



## Project Report College of Education Paro/Samtse 2002-2009



### **Institutional Capacity Building for the Royal University of Bhutan**

The Royal University of Bhutan is the national university system of Bhutan. It was, founded on June 3, 2003, by a Royal Decree to consolidate the management of tertiary education in Bhutan. It is a university system with 11 constituent colleges spread across the Kingdom. The 11 member colleges are:

Paro College of Education, Paro	Royal Institute of Management, Semtokha
Samtse College of Education, Samtse	Gaeddu College of Business Studies, Gedu
Sherubtse College, Kanglung	Institute of Language and Culture Studies, Semtokha
College of Natural Resources, Lobesa	College of Science & Technology, Rinchending
Royal Institute of Health Sciences, Thimphu	National Institute of Traditional Medicine, Thimphu
Jigme Namgyel Polytechnic, Dewathang	

Over the last 2 decades the Swiss Development Cooperation (SDC) and Helvetas have made substantial contributions towards three of these institutions, namely the Paro College of Education, the Samtse College of Education and the College of Natural Resources. Infrastructures and human resource capacities built up through these projects will have long term impact towards the success of these institutions. For more information consult: [http://www.helvetas.org.bt/images/Report\\_IA-TE\\_Swiss\\_Bhutan\\_30-6-09.pdf](http://www.helvetas.org.bt/images/Report_IA-TE_Swiss_Bhutan_30-6-09.pdf) and [www.helvetas.org.bt/](http://www.helvetas.org.bt/)

This publication documents, the infrastructures built in the Paro College of Education [PCE] and Samtse College of Education [SCE] through the project: Expansion for Colleges of Education Paro/Samtse.

Major structures built under this project include:

- Computer Centre and Library Building, PCE
- Office Building (Faculty), PCE
- Auditorium (260 seats), PCE
- Gymnasium (size basketball field) , PCE
- Research Centre (modification of existing building) , PCE
- Library extension (modification of existing building) , PCE
- Science Centre at Rimpung (modification / renovation of old TTC infrastructure) , PCE
- Student Hostel 1 ( 48 beds, self catering) , PCE
- Visitor Centre (5 2-room apartments) , PCE
- Compound development, PCE
- IT and Library Building [Students Resource Centre] , SCE

The donor (SDC and Helvetas) assumed major responsibilities for the construction program. The Bhutanese traditional style of architecture was used as the overall guideline for designing and building the structures. The construction program was thus guided by the following:

- Utilise land which has limited value for agriculture (sloping land)
- Follow traditional Bhutanese architecture using local materials and skills.
- Include aspects of modern planning and construction technology, particularly regarding utility, quality and sturdiness.
- Ensure cost-efficiency in construction and operation (especially heating) by improving traditional designs and construction/installation techniques.
- Give special attention to the design and installation of electrical and sanitary components.
- Allow easy maintenance and replacement of elements when required

This project has contributed significantly to the increase of the capacity of the teacher training colleges. Resulting in an increase of the number of teachers, a better teacher – student ratio and a reduction in the proportion of expatriate teachers. The “Annual Education Statistic, 2009” report by the Policy and Planning Division, Ministry of Education reported the following statistics for the teacher colleges in Paro and Samtse and the resulting changes in the Bhutanese schools:

#### Teacher Training in Paro and Samtse Colleges in 2009

	Paro	Samtse	Total
Student enrolment	1'062	966	2'028 <sup>1</sup>
Academic staff	83	89	172 <sup>2</sup>
Support staff	17	23	402

1. Increased by 60% compared to 2008

2. Excluding CAPSD Staff

#### Teachers in Schools in 2009

	Benchmark	Change
Number of teachers	4'963 (in 2006)	35% increase
Teacher – pupil ratio	1 : 37 (in 2003)	30% reduction
Teacher with BA degree	50 %	
Ex-pats teachers	18 % (in 2002)	45% reduction

The project contributed significantly to the following aspects of facility management:

- Introduced concept for facility management
- Enhanced capacity of maintenance units
- Provided a documentation containing building data and “as build” drawings as the base to organise the O+M.

The following additional contributions by the project are significant:

- Outsourced consultancy services and construction works within Bhutan amounting to NU 190 Million (CHF 5.2 Million).
- About 90 different contracts with private firms
- Enhanced capacity of contractors in construction management (quality, logistics, etc.)
- Generated about 100 jobs over a time period of 7 years
- Provided “on-the-job training” for young Bhutanese workers in construction related skills and 12 NTTA students (vocational training) did the 1 year practical training.



4. Inauguration of Auditorium and Gymnasium in Paro College of Education by the Ambassador of Switzerland to Bhutan, Dec. 2008

5. Inauguration of Library and IT Building in Samtse College of Education by the Assistant Director General, Swiss Agency for Development and Cooperation and Vice Chancellor of the Royal University of Bhutan, Sep. 2009

## Implementation



**Project Goal:** Contribute to the expansion of teacher capacity in Bhutan (in numbers and quality) by constructing infrastructure

### Information

Project agreement between the Royal Government of Bhutan and the Government of Switzerland signed on April 19, 2002

Construction period 2002 to 2009

Project cost CHF 8'483'000

(Nu 305 Mio)

Jointly funded by Royal Government of Bhutan ( CHF 830'000) and Swiss Agency for Development and Cooperation SDC (CHF 7'653'000)

Design and implementation by Helvetas, Swiss Association for International Cooperation

1. View of Paro College of Education Academic campus and Residential area Paro

2. Foundation stone laying, Faculty Building, Paro College of Education, Sep. 2003

3. Formal handing over of completed infrastructure by the Ambassador of Switzerland to Bhutan to the Vice Chancellor of the Royal University of Bhutan, Feb. 2010



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- 4. Stage
- 5. Sitting gallery, 260 seats
- 6. Staircase with traditional wooden railing
- 7. Wooden columns, traditional Bhutanesese design and painting

**Auditorium  
(PCE Paro)**



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- 1. Auditorium main entrance
- 2. Access from court yard
- 3. Entrance hall, counter



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**Information**

Auditorium with 260 seats  
 Construction period 2006 to 2009  
 Construction cost  
 Building: NU 17'326'000  
 Furnishing: NU 1'821'000



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4 . Computer Centre and Library Building, main entrance to building, bridge access to extension in school building 5

5. Stair case to first floor library

6. Library main room

7. Computer lab



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**Computer Centre and Library (PCE Paro)**

**Information**

Computer Centre with 3 labs (120 computers in total), Library (80'000 books). Extension to reading room in school building 5 first floor.

Construction period 2006 to 2009

Construction cost

Building NU 17'040'000

Furnishing NU 2'242'000

Computers purchased by RGoB



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1. Computer Centre and Library Building, view from college campus entrance

2. Access to library extension in School building

3. Computer Centre and Library Building, view from faculty building



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- 3. Grandstand for 150 persons at upper floor
- 4. Gymnasium, access to hall from court yard
- 5. Main entrance to hall
- 6. Play filed
- 7. Gallery first floor, table tennis area

**Gymnasium (PCE Paro)**



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**Information**

Gymnasium with basketball play field  
 Construction period 2006 to 2009  
 Construction cost:  
 Building NU 29'115'000  
 Furnishing NU 1'187'000

- 1. Gymnasium south elevation (with decoration during inauguration)
- 2. Inside hall, play filed for basketball, badminton and volleyball



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1. Faculty Building, view from court yard
2. Main entrance of building
3. View from court yard in front of gymnasium, entrance of cafeteria



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4. Corridor / centre area for common use
5. Office faculty member
6. Meeting area
7. Staff / student cafeteria

## Faculty Building (PCE Paro)

### Information

Faculty Building with 88 working places and meeting room for faculty members. Staff / student cafeteria.  
Construction period 2003 to 2006

Construction cost:  
Building NU 25'109'000  
Furnishing NU 3'641'000  
Computers purchased by RGoB



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- 4. Building elevation view towards new campus
- 5. Library room
- 6. Computer lab
- 7. Internal door and partition wall



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**Library and IT Building  
(SCE Samtse)**



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- 1. Library and IT Building, view from old college campus
- 2. Main entrance
- 3. Building elevation view towards girls hostels



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**Information**

Computer Centre with 3 labs (120 computers in total), Library (80'000 books) with working space for 200 students at a time  
 Construction period 2007 to 2009  
 Construction cost NU 46'300'000  
 Jointly funded by Royal Government of Bhutan and Swiss Agency for Development and Cooperation SDC  
 Design and implementation by Helvetas, Swiss Association for international Cooperation



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- 4. Lecture hall
- 5. Chemistry lab
- 6. Physics lab
- 7. Lecturer office



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**Rimpung Compound  
Science Centre  
(PCE Paro)**



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- 1. Science Centre Rimpung, front view
- 2. Corridor in front of science labs
- 3. Entrance auditorium



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**Information**

Modification and renovation of existing buildings (old TTC).  
Lecture hall with 120p, 3 science labs, ICT room, library, staff offices  
Renovation works in 2005 and 2007  
Construction cost  
Renovation only:  
NU 11'085'000



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