

# 1. Introduction

Zemen Bank S.C. wants to Build a New Disaster Recovery site and enhance the existing Data Centre. Accordingly, the bank has listed the required items and tasks that going to be done by the bidders. Due to an issue on compatibility to the existing infrastructure the Item brands and models should have to be as listed and any technical and financial proposals that are presented to the bank other than these brands and model numbers are not accepted.

The bidders will provide the total solution for the requested proposal namely: supply, installation and configuration of the items.

No	Task	Description
1	Supply of Items/ ICT resources	For the DR and main site
2	LAN Installation	For the DR Site
3	Server Enclosure and Blade Server Set up	For the DR Site
4	Server Deployment	For the DR Site
5	Server Enclosure and SAN Setup	For Primary Data center enhancement
6	Security Access Control Setup	For Primary Data Center

## 1.1 Tasks that needs to be performed on the new DR site

### 1.1.1 Power System Installation

- Power cable Installation (three phase installation) including the circuit breaker board.
- Electric Node Installation.
- Switch Breaker Installation.
- UPS installation and configuration.
- Testing the UPS system Input/output and automatic inverter AC/DC vice versa when the direct line is down.
- Providing Documentation and operation manual.

### **1.1.2 Local Area Network Installation**

The vendor will provide the following Local Area Network installation tasks based on the information and diagram that will be offered by the bank. Please note that the area size of the DR site is estimated to be between **16 to 25** sq mt.

#### **(i) Cabling**

- Installation of cable duct or trucking;
- Physically install Category 6 Structured Cable Systems;
- Installation of outlets, pulling cable and pre-termination including organizing, forming, dressing and labeling cables and terminating on the patch panel to industry standards;
- Accurately test the connectivity with high qualified tester;
- Providing the Design and Documentation of the structured cabling system with the connectivity test print report;

#### **(ii) Installation and configuration of Network devices**

- **Installation**
  - Assembling the 42u rack on the desired location;
  - Mounting and forming the supplied network devices on the rack;
  - Physically interconnecting the devices mounted;
- **Device configuration**
  - Cisco 3845 Router Configurations (Configuring security, Assigning IP address, defining logical interface, Routing Configuration and testing)
  - Cisco 3560 and 2960 switch (Configuring Security, Defining VLANS, Configuring VLAN interface, inter VLAN routing and spanning tree configuration if required)
- Testing the connectivity and functionality of all devices based on the requirement.
- Providing configuration documentation

### **1.1.3 Air Conditioning Installation**

- Mounting the ACs indoor unit to desired location.

- Mounting the ACs outdoor unit.
- Electric supply and Interconnecting the outdoor and indoor unit
- Configuring the AC.
- Testing the AC, ensure it is stable, there is good Circulation all around and test the Remote control to start ACs Automatically.
- Providing operation manual.

#### **1.1.4 Server Enclosure and blade server set up**

- Mounting the enclosure;
- Installing the front and rear component;
- Installing the server blades requested at 1.3.1 below;
- Configuring the enclosure switches based on the requirement;
- Configuring all the onboard administrator feature and function;
- Configuring all redundancy futures of the enclosure like Switches, Power supply, AC and Network;
- Testing the connectivity among all devices and providing the operation manual;
- Providing documentation;

#### **1.1.5 Server Deployment<sup>1</sup>**

- OS installation
  - Windows server 2008
  - Windows server 2003
  - Red hat
  - HP UX
- Domain controller preparation
- Active directory, DHCP, DNS and File server configuration
- Web server Installation and configuration
- Antivirus server installation and configuration
- Exchange server installation and configuration
- Submitting Documentation

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<sup>1</sup> NB: The bank will provide all the necessary software and license for the following tasks

## **1.2 Tasks that needs to be performed at the HO Main Site**

### **1.2.1 Security Gate and Camera installation**

#### **Security Camera**

- Physical installation of the camera.
- Configuring the cameras to enable centrally managed and record while needed.
- Testing and Documentation.

#### **Security gate**

- Installing the door accessories
- Installing the access control and cabling.
- Installing the card reader and exit push button.
- Testing and verification.
- Providing operation manual and documentation

### **1.2.2 Server enclosure and SAN Setup**

- Mounting Enclosure;
- Assembling and interconnecting the enclosure;
- Configure all the enclosure futures;
- Interconnect the enclosure with the existing enclosure and Network infrastructure;
- Mounting the sun Enclosure (HP AP845A) on the Rack;
- Interconnect to the existing network infrastructure;
- Mapping the new SAN drives to the existing infrastructure and allocate a space for the required Servers;
- Testing;
- Providing the operation manual and documentation;