

1. Summary

1.1 Overview



This is the interim report for the work done at **Shree Bhotenamlang Secondary School** located in Bhotenamlang Village. The school's facilities were wholly affected by the April 2015 earthquake, which impeded the school's ability to operate. We requested funds to rebuild and repair the damaged structures at the school.

In our proposal, we requested funds to build six new classrooms, four room toilet buildings and setting up ECD room. The plans are intact as per the original proposal. We must however admit that the project completion date will be delayed by few months. Our original plan was to complete everything by the end of April, which is looking unlikely.

The only adjustment we have made in the plan is that the new building is being built in a new piece of land acquired by the school. This was the site on which the temporary learning centers were built. This is because the current building design was not suitable at any of the locations in the school's existing land site and any effort to obtain additional piece of land adjacent to the old site to fit in the buildings was not successful. However, the distance between the previous site and the current site is less than 50 meters apart, so literally within two minutes the students can walk between the two sites. The ownership of the new land has been legally transferred in the name of the school. In this context, we would like to acknowledge with huge gratitude the hard work and the dedication the School Management Committee and the local villagers in securing the new piece of land within few weeks. Without that, our ability to start on the building work would have been delayed.

The preparation work before starting the construction included shifting the temporary learning center, which was done in between the Dasain and Deewali holiday in late October. In the period of November until mid December, the work could not go ahead due the general election in Nepal. Soon after that, we appointed a full time on-site engineer by name of Pankaj Mandal to supervise the work. We also had to go through the soil testing of the new land, which was positive. On the 31st of December, the building work was formally started with foundation laying ceremony. At the event, we presented to the villagers the full scope of our work and unveiled a plan of what the new building would look like along



with the cost estimated. The vice-chair of National Planning Commission of Nepal Government Dr. Swarnim Wagle was present for the ceremony. Invited guest was also the Chairperson of the PaanchPokhari-Thaangpal Rural Municipality.

Overall aims of the project

Our aim is to build enough classrooms in an earthquake resistant manner to enable the school to run up to 10th grad, enabling children return to proper classrooms as soon as possible. To do this, we will build 12 classrooms of which Fondation Eagle will fund 6 classrooms plus toilet building and other facilities. The school, which has over 600 children, will still be needing more facilities, which we will encourage the local government to take care of in the future.

1.2 Summary of results to date

We have completed the foundation work of the building. High quality timbers (*saal* or *shorea robusta*)



are used for windows and door, which have been either delivered or are in order. Other building materials such as cement, rebar, CGI, iron metals and local materials like sand and aggregate have been delivered in sufficient quantity to meet the work need up to a week in advance. The building will be prepared for slab casting around the last week of March after which the work on second storey will start. We shall begin the toilet construction as soon as the roof has been cast, which is scheduled by mid of May. Once the buildings are over, we will also furnish the ECD room.

2. Implementation

Around 20-25 people are currently working on the construction site, led by a dedicated site supervisor (Mr. Punkaj Mandal). The workforce are mainly locals who are trained masons and also features at least four village masons who were trained at the masonry training programme we conducted in late 2015. Consistent with our general approach, this has ensured further participation of the local community in reconstruction efforts. In addition, we are also employing an additional workforce from Kathmandu for efficiency reasons.



A senior engineer from the consultant firm we are using called EntraEspace and District Education Officer constantly monitored the progress of the construction work. In particular, since the reinforced concrete structure is fairly technical, the Engineers specifically supervised the construction during all critical phases. We also invited a senior Engineer by the name of Alastair Norris from a reputed UK engineering firm to visit the site. He visited twice; one in early days in January during the foundation planning and another in late February when the foundation work was done.

The construction process is being managed by our highly dedicated team, comprising our in-country staff, plus an engineer and site supervisor as mentioned above, together with the school management committee. The Mondo Programme Manager, Anna Brian, visited the site a couple of weeks ago in early March and our trustee, Nitish Upadhaya together with the Mondo's chair, Simon Cowley is scheduled to visit in May.

2.1 New buildings

We began the construction of the new classrooms in the first week of January 2018 and we have completed the foundation work and most of the brick wall up to the first floor. Doors and windows frames have been installed. Around the first week of April, the slab casting work is schedule, which means the most critical work on the building will have been executed. Meanwhile, an eighteen feet long staircase in between the two buildings is also being built.



All the buildings were designed using sophisticated software, which helped to model an earthquake resilient frame structure. The reinforcements to the classroom building have been developed in line with structural analysis and modelling conducted through this software. This has allowed us to create a bespoke frame design in accordance with a performance-based design philosophy. Red bricks have been used for the in-fill wall.. We ensure that the bricks we are using are of the highest quality. In addition, the in-fill wall system is

strengthened by use of earthquake resilient steel bands which tie the wall to the frame.

Of the 12 classrooms being built, we would like to allocate six classrooms being built in the two-storey building to Eagle, and the others to other donors such as BFSS and Leonardo Company. Two staff members and several apprentices from the Leonardo Company will visit Nepal and Bhotenamlang site in May who will visit the project as it is being progressed.

The size of each classroom is 325 square feet. We will be paying close attention to keep the budget within £8,000 each but it looks like there will be slight increment due to the ground leveling work and shifting of Temporary Classrooms, which we can cover using the contingency funds. Our costs are still less than the cost of building classrooms by other agencies in the region such as Plan International and JICA.

We have so far spent Rs. 70,50,000 or approximately £50,500 of which £25,000 was the funds from Fondation Eagle.

On the toilet building, we have booked cements and rebar worth £1000.

3. Budget

S.No	Items	Original Budget in £	Spent in £	To Spend in £
1	Six Classrooms	48,000	24,000	24,000
2	Toilet Building and septic tank	4,000	1000	3000
3	ECD (Nursery) room and furniture	750	0	750
4	Admin	5275	2500	2775
5	Contingency funds	2900	0	2900
	Total	£60,925	£27,500	£33,425

Notes:

Between Eagle, BFSS and Leonardo, we have secured approximately £116,925. The budget shown above only takes account of the Eagle funding. The detail cost breakdown on how much has been spent is shown below.

We thank you for your continued support.

Stephen Carrick Davies and Jimmy Lama
25 March 2018

Detail of the funds spent on Bhotenamlang as of 15 March 2018.

Bhotenamlang School Reconstruction Expenses Reconciliation as of 15 March 2018								
S.N	Items	Direct Exp			Indirect Exp		Amount	Total Amt
		Qty	Unit	Rate with tax	Unloading exp	Road tax		
1	MATERIALS							
1.1	Cement							
	OPC	585	bag	985.32			576416.9	
	PPC	215	bag	844.83			181639.59	
	Total	800						758056.49
1.2	Brick							
	Brick	20000	piece	16.0008			320016	
	Brick	9000	piece	15.9895			143905.5	
	Total	29000						463921.5
1.3	Steel Rod							
	16mm	5380	kg	83.077			446958.59	
	12mm	945	kg	79.1			74749.5	
	8mm	956	kg	82.49			78860.44	
	12mm	625	kg	79.9927			49995.4375	
	16mm	520	kg	79.9927			41596.204	
	8mm	830	kg	84.9986			70548.838	
	12mm rod	107.6	kg	87.01			9362.276	
	12mm	756.01	kg	86.22			65181.77	
	8mm	391.1	kg	89.44			34979.788	
	10mm	110	kg	86.5015			9515.165	
	8mm	852.7	kg	90.4904			77161.16408	
	16mm	185.4	kg	87.01			16131.654	
	10mm	1316.2	kg	85.0099			111890.0304	
	Total	12975.01						1086930.857
1.4	Aggregate							
	Aggregate	3	trip	4500			13500	
	Aggregate	1	trip	4100			4100	
	Aggregate	2	trip	7500			15000	
	Aggregate	4	trip	4699			18796	
	Aggregate	1	trip	5100			5100	
	Aggregate	2	trip	9340			18680	

	Aggregate	1	trip	9040			9040	
	Aggregate	2	trip	9190			18380	
	Total	16						102596
1.5	Sand							
	Sand	3	trip	6500			19500	
	Sand	3	trip	7700			23100	
	Sand	3	trip	7200			21600	
	Sand	3	trip	13500			40500	
	Sand	4	trip	15040			60160	
	Sand	6	trip	14706.57833			88239.47	
	Total	22						253099.47
2	Tools and Equipment							
	Pipe 20mm	600	meter	36.16			21696	
	wheel barrow tabe and nuts						1200	
	Wheel barrow	6	piece	4000			24000	
	GI wire						1031.012	
	Binding wire	147	kg	120			17480	
	Kalocs	74.6	kg	107.35			8008.31	
	Black wire	51	kg	110.0055			5610.2805	
	GI wire	2	kg	110.0055			220.011	
	Total							79245.6135
3	TLC Expenses							
	TLC Exp						172000	
	Total							172000
4	FORM WORK							
	Plywood	5	piece	2800			14000	
	Local Timber & Furniture						80200	
	Total							94200
5	LABOUR							
	Mangsit to poush						520400	
	Labour	Magh Month					167600	
	Labour	Falgun Month					614600	
	Total							1302600
6	Land Rent	Inventory store					50000	
	Total							50000

7	Loading /Unloading							
	Sand Loading to School							250000
	Cement,Rod & other							4200
	Cement,Rod & other							1699.6
	Total							255899.6
8	TRANSPORTATION							
	Transortation of brick	6	trip	27000	5800			167800
	Transortation of aggregate	9	trip	10000		7830		97830
	Transortation of aggregate	2	trip	15000		3080		33080
	Transporation of cement	3	trip	10000				30000
	Transportation of sand	9	trip	10000		7830		97830
	Transportation of sand	3	trip	15000		4620		49620
	Transortation of aggregate	3	trip	15000				45000
	Transporation of cement	1	trip	27000				27000
	Transportation of sand	4	trip	15000				60000
	Transortation of aggregate	2	trip	15000				30000
	Transporation of cement	2	trip	27000				54000
	Transportation of sand	8	trip	15000				90000
	Transport of Timber	2		7500				15000
	Total							797160
9	Engineering Support							450000
10	Advance for further Material Purchase							1200000
	Total in Nrs	-	-	-	-	-	-	7065709.53
	Total in GBP	-	-	-	-	-	-	50469.35379