

## Rotary Club of Kathmandu

District 3290, Nepal

# **Project Description**

Date: 27. October 2006

## Submitted for Sydthy Rotary Klub, District 1440, Denmark

Project: Reconstruction of Pikee Lower Secondary School

Location: Loding, Thamakhani ward no 7, Solu-Khumbu District, Nepal

## **Preface**

Main building was build in 1961 by Sir Edmund Hillary (first ascender of Mt. Everest). In beginning of this decennium government supplemented the school with an extra building with two classrooms. In 2005 RRN (Rural Reconstruction Nepal (an UNDP organisation)) and Himalayan Trust (the organisation supporting Hillary's work) supported by giving wooden ceiling in this new building and new furniture for the whole school.

The school is run as a Lower Secondary School; means up to 7. class. It has recently received approval running the 8. class.

Seven teachers salaries are paid by Government and one (the 8. class teacher) is privately paid by parents.

Most educational materials are paid by government with supplementary delivery by Himalayan Trust.

6.-8. class pay a school fee on 320 Rs yearly -1-5 class are free.

Seven government teachers:

gar 31 educ. 10	+2 employed at school 10 years
educ. SL	C (10. class) employed at school 11 years
educ. 10	+2 employed at school 1 years.
educ. 10	+2 employed at school 2 years
educ. SL	C employed at school 1 years
educ. 10	+2 employed at school 10 years
educ. SL	C employed at school 23 years
	educ. SL educ. 10- educ. 10- educ. SL educ. 10-

#### Number of students in 2005: 104

	Girls	Boys
1. class	10	8
2. class	5	4
3. class	5	5
4. class	5	5
5. class	5	3
6. class	13	18
7. class	9	9

80% of students join the education every day.

All teachers educate in all subjects. Teachermeetings every second month.

Parents meetings twice a year.

School managing Committee meetings when needed.

The main building of the school of Loding Village burned down in April 2006 of still unknown reasons. The one separate building were saved, as well as half of the students furniture, but the rest of the school were burned down to the ground.

In June 2006 a Rotarian from Rotary Club of Kathmandu, rtn. Bishnu Subedi visited Sydthy Rotary Klub, District 1440, Denmark with two rotarians from Skivehus Rotary Klub, District 1440, Denmark rtn. Thøger Berg Nielsen and Kurt Lomborg telling about this acute situation of Loding School.

On 1. August 2006 rtn. Bishnu Subedi visited the site in Loding giving a fresh report.

In September Sydthy Rotary Klub expressed that they were ready to proceed in funding the project of reconstruction, as soon as details were available.

On 11. October there were a meeting in Kathmandu with Chairman of School Construction Committee Mr. Krishna Gopal Shrestha, Headmaster of Loding School Chet Bahadur Magar, rtn. Bishnu Subedi, rtn. Kurt Lomborg, External Consultant Namgyal Jangbu Sherpa

This meeting resulted in a preliminary report submitted to Sydthy Rotary Club, Denmark.

The reconstruction of the school has started and today the walls are completed as well as the wooden structures of the roof.

The tin roof has been ordered and are on the way.

The naked and empty building is expected to be completely finished in December 2006 During the hard winter of January and February nothing will happen.

But in Marts 2007 the Construction Committee will be eager to continue furnishing the buildings and the compound around the school.

The account per this date is:

Support from Himalayan Trust 500.000 NRS

(recommended by Sir Edmund Hillary personally)

Roof ordered in Dharan 300.000 NRS
Prepaid for shop -100.000 NRS
Loan from shopowner 200.000 NRS
Debts on salary for craftsmen -150.000 NRS

Remaining debts 350.000 NRS

Expected full price for the naked and empty school 850.000 NRS

Budget on remaining funding for construction of the building:

Amount on fixed bank account for specified purposes

260.000 NRS

Among which is "PC-upgrade fund" for purchasing 2-3 PC's

100.000 NRS

A loan can be taken with security in those amounts

Expected support from VDC (Kommunen)

Himalayan Trust can be applied for a supplement

100.000 NRS

2-300.000 NRS

## **Project Description and Budget:**

The following budget and description came from a examination on location on 27. October 2006 with participation of rtn. Kurt Lomborg, External Consultant Namgyal Jangbu Sherpa, Construction Committee Chairman Mr Krishna Gopal Shrestha, Headmaster Chet Bahadur Magar, Chairman of Constructors, Bricklayer and Carpenter.

Budget on remaining construction details for which Sydthy Rotary K	lub is applied:
A) Extension of the school compound (playground)	165.600 NRS
B) Wooden ceiling for walls and roof	142.100 NRS
C) Toilet – 2 rooms with 2 pits, 1 urinal and bathroom	161.600 NRS
D) Furniture for 80 students	40.000 NRS
E) Furniture for teachers	26.200 NRS
F) Educational materials (reference books, maps, etc)	25.000 NRS
G) One strong office PC	60.000 NRS
H) Network between office PC and 2-3 student PC's (from fund)	25.000 NRS
I) PC-training for teachers by one teacher from KTM for 2 months	80.000 NRS
J) Monitoring and Administration by RC of KTM	60.000 NRS
TOTAL	785.500 NRS
Currency rate is by October 2006 around 12 NRS/DKR which gives total	65.500 DKR
D : 4D 4 1	
Project Details: A) Extension of the school compound (playground)	
A-1) Upper Terrace on which the building is situated:	
<b>A-1a)</b> Veranda at the main building will be part of the primary construction.	
<b>A-1b)</b> The ground at upper terrace at the building levelled and one foot deeper.	
$120 \text{ m}^2 \times 0.3 \text{ m} \times = 36 \text{ m}^3 \times 120 \text{ Rs/m}^3 = 4.320 \text{ Rs}$	
This work will be done as volunteer labour donation by villagers	
A-1c) 2 feet extension in height of the terrace wall.	
Wall: 110 feet (long) x 2 feet (high) x $1\frac{1}{2}$ foot (width) = 330 cubic feet	
Stone: 330 c.feet / 85 c.feet/pile = 4 piles x 1.100 Rs/pile =	4.400 NRS
Cement topping: 110 feet / 1 sack/20 feet = 6 sacks x 1.750 Rs/sack =	10.500 NRS
Stone work: $330 \text{ c.feet x } 15 \text{ Rs/c.foot} =$	5.000 NRS
Carrying up sand:	1.000 NRS
Cement plastering: 4 men x 1 day x 250 Rs/day =	1.000 NRS
TOTAL upper terrace:	21.900 NRS
<b>A-1d)</b> Cutting of trail from road down to school:	
This cutting were not measured.	
This work will be done as volunteer labour donation by villagers	
<b>A-2)</b> Lower Terrace for playground:	
<b>A-2a)</b> 2 stairs between the two terraces.	
15 feet (long) x 10 feet (high) x 7 feet (wide) = 525 c.feet	
Stone: 525 c.feet / 85 c.feet/pile = 7 piles x 1.100 Rs/pile x 2 stairs =	15.400 NRS
Stone work: 525 c.feet x 12 Rs/c.foot x 2 stairs =	12.600 NRS
<b>A-2b)</b> levelling ground of lower terrace 40m x 15 m.	12.00011110
150 m <sup>3</sup> x 120 Rs/m <sup>3</sup> = 18.000 Rs	
This work will be done as volunteer labour donation by villagers	
A-2c) Wall close to wall of upper terrace do make small garden.	
Wall: 75 feet (long) x 6,5 feet (high) x 1 foot (thick) = 490 c.feet	
Stone: 490 c.feet / 85 c.feet/pile = 6 pile x 1.100 Rs/pile =	6.600 NRS
Work: 490 c.feet x 12 Rs/c.foot =	5.900 NRS
<b>A-2d)</b> Wall as extension of existing wall with 5 feet and 4 feet for seat.	
Wall: 155 feet (long) x 5 feet (high) x $1\frac{1}{2}$ foot (wide) +	
155 feet (long) x 4 feet (high) x 1 foot (wide) = $1800$ c.feet	
Stone: 1800 c.feet / 85 c.feet/pile = 22 piles x 1.100 Rs/pile	24.200 NRS
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TOTAL wooden side and top ceiling:	142.100 NRS
Wood; 1312 s.feet x 13 Rs/s.foot = Work: 1312 s.feet x 10 Rs/s.foot = TOTAL teachers rooms:	17.000 NRS 13.100 NRS <b>30.100 NRS</b>
14,0 feet (long) x 7,4 feet (high) = 104 s.feet x 2 walls = 208 s.feet  Roof: 35,7 feet (long) x 7,5 feet (high) = 264 s.feet x 2 roofsides = 528 s.feet  Total: 1312 s.feet	
<b>B-3)</b> Teachers and Headmasters rooms (partition included in building construction) Walls: 35,7 feet (long) x 7,4 feet (high) = 264 s.feet x 2 walls = 528 s.feet + triangular topwall: 24 s.feet x 2 = 48 s.feet	
TOTAL 2 big classrooms:  P. 2) Teachers and Headmosters rooms (portition included in building construction)	32.000 NRS
Work: 702 s.feet x 10 Rs/s.foot = 7.000 Rs x 2 rooms =	14.000 NRS
Wood: $702 \text{ s.feet x } 13 \text{ Rs/s.foot} = 9.100 \text{ Rs x 2 rooms} =$	18.200 NRS
Total: 702 s.feet	
Roof: 17,2 feet x 14,0 feet = 240 s.feet	
14.0 feet (long) x 7.4 feet (high) = $127 \text{ s.feet } x \text{ 2 walls} = 208 \text{ s.feet}$	
Walls: $17.2$ feet (long) x $7.4$ feet (high) = $127$ s.feet x 2 walls = $254$ s.feet	
TOTAL 5 small classrooms: <b>B-2)</b> Two big classrooms of equal size.	80.000 NRS
Work: $703 \text{ s.feet x } 10 \text{ Rs/foot} = 7.000 \text{ Rs x 5 rooms} =$	35.000 NRS
Wood: 703 s.feet x 13 Rs/s.foot = 9.100 Rs x 5 rooms =	45.500 NRS
Grand Total: 703 s.feet	
Total: 215 s.feet	
Minus skylight 9,1 feet x 3 feet = 27 feet	
Roof: 9,1 feet (high) x 13,3 feet (long) = 121 s.feet x 2 roofsides = 242 s.feet	
Total: 488 s.feet (windows and doors ceiling included)	
+ triangular topwall: $24$ s.feet $x$ $2 = 48$ s.feet $13,3$ feet (long) $x$ $7,4$ feet (high) = $98$ s.feet $x$ $2$ walls = $196$ s.feet	
Walls: 16,5 feet (long) x 7,4 feet (high) = 122 s.feet x 2 walls = 244 s.feet $+ \text{trip gular to payall: 24 s. feet x 2} = 48 \text{ s. feet}$	
B-1) The 5 small classrooms of equal size	
B) Wooden ceiling for walls and roof in all roms	
TOTAL extension of school compound	165.600 NRS
TOTAL road wall	22.900 NRS
Work: 900 c.feet x 12 Rs/s.foot =	10.800 NRS
Stone: 900 c.feet / 85 c.foot/pile = 11 piles x 1.100 Rs/pile =	12.100 NRS
150 feet (long) x 4 feet (high) x $1\frac{1}{2}$ foot (wide) = 900 c.feet	
A-3) Wall at road and entrance.	120.000 11110
TOTAL lower terrace:	120.800 NRS
Work: 375 c.feet / 85 c.feet/pile – 5 piles x 1.100 ks/pile – Work: 375 c.feet x 15 Rs/c.foot =	5.600 NRS
50 feet (long) x 5 feet (high) x 1½ foot (wide) = 375 c.feet Stone: 375 c.feet / 85 c.feet/pile = 5 piles x 1.100 Rs/pile =	5.500 NRS
<b>A-2e)</b> Wall at western end of playground.	
Plastering cement:	2.000 NRS
Carrying up sand:	2.000 NRS
Cement topping: 155 feet / 1 sack/20 feet = 8 sacks x 1.750 Rs/sack =	14.000 NRS
Work; $1800 \text{ c.feet } x \text{ 15 Rs/c.foot} =$	27.000 NRS

#### C) Toilet – 2 rooms with 2 pits, 1 urinal and bathroom

The new sanitary complex will be set up on the same scene as the old one which will be taken down. The construction will be of the same design and high quality as the sanitary complex build simultaneously at Sagar-Bakanje School. A more detailed design and description will be delivered during winter.

- **A)** It will consist of a room for urinal for boys with a collection tank on 3-500 liter with a tap for use as fertilizer in the schools gardens and by villagers.
- **B)** There shall be a bathroom with a small dressing room with a roof by ferroconcrete to be prepared for solar heated hot water tank and equipment, which will be installed at a later time when design is decided. The wastewater will be lead out as surface water.
- C) There shall be two toilet rooms one for boys and one for girls.
- **D)** There shall be two pits 5 feet wide (internal measure) and 5 feet deep with an estimated durability of 3 years each, when mixed with dry leaves, to be emptied every 6 years to be used as fertilizer at school gardens and by villagers. The pits shall be with well build dry wall for long durability, with upper one foot laid in cement and even top, for placement of two ferroconcrete lids.
- All rooms shall on inner side be plastered with two layers of cement. First a heavy and rough layer and later a fine and glittered layer for easy cleaning. Outside plastered with mud.
- There shall be openings for ventilation on top of wall, but wall and roof shall fit to each other nicely.

#### **Budgetting on toilet:**

Taking down old toilet, digging soil, digging for foundation, making access way

All by volunteer labour donation by villagers

Pit: Digging two holes: $6.5 \text{ m}^3 \text{ soil x } 2 = 13 \text{ m}^3 \text{ x } 120 \text{ Rs/m}^3 =$	1.500 NRS
Stones for pits: 4 piles x 1.100 Rs =	4.400 NRS
Work doing foundation in pit: 2 men x 6 days x 250 Rs/day =	3.000 NRS
Top of pit with 1 foot cement mortar and cement top plaster and 8 mm iron ring:	
1½ sack cement x 1.750 Rs/sack	2.600 NRS
Iron ring: $2 \times 6 \times 55 \text{ Rs/m} =$	700 NRS
Work: $2 \text{ men } x 2 \text{ days } x 250 \text{ Rs} =$	1.000 NRS
4 lids 2 x 1 m ferroconcrete: $5\frac{1}{2}$ sack cement x 1.750 Rs/sack =	9.600 NRS
8mm iron: $10 \times 2m + 20 \times 1m \times 4 \text{ lids} = 160m \times 55 \text{ Rs/m}$	8.800 NRS
Work: 2 men x 4 days x 250 Rs + 1 man x 4 days x 150 Rs =	2.600 NRS
Plasticpipe 90 mm: 20m x 200 Rs/m	4.000 NRS
Work: 2 men x 2 days x 250 Rs	1.000 NRS
2  pans x  3.500  Rs/pan =	7.000 NRS
500 liter tank with tap (including 3 extra taps) =	2.000 NRS
Walls: Stones: 14 piles (+ stones from old toilet) x 1.100 Rs/pile =	15.400 NRS
Work: 2 men x 8 days x 250 Rs/day + 2 men x 8 days x 200 Rs/day =	7.200 NRS
Cement: 20 sacks x 1.750 Rs/sack =	35.000 NRS
Carrying up sand:	2.000 NRS
Work on cement plastering of walls and floor: 2 men x 8 days x 250 Rs/day =	4.000 NRS
Work on mud plastering: 2 men x 4 days x 250 Rs/day =	4.000 NRS
Roof: Bathroom 2,5m x 2m ferroconcrete: 3 sacks cement x 1.750 Rs/sack =	5.300 NRS
8mm iron: $25 \times 2m + 20 \times 2,5m = 100 \text{ m } \times 55 \text{ Rs/m} =$	5.500 NRS
Work: 2 men x 4 days x 250 Rs/day =	2.000 NRS
Wood for beams including salary:	2.000 NRS
Wood for doors including salary:	5.000 NRS
Tin roof: $2\frac{1}{2}$ bundles x 10.000 Rs/bundle =	25.000 NRS

#### **TOTAL** for sanitary complex:

161.600 NRS

#### D) Furniture for 80 students

Each set of furniture consists of one bench and one table for 2 students on each.

They shall be done in a heavy and durable fashion.

40 sets of students furniture x 1.000 Rs (incl. materials and salary) = 40.000 NRS

#### E) Furniture for teachers

Classrooms: each set of teachers furniture consists of one chair with armrest and one table with one drawer.

The size is limited by the size of the classrooms, and therefore quite small.

Office room: 4 bigger tables with two drawers each and 9 chairs with armrest.

They shall all be done in a heavy and durable fashion.

9 sets of teachers furniture for classroom x 1.250 Rs each =	11.300 NRS
4 bigger tables for office x 1.200 Rs each =	4.800 NRS
11 chairs for office x 600 Rs each =	6.600 NRS
Headmaster desk including cupboard and drawers	2.500 NRS
Headmaster chair	1.000 NRS

### Total for teachers furniture (incl. Materials and salary)

**26.200 NRS** 

#### F) Educational materials

For classrooms and office shall be purchased wall sheets, maps and other materials for educational purpose.

For office use shall be purchased reference books, dictionaries and other materials for educational purpose.

For science laboratory shall be purchased science equipment.

It will almost be unlimited how much funds can be used for this purpose. Therefore the budgeted amount can be extended in case the rest of construction budget is showing to be less by account. In case above A-E budget can't be observed the hereby mentioned budget for educational materials can not extended:

25.000 NRS

## G-H-I) Computer-related expenses

From other sources Loding School have received funds 100.000 NRS (before the fire) for the purpose of buying 2-3 PC's for educational purpose. Luckily this didn't come into action before the fire, but it is expected to happen as soon as the school has recovered the reconstruction phase. In case the school is submitted an office PC of high capacity, which go into network with the educational PC's, those PC's doesn't need to be of that high capacity and 3 PC can be purchased from the available amount. No doubt that even in a backward society like Loding, PC's are part of the future development and are very necessary to give knowledge about.

All PC-related expenses should be held by using SeaGate Computer Institute, Koupondole, Kathmandu, as the owner of this institute rtn. Madhur Shrestha has been successfully cooperating in projects in Upper Solu before

#### G) One office PC of high capacity networking with rest of school PC's 60.000 NRS

## H) Establishing network between office PC and rest of school's PC's 25.000 NRS

This can of course first come in action when the other PC's are purchased

I) PC-training for teachers by one teacher from KTM for 2 months

80.000 NRS

The same person will establish the network, and give basic and extended training for teachers in a way that they can forward this for the students, as well as using it in the daily work at the school

### J) Monitoring and Administration by Rotary Club of Kathmandu 60.000 NRS

Rotary Club of Kathmandu will have expenses in administrating this project and sending funds for the local area, but this will be the minor part.

It will also be necessary sending monitoring persons for the location to give advise and to check up on the work and the account. There will be expenses for personal subsidy, transportation and accommodation on those inspection travels.

This work can be done by Rotary Club of Kathmandu itself or by connected Rotaract's. It can also be done through Himalayan Development Organization who every 3 months are providing a Runner Service in the local area, usually by Mr. Namgyal Jangbu Sherpa, who also took part of the development of this Project Description.

#### Discussion

On \*\*\* Date \*\*\* this budget is evaluated by \*\*\*\*\* and found realistic.

During the construction process there will be kept account showing the actual expenditures.

It shall be kept in mind that all above calculations are only guidelines.

No salaries shall be unrealistic low or high in reality.

The expenses on materials can vary according to where it is purchased, as transportation expenses show considerable variations.

In case the funds which Sydthy Rotary Club can provide can not reach the budgeted amount, the missing amounts can be saved on the subjects G-H-I-J.

The same if the estimated budget show to be unrealistic low and supplementary expenses can be explained accordingly.

The Construction Committee shall work honestly and sincere with the fundings.

#### **Postscript**

With a support from Sydthy Rotary Club on above mentioned details and above mentioned amounts the school building will receive the finish which will make it a quality construction, which can offer students and teachers the best environment for future functionality and academic surroundings.

We are all aware about the working procedures of Rotary and about Rotary Foundation (TRF) and Rotary Danmarks Hjælpefond which should be able to support most, if not all of, mentioned remaining construction. We are also aware that there can't be given green light before April 2007. But it will on the other hand suit us fine starting the remaining construction by end of winter and before monsoon time in summer.

We hope very much, that there will be no further delay until next session of TRF in October, as it will delay the opening of the new school, and again run into winter work, with further delay.

The project will be supervised by: rtn. Kurt Lomborg, Skivehus Rotary Klub, District 1440, Denmark Kjeldbjergvej 34 DK-7800 Skive email: klomborg@post11.tele.dk

Tel.: 0045-97 54 53 08

Rtn. Bishnu Subedi, Rotary Club of Kathmandu, District 3290, Nepal Rotary Hall of Kathmandu Kathmandu, Nepal

Tel.: 0977-1-4245783

Email: talisman@wlink.com.np Tel.: 00977-98510 24103

Himalayan Trust in Kathmandu will receive a copy of this Project Description for their information, comments and suggestions.

In the sincere hope that your club will respond positive to this application for supporting the difficult situation which exist for Loding School and the students of the remote valley of Thamakhani, we thank you for the interest which you have already shown to this very necessary and prosperous project.

Kathmandu on 27. October 2006 Yours sincerely and obedient

Krishna Gopal Shrestha Chet Bahadur Magar

Chairman of School Construction Committee Headmaster of Loding School

Bishnu Subedi Kurt Lomborg
Rotary Club of Kathmandu Skivehus Rotary Klub