



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND
RESEARCH THIRUVANANTHAPURAM [IISERTVM]**

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IISER/PUR/1837/PYS/IT/24-25

Date: 6.02.2025

CORRIGENDUM

No: IISER/PUR/1837/PYS/IT/24-25

Sub: Supply, Installation and commissioning of Rack-mountable servers and storage array: reg

Ref: Tender ID: 2025_IISRT_846680_1

1. The technical specification is attached to the above mentioned tender document at Annexure 1.

2. All other Terms and Conditions remain the same. Bidders may quote accordingly

Thanking You,

Yours Faithfully

Anurag Sadath
6/2/25
Assistant Registrar (P&S)

ANNEXURE - 1

Required Items

SINo	Item	Quantity
1	Rack mountable server as specified in Section A	2
2	Rack mountable server as specified in Section B	3
3	Rack mountable server as specified in Section C	2
4	Rack mountable server as specified in Section D	2
5	Rack mountable server as specified in Section E	1
6	Rack mountable server as specified in Section F	2
7	Storage as specified in Section G	1

Specification (minimum required)

Section A	
Chassis	2.5" Chassis with up to 16 Hard Drives (SAS/SATA), 2 CPU
Processor	2 x Intel® Xeon® Gold 5315Y 3.2G, 8C/16T, 11.2GT/s, 12M Cache, Turbo, HT (140W) DDR4-2933
Memory Module Slots	16 DDR4 DIMM slots, Maximum capacity 1TB
Memory	2 x 16GB RDIMM, 3200MT/s, Dual Rank
HDD	2 x 1.2TB Hard Drive ISE SAS 12Gbps 10k 512n 2.5in Hot-Plug
RAID Controller	RAID levels 0, 1, 5, 6, 10, 50, 60 with 8 GB DDR4 2666 MT/s cache memory and support for sixteen 12 Gbps SAS HDDs
Embedded NIC	2 x 10/100/1000 TX
Additional NIC	Dual Port 10GbE BASE-T Adapter
Power Supply	Dual, (1+1) Fault Tolerant Redundant, Hot-Plug Power Supply, 800W (100-240Vac)
Advanced System Configuration	UEFI BIOS Boot Mode with GPT Partition
OS	Rocky Linux
Fans	5 x Standard Fans
Rails	Sliding Rails With Cable Management Arm
System management	Embedded Systems Management
Warranty	84 months Next Business Day Onsite OEM Warranty
Section B	
Chassis	2.5" Chassis with up to 16 Hard Drives (SAS/SATA), 2 CPU
Processor	2 x Intel® Xeon® Gold 5318Y 2.1G, 24C/48T, 11.2GT/s, 36M Cache, Turbo, HT (165W) DDR4-2933
Memory Module Slots	16 DDR4 DIMM slots, Maximum capacity 1TB
Memory	2 x 16GB RDIMM, 3200MT/s, Dual Rank
HDD	2 x 1.2TB Hard Drive ISE SAS 12Gbps 10k 512n 2.5in Hot-Plug
RAID Controller	RAID levels 0, 1, 5, 6, 10, 50, 60 with 8 GB DDR4 2666 MT/s cache memory and support for sixteen 12 Gbps SAS HDDs
Embedded NIC	2 x 10/100/1000 TX
Additional NIC	Dual Port 10GbE BASE-T Adapter
Power Supply	Dual, (1+1) Fault Tolerant Redundant, Hot-Plug Power Supply, 800W (100-240Vac)
Advanced System Configuration	UEFI BIOS Boot Mode with GPT Partition
OS	Rocky Linux
Fans	5 x Standard Fans
Rails	Sliding Rails With Cable Management Arm
System management	Embedded Systems Management
Warranty	84 months Next Business Day Onsite OEM Warranty
Section C	
Chassis	2.5" Chassis with up to 16 Hard Drives (SAS/SATA), 2 CPU
Processor	2 x Intel® Xeon® Gold 5315Y 3.2G, 8C/16T, 11.2GT/s, 12M Cache, Turbo, HT (140W) DDR4-2933

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Memory Module Slots	16 DDR4 DIMM slots, Maximum capacity 1TB
Memory	2 x 16GB RDIMM, 3200MT/s, Dual Rank
HDD	2 x 1.2TB Hard Drive ISE SAS 12Gbps 10k 512n 2.5in Hot-Plug
RAID Controller	RAID levels 0, 1, 5, 6, 10, 50, 60 with 8 GB DDR4 2666 MT/s cache memory and support for sixteen 12 Gbps SAS HDDs
Embedded NIC	2 x 10/100/1000 TX
Additional NIC	Dual Port 10GbE BASE-T Adapter
Power Supply	Dual, (1+1) Fault Tolerant Redundant, Hot-Plug Power Supply, 800W (100-240Vac)
Advanced System Configuration	UEFI BIOS Boot Mode with GPT Partition
OS	Windows Server 2022 Standard, 16CORE, FI, No Med, No CAL, Multi Language
OS Media Kits	Windows Server 2022 Standard, 16CORE, DF Recovery Image, Multi Lang, (Downgrade not included)
Windows CAL	1 x 5-pack of Windows Server 2022/2019 User CALs (Standard or Datacenter)
Fans	5 x Standard Fans
Rails	Sliding Rails With Cable Management Arm
System management	Embedded Systems Management
Warranty	84 months Next Business Day Onsite OEM Warranty

Section D

Chassis	2.5" Chassis with up to 10 Hard Drives (SAS/SATA), 2CPU
Processor	2 x Intel® Xeon® Gold 5418Y 2G, 24C/48T, 16GT/s, 45M Cache, Turbo, HT (185W) DDR5-4400
Memory Module Slots	32 DDR5 DIMM slots, Maximum capacity 8TB
Memory	6 x 32GB RDIMM, 5600MT/s, Dual Rank
HDD	2 x 1.2TB Hard Drive ISE SAS 12Gbps 10k 512n 2.5in Hot-Plug
RAID Controller	RAID levels 0, 1, 5, 6, 10, 50, 60 with 8 GB DDR4 2666 MT/s cache memory and support for Ten 12 Gbps SAS HDDs
Embedded NIC	2 x 10/100/1000 TX
Additional NIC	Dual Port 10GbE BASE-T Adapter
HBA	2 x Dual Port 32Gb Fibre Channel HBA
Power Supply	Dual, Fully Redundant(1+1), Hot-Plug Power Supply, 1100W (100-240Vac)
Advanced System Configuration	UEFI BIOS Boot Mode with GPT Partition
OS	Rocky Linux
Fans	4 sets of High Performance Fans
Rails	Sliding Rails With Cable Management Arm
System management	Embedded Systems Management
Warranty	84 months Next Business Day Onsite OEM Warranty

Section E

Chassis	2.5" Chassis with up to 16 Hard Drives (SAS/SATA), 2 CPU
Processor	2 x Intel® Xeon® Gold 5315Y 3.2G, 8C/16T, 11.2GT/s, 12M Cache, Turbo, HT (140W) DDR4-2933
Memory Module Slots	16 DDR4 DIMM slots; Maximum capacity 1TB
Memory	2 x 16GB RDIMM, 3200MT/s, Dual Rank
HDD	14 x 1.2TB Hard Drive ISE SAS 12Gbps 10k 512n 2.5in Hot-Plug
RAID Controller	RAID levels 0, 1, 5, 6, 10, 50, 60 with 8 GB DDR4 2666 MT/s cache memory and support for Ten 12 Gbps SAS HDDs
Embedded NIC	2 x 10/100/1000 TX
Additional NIC	Dual Port 10GbE BASE-T Adapter
Power Supply	Dual, (1+1) Fault Tolerant Redundant, Hot-Plug Power Supply, 800W (100-240Vac)
Advanced System Configuration	UEFI BIOS Boot Mode with GPT Partition
OS	Rocky Linux
Fans	5 x Standard Fans
Rails	Sliding Rails With Cable Management Arm

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System management	Embedded Systems Management
Warranty	84 months Next Business Day Onsite OEM Warranty
Section F	
Chassis	2.5" Chassis with up to 16 Hard Drives (SAS/SATA), 2 CPU
Processor	2 x Intel® Xeon® Gold 5315Y 3.2G, 8C/16T, 11.2GT/s, 12M Cache, Turbo, HT (140W) DDR4-2933
Memory Module Slots	16 DDR4 DIMM slots, Maximum capacity 1TB
Memory	2 x 16GB RDIMM, 3200MT/s, Dual Rank
HDD	6 x 1.2TB Hard Drive ISE SAS 12Gbps 10k 512n 2.5in Hot-Plug
RAID Controller	RAID levels 0, 1, 5, 6, 10, 50, 60 with 8 GB DDR4 2666 MT/s cache memory and support for Ten 12 Gbps SAS HDDs
Embedded NIC	2 x 10/100/1000 TX
Additional NIC	Dual Port 10GbE BASE-T Adapter
Power Supply	Dual, (1+1) Fault Tolerant Redundant, Hot-Plug Power Supply, 800W (100-240Vac)
Advanced System Configuration	UEFI BIOS Boot Mode with GPT Partition
OS	Rocky Linux
Fans	5 x Standard Fans
Rails	Sliding Rails With Cable Management Arm
System management	Embedded Systems Management
Warranty	84 months Next Business Day Onsite OEM Warranty
Section G	
Configuration	Storage array
OS Support	Windows Server 2022, Rocky Linux
Controller Cards	32Gb FC 8 Port Dual Controller
Cache	16GB per controller
FC Optics	8x SFP+, FC32, 32GB for connecting servers as per Section D
FC cables	OM4 LC/LC Fibre Cable for connecting servers as per Section D
HDD	24 x 2.4TB 10K RPM SAS 12Gbps 512e 2.5in Hot-plug Hard Drive
RAID Support	RAID 1, 5, 6, & 10
Warranty	84 months Next Business Day Onsite OEM Warranty

Offered products sheet

SI No	Item	OEM	ModelNo/PartNo
1	Rack mountable server as specified in Section A		
2	Rack mountable server as specified in Section B		
3	Rack mountable server as specified in Section C		
4	Rack mountable server as specified in Section D		
5	Rack mountable server as specified in Section E		
6	Rack mountable server as specified in Section F		
7	Storage as specified in Section G		

Product Compliance Sheet

Section A		Offered specification (description)
Chassis	2.5" Chassis with up to 16 Hard Drives (SAS/SATA), 2 CPU	
Processor	2 x Intel® Xeon® Gold 5315Y 3.2G, 8C/16T, 11.2GT/s, 12M Cache, Turbo, HT (140W) DDR4-2933	
Memory Module Slots	16 DDR4 DIMM slots, Maximum capacity 1TB	
Memory	2 x 16GB RDIMM, 3200MT/s, Dual Rank	
HDD	2 x 1.2TB Hard Drive ISE SAS 12Gbps 10k 512n 2.5in Hot-Plug	
RAID Controller	RAID levels 0, 1, 5, 6, 10, 50, 60 with 8 GB DDR4 2666 MT/s cache memory and	

Amal Sachdev
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	support for sixteen 12 Gbps SAS HDDs	
Embedded NIC	2 x 10/100/1000 TX	
Additional NIC	Dual Port 10GbE BASE-T Adapter	
Power Supply	Dual, (1+1) Fault Tolerant Redundant, Hot-Plug Power Supply, 800W (100-240Vac)	
Advanced System Configuration	UEFI BIOS Boot Mode with GPT Partition	
OS	Rocky Linux	
Fans	5 x Standard Fans	
Rails	Sliding Rails With Cable Management Arm	
System management	Embedded Systems Management	
Warranty	84 months Next Business Day Onsite OEM Warranty	
Section B		
Chassis	2.5" Chassis with up to 16 Hard Drives (SAS/SATA), 2 CPU	
Processor	2 x Intel® Xeon® Gold 5318Y 2.1G, 24C/48T, 11.2GT/s, 36M Cache, Turbo, HT (165W) DDR4-2933	
Memory Module Slots	16 DDR4 DIMM slots, Maximum capacity 1TB	
Memory	2 x 16GB RDIMM, 3200MT/s, Dual Rank	
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Power Supply	Dual, (1+1) Fault Tolerant Redundant, Hot-Plug Power Supply, 800W (100-240Vac)	
Advanced System Configuration	UEFI BIOS Boot Mode with GPT Partition	
OS	Rocky Linux	
Fans	5 x Standard Fans	
Rails	Sliding Rails With Cable Management Arm	
System management	Embedded Systems Management	
Warranty	84 months Next Business Day Onsite OEM Warranty	
Section C		
Chassis	2.5" Chassis with up to 16 Hard Drives (SAS/SATA), 2 CPU	
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Memory Module Slots	16 DDR4 DIMM slots, Maximum capacity 1TB	
Memory	2 x 16GB RDIMM, 3200MT/s, Dual Rank	
HDD	2 x 1.2TB Hard Drive ISE SAS 12Gbps 10k 512n 2.5in Hot-Plug	
RAID Controller	RAID levels 0, 1, 5, 6, 10, 50, 60 with 8 GB DDR4 2666 MT/s cache memory and support for sixteen 12 Gbps SAS HDDs	
Embedded NIC	2 x 10/100/1000 TX	
Additional NIC	Dual Port 10GbE BASE-T Adapter	
Power Supply	Dual, (1+1) Fault Tolerant Redundant, Hot-Plug Power Supply, 800W (100-240Vac)	

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Advanced System Configuration	UEFI BIOS Boot Mode with GPT Partition	
OS	Windows Server 2022 Standard,16CORE,FI,No Med,No CAL, Multi Language	
OS Media Kits	Windows Server 2022 Standard,16CORE,DF Recovery Image, Multi Lang, (Downgrade not included)	
Windows CAL	1 x 5-pack of Windows Server 2022/2019 User CALs (Standard or Datacenter)	
Fans	5 x Standard Fans	
Rails	Sliding Rails With Cable Management Arm	
System management	Embedded Systems Management	
Warranty	84 months Next Business Day Onsite OEM Warranty	
Section D		
Chassis	2.5" Chassis with up to 10 Hard Drives (SAS/SATA), 2CPU	
Processor	2 x Intel® Xeon® Gold 5418Y 2G, 24C/48T, 16GT/s, 45M Cache, Turbo, HT (185W) DDR5-4400	
Memory Module Slots	32 DDR5 DIMM slots, Maximum capacity 8TB	
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HDD	2 x 1.2TB Hard Drive ISE SAS 12Gbps 10k 512n 2.5in Hot-Plug	
RAID Controller	RAID levels 0, 1, 5, 6, 10, 50, 60 with 8 GB DDR4 2666 MT/s cache memory and support for Ten 12 Gbps SAS HDDs	
Embedded NIC	2 x 10/100/1000 TX	
Additional NIC	Dual Port 10GbE BASE-T Adapter	
HBA	2 x Dual Port 32Gb Fibre Channel HBA	
Power Supply	Dual, Fully Redundant(1+1), Hot-Plug Power Supply,1100W (100-240Vac)	
Advanced System Configuration	UEFI BIOS Boot Mode with GPT Partition	
OS	Rocky Linux	
Fans	4 sets of High Performance Fans	
Rails	Sliding Rails With Cable Management Arm	
System management	Embedded Systems Management	
Warranty	84 months Next Business Day Onsite OEM Warranty	
Section E		
Chassis	2.5" Chassis with up to 16 Hard Drives (SAS/SATA), 2 CPU	
Processor	2 x Intel® Xeon® Gold 5315Y 3.2G, 8C/16T, 11.2GT/s, 12M Cache, Turbo, HT (140W) DDR4-2933	
Memory Module Slots	16 DDR4 DIMM slots, Maximum capacity 1TB	
Memory	2 x 16GB RDIMM, 3200MT/s, Dual Rank	
HDD	14 x 1.2TB Hard Drive ISE SAS 12Gbps 10k 512n 2.5in Hot-Plug	
RAID Controller	RAID levels 0, 1, 5, 6, 10, 50, 60 with 8 GB DDR4 2666 MT/s cache memory and support for Ten 12 Gbps SAS HDDs	
Embedded NIC	2 x 10/100/1000 TX	

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Additional NIC	Dual Port 10GbE BASE-T Adapter	
Power Supply	Dual, (1+1) Fault Tolerant Redundant, Hot-Plug Power Supply, 800W (100-240Vac)	
Advanced System Configuration	UEFI BIOS Boot Mode with GPT Partition	
OS	Rocky Linux	
Fans	5 x Standard Fans	
Rails	Sliding Rails With Cable Management Arm	
System management	Embedded Systems Management	
Warranty	84 months Next Business Day Onsite OEM Warranty	
Section F		
Chassis	2.5" Chassis with up to 16 Hard Drives (SAS/SATA), 2 CPU	
Processor	2 x Intel® Xeon® Gold 5315Y 3.2G, 8C/16T, 11.2GT/s, 12M Cache, Turbo, HT (140W) DDR4-2933	
Memory Module Slots	16 DDR4 DIMM slots, Maximum capacity 1TB	
Memory	2 x 16GB RDIMM, 3200MT/s, Dual Rank	
HDD	6 x 1.2TB Hard Drive ISE SAS 12Gbps 10k 512n 2.5in Hot-Plug	
RAID Controller	RAID levels 0, 1, 5, 6, 10, 50, 60 with 8 GB DDR4 2666 MT/s cache memory and support for Ten 12 Gbps SAS HDDs	
Embedded NIC	2 x 10/100/1000 TX	
Additional NIC	Dual Port 10GbE BASE-T Adapter	
Power Supply	Dual, (1+1) Fault Tolerant Redundant, Hot-Plug Power Supply, 800W (100-240Vac)	
Advanced System Configuration	UEFI BIOS Boot Mode with GPT Partition	
OS	Rocky Linux	
Fans	5 x Standard Fans	
Rails	Sliding Rails With Cable Management Arm	
System management	Embedded Systems Management	
Warranty	84 months Next Business Day Onsite OEM Warranty	
Section G		
Configuration	Storage array	
OS Support	Windows Server 2022, Rocky Linux	
Controller Cards	32Gb FC 8 Port Dual Controller	
Cache	16GB per controller	
FC Optics	8x SFP+ , FC32, 32GB for connecting servers as per Section D	
FC cables	OM4 LC/LC Fibre Cable for connecting servers as per Section D	
HDD	24 x 2.4TB 10K RPM SAS 12Gbps 512e 2.5in Hot-plug Hard Drive	
RAID Support	RAID 1, 5, 6, & 10	
Warranty	84 months Next Business Day Onsite OEM Warranty	
Server Feature		Compliance(Yes/No)
The server remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power		

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capping and historical reporting and should have support for multifactor authentication	
The server should have dedicated 1Gbps remote management port and should support agentless management	
Server should maintain repository for firmware and driver recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware	
The server should support monitoring and recording changes in the server hardware and system configuration	
The server should provide remote console sharing during pre-OS and OS runtime operation, and remote firmware update functionality	
Server OEM should be ranked one of the top 3 server suppliers in India as per the latest IDC report, at least in one of the last three quarters	
For firmware security, the server should support remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint	
The server form factor should be 2U or less	
The server should support 64 bit operating systems like Microsoft Windows Server 2022 and Rocky Linux	
The Server OEM should have a minimum of eight spare depots in India to support equipment failure and better problem resolution	
The servers should have 7 years comprehensive Next Business Day onsite OEM warranty.	
The Server OEM should have 24x7x365 support in India with direct TAC support	
Storage Feature	Compliance(Yes/No)
The storage array should support 64 bit operating systems like Microsoft Windows Server and Rocky Linux.	
The storage array should support dual, redundant, hot-pluggable, active-active array controllers for high performance and reliability	
All the necessary optics and cables as specified should be supplied by the OEM for connecting the storage array with servers described under Section D.	
The storage should be scalable to at least 250 drives or higher using additional enclosures	
Storage system shall support Enterprise SAS spinning drives, SSD and near line SAS / 7.2K RPM drives. Offered storage array shall also have support for FIPS 140-2 validating self-encrypted drives.	
The storage cache shall be backed up in case of power failure for indefinite time either using batteries or capacitors or any other equivalent technology	
Offered Storage shall also have optional support for Flash cache using SSD / Flash drives	
The storage shall be configured with Thin Provisioning capability	
The storage subsystem shall support storage based replication	
The storage shall have inbuilt performance management software. Configuration Dashboard shall show overall IOPS and MB/sec performance	
The storage should support Virtualization integration	
The storage should support SAS (10K 2.5"): 1.2TB, 2.4TB and SSD: 960GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB drives	
All requested storage features license should be supplied from day 1 for complete supported capacity	
The storage OEM must be listed in leader's/visionaries quadrant	

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of Gartner MQ report for Primary/General Purpose storage for latest year	
The Storage OEM should have a minimum of eight spare depots in India to support equipment failure and better problem resolution	
The Storage should have 7 years comprehensive Next Business Day onsite OEM warranty.	
The Storage OEM should have 24x7x365 support in India with direct TAC support	
Common Features	Compliance(Yes/No)
Driver packs for servers and storage should be available under OEM site	
All components and accessories should be 100% factory integrated	
Server/Storage warranty should be listed in OEM support site	
Online service support registration based on product serial number should be offered by OEM	
The bidder will configure the servers and storage, install the OS, configure services such as ADS as required by IISER Thiruvananthapuram.	
The items will delivered in 30 days from the date of issue of PO.	

Bidder Eligibility Criteria

1. The bidder must be a company registered in India under Indian Companies Act 1956 and 2013. Shall have been in operation for a period of at least 5 years as on bid submission date.
2. The bidder should submit Manufacturer Authorization Form (MAF) from the OEM for the quoted products/items along with the technical bid.
3. The bidder must have a valid ISO 9001:2015 and ISO 27001:2013 or later certificate issued in India.
4. The bidder should have been actively engaged in the field of IT infrastructure projects for the last five years.
5. The bidder must have sufficient support engineers in the relevant areas and should attend any reported issue within 4 hours.
6. Bidder should have an average annual turnover of at least 10 Cr INR during the last 3 financial years. (2021-2022,2022-2023,2023-2024).
7. The Bidding entity should not have been black listed for indulging in corrupt practices, breach of contract or restrictive practices by any Central/ State Government/PSU/Semi- Government bodies as on bid submission date.
8. The Bidder should have experience in successfully completing 3 similar projects each with at least two servers and one storage in IIT/ IISER/ NIT/ Central Government / Central Autonomous Body/Central Public Sector Undertaking/ State Government /State Public sector undertaking during last 5 years.
9. The Bidder should quote with same OEM / Brand whose past-experience were used for this bid.

Documents to be submitted by the bidder

1. Certificate of incorporation and Valid GST registration certificate
2. Manufacturer Authorization Form for Servers & Storage
3. ISO certificate copy
4. Company address proof where support engineers are stationed
5. Profit & Loss Account Statement of audited balance sheet and Statutory Auditor Certificate confirming turnover
6. Non blacklisted declaration duly signed by authorized signatory on company letter head
7. POs and Customer satisfaction certificate for 3 similar projects
8. Duly filled in Offered product sheet as given in this document
9. Duly filled in Product compliance sheet as given in this document
10. Item wise price table along with BoM

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