

## **Addendum to the Technical Specifications of the Server Equipment**

### **1. Addressable Automatic Fire Suppression System**

FM-200 Fire Suppression system consisting of

- 80 ltr cylinder with valve, CCOE Approved, MS Seamless Tube Body
- The cylinder should come with following accessories:
  - NOVEC 1230 Gas: 40Kg
  - Pressure Gauge. (Brass/Steel/MS Construction, threaded type): 1Nos
  - Electromagnetic Actuator. (Operating voltage: 24VDC, Working Position: Normally Closed, Construction: MS/Brass/Steel): 1Nos
  - Manual Actuator: (Working Pressure: 6 Bar, Safety Seal & Pin to prevent accidental use): 1Nos
  - Flexible Discharge Hose: (MS, threaded Type with Connectors at both ends. Working Pressure: Min 7 Bar, Size: 40/50 mm): 1Nos
  - Cylinder Bracket: (Suitable to hold 80lts cylinder): 2Nos
  - Nozzles: 3Nos
  - Piping and Fitting: Complete with required forged fittings, M.S. Supports with bolts, U Clamp etc duly painted in red. Pipes should be of MS Seamless ASTM A-106, SCH. 40, Grade B.
- 2-Zone Gas Release Control Panel with release module: 1Nos
- Multi Sensor Detector (UL Listed, Dual LED for 360-degree visibility, Max. 254 Address Setting through 8-way DIP Switch, Smoke Sensitivity: (1.9+-0.76) %/ft): 6 Nos.
- Manual Gas Release set, UL Listed: 1Nos
- Manual Gas Abort Set, UL Listed: 1Nos
- Horn Cum Strobe, Flush/Ceiling Wall Mountable: 2Nos
- Power Cable, 1.5 Sq.mm, Flexible Copper Cable: 200mtr

### **2. SAN Storage**

- Dual Controller with 4 nos. of 16Gb/s FC ports per controller.
- 8GB Cache
- 24x 300GB 15K RPM SAS HDD
- RAID Controller supporting RAID 1, 5 & 6
- Snapshot, Volume Copy, Remote Copy, Remote Replication, De-duplication, Thin Provisioning, AES/DES/Hardware Encryption
- 12 months' hardware warranty from the date of successful delivery

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### **3. Servers Type II**

- 1U Dual Socket Rack Server
- Minimum of 12 DIMMs with memory expendable up to 300GB
- Intel C612 Chipset
- 2x Intel Xeon E5-2620, v4, 2.10GHz, 8 Core, 20MB Cache Processor
- 2x 16GB 2Rx4 DDR4-2400 MHz ECC Memory,
- 2x 450GB SAS, 12Gb/s, 15K RPM Hot Plug Hard Drive configured in RAID 1 volume
- Integrated RAID Controller supporting RAID 0 & 1
- 1x Internal DVD-RW Super Multi Optical Drive
- Integrated Remote Management Controller with 256 MB memory
- Network Interface Card 100/1000Mbps, 4 Ports
- Fiber Channel Host Bus Adapter, 16Gbps, 2 Ports
- 5x USB ports, 1 x VGA port
- 1x 10/100/1000 Mbit/s dedicated management LAN port for Remote Management
- 2x Modular 800W, 94% (Platinum efficiency), 100-240V, 50 / 60Hz Power Supply
- 4x Hot Plug Fan
- Microsoft Windows Server 2012 R2 Standard Edition with 5 CAL's
- Trusted Platform Module 2.0
- Rack mounting kit with cable manager
- 12 months' hardware warranty from the date of successful delivery

### **4. General Requirement**

- The vendor should provide minimum of 1-year hardware warranty. This warranty should be clearly mentioned in the Manufacturer's Authorization Letter issued by respective OEM on OEM letterhead, wherever applicable (for all the active components like router, UTM, PAC, Server, SAN Storage, Switch, Fire Suppression System etc.).

#### **NOTE:**

**Depending on requirement of the user, the evaluation for Server Room Equipment will be done LOT-wise as mentioned below.**

## **Addendum to the Technical Specifications of the Server Equipment**

### **1. Lot 1**

- a. Raised Access Floor Panel**
- b. False Ceiling with Fire Suppression System**
- c. Biometric Door Lock**
- d. Precision Air Conditioning**
- e. Environmental Monitoring System**

### **2. Lot 2**

- a. IP Based KVM Switch**
- b. 42 U Rack Storage of UPS**
- c. PDU for Racks**
- d. Router (VPN Capable)**
- e. UTM**
- f. SAN Storage**
- g. Servers**
- h. Core Switch**

**Any bid failing to fulfill lot items shall be rejected. This shall supersede the ITB Clause 39.3(a) as reflected in the SBD.**