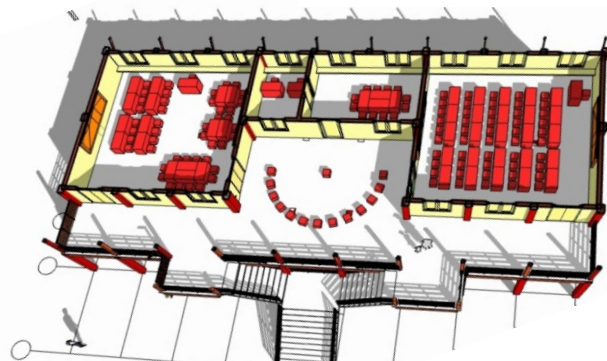


Reconstruction of Schools/Storm Shelters in the Cyclone Nargis affected Delta of Myanmar



Aung Hlaing School, South Pyapon



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Federal Department of Foreign Affairs FDFA
Swiss Agency for Development and Cooperation SDC
Humanitarian Aid and SHA

Project type: Post Disaster Reconstruction
Type: 2-3 Classroom Primary and Middle School / Storm Shelter
Approach: Private sector contracted construction
Beneficiaries: Affected people in response of the 2008 cyclone "Nargis"
Phase 1: Started December 2009
7 Schools / Storm Shelters
Phase 2: Started March 2010
8 Schools / Storm Shelters
Activities by SDC: School / Storm Shelter reconstruction
School furniture and schoolyard development
Disaster Risk Reduction training component for use of storm shelter
Impact on sustainability through maintenance and ownership training programme

Structural Specification:
Floor level: 11 Feet (3.35 m)
Wind resistance: 125 Mph (200 km/h)
Earthquake resistance: Zone 2 (6.0 Magnitude)
Design: Reinforced concrete frame, brick walls, GCI sheets

Temporary School



Project sites Phase 1 and 2



Country: Myanmar
Division: Ayeyarwaddy
Township: Bogalay and Pyapon
Funding/Implementing Agency: Swiss Agency for Development and Cooperation, SDC Humanitarian Aid and SHA
Project duration: Dec. 2009 – Dec. 2010
Special constrains: Disaster prone area for cyclones, floods, earthquake

SDC and Contact Information

Objective

The goal of the Humanitarian Aid of the Swiss Confederation is to save lives and reduce suffering worldwide. On the one hand it provides direct help through the immediate deployment of expert teams from the Swiss Humanitarian Aid Unit (SHA) following natural disasters and in armed conflicts. On the other, it supports humanitarian partner organizations and contributes to the prevention and solution of conflicts. Humanitarian aid distinguishes between:

Catastrophes: Natural disasters such as earthquakes, inundations or drought and technological disasters such as nuclear incidents, biological and chemical accidents as well as the bursting of dams and other severe and acute destructive forces which could endanger human lives.

Conflicts: Wars, civil wars and other similar confrontations.

Crises: Collapse of law and order and the lack of social nets.

Principles of the humanitarian aid

Swiss humanitarian aid orients itself on the basic human values and the principle of the inviolable dignity of each human being. Its foundation is international humanitarian law and internationally recognized humanitarian principles and it repeatedly appeals for these to be respected in cooperative efforts. It helps victims, regardless of their race, their sex, their language, their religion, political opinion or social status. Switzerland renders neutral and impartial humanitarian aid, independently and without any political conditions.

Swiss Agency for Development and Cooperation SDC

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May 2010

2 Classroom Module / Shelter

TWO CLASSROOM + TEACHER ROOM MODULE

No. of class rooms: 2 + one teacher room, ground floor open classroom space
No. of students: 100 (50 per classroom)
No. of shelter places: 760 persons (3 ft²/person)
Floor size: 72' x 32' (2300 ft² = 215 m²)
Floor level: Two, 1st floor 11' above ground level
Sanitary facilities: 1 teacher and 4 student toilets

Other infrastructure: 5'000 gallon rainwater collection tank (22'750 lt.)
Options: Ground floor: seasonal classrooms (150 students), community meetings etc.

Cost per classroom: 45'000 USD
Cost per student: 900 USD
(School lifespan 30 years = 30 USD per student)

Cost per shelter space: 120 USD
Total cost: 90'000 USD



3 Classroom Module / Shelter

THREE CLASSROOM MODULE

No. of class rooms: 3, ground floor for open classroom space
No. of students: 150 (50 per classroom)
No. of shelter places: 760 persons (3 ft²/person)
Floor size: 72' x 32' (2300 ft² = 215 m²)
Floor level: Two, 1st floor 11' above ground level

Sanitary facilities*: 1 teacher and 4 or 6 student toilets
Other infrastructure*: 5'000 gallon rainwater collection tank (22'750 lt.)
Options*: Ground floor: seasonal classrooms (150 students), community meetings etc.

Cost per classroom: 34'000 USD
Cost per student: 667 USD (investment cost)
Cost per shelter space: 135 USD
Total cost: 102'000 USD

*Applicable for three classroom + teacher room module

THREE CLASSROOM + TEACHER ROOM MODULE

No. of Classrooms: 3 + one teacher room, ground floor open classroom space
No. of Students: 150 (50 per classroom)
No. of shelter places: 1024 persons (3 ft²/person)
Floor Size: 96' x 32' (3072 ft² = 286 m²)
Floor level: Two, 1st floor 11' above ground level

Cost per classroom: 39'000 USD
Cost per student: 767 USD (investment cost)
Cost per shelter space: 115 USD
Total cost: 117'000 USD