**ANNEX 1-VENDOR COMPLIANCE MATRIX**

Vendor must indicate at what level its proposed solution will meet the requirements as delineated in the referenced sections of the RFP:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Information** | **Specific of product** | **Fully meet** | **Meet with Configuration** | **Meet with Customizations** | **Not meet** | **Comment** |
| **Web Server** |  |  |  |  |  |
| Form Factor | Rackmount 2U, 16 x 2.5 chassis |  |  |  |  |  |
| Processor (CPU) | 2 x Intel Xeon Gold 6430 32 C 2.1 GHz |  |  |  |  |  |
| Chipset | Intel C741 |  |  |  |  |  |
| Memory | 8 x 32GB (1x32GB) 2Rx8 DDR5-4800 R ECC |  |  |  |  |  |
|  | 32 DIMM slots |  |  |  |  |  |
|  | Expandable capacity 8TB |  |  |  |  |  |
| RAM memory protection mechanism | ECC Memory Scrubbing SDDC ADDDC (Adaptive Double DRAM Device Correction) Memory Mirroring |  |  |  |  |  |
| Storage | 5 x SSD SATA 6G 3.84TB Read-Int. 2.5' |  |  |  |  |  |
| Raid | Raid 0,1,5 |  |  |  |  |  |
| Optical drive | Capability for upgrading to an additional DVD-RW drive supermulti ultraslim SATA |  |  |  |  |  |
| Capability for upgrading to an additional Blu-ray Disc™ Triple Writer, (6x BD-RW, 8x DVD, 24x CD), ultraslim |  |  |  |  |  |
| Tape | Capability to add additional LTO7, RDX Drive on the mainboard |  |  |  |  |  |
| Connection port | 4 x 1G BaseT |  |  |  |  |  |
| Interface port | 5 x USB 3.0 (2x front, 2x rear, 1x internal) |  |  |  |  |  |
| Expansion capability up to 2 x VGA |  |  |  |  |  |
| Capability to upgrade with an additional 1 x serial RS-232-C |  |  |  |  |  |
| PCI Bus & Slots | 6 x PCI-Express 5.0, 1 x PCI-Express 4.0 Capability to upgrade to up to 8 PCIe slots |  |  |  |  |  |
| Standard | CB; CE; GS; RoHS; WEEE; VCCI Class A + JIS 61000-3-2 |  |  |  |  |  |
| Management feature | Integrated remote management controller (minimum 1GB memory); |  |  |  |  |  |
|  | Compatibility IPMI 2.0; DCMI 1.5; |  |  |  |  |  |
|  | Feature support : Advanced Video Redirection (AVR) và Virtual Media; |  |  |  |  |  |
|  | Support integration with user management: Microsoft Active Directory; OpenLDAP |  |  |  |  |  |
|  | There is a centralized management system that allows the administration of devices including servers, storage devices, and switches. Supports management for up to 1000 devices |  |  |  |  |  |
| Cooling system | 6 fans, redundant / hot-plug |  |  |  |  |  |
| BIOS Features and Security | UEFI compliant |  |  |  |  |  |
|  | Secure boot support |  |  |  |  |  |
|  | ROM based setup utility |  |  |  |  |  |
|  | GPT support for boot drives larger than 2.2 TB |  |  |  |  |  |
|  | Memory Redundancy support (Mirroring) |  |  |  |  |  |
|  | IPMI support |  |  |  |  |  |
|  | Recovery BIOS |  |  |  |  |  |
|  | BIOS settings save and restore |  |  |  |  |  |
|  | Local BIOS update from USB device |  |  |  |  |  |
|  | Online update tools for main Linux versions |  |  |  |  |  |
|  | IPv4/IPv6 remote PXE & iSCSI boot support |  |  |  |  |  |
|  | Cryptographically Signed BIOS Firmware Update |  |  |  |  |  |
|  | HTTP and HTTPS Boot |  |  |  |  |  |
|  | PCIe Bifurcation configurable |  |  |  |  |  |
|  | Agent-free device management |  |  |  |  |  |
|  | Alerts and logging |  |  |  |  |  |
|  | Supports PFR technology enabling workload protection, data encryption, virtual machine protection, and prevention of unauthorized access |  |  |  |  |  |
|  | Secure security and authentication |  |  |  |  |  |
| Supported operating systems | Windows Server 2019, 2022 Red Hat® Enterprise Linux 8 SUSE® Linux Enterprise Server 15 Vmware 7.0, 8.0  UBUNTU 22.04 |  |  |  |  |  |
| Power supply | 02 x 1600W hot-plug power supply ; |  |  |  |  |  |
| Accessories | Power cord and Rackmount kit |  |  |  |  |  |
| **Database Server** |  |  |  |  |  |
| Form Factor | Rackmount 2U, 16 x 2.5 chassis |  |  |  |  |  |
| Processor (CPU) | 2 x Intel Xeon Gold 6430 32 C 2.1 GHz |  |  |  |  |  |
| Chipset | Intel C741 |  |  |  |  |  |
| Memory | 8 x 32GB (1x32GB) 2Rx8 DDR5-4800 R ECC |  |  |  |  |  |
|  | 32 DIMM slots |  |  |  |  |  |
|  | Expandable capacity 8TB |  |  |  |  |  |
| RAM memory protection mechanism | ECC Memory Scrubbing SDDC ADDDC (Adaptive Double DRAM Device Correction) Memory Mirroring |  |  |  |  |  |
| Storage | 5 x SSD SATA 6G 3.84TB Read-Int. 2.5' |  |  |  |  |  |
| Raid | Raid 0,1,5 |  |  |  |  |  |
| Optical drive | Capability for upgrading to an additional DVD-RW drive supermulti ultraslim SATA |  |  |  |  |  |
| Capability for upgrading to an additional Blu-ray Disc™ Triple Writer, (6x BD-RW, 8x DVD, 24x CD), ultraslim |  |  |  |  |  |
| Tape | Capability to add additional LTO7, RDX Drive on the mainboard |  |  |  |  |  |
| Connection port | 4 x 1G BaseT |  |  |  |  |  |
|  | 5 x USB 3.0 (2x front, 2x rear, 1x internal) |  |  |  |  |  |
| Expansion capability up to 2 x VGA |  |  |  |  |  |
| Capability to upgrade with an additional 1 x serial RS-232-C |  |  |  |  |  |
| PCI Bus & Slots | 6 x PCI-Express 5.0, 1 x PCI-Express 4.0 Capability to upgrade to up to 8 PCIe slots |  |  |  |  |  |
| Standard | CB; CE; GS; RoHS; WEEE; VCCI Class A + JIS 61000-3-2 |  |  |  |  |  |
| Management feature | Integrated remote management controller (minimum 1GB memory); |  |  |  |  |  |
|  | Compatibility IPMI 2.0; DCMI 1.5; |  |  |  |  |  |
|  | Feature support : Advanced Video Redirection (AVR) và Virtual Media; |  |  |  |  |  |
|  | Support integration with user management: Microsoft Active Directory; OpenLDAP |  |  |  |  |  |
|  | There is a centralized management system that allows the administration of devices including servers, storage devices, and switches. Supports management for up to 1000 devices |  |  |  |  |  |
| Cooling system | 6 fans, redundant / hot-plug |  |  |  |  |  |
| BIOS Features and Security | UEFI compliant |  |  |  |  |  |
|  | Secure boot support |  |  |  |  |  |
|  | ROM based setup utility |  |  |  |  |  |
|  | GPT support for boot drives larger than 2.2 TB |  |  |  |  |  |
|  | Memory Redundancy support (Mirroring) |  |  |  |  |  |
|  | IPMI support |  |  |  |  |  |
|  | Recovery BIOS |  |  |  |  |  |
|  | BIOS settings save and restore |  |  |  |  |  |
|  | Local BIOS update from USB device |  |  |  |  |  |
|  | Online update tools for main Linux versions |  |  |  |  |  |
|  | IPv4/IPv6 remote PXE & iSCSI boot support |  |  |  |  |  |
|  | Cryptographically Signed BIOS Firmware Update |  |  |  |  |  |
|  | HTTP and HTTPS Boot |  |  |  |  |  |
|  | PCIe Bifurcation configurable |  |  |  |  |  |
|  | Agent-free device management |  |  |  |  |  |
|  | Alerts and logging |  |  |  |  |  |
|  | Supports PFR technology enabling workload protection, data encryption, virtual machine protection, and prevention of unauthorized access |  |  |  |  |  |
|  | Secure security and authentication |  |  |  |  |  |
| Supported operating systems | Windows Server 2019, 2022 Red Hat® Enterprise Linux 8 SUSE® Linux Enterprise Server 15 Vmware 7.0, 8.0  UBUNTU 22.04 |  |  |  |  |  |
| Power supply | 02 x 1600W hot-plug power supply |  |  |  |  |  |
| Accessories | Power cord and Rackmount kit |  |  |  |  |  |
| **Storage Server (NAS)** |  |  |  |  |  |
| Form Factor | Rackmount 2U, 10 x 3.5 chassis |  |  |  |  |  |
| Processor (CPU) | 1 x Intel Xeon Silver 4410Y 12C 2.0 GHz |  |  |  |  |  |
| Chipset | Intel C741 |  |  |  |  |  |
| Memory | 4x 32GB (1x32GB) 2Rx8 DDR5-4800 R ECC |  |  |  |  |  |
|  | 32 DIMM slots |  |  |  |  |  |
|  | Expandable capacity 8TB |  |  |  |  |  |
| RAM memory protection mechanism | ECC Memory Scrubbing SDDC ADDDC (Adaptive Double DRAM Device Correction) Memory Mirroring |  |  |  |  |  |
| Storage | 2 x SSD SATA 6G 240GB Read-Int. 3.5 |  |  |  |  |  |
|  | 4 x HD SATA 6G 4TB 7.2K 3.5' |  |  |  |  |  |
| Raid | Raid 0,1,5 |  |  |  |  |  |
| Optical drive | Capability for upgrading to an additional DVD-RW drive supermulti ultraslim SATA |  |  |  |  |  |
| Capability for upgrading to an additional Blu-ray Disc™ Triple Writer, (6x BD-RW, 8x DVD, 24x CD), ultraslim |  |  |  |  |  |
| LAN port | 4 x 1G BaseT |  |  |  |  |  |
| Interface port | 5 x USB 3.0 (2x front, 2x rear, 1x internal) |  |  |  |  |  |
| Expansion capability up to 2 x VGA |  |  |  |  |  |
| Capability to upgrade with an additional 1 x serial RS-232-C |  |  |  |  |  |
| PCI Bus & Slots | 6 x PCI-Express 5.0, 1 x PCI-Express 4.0 Capability to upgrade to up to 8 PCIe slots |  |  |  |  |  |
| Standard | CB; CE; GS; RoHS; WEEE; VCCI Class A + JIS 61000-3-2 |  |  |  |  |  |
| Management feature | Integrated remote management controller (minimum 1GB memory); |  |  |  |  |  |
|  | Compatibility IPMI 2.0; DCMI 1.5; |  |  |  |  |  |
|  | Feature support : Advanced Video Redirection (AVR) và Virtual Media; |  |  |  |  |  |
|  | Support integration with user management: Microsoft Active Directory; OpenLDAP |  |  |  |  |  |
|  | There is a centralized management system that allows the administration of devices including servers, storage devices, and switches. Supports management for up to 1000 devices |  |  |  |  |  |
| Cooling system | 6 fans, redundant / hot-plug |  |  |  |  |  |
| BIOS Features and Security | UEFI compliant |  |  |  |  |  |
|  | Secure boot support |  |  |  |  |  |
|  | ROM based setup utility |  |  |  |  |  |
|  | GPT support for boot drives larger than 2.2 TB |  |  |  |  |  |
|  | Memory Redundancy support (Mirroring) |  |  |  |  |  |
|  | IPMI support |  |  |  |  |  |
|  | Recovery BIOS |  |  |  |  |  |
|  | BIOS settings save and restore |  |  |  |  |  |
|  | Local BIOS update from USB device |  |  |  |  |  |
|  | Online update tools for main Linux versions |  |  |  |  |  |
|  | IPv4/IPv6 remote PXE & iSCSI boot support |  |  |  |  |  |
|  | Cryptographically Signed BIOS Firmware Update |  |  |  |  |  |
|  | HTTP and HTTPS Boot |  |  |  |  |  |
|  | PCIe Bifurcation configurable |  |  |  |  |  |
|  | Agent-free device management |  |  |  |  |  |
|  | Alerts and logging |  |  |  |  |  |
|  | Supports PFR technology enabling workload protection, data encryption, virtual machine protection, and prevention of unauthorized access |  |  |  |  |  |
|  | Secure security and authentication |  |  |  |  |  |
| Operating systems | Windows Server 2022 Standard |  |  |  |  |  |
| Power supply | 02 x 1600W hot-plug power supply ; |  |  |  |  |  |
| Accessories | Power cord and Rackmount kit |  |  |  |  |  |