




Projects library of the specialized group for construction

PUBLIC BUILDINGS

Project	Health – Rehabilitation of Public Hospital (currently under construction)	
Project name	Extension and Rehabilitation of CMA Kossodo, Ouagadougou	
Country	Burkina Faso	
Region/town	Nongr-massom, Ouagadougou	
GIS data (WGS 84)	12°25' N / 1°28' W	
Project type	Extension and Rehabilitation	
Typology	Individual single storey units	
Approach	Mandated planning office, invited tender, contracted builder and supplier of special equipment	
Beneficiaries	Ministry of Health	
Climate	Hot, humid	
Special constraint	Hospital in operation during entirety of construction period	
start / end of project	Planning: Oct – Dec 2009 Construction: Feb – July 2010 (planned)	
Country GNP	\$ 1'200/pa (est. 07/2009)	

Partners

Organization (donor)	Financed and implemented: SDC Humanitarian Aid
GO partners	Government of Burkina Faso

Context to project

Initial Situation	Following floods of Sep 2009 identified as needing urgent upgrading and capacity increase
Goals, Beneficiaries	<p><u>Goals</u>: Capacity increase for in-patients from total 36 to 120 beds; general expansion/upgrading of facilities (i.e. maternity ward, operation theatres, reception, bedding tract)</p> <p><u>Beneficiaries</u>: general public (population of health district approx 200'000 plus referrals and overflow from other districts)</p>



Reference data

Land plot	Approx. m2 34'000	14 main structures (4 new 10 existing)
New construction	4 new main structures (incl. complementation of medical equipment and furnishing) New auxiliary structures	<ul style="list-style-type: none"> • Reception (Triage) • Hospitalization (36 beds) • Maternity ward • Operation theatre (• Covered meeting area (pailotte) • Covered walkways • Sentry at main entry • Generator shed incl. new 88 kVA generator • Latrines (20 cubicles)
Rehabilitation work	4 existing buildings	<ul style="list-style-type: none"> • Exist. Maternity block • Exist. Operation theater • Exist. hospitalization block (24 beds)
Total project cost	CHF 960'000	(incl. emergency power supply, medical equipment and fees)
Other structures on site	(not included in current project)	<ul style="list-style-type: none"> - Morgue - Meeting/conference hall - Communal shelter - On-site residence - Various incinerators incl. sheds

Approach (project is currently under construction)

Initial Situation	Regional health provision of Ouagadougou district consist of 1 central hospital and 4 district hospital facilities (CMAs Centres Médicales avec Antenne Chirurgicale); floods of Sep 2009 temporarily impaired operation of central hospital putting additional pressure onto already insufficient capacities of district facilities particularly those of CMA Kossodo (7 km from town centre)
Approach	<ul style="list-style-type: none"> • Sept/Oct 09: SDC assessment missions (FGB, FGMed), preparation of preliminary project by local consultants (architect and medical consultant) • Nov/Dec 09: finalizing project, preliminary tender documents • Jan 10: Signing of agreement with BF Govt.; deployment of SHA construction expert; finalizing documents; initiating (invited) tender process • Mid Feb 10: commencement of construction
Problems/Constraints	<ul style="list-style-type: none"> • Weak project planning, management and coordination skills of local enterprises • Availability of suitably qualified enterprises and personnel • Cash economy (lack of capital)
Lessons learned	
Evaluation	

Legal framework

Political attachment	Agreement between Govt. of Switzerland rep. by SDC and Govt. of Burkina Faso rep. Minister of economy and Finance
Type of ownership	Government of Burkina Faso



Construction information (indicative unit cost for new structures only)

Construction				1'000 F CFA = CHF 2.50
Structure	Foundations, floor slabs, walls, columns	Concrete	150kg/m3	37'350/m3
			250 + 300 kg/m3 reinforced	83'000/m3
			350kg/m3 reinforced	112'050/m3
			As above (16 cm ceil'g slab)	160'000/m3
	Walls:	Concrete block rendered	10 cm	4'980/m2
			15 cm	5'810/m2
			20 cm	7'470/m2
	Roof	Zinc sheeting complete with all steel trusses and framing (530m2)		12'500/m2
	Earthquake protection			N/A
	Floor surface	Ceramic floor tiles		9'960/m2
materials	Doors	Exterior double 1.80 x 2.20 m, metal/glass complete with all fixtures and lock		378'000/u
	Windows	Interior metal/glass complete with mosquito mesh and safety grill		100'000/m2
	Ceiling	Suspended 10 mm ply complete with all framing		8'300/m2
	Medical equipment	2 ceiling mounted scyalitic lamps (Op rms)		4'000'000/U
		Miscellaneous incl. autoclave, installed oxygen supply, beds and medical furniture		120'000'000
equipment	Emergency power supply	88 kVA generator incl. installation		12'000'000/u
		Generator shed (4.00 m x 3.20 m)		1'800'000/u

Urban planning

Distance to :	villages	200 m
	Public transport	500 m

For further information

Involved SHA construction group consultants	R. Ivan Hauri
Other involved SHA consultants	Marina Marinov, J.P. Stamm (ex FGmed)
Author / Contact:	
Recommended Institutions:	
Recommended partners:	
Recommended books/reports:	
Relevant other projects (links):	