



**INVITATION FOR BIDS**  
**OFFICE OF PROCUREMENT & CONTRACTS**

**1. INSTRUCTIONS FOR BIDDERS**

- a. Sealed bids will be received in the Office of Procurement & Contracts, Mississippi State University, for the purchase of the items listed herein.
- b. All bids must be received in the Office of Procurement & Contracts on or before the bid opening time and date listed herein. Delivery of bids must be during normal working hours, 8:00 a.m. to 5:00 p.m. CST, except on weekends and holidays when no delivery is possible.
- c. Bidders shall submit their bids in a sealed envelope.
  - i. Sealed bids should include the bid number on the face of the envelope as well as the bidders' name and address. Bids should be sent to: 245 Barr Avenue, 610 McArthur Hall, Mississippi State, MS 39762.
- d. All questions regarding this bid should be directed to the Office of Procurement & Contracts at 662-325-2550.

**2. TERMS AND CONDITIONS**

- a. All bids should be bid "FOB Destination"
- b. Bidders must comply with all rules, regulations, and statutes relating to purchasing in the State of Mississippi, in addition to the requirements on this form. General Bid Terms and Conditions can be found here:  
[https://www.procurement.msstate.edu/procurement/bids/Bid\\_General\\_Terms\\_May\\_2019\\_V2.pdf](https://www.procurement.msstate.edu/procurement/bids/Bid_General_Terms_May_2019_V2.pdf)
- c. Any contract resulting from this Invitation for Bid shall be in substantial compliance with Mississippi State University's Standard Contract Addendum:  
<https://www.procurement.msstate.edu/contracts/standardaddendum.pdf>

**ITS Bid Number: 24-35**

**Opening Date: April 24, 2024 at 2:00 p.m.**

**Description: Computer Cluster System**

Vendor Name: \_\_\_\_\_

Vendor Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Days the Offer is Firm: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Item	Quantity	Description	Unit Price	Total Price
1	1	Computer Cluster System		

All equipment is intended to be used as a single system and must work together accordingly. Therefore, partial bids will not be accepted. This system should integrate into the existing systems.

Qty 25 Dell PowerEdge C6400 Enclosures each configured as follows

Qty Product Name (OptionID) [SKU]

- 1 PowerEdge C6400-R Enclosure (GBOPG54) [210-ATWO]
- 1 PowerEdge C6400 Enclosure, No Hard Drives, No Backplane, V3 (GX98IC1) [321-BCOP]
- 1 PowerEdge C6400-R Shipping (G7R9JXK) [340-COFV]
- 1 PEC Static Rails (5099831) [770-BCFZ]
- 2 C19 to C20, PDU Style, 2FT Power Cord, North America (5102299) [450-AEIT]
- 1 Dual, Hot-plug, Non-Redundant Power Supply (2 + 0), 2400W (GX5A4JT) [450-AJES]
- 1 No Systems Documentation, No OpenManage DVD Kit (NODOCS) [631-AACK]
- 1 No Factory Installed Operating System (NOOS) [611-BBBH]
- 1 No Media Required (NOMED) [421-5736]
- 1 PowerEdge C6400-R Air cooling Shipping Material, Choose Label (G3IXABV) [818-BBIG]
- 1 PowerEdge C6525 Regulatory Label, Non-CE Marking (GMVLJ0H) [389-DVEM]
- 1 3 Year ProSupport with NBD On-site Service (PN3) [813-7219] [813-7228] [813-7241] [989-3439]
- 1 No Installation (NOINSTL) [900-9997]

Qty 100 Dell PowerEdge C6525 Blades each configured as follows

- Qty Product Name (OptionID) [SKU]
- 1 PowerEdge C6525 (GCR8LGE) [210-ATFB]
  - 1 Chassis with No Backplane (G2KWFTL) [379-BDSY]
  - 1 No Backplane (GI5M3WU) [379-BDSV]
  - 1 Trusted Platform Module 2.0 V3 (GGX1VDO) [461-AAIG]
  - 1 PowerEdge C6420/C6400 Shipping (MPSHIP) [340-BLEY]
  - 1 PowerEdge C6525, No Backplane Chassis (GCWM9V1) [321-BHQY]
  - 1 AMD EPYC 7543 2.8GHz, 32C/64T, 256M Cache (225W) DDR4-3200 (G0SERO8) [338-BZRQ]
  - 1 AMD EPYC 7543 2.8GHz, 32C/64T, 256M Cache (225W) DDR4-3200 (G8VXZEL) [338-BZRU] [379-BDCO]
  - 1 C6525 Heatsink for CPU2 (G16VCL3) [379-BDPT]
  - 1 Performance Optimized (PEOPT) [370-AAIP]
  - 1 3200MT/s RDIMMs (GR3CFNV) [370-AEVR]
  - 16 16GB RDIMM, 3200MT/s, Dual Rank (GQ3BS0I) [370-AEVQ]
  - 1 Single Chipset SATA 480GB M.2 RI Internal SSD (GS61GIV) [400-BBMZ]
  - 1 C61, Single Sled (No RAID, No Controller) (GDJKX0L) [780-BCNE]
  - 1 On-board SATA Controller (NCTRLR) [405-AACD]
  - 1 No Hard Drive (NOHD) [400-ABHL]
  - 1 Performance BIOS Setting (HPBIOS) [384-BBBL]
  - 1 HPC BIOS Setting (HPCBS) [384-BBBI]
  - 1 Dual, Hot-plug, Non-Redundant Power Supply 2400w (2+0) (GT2HGBQ) [379-BDVW]
  - 1 Riser Config 2, 1A+2A, two X16LP, 2CPU only (GCZV39R) [330-BBNY]
  - 1 PE C6525, Motherboard MLK (G4N1QFT) [329-BHEE]
  - 1 Nvidia ConnectX-6 Lx Dual Port 10/25GbE SFP28, No Crypto, OCP NIC 3.0 (G0V3GIZ) [540-BDJL]
  - 1 Mellanox ConnectX-6 Single Port HDR100 QSFP56 Infiniband Adapter, PCIe Low Profile (GN3S4IC) [540-BCMWW]
  - 1 M.2 X16 Chipset SATA Riser for NO HDD/2.5"/3.5"/2.5N", C6525 (GU9PZVG) [540-BCPG]
  - 1 No OS, No Utility Partition (NOOSNUP) [611-BBBG]
  - 1 No Media Required (NOMED) [421-5736]
  - 1 iDRAC9, Enterprise 15G (GVX2JI9) [385-BBOT]
  - 1 iDRAC Group Manager, Enabled (5100925) [379-BCQV]
  - 1 No Hard Copy Documentation E-Docs only (NODOC) [800-BBBK]
  - 1 PowerEdge C6420/C6400 Complex Tied Order Ship (5105372) [331-7591]
  - 1 PowerEdge No CE (GPK0H1J) [340-CQZE]
  - 1 3 Years ProSupport with Next Business Day On-site Service (GD9KOF4) [828-5557] [828-5566] [828-5579] [989-3439]
  - 1 ProSupport Add-on for HPC, 3 Years (Requires ProSupport or ProSupport Plus) (GD016Z9) [817-8554]
  - 1 No Installation (NOINSTL) [900-9997]

Qty 6 Dell PowerEdge R6525 Server each configured as follows

- Qty Product Name (OptionID) [SKU]
- 1 PowerEdge R6525 Server (G0EBY42) [210-ATCF]
  - 1 Chassis with up to 10x2.5" Drives (GC6DRSG) [379-BDTF]
  - 1 SAS/SATA/NVMe Capable Backplane (GKJX6D9) [379-BDSW]

- 1 Trusted Platform Module 2.0 V3 (GGX1VDO) [461-AAIG]
- 1 Chassis w/up to 10 x 2.5" HP HDD, incl max of 4 Universal Drives (2CPU, No XGMI, 180W or More) V2 (GRU8LSD) [321-BFNW]
- 1 AMD EPYC 7543 2.8GHz, 32C/64T, 256M Cache (225W) DDR4-3200 (G0SERO8) [338-BZRQ]
- 1 AMD EPYC 7543 2.8GHz, 32C/64T, 256M Cache (225W) DDR4-3200 (G8VXZEL) [338-BZRU] [379-BDCO]
- 1 Heatsink for 2 CPU configuration (CPU greater than or equal to 180W) 1 (GCWJ8LK) [412-AASH] [412-AASJ]
- 1 Performance Optimized (GH9QBEI) [370-AAIP]
- 1 3200MT/s RDIMMs (GR3CFNV) [370-AEVR]
- 8 16GB RDIMM, 3200MT/s, Dual Rank (GQ3BS0I) [370-AEVQ]
- 1 C1, No RAID for HDDs/SSDs (Mixed Drive Types Allowed) (G8510ID) [780-BCDI]
- 1 Front HBA355 Rear Load (for Chassis up to 10 drives) (GFC9AX8) [405-AAXY] [750-ACFQ]
- 2 480GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD (G3ZJM0K) [400-AXTV]
- 4 960GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD (GA16FX3) [400-AXSW]
- 1 Performance BIOS Setting (GJO594B) [384-BBBL]
- 1 UEFI BIOS Boot Mode with GPT Partition (GSFTG4Y) [800-BBDM]
- 1 No Energy Star (G9IONL3) [387-BBEY]
- 1 4x Very High Performance Fan for 8x2.5 + 75F3 or 10x 2.5 (2P) or 10x 2.5 + 2x 2.5 (1/2P) (GI1SFBH) [750-ADJH]
- 1 Dual, Hot-plug, Power Supply Fully Redundant (1+1), 1400W, Mixed Mode, NAF (GIW6SNG) [450-AIQZ]
- 2 Jumper Cord - C13/C14, 0.6M, 250V, 13A (North American, Guam, North Marianas, Philippines, Samoa) (GSK75JG) [492-BBDH]
- 1 Riser Config 2, 1 x 16 Gen4 LP PCIe slot (CPU1), 2 x 16 LP PCIe slot (CPU2) (GRVK2HX) [330-BBNR]
- 1 PowerEdge R6525 Motherboard, with 2 x 1Gb Onboard LOM (BCM5720) MLK V2 (GRYX11F) [384-BCWP]
- 1 Nvidia ConnectX-6 Lx Dual Port 10/25GbE SFP28, No Crypto, OCP NIC 3.0 (GOV3GIZ) [540-BDJL]
- 1 Mellanox ConnectX-6 Single Port HDR100 QSFP56 Infiniband Adapter, PCIe Low Profile (GN3S4IC) [540-BCMWW]
- 1 No Bezel for x8 and x10 chassis (GZ3N9YG) [350-BBBW] [350-BBXP]
- 1 PowerEdge R6525 Shipping Material for x4/10 Chassis (GMTX7Q9) [340-COXQ]
- 1 No Operating System (G78MU35) [611-BBBF]
- 1 iDRAC9, Enterprise 15G (GVX2JI9) [385-BBOT]
- 1 No Quick Sync (GI1FEZA) [350-BBXM]
- 1 iDRAC, Legacy Password (GDOHU23) [379-BCSG]
- 1 iDRAC Service Module (ISM), NOT Installed (GX95LG2) [379-BCQX]
- 1 ReadyRails Sliding Rails Without Cable Management Arm or Strain Relief Bar (GNR1WTG) [770-BECD]
- 1 No BOSS Card (GIEP1Z6) [403-BCID]
- 1 No Systems Documentation, No OpenManage DVD Kit (GVRYSM7) [631-AACK]
- 1 PowerEdge R6525 Shipping NBIS (GMYT931) [340-COGR]
- 1 PowerEdge R6525, No CE or CCC Marking (GJE2LM8) [389-DTIP]

- 1 3 Years ProSupport with Next Business Day Onsite Service (G3MBFHG) [828-3887] [828-3899] [828-3901] [989-3439]
- 1 ProSupport Add-on for HPC, 3 Years (Requires ProSupport or ProSupport Plus) (GD016Z9) [817-8554]
- 1 ProDeploy Plus Dell Server R Series 1U/2U Legacy (PDEPLUS) [804-6750] [804-6751] [812-4005]

Qty 3 Dell PowerSwitch N3200-ON each configured as follows

- Qty Product Name (OptionID) [SKU]
- 1 N3248TE-ON, 48x1G, 4x10G SFP+, 32GB, 1xAC PSU, PS/IO, OS10 (GZJ3C92) [210-AWZQ]
- 1 Power Supply, 550W AC, PSU to IO airflow, Hot Swap, N2224X, N2248X, N3224T, N3224F, N3248TE, N3248X (GS80CBT) [450-AJIL]
- 2 Power Cord, 250V, 12A, 2 Meters, C13/C14 (FPC250) [450-AASX]
- 1 ReadyRails, Full set, 2x outer and 2x inner rail, 2 or 4 post racks, for select Dell Networking 1U (GV514WI) [770-BDRL]
- 1 Dell EMC N3200 User guide (G2LKVZ8) [343-BBNX]
- 1 OS10 Enterprise, N3248TE-ON (G5EJ61Q) [634-BWZJ]
- 1 N3248P-TE 3 Years ProSupport with Next Business Day Onsite Service (G5RSXU8) [828-9522] [828-9523] [828-9526] [828-9540] [989-3439]
- 1 INSTALL DECLINED - Switch deployment performed by Customer or 3rd 1 party (CIMPSWI) [987-2549]
- 1 ProSupport Add-on for HPC, 3 Years (Requires ProSupport or ProSupport Plus) (GD016Z9) [817-8554]
- 1 3 Years ProSupport OS10 Enterprise Software Support-Maintenance (G4FXPGM) [848-8544]

Qty 3 Dell PowerSwitch S5248F-ON each configured as follows

- Qty Product Name (OptionID) [SKU]
- 1 Dell S5248F-ON Switch, 48x25GbE SFP28, 4x100GbE QSFP28, 2x100GbE QSFP-DD, PSU to IO, 2xPSU (GMWKLO7) [210-APFB]
- 1 S52XX User Manual (GC1XFY3) [343-BBLP]
- 1 OS10 Enterprise, S5248F-ON (G4S0GLF) [634-BRUN]
- 1 Power Cord, 250V, 12A, 2 Meters, C13/C14 (GIH6UVX) [450-AASX] [450-AASX]
- 1 3 Years ProSupport with Next Business Day Onsite Service (GJ2PCG4) [818-4856] [818-4869] [818-4870] [818-4888] [975-3461] [989-3439] [997-6306]
- 1 No Installation (G6N4ZK8) [900-9997]
- 1 ProSupport Add-on for HPC, 3 Years (Requires ProSupport or ProSupport Plus) (GD016Z9) [817-8554]
- 1 3 Years ProSupport OS10 Enterprise Software Support-Maintenance (G1OZGXM) [848-8532]

Qty 5 NVIDIA/Mellanox Quantum QM8790 - Switch each configured as follows

- 40 port HDR InfiniBand QSFP28
- 2 power supplies configured in back-to-front airflow
- all fans configured in back-to-front airflow
- 1 rack mount kit
- standard NVIDIA/Mellanox Enterprise Business 3 year support

Qty 2 APC NetShelter SX Enclosure each configured

42U x 750mm x 1200mm  
black roof, sides, front and rear doors

Qty 4 Geist 17.2 KW PDU with unit level monitoring, supporting connectors shall be of compute node type

Cables-

Qty Description

50 NVIDIA InfiniBand cable DAC HDR200 to 2xHDR100 2m (compute nodes)

3 NVIDIA InfiniBand cable DAC HDR200 to 2xHDR100 2m (service nodes)

14 NVIDIA InfiniBand cable DAC HDR200 3m (3rd leave to spine)

67 NVIDIA InfiniBand cable DAC Extended Warranty 3 years

28 NVIDIA InfiniBand cable AOC HDR200 5m (1-2 leave to spine)

28 NVIDIA InfiniBand cable AOC Extended Warranty 3 years

106 Dell Networking cable DAC 25GbE SFP28 Passive 2.5 Meter (GDI10L9) [470-AENJ] (100 compute + 6 service)

115 RJ45 CAT 6 patch cable - 7 ft (100 compute + 6 servers + 4 pdus + 5 switches)