

ANNEX N Pre-feasibility study – civil works assessment

LOCALITY HEALTH AUTHORITIES “LHA” and CONTINUOUS PROFESSIONAL DEVELOPMENT “CPD”_DESIGN and CONSTRUCTION WORK NYALA, SOUTH DARFUR

(12°06'56.68" N,24°85'69.71"E)

According to the SMoH's request, the Continuing Professional Development (CPD) should be located in the same plot as the Locality Health Authorities (LHA) offices, on the northern side of Nyala (20 minutes far from the city centre). Currently, the LHA building is composed of three offices with a veranda and a latrines block. The compound has a perimeter of 165.54 m and a total internal area of 1554.34 sqm. About 110 sqm covered surface for the main building and the toilet block. The compound comprises two blocks and a courtyard (purposed area for CPD construction) surrounded by a fence. No electrical and plumbing systems are present.

The blocks consist of:

- Block A: three offices with veranda. The total area is 130.69 sqm
- Block C: 3 toilets with a total area of 6.60 sqm
- Block D: courtyard proposed for CPD (to be constructed).

The project entails the execution of works for rehabilitating the SMoH training centre and offices to adhere to their functions and comply with SMoH and CPD standards. Please refer to the attachment called "LHA and CPD_CWs Assessment Sheet", which provides the criteria for CPD design. As there is no need to adapt to rules and regulations, which, to what we currently know, are not followed and/or existing, in drafting architectural, structural and engineering design, good standards must be adopted and rationally adaptable to the context derived from professional and work experience in third countries. It is worth highlighting that the local authority should approve all technical drawings before the work's implementation. The project's sustainability must be taken into account during the design phase by minimizing the impact of the building on the environment in terms of materials, construction techniques used, aesthetics and energy performance through proper management of sources and use of renewable energy.

Estimated civil costs of LHA 35.000 EUR (Rehabilitation)

Estimated civil costs CPD 190.000 EUR (New construction)

ACADEMY OF HEALTH SCIENCES “AHS”_DESIGN and CONSTRUCTION WORK NYALA, SOUTH DARFUR (12°5'57.74"N, 24°87'55.05"E)

The Academy of Health Sciences (AHS) civil works interventions involve laboratory, skill lab and latrines with a total covered surface of 106.94 sqm.

The intervention area consists of three blocks:

- Block A (laboratory) has a total area of 30.14 sqm with a height of 2.88 m
- Block B (skill lab) has a total area of 45.94 sqm with a height of 3.15 m
- Block C (latrines) has a total area of 30.86 sqm.

It can be divided in: o block C1 without wall and floor tiles o block C2 that presents the ruins of the demolition of the old latrine o block C3 with floor and wall tiles but not structurally safe and not used.

The latrines' plumbing system is a septic tank with a well located outside the Academy building. Concerning the lab (Block A), they are using a local barrel as a source of water instead of a water tank, and there is no water pump and no power generator. The electrical and sewage systems are very poor while the teaching rooms are too small. The project entails the execution of works for rehabilitating the teaching facility to adhere to its functions. Please refer to the attachment called "AHS_CWs Assessment Sheet", which provides useful information on the current building status. 4 As there is no need to adapt to rules and regulations, which, to what we currently know, are not followed and/or existing, in drafting architectural, structural and engineering design, good standards must be adopted and rationally adaptable to the context derived from professional and work experience in third countries. It is worth highlighting that the local authority should approve all technical drawings before the work's implementation. The project's sustainability must be considered during the design phase by minimizing the impact of the building on the environment in terms of materials, construction techniques used, aesthetics and energy performance through proper management of sources and use of renewable energy.

Estimated civil costs AHS 95.000 EUR (New construction)