

# STATEMENT OF WORK

## C.1 Background and Need

The CDC Server room located on the Entebbe campus inside the Mouse House building has outgrown its capacity. The room consists of two separate compartments. One compartment houses the servers and the second compartment an IT Office. The server room needs to be expanded to incorporate additional equipment for infrastructure growth, power consumption requirements, maintenance access and environmental needs (cabling and wiring standards). Currently performing any work inside the server room is difficult to nearly impossible. Examples: cables are intertwined to the point where isolating a faulty cable is extremely time consuming because of space constraints, removing and installing servers is very difficult, power stability is a major issues as dedicated circuits are not available.

Basic industry server room standards address room size specifications, equipment power and spacing standards, fire prevention, cooling, electrical standards and security. These standards are currently not in place.

## C.2 Project Objective

The objective of the project is to bring the CDC Uganda server room up to acceptable industry standards in the area of adequate space, server equipment racks and spacing, power and electrical standards, cooling, fire prevention and security. The immediate benefits to upgrading the server room will be realized in optimal performance from infrastructure enterprise systems not overheating, significantly reduced maintenance and troubleshooting times, equipment protection from inadequate power and reduced replacement cost of faulty equipment. The long term benefits will be realized in an increased ability to expand equipment installation with new technology, lower equipment failure rates which directly reflect in lower cost of ownership and longevity of system life cycle

## C.3 Scope of Work

The project will require a detailed site survey by potential vendors to identify the most cost effective and efficient means to accomplish the following:

- Improve the server room standards to provide more overall space, adequate flooring (raised floor if feasible), adequate clearance for server racks and lighting
- Provide an additional 42U server rack
- Replace aging UPS system
- Provide for industry standard dedicated electrical circuits for each server rack
- Provide for a fire prevention systems ( example: FM200 Fire Protection system)
- Adequate cooling system on separate electrical circuit

## C.4 Technical Requirements-

- Remove the sliding door from the existing position.
- Transfer the sliding glass door next to the main entry
- Introduce Anti-Burglar grill at Ceiling height to reinforce Security in the Server room ;
- The metal bars used to be at least 12mm – diameter Iron bars ;
- Horizontal burglar proof should be located above the Vents-level and extend all over the Server room from end to end ;
- Existing access door to be replaced by a strong metallic security door ;

- Provide for Vertical burglar proofing along the Corridor side extending right above the current Server-room Store to prevent access through existing glass partition ;
- Reconfigure the current Power , Data ,Voice and any other Cabling to enable separate back –up devices for each of the Racks and other Equipment systems ;
- Separate and spread out the Racks across created space to allow more room for Maintenance personnel and also improved Air-flow and Cooling for the Servers as well as other Equipment ;
- Ensure smartly laid out Cable ducting and trunkings for Power , Duta , Voice , etc in conformity with Universally accepted Safety and Electrical / IT Wiring Standards and Regulations ;
- Ensure none of the Server Racks or sensitive Equipment is directly below A/Cs or drainage channels that would cause water leakage into the circuitry;
- Provide for location of back up UPS ,etc such that each one backs up a single Server Rack/Section independently ;
- Provide for adequate lighting points to ensure sufficient illumination of all corners of the Server room ;
- Replace aging rack mounted backup UPS system
- Install Fire Prevention system

#### C.5 Reporting schedule

The Contractor shall report directly to the CDC IT and Maintenance offices for this activity for purposes of pre-proposal inspection , SOW-clarification , Work execution , pre hand-over Inspections and any related activities

#### C.6 Special Considerations

1. The Contract activities shall be carried out within minimum if any, disruption of the activities of nearby Offices and or work - areas.
2. Evaluation criteria will be based on:
  - adherence to the SOW
  - technical drawings illustrating design specifications
  - evidence of reasonable technical familiarity with the tasks to be undertaken
  - observance of professional standards in Electrical / Data Cabling Works , Welding plus any related Engineering / technical tasks

#### C.7 Government Furnished Property

#### C.8 References-(Describes any reference materials that may be relevant to the work being performed.)

Provide a company profile/proof that highlights similar works completed successfully

<u>Deliverables</u> - (Defines and describes the deliverables, the quantity required, the recipients(s), and the schedule should be attached to the SOW.
Completed works in accordance with the above specified tasks

Note: Deliverables included in Deliverables table in the RFC template must correspond to the tasks outlined under "Technical Requirements" or "Specific Tasks" above.)