Technical Specifications for Infortrend EonStor GS 3000 High availability enterprise NAS/SAN storage and Disks

Sealed technical and commercial bids are invited for the purchase of one Infortrend EonStor GS3016RTC0F0F-0032, 3U Rack-mountable storage with the following specifications.

Storage Specifications:

Sr.No	Specifications	Quantity
1	**Storage System:** EonStor GS 3000 3U/16bay,cloud-integrated unified storage, supports NAS, SAN, object protocol and cloud gateway. **Dual redundant controller subsystem.** 4 x 12Gb/s SAS EXP. ports. 4 x 10GbE ports(RJ-45). 4 x host board slot(s). 4 x 8GB DDR4 memory. 2 x (PSU+FAN Module) 2 x (SuperCap.+Flash module) 16 x drive trays 1 x Rackmount kit **CPU:** 2x Intel Xeon 4 Core **Drive Connectivity** : 12Gb/s SAS **Supported Drives**: 2.5" SAS SSDs, 2.5" SATA SSDs, 2.5" 10,000 RPM SAS drives, 2.5" 15,000 RPM SAS drives, 3.5" 7,200 RPM Nearline SAS drives, 3.5" 7,200 RPM SATA drives **File Level Protocol** : CIFS / SMB, AFP, NFS, FTP, FXP, WebDAV **Block Level Protocol** : FC, FCoE, iSCSI, SAS **Object Protocol** : RESTful API **RAID Functionality**: Global, designated or enclosure hot-spare, **RAID levels supported** : RAID 0, 1, 3, 5, 6, 10, 30, 50, 60 **Online expansion by**: Adding new drives, Copying and replacing drives with drives of larger capacity, RAID migration, Configurable stripe size and write policy per system. **Intelligent drive handling**: In degraded mode: skips irreparable blocks to continue rebuild, In normal operation: data-block verification and repair. **Software features include**: SED (Self-encrypting drives), Thin-provisioning, Advanced Snapshot, Advanced Block-level local and remote replication, Advanced File-level local and remote replication (Rsync), SSD cache, Automated tiering (2/ 4 tiers) **Power supplies**: Redundant hot-swappable 530W x 2	1

	Management: Web-based EonOne management software **Network Configuration:** IPv6 support, Fixed or dynamic IP address, Dual Gigabit Ethernet with Jumbo Frame, Port trunking/ NIC teaming/ Link aggregation (IEEE 802.3ad), DHCP client, MPIO, MC/S support **Warranty and Technical Support:** Comprehensive on-site 24x7 OEM Warranty of 5 years with 4 hours response time (including labor, spares, and shipping cost) refer Terms and Conditions for details.	
2.	**MUX Board:** **9AHMUX3G-0010**: MUX board (3.5",2.5" SATA drives)	16
3.	**SATA SSD:** Micron 2.5" SATA 6Gb/s Max series Enterprise SSD, 1.92TB, DWPD=5, with bundle key. Model of the quoted disk should be a mentioned in compatibility matrix of above mention storage box. Firmware of all the disk must be same.	8
4.	**Licenses:** **SOFT-SSDGS01-0010**: EonStor GS/GSe SSD Cache License **SOFT-TIERGS-0010**: EonStor GS/GSe Automated Storage Tiering License(2 tiers)	1 1

Terms and Conditions:

1. Bidders are requested to quote only for the specifications mentioned above.

2. It is compulsory for the bidder to quote for all the items (Four items) mentioned in above specification. Failure to the same may invalidate the bid and result in disqualification.

3. Prices or commercial details should NOT be given anywhere in the technical proposal. Accidental/incidental mention of prices in technical bid may result in disqualification.

4. The final decision on the quantity of purchase of Item no. 3 (SATA SSD) will be made by the purchase committee based on its commercials submitted by the bidder. The actual quantity of Item 3 (SATA SSD) to be purchased could be lower than the indicated quantity

5. Bidders are requested to submit following documents along with in a technical proposal. Failure of the same may invalidate the bid and result in disqualification.

   A. Compliance of their quoted configuration. (Format attached)
   B. MAF (Manufacturer Authorization Form) stating the experience of the bidder in installing such devices.
   C. An undertaking (self-certificate) on company letterhead stating that, currently the bidder is not blacklisted by any department of IIT Bombay, or by any other IIT, or by any state or central government body or organization, or by an autonomous body governed by state or central government. (Format attached)
   D. An undertaking of acceptance of all terms & conditions on the company letterhead. (Format attached)

6.   The maximum delivery time will be four weeks from the date of the PO.

7.   All hardware should be compatible with all major distributions of Linux operating system.

8.   The successful bidder will do the installation and commissioning. The acceptance should be completed within seven days from the date of delivery in consultation with the technical staff of the purchaser/consultants available onsite.

9.   Comprehensive on-site 24x7 OEM Warranty and Technical Support of 5 years with 4 hours response time (including labor, spares, and shipping cost) should be on every item installed in the storage and required to meet the full operational requirement of the system. The warranty should be started from the date of acceptance.

10.   The minor and major defects shall be rectified not later than 48 and 72 hours, respectively.

11.   The successful bidder will be fully responsible for getting support from OEM in respect of every Hardware parts, Licenses, and technical support for the server mentioned in this tender.

12.   The Purchaser reserves the right to blacklist OEM / bidder if there is a delay involved in servicing or with the warranty beyond the mentioned period. Subsequently, the details will be published on our website.

13.   The registration of all the hardware parts, software, licenses must be registered in the purchaser's name with OEM. All the necessary/required licenses must be perpetual and provided for the maximum capacity of storage.

14.   No pre-bid meeting will be held for this requirement. For any technical queries, undersigned authority can be contacted through email only, and subsequently, corrigendum can be raised on satisfactory reasoning if required.

Format for Compliance Sheet

Sr. No.	Specifications	Bidder Compliance/Remark
1.	**Storage System:** EonStor GS 3000 3U/16bay, cloud-integrated unified storage, supports NAS, SAN, object protocol and cloud gateway. **Dual redundant controller subsystem.** 4 x 12Gb/s SAS EXP. ports. 4 x 10GbE ports(RJ-45). 4 x host board slot(s). 4 x 8GB DDR4 memory. 2 x (PSU+FAN Module) 2 x (SuperCap.+Flash module) 16 x drive trays 1 x Rackmount kit **Drive Connectivity** : 12Gb/s SAS **Supported Drives**: 2.5" SAS SSDs, 2.5" SATA SSDs, 2.5" 10,000 RPM SAS drives, 2.5" 15,000 RPM SAS drives, 3.5" 7,200 RPM Nearline SAS drives, 3.5" 7,200 RPM SATA drives **File Level Protocol** : CIFS / SMB, AFP, NFS, FTP, FXP, WebDAV **Block Level Protocol** : FC, FCoE, iSCSI, SAS **Object Protocol** : RESTful API **RAID Functionality**: Global, designated or enclosure hot-spare, **RAID levels supported** : RAID 0, 1, 3, 5, 6, 10, 30, 50, 60 **Online expansion by**: Adding new drives, Copying and replacing drives with drives of larger capacity, RAID migration, Configurable stripe size and write policy per system. **Intelligent drive handling**: In degraded mode: skips irreparable blocks to continue rebuild, In normal operation: data-block verification and repair. **Software features include**: SED (Self-encrypting drives), Thin-provisioning, Advanced Snapshot, Advanced Block-level local and remote replication, Advanced File-level local and remote replication (Rsync), SSD cache, Automated tiering (2/ 4 tiers) **Power supplies**: Redundant hot-swappable 530W x 2 **Management:** Web-based EonOne management software **Network Configuration:** IPv6 support, Fixed or dynamic IP address, Dual Gigabit Ethernet with Jumbo Frame, Port trunking/ NIC teaming/ Link aggregation (IEEE 802.3ad), DHCP client, MPIO, MC/S support	

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SELF DECLARATION OF BLACKLISTING
(To be given on company's letterhead)

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Date:

To,
Head Computer Centre,
IIT Bombay,
Powai Mumbai – 76.

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Sub: Declaration of Non-Blacklisting.
Tender Reference No.: _____

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Dear Sir,

I/We hereby declare that neither I/We nor our Start-up or a parent, subsidiary or associate Company under direct or indirect common parent is/are presently not placed on any Blacklist or Holiday list by any department of IIT Bombay, or by any other IIT, or by any state or central government body or organization, or by any PSU's , or by an autonomous body governed by state or central government for any kind of fraudulent practice(s)/activity(s)

It is understood that, If this declaration is found to be incorrect, then without prejudice to any other action that may be taken, my/ our security may be forfeited in full, and the tender, if any to the extent accepted, may be canceled.

Yours faithfully,

(Signature of the Bidder,
with Official Seal)

Date:

To,
Head Computer Centre,
IIT Bombay,
Powai Mumbai – 76.

Sub: Acceptance of Terms & Conditions of Tender.
Tender Reference No.: _____

NAME OF WORK: Purchase and installation of Infortrend EonStor GS 3000
High availability enterprise NAS/SAN storage and Disks at Computer Centre, IIT Bombay

Dear Sir,

1. I/We have downloaded/obtained the tender document(s) for the above mentioned 'Tender/Work.'

2. I/We hereby certify that I/We have read entire terms and conditions of the tender documents (including all documents like annexure), schedule(s), etc.,) and I/We shall abide hereby the terms/conditions/clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/organization, too has also been taken into consideration while submitting this acceptance letter.

4. I/We hereby unconditionally accept the tender conditions of the above mentioned tender document(s)/corrigendum(s) in totality/entirely.

5. In case any provisions of this tender are found violated, your department/ organization shall be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely and we shall not have any claim/ right against deptt in satisfaction of this condition.

Yours faithfully,

(Signature of the Bidder,
with Official Seal)