construction of the new one was overseen by our site supervisor, Mr. Surya Gole and the detail managed by the School Management Committee in close consultation with our Country manager, Jimmy Lama and his local team. We hired a local Engineering firm, *EntraSpace* for engineering support whose Engineers visited the project site frequently.

We have also had an independent Engineer friend from the UK, Alastair Norris, (see left) visited the site and gave us feedback during the mid-phase of the construction project.

2.1 Dismantling Old Buildings and ground levelling

We put 15 locals to work for over 20 days to dismantle the old building. As the breaking of the concrete slab in the deconstruction of the building was technical work, we hired four building dismantlers from Kathmandu to assist the locals. Ten trucks were used to remove the debris from the site. In total, we spent Rs. 3,25,000 or approximately £2500 on it. This was £500 more than we had estimated.



The original school which needed to be dismantled.



The head teacher of the school



2.2 Construction of New Classrooms

The building of six classrooms started in early May and are now complete. Alongside the six-room building, we have also completed a two-room rammed earth building providing a total of eight classrooms for the school.

A new Government Standard came into force in March 2017, requiring classrooms to be increased in size to 20x24ft, which added to the challenges faced by the team. As a result, we built four large classrooms 2 of the increased 20x24ft and two of 30x18ft which has been partitioned with plywood to yield 4 classrooms of 15x18 feet which will meet the school's current needs.

NB: The school plans to further upgrade the school to run up grade 10 in the future, so have requested the District Education Office for any more rooms they might need in the future.



The construction of the new buildings required some preparation. The site required excavating and leveling, and the resultant earth needed to be removed. This necessitated the hiring of specialist labour and earth-moving equipment, and took 10-12 days to complete. The new classroom block has been constructed using reinforced brick-built masonry and is a 'Truss-Model' building, metal framed, reinforced brick construction with a trussed roof and suspended ceiling.

Including the site clearance cost, we have spent £36,835.



2.3 Toilet Building Construction:

The new toilet building has been built next to the rammed earth building. The building plans call for a block of 8 cubicles, 3 for boys, 3 for girls and 2 for staff – a larger size than we initially planned as the locals and the DEO insisted that a bigger toilet building is required in order to be able to upgrade classes in the future.

The previous toilet building was to be built out of hollow concrete block but the one we have built called for brick masonry. This meant that the costs have gone up. The construction started in late September, work was halted during the first half of October month due to the Dasain/Diwali holiday period, but recommenced mid-October and the work is now complete. Each cubicle is sized 5 by 6 feet, fitted with running water and has a proper door and ventilator. A septic tank is built just outside the toilet building, which is 10 feet deep and 12 feet diameter in size.

Due to the change in the design and use of brick masonry, the total cost £6,500, which has been the biggest overspend on this project.

Toilet block in construction



Toilet block completed with outside tap.



2.4 Compound Fencing

As we described in the interim report, the shifting of the building location to a new site meant that the size of the fencing increased too. Vastly differently from our original estimation to install 280 feet long fencing, we were required to fence the boundary that at the end measured just over 600 feet in total. The work on fencing commenced in early December 2017 and was completed by early February.

The wire netting and metal poles used for fencing the boundary were fixed underneath the ground with concrete course, which is strong enough to withstand cattle breaking in. It cost us £2,620.



The perimeter fence has been completed and students are now safe.

2.5 Teacher Support

The need for supporting the English teaching has been satisfied and the teacher, Mr. Bhim Badahur Tamang was employed from an early stage and will continue to teach at the school for the two years period ending March of 2019.



Bhim is extremely committed and is working with groups of students across the school. Along with the other teachers Mondo supports he will receive regular training from HELP staff which includes understanding of the Mondo 'Self Evaluation Framework' introduced to enable schools to both assess and monitor key areas they want to improve in their school.

Testimonials

"We are pleased that MondoChallenge Foundation and HELP have not only taken care of building support but also teachers support, which is crucial for the quality of education we are aspiring to achieve. By all standards, this is a comprehensive support that any school we know in the region has received from other NGOs. It is our hope that your support shall continue in the future and our plan is to grow to become a secondary school"
Ganesh Prasad Oli. School Headteacher

"We much appreciate the work being done throughout the monsoon period when transportation of the building materials to the village was a challenge. We apologize that we have not been able to gather all the manpower required during the monsoon period but very thankful that HELP has managed to get us additional support including a very skillful construction supervisor"
Sherap Dorje Tamang, the chair of the School Management Committee.

"Obviously, our next challenge is to ensure quality of education, so we request continuity of the teacher's funding as well as getting us volunteers like in the past. To meet our plan to upgrade our grade, we will also explore for other support that we will need such as more classrooms"
Purna Tamang, Chairman of Parents Teachers Association.



Jimmy (far left) with the village and school committees at the start of the project

3. BUDGET

The budget for this build was monitored very closely. The remote nature of the school site, the challenge of the Monsoons, sourcing materials and also building the Rammed-Earth classrooms at the same time meant that this project was complex and demanding.

The table below shows the expenditure against the budget.

S.No	Items	Original Budget in £	Spent in £
1	Deconstruction of older building	2000	2500
2	Construction Six Classroom Building	36000	36,835
3	Construction of toilet building	3500	6500
4	Fencing and school gate	1500	2620
5	Teacher salary	2500	1250*
6	Admin	4550	4550
	Total	£50,050	£54,255

* A further £1250 to be spent for the year to march 2019

A detailed breakdown of the building costs is included in an appendix

CONCLUSION:

Between Eagle funded classrooms and Rammed Earth building, we will have built eight classrooms. Our budget on track on most items, however due to higher cost on toilet building, fencing and building demolition, we have overrun budget by £5,455. We have devised a plan to cover this extra cost from various other sources.

We would be very keen for a representative of the Foundation Eagle to visit the schools the organisation has supported in Nepal. Stephen will be travelling to Nepal in May this year and would be willing to arrange for a tour of the schools or provide any further information on the work of Mondo and HELP and the school building programme.



Pupils outside the completed classrooms

Stephen Carrick-Davies and Jimmy Lama
21 February 2018

Appendix

Classroom Building Detail Costs at Gufa					
S.No:	Items	Qty	Unit	Rate	Amount
1	Pre-building expenses				
1.1	Design and Engineering Support	1		150000	120000
1.2	Ground Levelling			400000	400000
1.3	Visits and meetings			75000	50000
	Sub Total				625000
2	Materials				
2.1	Cements	417	Bags	800	359355
2.2	Sand	22.5	trips	4940.222222	111155
2.3	Aggregate	4.5	trips	5236.666667	23565
2.4	Bricks	27000	pc	14	378018.9
2.5	Stone	40	trips	7000	280000
2.6	Rebar, 12mm=3 , 10mm=4, 6mm=6 bundles	13	Quintals		82445.55
2.7	Doors Frames and Shutter	55.18	cubic ft.	2599	179745
2.8	Windows Frames and Shutter	19.5	cubic ft.	4700.8	341265
2.9	Roofing Materails (CGI, Truss and Perlins, Fiber and Plane Sheets)				838258
2.1	Painting				35785
	Sub Total				2629592.45
3	Labour				
3.1	Skilled	366.7553191		1175	430937.5
3.2	Unskilled	279.0697674		1075	300000
3.3	Doors & windows and glass fitting charge				12800
3.4	Painting				29700
3.5	Porterage (Unloading and road maintenance)				2250
	Sub Total				773437.5
4	Transportation				
4.1	Trucks from Kathmandu Eicher	14	trips	18000	252000
4.2	Trucks from Melamchi Eicher	8	trips	10136.5	81092
4.3	Trucks from Kathmandu 4 wheel	1	trips	17000	17000
4.4	Trucks from Melamchi 4 wheel	21	trips	9588.952381	201368
4.5	Bus from Kathmandu(Window shutter)	1	trip	4000	4000
4.6	Jeep cost(for painting material)	1		5000	5000
	Sub Total				560460
5	Miscellaneous (Incl Building tools)				89770
	Total in Nrs.				4678259.95
	Total in GBP (£1=Nrs. 127) (round figure)				<u>£ 36,835</u>

THANK YOU

