

Ref: NPTEL/01/2018/NAS STORAGE

Date: 12/01/2018

LIMITED TENDER No: NPTEL/01/2018/NAS STORAGE

Dear Sir/Madam

On behalf of NPTEL, Indian Institute of Technology Madras, tenders are invited for the
“**UNIFIED STORAGE -NAS Specification**” conforming to the specifications given in
Annexure-I.

Date of Floating Tender : 12/01/2018

Date of Closing Tender: 29/01/2018

Instructions to the Bidder

1. Preparation of bids: The tender should be submitted in 2 bid system ie. Technical Bid & Financial Bid. The technical bid should consist of all technical specifications/details and financial bid should indicate item-wise price for each item and it should contain all commercial terms and conditions including taxes, transportation, packing & forwarding, payment terms, pricing terms etc. The technical and financial bid should be put in separate sealed covers . Both the sealed covers should be put in a bigger cover. The limited tender for supply of “UNIFIED STORAGE – NAS SPECIFICATION – NPTEL” should be written on the left side of the outer bigger cover and sealed.
2. The Tender shall be sent to the below mentioned addresses either by post or by courier so as to reach the following address before **29/01/2018, 04.00 PM.**
Dr. Andrew Thangaraj, Project Co-ordinator, NPTEL, 2ND FLOOR, CENTRAL LIBRARY,IIT MADRAS, Chennai 600 036.
3. The tender will be opened by a committee duly constituted for this purpose. The technical bids will be opened first and it will be examined by a technical committee which will decide the suitability of the bid as per our specifications and requirements. In respect of opening of financial bid, those bidders who are technically qualified only will be called for.
4. **Prices:** The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges. The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However the percentage of tax & duties should be clearly indicated. The price should be quoted without custom duty, since IIT Madras is exempt from payment of excise duty and the custom duty will be paid at concessional rate against duty exemption certificate.
5. **Vendor** should be in business for a minimum period of 2 years . Proof should be attached and OEM Authorization Letter.

6. **Agency Commission** : No commission will be paid.
7. **Terms of Delivery**: The items should be supplied to NPTEL as per the purchase order. In case of import supply, the item should be delivered at the cost of the supplier to our institution. The items should be supplied within 1 week from the date of issue of purchase order.
8. **Technical Bid Opening**: The technical bid will be opened on 30th Jan'2018 @ 11.00 AM and the financial bid of those tenders who are technically qualified will be opened later.
9. NPTEL/IIT Madras reserves full right to accept/reject any tender at any stage without assigning any reasons.

Annexure – I

UNIFIED STORAGE – NAS Specification

ESSENTIAL FEATURES

- a) The offered Unified Storage system should have 2U form factor chassis and should be rack mountable.
- b) The 2U chassis should have at least 12 HDD bays and should be expandable by adding JBOD to the primary storage.
- c) The offered Enterprise class Unified Storage system should provide Block storage (SAN)&File storage (NAS) based flexible Storage solutions in the same chassis.
- d) The Storage system should support Unlimited User & Storage size license.
- e) The offered storage solution should be simple to use and easily configurable through Web User Interface.
- f) The Storage system should be preloaded with Linux operating system. However, the storage system should support a wide variety of client systems running on different OS.
- g) The Unified storage system should support multiple SATA and SAS RAID configuration options like RAID 0, 1, 10, 5, 50& 6.
- h) The offered storage solution should facilitate collaborative workflow by enabling to create Virtual volume for each project in the shared storage with protection of accidental over writing.
- i) The offered storage system should support various protocols like NFS, CIFS/SMB, FTP for providing file-level access to storage.
- j) The offered storage system should support iSCSI – Internet Protocol, SCSI RDMA Protocol (SRP) and FC Protocol for providing block-level access to storage.
- k) The storage system should support Gigabit Ethernet, 10G Ethernet, InfiniBand, FC Host Interface & Omni Path In the same box.
- l) The storage system should support Volume Replication, Web based GUI for management, Hardware monitoring & SNMP support.

m) The storage system should support for Undelete Option, Log, Share Access, User Information, Time Stamp and other share operations like File/Directory Creation, Deletion, Read, and Write.

Technical Specifications

Unified Flexible Storage Solution

Populated with 6 x 4TB SATA Enterprise 7.2K RPM HDDs

Technical Specification

System Hardware

1 x Intel® Xeon® Quad-core processor (4C/3.5GHz/10M)

32 GB memory ECC Reg Expandable Up to 1TB using LR DIMMS (8 DIMM Slots)

Linux based OS,

Unlimited User license, Unlimited Storage Size License

2U rack-mountable

Redundant Power supply

Host Interface: 4 x Gigabit Ethernet with load-balancing & 2 x 10G RJ45 Ports

Provision to support Infiniband & FC (In the same box)

System should support flash SSD cache features

RAID Subsystem

SAS controller 12 Gbps with support for Hardware RAID 0, 1, 10, 5 & 6

2GB battery backed cache

Supports up to 12 hot-swap SAS/SATA HDDs Bays

Both File & Block Storage functionality

Supports NFS, CIFS/SMB & FTP, Supports iSCSI target, Supports SRP target/ FC Target (Optional extra, using Infiniband/ FC HBA)

Management Web based GUI for management

Hardware monitoring

SNMP support

Other

File System with Journaling support

Support for ADS & NIS

Support for Volume Replication

FINANCIAL BID TO INCLUDE FOLLOWING DETAILS:

S.NO	Description	Model	Qty	GST%	Unit Price incl.GST	TotalPrice incl.GST
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