Education (school) UNICEF secondment

Project

Humanitarian Aid construction group

Projects library of the specialized group for construction

PUBLIC BUILDINGS

| Project name | Post Tsunami School Project in |
|------------------------|--|
| Country | Sri Lanka |
| Region/town | Galle |
| GIS data (WGS 84) | Ginthota Maha Vidyalaya |
| Project type | New construction / Reconstruction and Renovation |
| Typology | Secondary School |
| Approach | Contracted construction |
| Beneficiaries | Ministry of Education |
| Climate | Hot, humid |
| Special constraint | Tsunami |
| Start / End of project | Oct-2008 / Jan-2010 |
| Country GNP | |



Ginthota Maha Vidyalaya, Galle

Partners

Organization (donor) IO/NGO partners

UNICEF

GO partners Ministry of Education (TERM)

Context to project

Initial Situation Before Tsunami ca. 200students / after Tsunami 1400 students

Goals, Beneficiaries New buildings with better facilities (4 block) and new toilet..

Implementations/Results 1.phase: 3 new blocks with 30 classrooms, 2 units with toilet, science lab

2.phase: 1 new block with 2 science labs, 3 units for art / music / dance and 4 old blocks with assembly hall, administration, canteen, library

Reference data (comparative)

| Land plot | 7925m2 | Number of blocks | 10 |
|-----------------------------|---|----------------------------|--|
| Classes/rooms per blocks | 30(excl.computer,library, science lab aesthetic, administrative, canteen. | Number of units | 53 (incl. toilets) |
| Beneficiary /unit | Secondary school up to A/L | Total beneficiaries | 1040 Students |
| Latrines | 2 units, female & male 1 unit, Teacher 1 unit, Principal | Other infrastructure | Administration, Canteen, Science room, Aesthetic- room, Shrine, Water tank |
| Ground floor (incl. walls) | 2′328m2 | Upper floor (incl. walls) | 2'655m2 |
| Total surface | 4′985m2 | Surface / beneficiary | 4,79m2 / beneficiary |
| Volume (outside dim.) | 17′266m3 | Volume / beneficiary | 16.6m3 / beneficiary |
| Heated surface | None. | Total cost / Total surface | 191.63USD / m2 |
| Total cost (Finalized bills | 955'264USD (107.50) | With additional cost | 918.5USD / beneficiary |
| 05/05/10) | 102'690'821LKR | | 98'741.2LKR/beneficiary |

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

Humanitarian Aid construction group

Approach to results

Initial Situation

- 2004 Tsunami Existing school was heavily damaged.
- After this incident building of temporary shelters.
- Project for new school was made by UNICEF in early 2007.
- The new school site was planned safer than before.

Approach

UNICEF Project called "Tsunami recovery Projects", implemented by:

UNICEF Team: CMU (Construction management unit) in Colombo and UNICEF team in Galle with two persons (Construction Project Manager, SDC and a National Civil Engineer. They were responsible for controlling, supervising and payments of bills.

Consultant/ Architecte: Kahawita de Silva & Associates (Pvt) LTD.

Contractor: Sathuta Builders (Pvt) LTD.

Problems/Constraints

- BoQ from Consultant was not perfect, some items were missing.
 Contract was made before UNICEF team of South had possibility to correct mistakes => additional cost!
- Not enough controlling from site manager. Mistakes from designs were not corrected in time.
- Management of principal of the school was very poor, maintenance of school was not possible and some of new installation was damaged after very short time!
- MoE support during the preparation of project was not good.
 Before starting the construction big problems with population. With UNICEF starting of the construction the problems could be resolved.

Lessons learned

- Small school complex in a village gives better result than big school in town.
- More time for revising of plans and BoQ by UNICEF would give a better result.
- A flat land plot is much more effective (less cost and easier to construct) than land plot in hilly area.

Evaluation

- Government was not able to give a good support to all schools.
- Future of education for this area is secured.

Legal framework

Political attachment

Type of ownership

Ministry of Education (Government)

Humanitarian Aid construction group

Construction information

cost repartition

Construction

Structure Foundations

Walls or columns

Facade Roof

Earthquake protection

Materials Floor surface

Walls: Doors Windows Ceiling

Thermo insulation

Ceiling

Watsan Water

Toilets Waste water Rain water

Equipment Heating system

Electricity connection Telephone connection Cooking facilities

Total (USD) All School Project 955'264 100%

Urban planning

Distance to : Village 200m to village center

Public transport Bus to Galle (about 5 km)

Bus and train from Galle to Matara and Colombo

For further information

| Involved SHA construction group consultants | Felix Veith Construction Project Manager SDC, Galle- Office UNICEF |
|---|--|
| Other involved SHA consultants | Henri Stalder Construction Management Specialist SDC, Colombo Head-office UNICEF (CMU) |
| Author / Contact: | Manjula Dabere Project Engineer UNICEF, Galle-Office |
| Recommended Institutions: | Ministry of Education (MoE), Colombo |
| Recommended partners: | Consultant: Kahawita de Silva & Associates (PvT) LTD, Koggala-site-office and Head-office Colombo |
| | Contractor: Sathuta Builders (PvT) LTD, Koggala-Office and Colombo Head-office |
| Recommended books/reports: | |
| Relevant other projects (links): | |

Relevant illustration



Playground and main buildings D and E



Shrine room



Playground 1st Phase in building D and C



Rain water harvesting system 6 tanks with 1000lt



Classroom for about 40 students (45m2)



Building C with Home science room (68m2)

Humanitarian Aid construction group



Building C: Toilet for males



School board with the construction team on site



Auditorium in 2nd Phase (225 m2)



Renovated building G: Male toilet



Building C: Toilet for disabled children



Rebuild auditorium for the school



2nd Phase: New building B, 4 renovatet buildings



Finalized 2nd phase: auditorium, administration Canteen, library and 2 computer rooms