**Section II: Schedule of Requirements**

**eSourcing reference:** RFQ/2022/42834

**Lot 1 Expansion enclosure for IBM V7000 Gen2 Server**

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| **No.** | **TECHNICAL SPECIFICATIONS (minimum requirements)** | **Psc.** |
|
|  | **Description** |  |
| 1 | **Expansion enclosure**  Form Factor: 2U  Expansion Canisters: Min 2  Inter Connectivity Ports: 12 Gb SAS ports for control enclosure and expansion enclosure  attachment  HDD Slots: Min 24 slots for 2.5-inch SAS drives  Included HDD 24 x 1.8TB 10K 2.5 Inch HDD  Power supply: 2 standard power supply  Hot-swap components: Power supplies, HDD drives  Support to connect with following control enclosure: IBM V7000 Gen2  Warranty: 1 year  *Reference model: IBM 2076 Storwize V7000 SFF Expansion Enclosure Model 24F* | 1 |

**Lot 2 Components for server**

| 1 | **FC Adapter**  Interface (Bus) Type: PCI Express 2.0  Ports: Min 2 x 8Gb Fibre Channel  Data Link Protocol: 8Gb Fibre Channel  Compatible with following server: Dell R310  Included FC Cables: Min qty x 2, 3m, LC  Warranty: 1 year  *Reference model is given for the information purpose only and any brand and model complying with the minimum technical specfiication will be accepted*  *Reference model: Qlogic 2562* | 1 |
| --- | --- | --- |
| 2 | **Tape Library**  Form Factor: 3U  Drive: LTO8 Fibre Channel  LTO Ultrium cartridge capacity: Min 40  Cartridges for I/O slots: Min 5  Included tape cartridges: Min 10 LTO 8 Tape cartridges  Physical capacity: 12TB native capacity/up to 30TB compressed capacity (LTO8)  Logical libraries: 1  Network interface: Ethernet  Power supply: 1 standard power supply  Hot-swap components: Power supplies, tape drives  Systems management: Storage Management Initiative Specification (SMI-S) enabled  Operating systems supported: Linux and Microsoft Windows open-system servers  Warranty: 3 year  *Reference model is given for the information purpose only and any brand and model complying with the minimum technical specfiication will be accepted*  *Reference model: DELL PowerVault LTO-8* | 1 |
| 3 | **HDD For NAS Storage**  Form Factor: 3.5 in  Interface: SATA  Capacity: Min 10 TB  Rotational Speed: 7200 RPM  Warranty: 1 year  *Reference model is given for the information purpose only and any brand and model complying with the minimum technical specfiication will be accepted*  *Reference model: WD Red Pro NAS Hard Drive 10 TB WD102KFBX* | 2 |

The bidders should include the following services in the financial offer:

A) Installing, Connecting and Configuring new Storage Expansion to existing Storage IBM V7000 Gen2

1. Physical installation in rack cabinet

2. Connect to existing Storage and fine tuning

3. Create pools and present to existing equipment

4. Expand existing VMware datastores

B) Installing and Connecting FC adapter in existing Dell server

1. Physical installation on new FC adapter

2. Install require drivers for FC adapter for Windows Server operating system

C) Installing, Connecting and Configuring new Tape Library

1. Physical installation in rack cabinet

2. FC connection between tape library and backup server

3. Crete new backup retention policy (we use Veeam Backup and Replication software for backup)

D) Installing, Configuring and migrating existing data to new Hard Drives

1. Replacing old Hard Drives with new

2. Migrate old data to New Hard Drives without losing data

**Delivery requirements –– Comparative Data Table**

| **UNOPS Requirements** | |
| --- | --- |
| **Delivery time** | Bidder shall deliver the goods in **maximum 90 calendar days** after Contract signature |
| **Delivery place and Incoterms rules** | Net of any direct taxes, customs duties, indirect taxes and VAT.  DAP (Delivered at Place, as per Incoterms 2020):  Transportation and offload of the equipment should be included in the price.  Installation shall be included where needed. |
| **Consignee details** | Exact addresses will available upon contract signature, but the price should include all costs of delivery, installation and integration where needed in Skopje |
| **UNOPS Right to vary requirements** | At the time the Contract is awarded, UNOPS reserves the right to vary the quantity of the goods and associated services specified above, provided this does not exceed +/- 20%, without any change in the unit prices or other terms and conditions of the RFQ. |

1. All items must be in the original production packaging with product declaration to ensure safe transport and utilization.
2. Transportation and offload of the equipment on the contracted location must be included in the price.
3. Suppliers should engage and should cover the costs of custom clearance agencies, if needed. Customs clearance is the responsibility of the Contractor. However, UNOPS will provide, upon request, all necessary documentation to demonstrate that the goods subject of this contract are exempted from custom duties and taxes including VAT.
4. Manufacturer's technical literature submitted with the offer must comply with the written specifications of the Bidder. In the event that there are differences between the submitted manufacturers’ literature and written Bidder specification, reasons for that must be explained in the Bidder specifications. Manufacturer's technical literature (brochures, booklets, instructions, etc.) should be submitted. The manufacturers’ technical literature should be marked in an appropriate manner (i.e. model number).
5. Bidder warrants that offered items are new and unused. Bidder shall further warrant that none of the supplies have any defect arising from design, materials or workmanship.
6. Items must be in compliance with the Law on health safety of products for general use in the North Macedonia.