LOT 1 | Price Submission Form – Primary Site (Phase I)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Lot #** | **Item #** | **Item Description** | **Qty** | **Rate (MVR) incl 6% GST** | **Amount (MVR) incl 6% GST** |
| **1** | 1 | **Blade Chassis as per specification table 1** | **01 Nos** |  |  |
| 2 | **Half-Height Blade Server as per specification table 2** | **01 Nos** |  |  |
| 3 | **Half-Height Blade Server as per specification table 3** | **01 Nos** |  |  |
| 4 | **Half-Height Blade Server as per specification table 4** | **01 Nos** |  |  |
| 5 | **Half-Height Blade Server as per specification table 5** | **01 Nos** |  |  |
| **LOT 1 | NET TOTAL (Maldivian Rufiyaa)** |  |

Note: All the items should include the manufacture part numbers if applicable and also must include price breakup

1.0 Blade Chassis

|  |  |
| --- | --- |
| Manufacture |  |
| Model / Part Number |  |
| Item Description |  |
| Quantity | **01 Nos** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 1 | **Blade Chassis**  |  |  |
| 1.1 | Form Factor | Maximum 10U Rack Form Factor |  |  |
| 1.2 | Max. No. of Blade | * Proposed enclosure should support minimum up to (16) half-height and up to (8) full-height server blades.
* And should also capable and support combine of full-height and half height server blades in the same enclosure
 |  |  |
| 1.3 | Type of supported blades | * Proposed enclosure should capable and support Server Blades (Intel x86);
* And shall also capable and support of Storage blades
 |  |  |
| 1.4 | No. of Interconnect Modules supports | Proposed enclosure shall be capable and support at least (06) Interconnect Modules slot or higher |  |  |
| 1.5 | Types of interconnect modules supported | Proposed solution shall be capable and support Ethernet; FC; Fibre Channel over Ethernet (FCoE); iSCSI; Inifini Band interconnect modules |  |  |
| 1.6 | Required Interconnect Modules | **Four (4) 10Gb Converge Switch Module** - Shall be capable of simplifying server connections by separating the server in the Blade enclosure from LAN, thus reducing cables without adding switches to manage |  |  |
| **Performance*** **Downlink Ports:** Should provide or support minimum sixteen (16) 10Gbps downlinks to Blade server from each switch for the proposed chassis
* Total downlink ports should be 64 with redundancy when 16 half height blades are installed with 2 x dual port 10 GB Flexible Converge Network Adapter.
* Shall be capable of slicing Each physical 10Gb downlink port up to (3) Flexible NICs and (1) Flexible HBA or up to (4) Flexible NICs
* Each Flexible HBA shall be configured to transport either Fiber Channel over Ethernet/CEE or Accelerated iSCSI protocol.
* Each of the tailoring NIC shall be capable of tailoring the network bandwidth with their own dedicated, customized bandwidth per 10Gb downlink connection, with customizable speeds from 100Mbps to 10Gbps
 |  |  |

|  |  |  |  |  |
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| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
|  |  | * **Uplink Ports:**Should provide at least four (4) SFP+ Uplink ports configurable to 1/10Gbps auto-negotiatingEthernet connection to Ethernet Switch and four (4) SFP+ Uplink ports configurable to either 10Gb Ethernet or 4Gb/8Gb Auto-negotiating Fibre Channel connections to FC SAN Storage or Ethernet Switches
 |  |  |
| * **Cross Connection Ports:** Should provide at least two (2) 10Gbps cross connects between Blade I/O Modules for redundancy and stacking
 |  |  |
| * Shall be capable of providing flexibility in choosing between 10Gbps SR, LR, or LRM fiber and copper SFP+ uplinks
 |  |  |
| * Shall be capable of providing flexibility in choosing between 4Gbps and 8Gbps Fibre SFP transceivers to connect to external storage switches
 |  |  |
| * Shall be capable of increasing the number of NICs per connection and configuring Flexible HBA without adding extra HBA cards, Blade I/O modules, and reducing cabling uplinks to the data centre network
 |  |  |
| * Shall be capable of tailoring network connections and speeds based on application needs
 |  |  |
| * Shall be capable of tailoring Flexible HBA connections and speeds based on application needs
 |  |  |
| * Shall be capable of allowing to setup of server connectivity prior to server installation for easy deployment
 |  |  |
| **Management** |  |  |
| * Should be capable of providing an embedded Management Console which is simple and should contain an intuitive Graphical User Interface (GUI) for defining, configuring, and managing network connections.
 |  |  |
| * Shall be capable of supporting HTTP, Secure scriptable CLI interface
* Shall be capable of move, add or change server network dynamically without impacting LAN and SAN administrator monitoring and management through industry standard SNMP
 |  |  |
| **Security** |  |  |
| * Shall be capable of supporting HTTPS (HTTP exchanged over an SSL-encrypted session) for access to the embedded GUI Management module.
 |  |  |
| * Shall be capable of providing User verification by account name and password
 |  |  |
| **Trunking and Failover** |  |  |
| * Shall be capable and configuring of the uplink Ports for failover.
 |  |  |
| 1.7 | No. of Power Supply | * Proposed enclosure should be fully populated and support minimum six (6) hot pluggable redundancy power supplies and should be configurable and support N+N as well as N+1 redundancy.
* Proposed solution shall be a single phase power subsystem enabled with technologies for lower power consumption and offering high energy efficiency levels.
 |  |  |

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| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 1.8 | No. of Fans | * Proposed enclosure should be fully populated and support minimum nine (9) hot pluggable cooling fans of fully loaded for redundancy and high-availability or blowers enabled with technologies for improved power consumption and acoustics for the proposed Chassis
 |  |  |
| 1.9 | Enclosure Administration Management Modules | * Proposed enclosure should be Fully Redundant Enclosure Administrator Management Module with built-in KVM functionality or integrated KVM module
 |  |  |
| * Allows Single secure interface for inventory, configuration, monitoring, and alerting for the chassis and all components
 |  |  |
| * All the connected components should be manageable using a Secure centralized Web based Graphical user interface
 |  |  |
| * Provides integrated access to all interconnect module
 |  |  |
| * Provides integrated all blade servers
 |  |  |
| * Shall be capable of real-time power/thermal monitoring and management
 |  |  |
| * Proposed enclosure shall have a built-in LCD panel to which can full-fledge configuration capabilities, Chat capabilities and show enclosures status; View of the servers or port mapping information; Comprehensive system settings and alerts
 |  |  |
| 1.10 | Scalability | * Allowing resources to be pooled and shared across multiple enclosures.
* And also management and network interconnects should extend scalability beyond a single enclosure.
 |  |  |
| 1.11 | Management software | * Comprehensive management software for all the modules on the enclosure and blade servers
 |  |  |
| 1.12 | Connectivity cable and accessories | * Shall provide minimum two (2) 1G SFP RJ45 and Cable for each interconnect modules provided.
* Shall provide minimum two (2) 3M 10G SFP+ and Cable for each interconnect modules provided.
* Shall provide minimum two (2) 8 GB FC SFP Transceiver for each interconnect modules provided.
* Shall provide minimum two (2) 5M Multi-mode
* 50/125um LC/LC 8Gb FC and 10GbE Laser-enhanced Cable 1 Pk for each interconnect modules provided.
 |  |  |
| 1.13 | Power cable and accessories | * Shall provide Six (6) IEC 320 C19 Plug AC Power cords
* Shall provide installation guide and documentation CD
 |  |  |
| 1.14 | Warranty | Enclosure + Interconnect Modules* Service Type: Parts, Labor and On-Site
* Service Description: 24 x 7 x 1 Hour (1/2-Hour Call to Repair or replace)
* Service Location: On-site
* Service Duration: 5 Year
 |  |  |

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| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 1.15 | Vendor Certified Engineers  | * Minimum two Vendor Certified Engineers with the bidder organization. (Certification copy, Letter from organization that staff is employed at that organization and ID card / Passport Copy should be submitted of the staff.)
 | Specify relevant page no / section |  |
| 1.16 | Past Experience | * Should specify the number of organizations/installation where proposed hardware is installed by the bidder and shall submit proof of supply of same brand hardware to other organizations within last 3 years. (Bidder should submit purchase orders and letter from user organization mentioning successful implementation.)
 | Specify relevant page no / section |  |
| 1.17 | Authorisation Letter | * Bidder shall provide proof of authorized distributor/ reseller and also should provide contact details of the Manufacture to verify the authentication the certificate/letter
 | Specify relevant page no / section |  |
| 1.18 | Installation | * Maximum 10 days from the date of supply.
 |  |  |

2.0 Blade Server: Asycuda World Production Server

|  |  |
| --- | --- |
| Manufacture |  |
| Model Number |  |
| Item Description |  |
| Quantity | **01 Nos** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 2 | **Half-Height Blade Servers** |  |  |
| 2.1 | Features | * Proposed blade shall be capable of Datacenter discovery services
* Proposed blade server shall be capable of upgrading 20Gb Converge Network LOM
 |  |  |
| 2.2 | Processor | * Shall provide minimum two (2) Intel Xeon E5-26XX v2 (2.6GHz / 8-Core / 20MB / 95W) Processor or better
 |  |  |
| 2.3 | Chipset | * Should provide chipset details
 |  |  |
| 2.4 | Cache Memory | * Shall support minimum 15MB L3 cache
 |  |  |
| 2.5 | No. of DIM slot | * Shall support minimum sixteen (16) DIMM slots
 |  |  |
| 2.6 | Maximum Memory upgradable | * Shall be capable and support minimum 384 GB (16 x 24GB) RDIMMs (Single Rank and Dual Rank)
 |  |  |
| 2.7 | Memory | * Shall provide minimum 128GB (8 x 16GB) Dual Rank PC3L-12800R (DDR3-1600) Registered LV Memory
 |  |  |
| 2.8 | Raid Controller | * Shall provide minimum 6Gbps SAS Raid Storage Controller with at least 512MB Flash Backed Write Cache
 |  |  |
| 2.9 | Hot Pluggable Drive support | * Shall capable and support minimum two (2) hot-plug SFF drive bays –Should support SAS, SATA, and SSD
 |  |  |
| 2.10 | Hard Drives | * Shall provide minimum two (2) 146GB 6Gbps SAS 15K rpm SFF (2.5-inch) Hot Plug Hard Drive
 |  |  |
| 2.11 | Network Controller | * Shall provide minimum 2 x Dual Port 10Gb Flexible Converge Network Adapter with the following capabilities
* Proposed Flexible Converge Network Adapter shall be capable of full hardware offload of iSCSI and FCoE storage protocol processing for highest performance converged Ethernet data and storage networks.
* Proposed Converge Network Adapter shall be cable to Each physical 10Gb Port configured up to 3 Flexible NICs and 1 Flexible HBA or up to 4 Flexible NICs
* Proposed Converge Network Adapter shall be capable of user configurable bandwidth setting when combined with proposed Flexible Converge Switch module and each 10Gb downlink port shall be a customizable speeds from 100Mbps to 10Gbps on up to four physical function, in increments of 100Mb/s.
* Shall be capable of hardware acceleration and offloads for stateless TCP/IP, TCP Offload Engine.
* Shall be capable and support for PXE
 |  |  |

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| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 2.12 | No. of I/O Expansion Slots | * Proposed server shall be capable and shall support minimum two (2) I/O x16 PCIe expansion mezzanine
* I/O x16 PCIe expansion mezzanine slots shall support Network adapters and high transactional local storage, if required for future expansion
 |  |  |
| 2.13 | Form Factor | * Half-Height
 |  |  |
| 2.14 | Management | * Shall support minimum 10/100Mbps port for management to communicate blade enclosure management module. And also it should supports both Win and Linux-based central management servers
* It should be comprehensive set of embedded management features and shall supporting the complete life cycle of the server, from initial installation, through ongoing management, to service alerting and remote support.
* It should be agent less management and shall provide server health monitoring alerting capability with any OS agent.
* Proposed solution should be able to provision and configure server without any separate media
* Proposed solution should provide Mobile App license and it should enables the ability to access, deploy and manage your server anytime from iPhone or Android mobile
 |  |  |
| 2.15 | Supported OS andVirtualization SW | * Proposed blade server shall support OS and virtualization software such as
* Microsoft Windows Server
* Red Hat Enterprise Linux (RHEL)
* Oracle Linux
* SUSE Linux Enterprise Server (SLES)
* Oracle Solaris
* VMware
* Citrix XenServer
 |  |  |
| 2.16 | Warranty | * Half-Height Blade Server
* Service Type: Parts, Labour and On-Site
* Service Description: 24 x 7 x 1 Hour (1/2-Hour Call to Repair or replace)
* Service Location: On-site
* Service Duration: 5 Year
 |  |  |
| 2.17 | Vendor Certified Engineers  | * Minimum two Vendor Certified Engineers with the bidder organization. (Certification copy, Letter from organization that staff is employed at that organization and ID card / Passport Copy should be submitted of the staff.)
 | Specify relevant page no / section |  |

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| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 2.18 | Past Experience | * Should specify the number of organizations/installation where proposed hardware is installed by the bidder and shall submit proof of supply of same brand hardware to other organizations within last 3 years. (Bidder should submit purchase orders and letter from user organization mentioning successful implementation.)
 | Specify relevant page no / section |  |
| 2.19 | Authorisation Letter | * Bidder shall provide proof of authorized distributor/ reseller and also should provide contact details of the Manufacture to verify the authentication the certificate/letter
 | Specify relevant page no / section |  |
| 2.20 | Installation | * Maximum 10 days from the date of supply.
 |  |  |

3.0 Blade Server: Oracle Database Production Server

|  |  |
| --- | --- |
| Manufacture |  |
| Model Number |  |
| Item Description |  |
| Quantity | **01 Nos** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 3 | **Half-Height Blade Servers** |  |  |
| 3.1 | Features | * Proposed blade shall be capable of Datacenter discovery services
* Proposed blade server shall be capable of upgrading 20Gb Converge Network LOM
 |  |  |
| 3.2 | Processor | * Shall provide minimum two (2) Intel Xeon E5-26XX v2 (2.6GHz / 8-Core / 20MB / 95W) Processor or better
 |  |  |
| 3.3 | Chipset | * Should provide chipset details
 |  |  |
| 3.4 | Cache Memory | * Shall support minimum 15MB L3 cache
 |  |  |
| 3.5 | No. of DIM slot | * Shall support minimum sixteen (16) DIMM slots
 |  |  |
| 3.6 | Maximum Memory upgradable | * Shall be capable and support minimum 384 GB (16 x 24GB) RDIMMs (Single Rank and Dual Rank)
 |  |  |
| 3.7 | Memory | * Shall provide minimum 128GB (8 x 16GB) Dual Rank PC3L-12800R (DDR3-1600) Registered LV Memory
 |  |  |
| 3.8 | Raid Controller | * Shall provide minimum 6Gbps SAS Raid Storage Controller with at least 512MB Flash Backed Write Cache
 |  |  |
| 3.9 | Hot Pluggable Drive support | * Shall capable and support minimum two (2) hot-plug SFF drive bays –Should support SAS, SATA, and SSD
 |  |  |
| 3.10 | Hard Drives | * Shall provide minimum two (2) 146GB 6Gbps SAS 15K rpm SFF (2.5-inch) Hot Plug Hard Drive
 |  |  |
| 3.11 | Network Controller | * Shall provide minimum 2 x Dual Port 10Gb Flexible Converge Network Adapter with the following capabilities
* Proposed Flexible Converge Network Adapter shall be capable of full hardware offload of iSCSI and FCoE storage protocol processing for highest performance converged Ethernet data and storage networks.
* Proposed Converge Network Adapter shall be cable to Each physical 10Gb Port configured up to 3 Flexible NICs and 1 Flexible HBA or up to 4 Flexible NICs
* Proposed Converge Network Adapter shall be capable of user configurable bandwidth setting when combined with proposed Flexible Converge Switch module and each 10Gb downlink port shall be a customizable speeds from 100Mbps to 10Gbps on up to four physical function, in increments of 100Mb/s.
* Shall be capable of hardware acceleration and offloads for stateless TCP/IP, TCP Offload Engine.
* Shall be capable and support for PXE
 |  |  |

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| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 3.12 | No. of I/O Expansion Slots | * Proposed server shall be capable and shall support minimum two (2) I/O x16 PCIe expansion mezzanine
* I/O x16 PCIe expansion mezzanine slots shall support Network adapters and high transactional local storage, if required for future expansion
 |  |  |
| 3.13 | Form Factor | * Half-Height
 |  |  |
| 3.14 | Management | * Shall support minimum 10/100Mbps port for management to communicate blade enclosure management module. And also it should supports both Win and Linux-based central management servers
* It should be comprehensive set of embedded management features and shall supporting the complete life cycle of the server, from initial installation, through ongoing management, to service alerting and remote support.
* It should be agent less management and shall provide server health monitoring alerting capability with any OS agent.
* Proposed solution should be able to provision and configure server without any separate media
* Proposed solution should provide Mobile App license and it should enables the ability to access, deploy and manage your server anytime from iPhone or Android mobile
 |  |  |
| 3.15 | Supported OS andVirtualization SW | * Proposed blade server shall support OS and virtualization software such as
* Microsoft Windows Server
* Red Hat Enterprise Linux (RHEL)
* Oracle Linux
* SUSE Linux Enterprise Server (SLES)
* Oracle Solaris
* VMware
* Citrix XenServer
 |  |  |
| 3.16 | Warranty | * Half-Height Blade Server
* Service Type: Parts, Labour and On-Site
* Service Description: 24 x 7 x 1 Hour (1/2-Hour Call to Repair or replace)
* Service Location: On-site
* Service Duration: 5 Year
 |  |  |
| 3.17 | Vendor Certified Engineers  | * Minimum two Vendor Certified Engineers with the bidder organization. (Certification copy, Letter from organization that staff is employed at that organization and ID card / Passport Copy should be submitted of the staff.)
 | Specify relevant page no / section |  |

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| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 3.18 | Past Experience | * Should specify the number of organizations/installation where proposed hardware is installed by the bidder and shall submit proof of supply of same brand hardware to other organizations within last 3 years. (Bidder should submit purchase orders and letter from user organization mentioning successful implementation.)
 | Specify relevant page no / section |  |
| 3.19 | Authorisation Letter | * Bidder shall provide proof of authorized distributor/ reseller and also should provide contact details of the Manufacture to verify the authentication the certificate/letter
 | Specify relevant page no / section |  |
| 3.21 | Installation | * Maximum 10 days from the date of supply.
 |  |  |

4.0 Blade Server: Asycuda World Production Server Mirror

|  |  |
| --- | --- |
| Manufacture |  |
| Model Number |  |
| Item Description |  |
| Quantity | **01 Nos** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 4 | **Half-Height Blade Servers** |  |  |
| 4.1 | Features | * Proposed blade shall be capable of Datacenter discovery services
* Proposed blade server shall be capable of upgrading 20Gb Converge Network LOM
 |  |  |
| 4.2 | Processor | * Shall provide minimum two (2) Intel Xeon E5-26XX v2 (2.6GHz / 8-Core / 20MB / 95W) Processor or better
 |  |  |
| 4.3 | Chipset | * Should provide chipset details
 |  |  |
| 4.4 | Cache Memory | * Shall support minimum 15MB L3 cache
 |  |  |
| 4.5 | No. of DIM slot | * Shall support minimum sixteen (16) DIMM slots
 |  |  |
| 4.6 | Maximum Memory upgradable | * Shall be capable and support minimum 384 GB (16 x 24GB) RDIMMs (Single Rank and Dual Rank)
 |  |  |
| 4.7 | Memory | * Shall provide minimum 256GB (16 x 16GB) Dual Rank PC3L-12800R (DDR3-1600) Registered LV Memory
 |  |  |
| 4.8 | Raid Controller | * Shall provide minimum 6Gbps SAS Raid Storage Controller with at least 512MB Flash Backed Write Cache
 |  |  |
| 4.9 | Hot Pluggable Drive support | * Shall capable and support minimum two (2) hot-plug SFF drive bays –Should support SAS, SATA, and SSD
 |  |  |
| 4.10 | Hard Drives | * Shall provide minimum two (2) 146GB 6Gbps SAS 15K rpm SFF (2.5-inch) Hot Plug Hard Drive
 |  |  |
| 4.11 | Network Controller | * Shall provide minimum 2 x Dual Port 10Gb Flexible Converge Network Adapter with the following capabilities
* Proposed Flexible Converge Network Adapter shall be capable of full hardware offload of iSCSI and FCoE storage protocol processing for highest performance converged Ethernet data and storage networks.
* Proposed Converge Network Adapter shall be cable to Each physical 10Gb Port configured up to 3 Flexible NICs and 1 Flexible HBA or up to 4 Flexible NICs
* Proposed Converge Network Adapter shall be capable of user configurable bandwidth setting when combined with proposed Flexible Converge Switch module and each 10Gb downlink port shall be a customizable speeds from 100Mbps to 10Gbps on up to four physical function, in increments of 100Mb/s.
* Shall be capable of hardware acceleration and offloads for stateless TCP/IP, TCP Offload Engine.
* Shall be capable and support for PXE
 |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 4.12 | No. of I/O Expansion Slots | * Proposed server shall be capable and shall support minimum two (2) I/O x16 PCIe expansion mezzanine
* I/O x16 PCIe expansion mezzanine slots shall support Network adapters and high transactional local storage, if required for future expansion
 |  |  |
| 4.13 | Form Factor | * Half-Height
 |  |  |
| 4.14 | Management | * Shall support minimum 10/100Mbps port for management to communicate blade enclosure management module. And also it should supports both Win and Linux-based central management servers
* It should be comprehensive set of embedded management features and shall supporting the complete life cycle of the server, from initial installation, through ongoing management, to service alerting and remote support.
* It should be agent less management and shall provide server health monitoring alerting capability with any OS agent.
* Proposed solution should be able to provision and configure server without any separate media
* Proposed solution should provide Mobile App license and it should enables the ability to access, deploy and manage your server anytime from iPhone or Android mobile
 |  |  |
| 4.15 | Supported OS andVirtualization SW | * Proposed blade server shall support OS and virtualization software such as
* Microsoft Windows Server
* Red Hat Enterprise Linux (RHEL)
* Oracle Linux
* SUSE Linux Enterprise Server (SLES)
* Oracle Solaris
* VMware
* Citrix XenServer
 |  |  |
| 4.16 | Warranty | * Half-Height Blade Server
* Service Type: Parts, Labour and On-Site
* Service Description: 24 x 7 x 1 Hour (1/2-Hour Call to Repair or replace)
* Service Location: On-site
* Service Duration: 5 Year
 |  |  |
| 4.17 | Vendor Certified Engineers  | * Minimum two Vendor Certified Engineers with the bidder organization. (Certification copy, Letter from organization that staff is employed at that organization and ID card / Passport Copy should be submitted of the staff.)
 | Specify relevant page no / section |  |

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| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 4.18 | Past Experience | * Should specify the number of organizations/installation where proposed hardware is installed by the bidder and shall submit proof of supply of same brand hardware to other organizations within last 3 years. (Bidder should submit purchase orders and letter from user organization mentioning successful implementation.)
 | Specify relevant page no / section |  |
| 4.19 | Authorisation Letter | * Bidder shall provide proof of authorized distributor/ reseller and also should provide contact details of the Manufacture to verify the authentication the certificate/letter
 | Specify relevant page no / section |  |
| 4.20 | Installation | * Maximum 10 days from the date of supply.
 |  |  |

5.0 Blade Server: Oracle Database Production Server Mirror

|  |  |
| --- | --- |
| Manufacture |  |
| Model Number |  |
| Item Description |  |
| Quantity | **01 Nos** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 5 | **Half-Height Blade Servers** |  |  |
| 5.1 | Features | * Proposed blade shall be capable of Datacenter discovery services
* Proposed blade server shall be capable of upgrading 20Gb Converge Network LOM
 |  |  |
| 5.2 | Processor | * Shall provide minimum two (2) Intel Xeon E5-26XX v2 (2.6GHz / 8-Core / 20MB / 95W) Processor or better
 |  |  |
| 5.3 | Chipset | * Should provide chipset details
 |  |  |
| 5.4 | Cache Memory | * Shall support minimum 15MB L3 cache
 |  |  |
| 5.5 | No. of DIM slot | * Shall support minimum sixteen (16) DIMM slots
 |  |  |
| 5.6 | Maximum Memory upgradable | * Shall be capable and support minimum 384 GB (16 x 24GB) RDIMMs (Single Rank and Dual Rank)
 |  |  |
| 5.7 | Memory | * Shall provide minimum 256GB (16 x 16GB) Dual Rank PC3L-12800R (DDR3-1600) Registered LV Memory
 |  |  |
| 5.8 | Raid Controller | * Shall provide minimum 6Gbps SAS Raid Storage Controller with at least 512MB Flash Backed Write Cache
 |  |  |
| 5.9 | Hot Pluggable Drive support | * Shall capable and support minimum two (2) hot-plug SFF drive bays –Should support SAS, SATA, and SSD
 |  |  |
| 5.10 | Hard Drives | * Shall provide minimum two (2) 146GB 6Gbps SAS 15K rpm SFF (2.5-inch) Hot Plug Hard Drive
 |  |  |
| 5.11 | Network Controller | * Shall provide minimum 2 x Dual Port 10Gb Flexible Converge Network Adapter with the following capabilities
* Proposed Flexible Converge Network Adapter shall be capable of full hardware offload of iSCSI and FCoE storage protocol processing for highest performance converged Ethernet data and storage networks.
* Proposed Converge Network Adapter shall be cable to Each physical 10Gb Port configured up to 3 Flexible NICs and 1 Flexible HBA or up to 4 Flexible NICs
* Proposed Converge Network Adapter shall be capable of user configurable bandwidth setting when combined with proposed Flexible Converge Switch module and each 10Gb downlink port shall be a customizable speeds from 100Mbps to 10Gbps on up to four physical function, in increments of 100Mb/s.
* Shall be capable of hardware acceleration and offloads for stateless TCP/IP, TCP Offload Engine.
* Shall be capable and support for PXE
 |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 5.12 | No. of I/O Expansion Slots | * Proposed server shall be capable and shall support minimum two (2) I/O x16 PCIe expansion mezzanine
* I/O x16 PCIe expansion mezzanine slots shall support Network adapters and high transactional local storage, if required for future expansion
 |  |  |
| 5.13 | Form Factor | * Half-Height
 |  |  |
| 5.14 | Management | * Shall support minimum 10/100Mbps port for management to communicate blade enclosure management module. And also it should supports both Win and Linux-based central management servers
* It should be comprehensive set of embedded management features and shall supporting the complete life cycle of the server, from initial installation, through ongoing management, to service alerting and remote support.
* It should be agent less management and shall provide server health monitoring alerting capability with any OS agent.
* Proposed solution should be able to provision and configure server without any separate media
* Proposed solution should provide Mobile App license and it should enables the ability to access, deploy and manage your server anytime from iPhone or Android mobile
 |  |  |
| 5.15 | Supported OS andVirtualization SW | * Proposed blade server shall support OS and virtualization software such as
* Microsoft Windows Server
* Red Hat Enterprise Linux (RHEL)
* Oracle Linux
* SUSE Linux Enterprise Server (SLES)
* Oracle Solaris
* VMware
* Citrix XenServer
 |  |  |
| 5.16 | Warranty | * Half-Height Blade Server
* Service Type: Parts, Labour and On-Site
* Service Description: 24 x 7 x 1 Hour (1/2-Hour Call to Repair or replace)
* Service Location: On-site
* Service Duration: 5 Year
 |  |  |
| 5.17 | Vendor Certified Engineers  | * Minimum two Vendor Certified Engineers with the bidder organization. (Certification copy, Letter from organization that staff is employed at that organization and ID card / Passport Copy should be submitted of the staff.)
 | Specify relevant page no / section |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 5.18 | Past Experience | * Should specify the number of organizations/installation where proposed hardware is installed by the bidder and shall submit proof of supply of same brand hardware to other organizations within last 3 years. (Bidder should submit purchase orders and letter from user organization mentioning successful implementation.)
 | Specify relevant page no / section |  |
| 5.19 | Authorisation Letter | * Bidder shall provide proof of authorized distributor/ reseller and also should provide contact details of the Manufacture to verify the authentication the certificate/letter
 | Specify relevant page no / section |  |
| 5.20 | Installation | * Maximum 10 days from the date of supply.
 |  |  |

Installations and Configuring

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Specifications** | **Proposed scope of work in detail** | **Compliance [Yes/No/Higher]** |
| 1 | Blade Infrastructure | Blade/s installation, IO Module/s installation, LAN and Blade enclosure management connectivity installation. |  |  |
| 2 | Landscape diagram | Landscape diagram for proposed data centre infrastructure front and rear with labelling  | Specify relevant page no / section |  |
| 3 | Scope of Work | Detail scope of work should be specify |  |  |
| 4 | Implementation plan | Should submit details implementation plane | Specify relevant page no / section |  |
| 5 | Technical support process | Should submit technical support process diagram | Specify relevant page no / section |  |
| 6 | Implementation Engineers CVs  | Should submit details technical engineers CVs | Specify relevant page no / section |  |
| 7 | On-the-Job Training | **On-the-Job Training by implementing engineer during the installation process*** Blade and Blade Server Infrastructure
 | Specify relevant page no / section including details of the training |  |

Documentation

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Specifications** | **Additional Remarks** | **Compliance [Yes/No/Higher]** |
| 1 | Documentation | Signing off documentation; Detailed production environment configuration and setting up manual with diagram |  |  |

LOT 2 | Price Submission Form – Primary Site (Phase I)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Lot #** | **Item #** | **Item Description** | **Qty** | **Rate (MVR) incl 6% GST** | **Amount (MVR) incl 6% GST** |
| **2** | 6.1 | **Server Virtualization License with Software Assurance including 24 x 7 x 365days premium support for 1-Year** | **01 Bundle** |  |  |
| 6.2 | **Desktop Virtualization License with Software Assurance including 24x7x365days premium support for 1-Year** | **01 Bundle** |  |  |
| 6.3 | **Virtual Machine Manager License including premium support for 1-Year** | **01 Bundle** |  |  |
| **LOT 2 | NET TOTAL (Maldivian Rufiyaa)** |  |

Note: All the items should include the manufacture part numbers if applicable and also must include price breakup

6.0 Software

|  |  |
| --- | --- |
| Manufacture |  |
| Model Number |  |
| Item Description |  |
| Quantity | **01 Bundle** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| **Server Virtualization License with Software Assurance including 24 x 7 x 365days premium support for 1-Year** |
| 6.1 | Virtualization SW (Citrix) | 05Nos Citrix XenServer (Per Socket) Perpetual License |  |  |
| 05Nos Citrix XenServer (Per Socket) Software Maintenance 1 Year |  |  |
| 05Nos 1 Year (24 x 7 x 365days) Technical Support  |  |  |
| **Desktop Virtualization License with Software Assurance including 24x7x365days premium support for 1-Year** |
| 6.2 | Virtualization SW (Citrix) | 50Nos Citrix XenDesktop Enterprise Edition - x1 User/Device License with SA |  |  |
| 50Nos Citrix XenDesktop Enterprise Edition Premier Support 1 Year - x1 User or Device License |  |  |
| 50Nos 1 Year (24 x 7 x 365days) Technical Support |  |  |
| 50Nos Citrix XenApp Enterprise - x1 Concurrent User Connection with SA |  |  |
| 50Nos Citrix XenApp Enterprise Edition Premier Support 1 Year |  |  |
| 50Nos 1 Year (24 x 7 x 365days) Technical Support |  |  |
| 50Nos Citrix XenClient(Offline Client) Enterprise Edition - x1 User/Device License with SA |  |  |
| 50Nos Citrix XenClient(Offline Client) Enterprise Edition Premier Support 1 Year |  |  |
| 50Nos 1 Year (24 x 7 x 365days) Production and Technical Support |  |  |
| **VirtualMachine Manager License including premium support for 1-Year**  |
| 6.3 | Virtualization SW (Citrix) | 01Nos Citrix Virtual Machine Manager License with SA  |  |  |
| 01Nos Citrix Virtual Machine Manager Premier Support 1 Year  |  |  |
| 01Nos 1 Year (24 x 7 x 365days) Technical Support |  |  |
| 6.4 | Vendor Certified Engineers  | * Minimum two Vendor Certified Engineers with the bidder organization. (Certification copy, Letter from organization that staff is employed at that organization and ID card / Passport Copy should be submitted of the staff.)
 | Specify relevant page no / section |  |
| 6.5 | Past Experience | * Should specify the number of organizations / installation where proposed hardware is installed by the bidder and shall submit proof of supply of same brand hardware to other organizations within last 3 years. (Bidder should submit purchase orders and letter from user organization mentioning successful implementation.)
 | Specify relevant page no / section |  |
| 6.6 | Authorisation Letter | * Bidder shall provide proof of authorized distributor/ reseller and also should provide contact details of the Manufacture to verify the authentication the certificate/letter
 | Specify relevant page no / section |  |
| 6.7 | Installation | * Maximum 10 days from the date of supply.
 |  |  |

Installations and Configuring

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Specifications** | **Proposed scope of work in detail** | **Compliance [Yes/No/Higher]** |
| 1 | Virtualization Infrastructure | Installation and configuration of server virtualization infrastructure including presenting storage to VM and setting up of high available environment. |  |  |
| 2 | Desktop Infrastructure | Installation and configuring of desktop virtualization infrastructure including presenting storage to VM and setting up of High available environment. |  |  |
| 3 | Server OS and Database | Installation and configuring of Windows Server 2012 and enabling AD fail overInstallation and configuration of SQL Server 2014 and setting up database fail over |  |  |
| 4 | Design diagram | Design diagram and documentation  | Specify relevant page no / section |  |
| 5 | Scope of Work | Detail scope of work should be specify |  |  |
| 6 | Implementation plan | Should submit details implementation plane | Specify relevant page no / section |  |
| 7 | Technical support process | Should submit technical support process diagram | Specify relevant page no / section |  |
| 8 | Implementation Engineers CVs  | Should submit details technical engineers CVs | Specify relevant page no / section |  |
| 9 | On-the-Job Training | **On-the-Job Training by implementing engineer during the installation process*** Citrix Xen Server Virtualization Infrastructure
* Citrix XenDesktopVirtualization Infrastructure
* Citrix XenApp Virtualization Infrastructure
* Server and Desktop Virtualization Infrastructure
* Windows Server 2012 including setting up AD & SQL server
 | Specify relevant page no / section including details of the training |  |

Documentation

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Specifications** | **Additional Remarks** | **Compliance [Yes/No/Higher]** |
| 1 | Documentation | Signing off documentation; Detailed production environment configuration and setting up manual with diagram |  |  |

LOT 3 | Price Submission Form – Primary Site (Phase I)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Lot #** | **Item #** | **Item Description** | **Qty** | **Rate (MVR) incl 6% GST** | **Amount (MVR) incl 6% GST** |
| **3** | 7.0 | **Operating System License and CALs** |
| 7.1 | **P73-06295 Windows SvrStd 2012R2 SNGL OLP NL 2Proc** | **10Nos** |  |  |
| 7.2 | **R18-04290 Windows SvrCAL 2012 OLP NL DvcCAL** | **05Nos** |  |  |
| 7.3 | **6VC-02076 WinRmtDsktpSrvcsCAL 2012 OLP NL DvcCAL** | **50Nos** |  |  |
| **LOT 3 | NET TOTAL (Maldivian Rufiyaa)** |  |

Note: All the items should include the manufacture part numbers if applicable and also must include price breakup

7.0 Software

|  |  |
| --- | --- |
| Manufacture |  |
| Model Number |  |
| Item Description |  |
| Quantity | **01 Bundle** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| **Operating System License and CALs** |
| 7.1 | Operating System | 10Nos P73-06295 Windows SvrStd 2012R2 SNGL OLP NL 2Proc |  |  |
| 7.2 | Svr CALs | 05Nos R18-04290 Windows SvrCAL 2012 OLP NL DvcCAL |  |  |
| 7.3 | RDP CALs | 50Nos 6VC-02076 WinRmtDsktpSrvcsCAL 2012 OLP NL DvcCAL |  |  |
| 7.4 | Vendor Certified Engineers | * Minimum two Vendor Certified Engineers with the bidder organization. (Certification copy, Letter from organization that staff is employed at that organization and ID card / Passport Copy should be submitted of the staff.)
 | Specify relevant page no / section |  |
| 7.5 | Past Experience | * Should specify the number of organizations / installation where proposed hardware is installed by the bidder and shall submit proof of supply of same brand hardware to other organizations within last 3 years. (Bidder should submit purchase orders and letter from user organization mentioning successful implementation.)
 | Specify relevant page no / section |  |
| 7.6 | Authorisation Letter | * Bidder shall provide proof of authorized distributor/ reseller and also should provide contact details of the Manufacture to verify the authentication the certificate/letter
 | Specify relevant page no / section |  |
| 7.7 | Installation | * Maximum 10 days from the date of supply.
 |  |  |

Installations and Configuring

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Specifications** | **Proposed scope of work in detail** | **Compliance [Yes/No/Higher]** |
| 1 | Virtualization Infrastructure | Installation and configuration of server virtualization infrastructure including presenting storage to VM and setting up of high available environment. |  |  |
| 2 | Desktop Infrastructure | Installation and configuring of desktop virtualization infrastructure including presenting storage to VM and setting up of High available environment. |  |  |
| 3 | Server OS and Database | Installation and configuring of Windows Server 2012 and enabling AD fail overInstallation and configuration of SQL Server 2014 and setting up database fail over |  |  |
| 4 | Design diagram | Design diagram and documentation  | Specify relevant page no / section |  |
| 5 | Scope of Work | Detail scope of work should be specify |  |  |
| 6 | Implementation plan | Should submit details implementation plane | Specify relevant page no / section |  |
| 7 | Technical support process | Should submit technical support process diagram | Specify relevant page no / section |  |
| 8 | Implementation Engineers CVs  | Should submit details technical engineers CVs | Specify relevant page no / section |  |
| 9 | On-the-Job Training | **On-the-Job Training by implementing engineer during the installation process*** Server and Desktop Virtualization Infrastructure
* Windows Server 2012 including setting up AD & SQL server
 | Specify relevant page no / section including details of the training |  |

Documentation

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Specifications** | **Additional Remarks** | **Compliance [Yes/No/Higher]** |
| 1 | Documentation | Signing off documentation; Detailed production environment configuration and setting up manual with diagram |  |  |

LOT 4 | Price Submission Form – Primary Site (Phase I)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Lot #** | **Item #** | **Item Description** | **Qty** | **Rate (MVR) incl 6% GST** | **Amount (MVR) incl 6% GST** |
| **4** | 8.0 | **Database Enterprise Core Base License with Unlimited CALs** |
| 8.1 | **7JQ-00768 SQLSvrEntCore2014 OLP 2Lic NL GovCoreLicQlfd** | **2Nos** |  |  |
| **LOT 4 | NET TOTAL (Maldivian Rufiyaa)** |  |

Note: All the items should include the manufacture part numbers if applicable and also must include price breakup

8.0 Software

|  |  |
| --- | --- |
| Manufacture |  |
| Model Number |  |
| Item Description |  |
| Quantity | **02Nos** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| **Database Enterprise Core Base License with Unlimited CALs**  |
| 8.1 | Database Application | 7JQ-00768SQLSvrEntCore2014 OLP 2Lic NL GovCoreLicQlfd |  |  |
| 8.2 | Vendor Certified Engineers | * Minimum two Vendor Certified Engineers with the bidder organization. (Certification copy, Letter from organization that staff is employed at that organization and ID card / Passport Copy should be submitted of the staff.)
 | Specify relevant page no / section |  |
| 8.3 | Past Experience | * Should specify the number of organizations / installation where proposed hardware is installed by the bidder and shall submit proof of supply of same brand hardware to other organizations within last 3 years. (Bidder should submit purchase orders and letter from user organization mentioning successful implementation.)
 | Specify relevant page no / section |  |
| 8.4 | Authorisation Letter | * Bidder shall provide proof of authorized distributor/ reseller and also should provide contact details of the Manufacture to verify the authentication the certificate/letter
 | Specify relevant page no / section |  |
| 8.5 | Installation | * Maximum 10 days from the date of supply.
 |  |  |

Installations and Configuring

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Specifications** | **Proposed scope of work in detail** | **Compliance [Yes/No/Higher]** |
| 1 | Virtualization Infrastructure | Installation and configuration of server virtualization infrastructure including presenting storage to VM and setting up of high available environment. |  |  |
| 2 | Desktop Infrastructure | Installation and configuring of desktop virtualization infrastructure including presenting storage to VM and setting up of High available environment. |  |  |
| 3 | Server OS and Database | Installation and configuring of Windows Server 2012 and enabling AD fail overInstallation and configuration of SQL Server 2014 and setting up database fail over |  |  |
| 4 | Design diagram | Design diagram and documentation  | Specify relevant page no / section |  |
| 5 | Scope of Work | Detail scope of work should be specify |  |  |
| 6 | Implementation plan | Should submit details implementation plane | Specify relevant page no / section |  |
| 7 | Technical support process | Should submit technical support process diagram | Specify relevant page no / section |  |
| 8 | Implementation Engineers CVs  | Should submit details technical engineers CVs | Specify relevant page no / section |  |
| 9 | On-the-Job Training | **On-the-Job Training by implementing engineer during the installation process*** Server and Desktop Virtualization Infrastructure
* Windows Server 2012 including setting up AD & SQL server
 | Specify relevant page no / section including details of the training |  |

Documentation

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Specifications** | **Additional Remarks** | **Compliance [Yes/No/Higher]** |
| 1 | Documentation | Signing off documentation; Detailed production environment configuration and setting up manual with diagram |  |  |

LOT 5 | Price Submission Form – Primary Site (Phase I)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Lot #** | **Item #** | **Item Description** | **Qty** | **Rate (MVR) incl 6% GST** | **Amount (MVR) incl 6% GST** |
| **5** | 9.0 | **Centralised Backup System and Rack System** |
| 9.1 | Server Rack System as per specification table 7 | **1Nos** |  |  |
| 9.2 | UPS Backup Systems as per specification table 8 | **1Nos** |  |  |
| **LOT 5 | NET TOTAL (Maldivian Rufiyaa)** |  |

Note: All the items should include the manufacture part numbers if applicable and also must include price breakup

Rack: Server Rack System

|  |  |
| --- | --- |
| Manufacture |  |
| Model Number |  |
| Item Description |  |
| Quantity | **01 Nos** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Features** | **Specifications** | **Proposed Technical Specification in detail with part number** | **Compliance [Yes/No/Higher]** |
| 9.1 | **Server Rack System** |  |  |
| 9.1.1 | Dimension | * 78” (H) x 42” (D) x 23” (W) (approximate)
 |  |  |
| 9.1.2 | Rack capacity | * 42U
 |  |  |
| 9.1.3 | Weight capacity | * Minimum:- 2,000 lbs
 |  |  |
| 9.1.4 | Features | * Full perforated mesh front & rear door
* Key lockable front door, rear door and side panels: Lockable, Quick Release Removable
* Multi Directional Cable Management within the rack frame
* Should be compatible multi-vendor equipment
* Documentation kit, key(s), leveling feet, mounting hardware, casters
 |  |  |
| 9.1.5 | Utility Shelf | * Fixed Utility Shelf (Heavy Duty
 |  |  |
| 9.1.6 | Cable Organizer | * Cable management D-Ring kit (incl. 5 x large and 5 x small)
 |  |  |
| 9.1.7 | Power distribution | **Two (2) 32A Single Phase Modular Power Distribution Unit*** Proposed PDU shall be 3.6m attached input cord, IEC 60309 63A, Splashproof (IEC 363P6S) for input connection
* Shall be capable and support at least minimum 8kW at 230V load capacity or better
* Shall be capable and support minimum three(3) or higher IEC 320 C-19 output connections with four 15A Output Circuit breakers.
* Shall be capable and support 200 ~ 240V AC Voltage Range
* Shall be capable and support overload protection per group

**Two (2) (7) C-13 PDU Extension Bars to connect other equipment of Client existing infrastructure (Total 14 x C-13)** **Note: Should provide support document** |  |  |
| 9.1.8 | Power cable and accessories | * Shall provide six IEE C19 - C20 250V 16Amp 2.5m cable
* Shall provide fifteen C13 - C14 250V 10Amp 1.4m cable
 |  |  |
| 9.1.9 | Warranty | * Server Rack System
* Service Type: Parts, Labor and On-Site
* Service Description: 24 x 7 x 1 Hour (1/2-Hour Call to Repair or replace)
* Service Location: On-site
* Service Duration: 5 Year
 |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **9.2** | **UPS System** |  |  |
| 9.2.1 | Features | * Proposed system should be modular design
* Shall be configurable for N+1 internal redundancy
* Proposed system should have hot-swappable redundant intelligence modules; Hot-swappable power modules and Hot-swappable batteries
* Proposed system should support plug-and-play external batteries
* Proposed system should be customizable UPS capabilities with management cards.
 |  |  |
| 9.2.2 | Output Power Capacity | * Proposed power backup system shall be at least minimum 5500 Watts / 7500 VA
 |  |  |
| 9.2.3 | Max Configurable Power | * Proposed power backup system shall be configurable maximum 10.2 kW / 15 kVA or better
 |  |  |
| 9.2.4 | Nominal Output Voltage | * Proposed system shall support 230V nominal output voltage and also shall be configurable for 220; 230 or 240 nominal output voltage
 |  |  |
| 9.2.5 | Output Voltage Distortion | * Proposed system should be capable and support less than 5% at full load
 |  |  |
| 9.2.6 | Output Frequency (sync to mains) | * Proposed system shall be within 47 - 63 Hz output frequency
 |  |  |
| 9.2.7 | Crest Factor | * Proposed system waveform, such as alternating current or sound shall be up to 5:1 ratio
 |  |  |
| 9.2.8 | Topology | * Proposed systems shall be double conversion online topology
 |  |  |
| 9.2.9 | Waveform Type | * Proposed system waveform type should be sine wave
 |  |  |
| 9.2.10 | Output Connections | * Proposed system shall provide at least one hard wire 3-wire; eight IEC 320 C13; ten IEC 320 C19
 |  |  |
| 9.2.11 | Bypass | * Proposed system shall be capable and support automatic and manual internal Bypass
 |  |  |
| 9.2.12 | Nominal Input Voltage | * Proposed system shall support 230V, 400V 3PH nominal input voltage
 |  |  |
| 9.2.13 | Input Frequency | * Proposed system shall be within 45 - 65 Hz (auto sensing)
 |  |  |
| 9.2.14 | Input Connections | * Proposed system shall be hard wire 3 wire (1PH+N+G) and hard wire 5-wire (3PH + N + G)
 |  |  |
| 9.2.15 | Input voltage range for main operations | * Proposed system shall be capable and support input voltage range (for main operation) 155V – 276V, 290V – 480V (3:1)
 |  |  |
| 9.2.16 | Other Input Voltages | * Proposed system shall support 220V, 240V, 380V, 415V
 |  |  |
| 9.2.17 | Input Total Harmonic Distortion | * Proposed system should be capable and support less than 7% for full load
 |  |  |
| 9.2.18 | Battery Type | * Proposed system should be Maintenance-free sealed Lead-Acid battery with suspended electrolyte
 |  |  |
| 9.2.19 | Installed battery modules | * Proposed system should provide two battery modules
 |  |  |
| 9.2.20 | Available Battery Module Slots for future expansion | * Proposed system should be capable and support at least additional 2 slots for future expansion
 |  |  |
| 9.2.21 | Runtime at half load | * Proposed system backup time should be minimum 16 min at half load
 |  |  |
| 9.2.22 | Replacement Battery | * Please specify installed battery modules
 |  |  |
| 9.2.23 | Extended Run Options | * Proposed system should be upgradable and should provide information in details including supported extended runtime options
 |  |  |
| 9.2.24 | Interface ports | * Proposed system should have DB-9 RS-232, RJ-45 10/100 Base-T, Smart-Slot
 |  |  |
| 9.2.25 | Installed Network Management Card | * Proposed system should provide UPS Network Management Card 2 w/Environmental Monitoring
 |  |  |
| 9.2.26 | Control panel | * Proposed system shall have multi-function LCD status and control console panel
 |  |  |
| 9.2.27 | Cable and accessories | * CD with software, Documentation CD, Installation guide, User Manual, Web/SNMP Management Card
 |  |  |
| 9.2.28 | Electric Cable & Connectors | * All cables from electric panel board, connectors & materials should be provided and connection has to be done.
 |  |  |
| 9.2.29 | Warranty | * Server Rack System
* Service Type: Parts, Labour and On-Site
* Service Description: 24 x 7 x 1 Hour (1/2-Hour Call to Repair or replace)
* Service Location: On-site
* Service Duration: 2 Year
 |  |  |
| 9.3 | Vendor Certified Engineers  | * Minimum two Vendor Certified Engineers with the bidder organization. (Certification copy, Letter from organization that staff is employed at that organization and ID card / Passport Copy should be submitted of the staff.)
 | Specify relevant page no / section |  |
| 9.4 | Past Experience | * Should specify the number of organizations/installation where proposed hardware is installed by the bidder and shall submit proof of supply of same brand hardware to other organizations within last 3 years. (Bidder should submit purchase orders and letter from user organization mentioning successful implementation.)
 | Specify relevant page no / section |  |
| 9.5 | Authorisation Letter | * Bidder shall provide proof of authorized distributor/ reseller and also should provide contact details of the Manufacture to verify the authentication the certificate/letter
 | Specify relevant page no / section |  |
| 9.6 | Installation | * Maximum 10 days from the date of supply.
 |  |  |

Installations and Configuring

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Specifications** | **Proposed scope of work in detail** | **Compliance [Yes/No/Higher]** |
| 1 | Server Rack | Installation of Server Rack System |  |  |
| 2 | Landscape diagram | Landscape diagram for proposed data centre infrastructure front and rear with labelling  | Specify relevant page no / section |  |
| Landscape diagram for proposed data centre power connectivity layout with labelling  |  |
| 3 | Scope of Work | Detail scope of work should be specify |  |  |
| 4 | Implementation plan | Should submit details implementation plane | Specify relevant page no / section |  |
| 5 | Technical support process | Should submit technical support process diagram | Specify relevant page no / section |  |
| 6 | Implementation Engineers CVs  | Should submit details technical engineers CVs | Specify relevant page no / section |  |
| 7 | UPS Backup System | Installation and configuration of 7.5kVA to 15kVA UPS system and setting redundant fail over |  |  |
| 8 | Landscape diagram | Proposed power backup solution line diagram | Specify relevant page no / section |  |
| Proposed power backup solution mechanical diagrams |  |
| 9 | On-the-Job Training | **On-the-Job Training by implementing engineer during the installation process*** Centralized UPS System
 | Specify relevant page no / section including details of the training |  |

Documentation

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Specifications** | **Additional Remarks** | **Compliance [Yes/No/Higher]** |
| 1 | Documentation | Signing off documentation; Detailed production environment configuration and setting up manual with diagram |  |  |

**Evaluation Criteria**

|  |  |
| --- | --- |
| **Criteria** | **Marks** |
| Price | 70% |
| Delivery | 10% |
| Technical | 10% |
| Experience | 10% |

**Price:**

1. Each bidder’s price is used to identify their relative position on a 0 – 70 price scale. This is done by allocating the lowest priced bid 70 points and calculating the remaining bidder’s score in relation to this scale.
2. Price percentage = 70 x (lowest price / bid price)

**Delivery:**

1. Each bidder’s delivery period is used to identify their relative position on a 0 – 10 scale. This is done by allocating the lowest amount of days to deliver 10 points and calculating the remaining bidder’s score in relation to this scale.
2. Delivery percentage = 10 x (least Duration/ bidders duration)

**Technical:**

1. **5 points** is given if the bidder provides proof of authorized distributor / authorized reseller.
2. **5 points** is given for the amount of trained staffs with the bidder organization. (Certification copy, Letter from organization that staff is employed at that organization and ID card / Passport Copy should be submitted of the staff.)
	1. All of the below information must be provided for a person to be considered as a trained staff.
		1. Certification copy of the relevant training.
		2. Letter from organization that staff is employed at that organization
		3. ID card OR Passport Copy of the staff
		4. Contact information of the staff and his / her supervisor in that organization.

|  |  |
| --- | --- |
| **Marks** | **Number of Training Staffs** |
| 5 | More than 2 train certified staff |
| 3 | 2 train certified staff |
| 1 | 1 train certified staff |
| 0 | No train certified staff |

**Experience:**

1. Proof of supply of same brand hardware to other organizations within last 3 years. (Bidder should submit reference letter from user organization mentioning successful implementation.)

|  |  |
| --- | --- |
| **Marks** | **Number of organizations where proposed hardware is installed by the bidder** |
| 10 | More than 3 reference letter  |
| 5 | Less than or equal to 3 reference letter  |
| 0 | No reference letter  |

**Installation:**

1. Maximum 10 days from the date of supply.

**Additional Information**

1. Detail scope of work must be submitted with tender documents.
2. **Every single item in the lot must meet the required minimum technical specifications, or the entire lot will be disqualified.**
3. Quotations should be valid for a minimum of 45 days from the date of submission.
4. **Each lot will be evaluated and awarded separately.**
5. No advance payment will be made.
6. If the winning bidder decides to withdraw from the bid, they will be suspended from awarding any customs project for 1 year.
7. **Bidder’s technical expertise and experience in similar projects will be evaluated separately for each lot based on the provided reference letters and certificate copies.**
8. All certificate copies and reference letters will be verified by contacting the relevant parties. Therefore please provide contact information with certificate copies and reference letters.
9. All documents must be printed on one side.
10. All documents submitted (including reference materials) must be stamped and signed by the bidding organization on the blank side of each paper. Also it must have the full name, and designation of the person signing on behalf of the organization. Any materials missing stamp, sign, full name or designation will not be considered as materials submitted with the tender documents.
11. All documents for each lot must be submitted in a separate punch file.
12. Documents must be put into punch file in the below order (Starting with (a) on the most top):
13. Quotations (Price & Delivery period must be mentioned clearly).
14. This document (Must be filled, and must provide part number in “Details” column of technical specification for all items containing a part number)
15. Trained staff details
16. Experience details
17. Supporting technical documents
18. Any other documents

**Bid Meeting:**

1. Bidders must meet minimum requirement specified in the details technical specification.
2. Bidders must maintain the above table format when submitting bid.
3. Bidders must provide the product specification clearly and should submit the Technical data sheet of the product proposed with all part numbers and other references.
4. Attendance for the pre-bid meeting will be compulsory in order to submit bid document.
5. **All Technical questions will be collected from all bidders on the pre-bid meeting. Answers will be given on 19th February 2015 via email.**
6. **Bid submission will be held on 22nd February 2015, 13:00 hours at Maldives Customs Service.**