

रामन अनुसंधान संस्थान
RAMAN RESEARCH INSTITUTE
सी.वी. रामन अवेन्यू, सदाशिवनगर
C.V. Raman Avenue, Sadashivanagar
बेंगलूरु/ Bengaluru – 560080



पोलिक्स डेटासेंटर के लिए 80टीबी एन.ए.एस स्टोरेज की आपूर्ति,
स्थापना, परीक्षण और कमीशनिंग के लिए निविदा

**Tender for Supply, Installation, Testing & Commissioning of
80TB NAS Storage for POLIX Datacenter**

REF No: PR 240802

**निविदा प्रलेख
TENDER DOCUMENT
2024 – 2025**

24.10.2024



THE DUE DATE FOR SUBMISSION OF QUOTATION IS 11.11.2024

The Raman Research Institute invites sealed Tenders for **Supply, Installation, Testing & Commissioning of 80TB NAS Storage for POLIX Datacenter** directly from the manufacturers or their authorized agents, adhering to the specification, terms and conditions given below:

Technical Specification:

Supply, Installation, Testing & Commissioning of 80TB NAS Storage for POLIX Datacenter			
Sl. No.	PRODUCT SPECIFICATIONS	QTY	Compliance (Y/N)
1	- CPU: Intel® Xeon® 4-core processor or higher, burst up to 3.2 GHz - CPU Architecture: 64-bit x86 - Encryption Engine: Yes (AES-NI) - System Memory: 64 GB UDIMM DDR4 ECC (2 x 32GB) or higher - Maximum Memory: 128 GB (4 x 32 GB) or higher - Memory Slot: 4 x UDIMM DDR4 or higher - Flash Memory 5GB (Dual boot OS protection) - Drive Bay Front: 12 x 3.5-inch SATA 6Gb/s, 3Gb/s Rear: 6 x 2.5-inch SATA 6Gb/s, 3Gb/s - Drive Compatibility 3.5-inch bays: 3.5-inch SATA hard disk drives 2.5-inch SATA solid state drives 2.5-inch bays: 2.5-inch SATA solid state drives - Drives: 2.5"/3.5" SATA 6Gb/s HDD/SSD; 6 x 2.5" SATA 6Gb/s SSD ;		
2	Storage, Network, form factor and power supply		
	1TB NAS PCIe Gen3 x4 M.2 2280 NAS SSD; Warranty: (5 Years or 2000 TBW).	2 Nos	
	- SATA III 3.5" 7200 RPM 20TB Enterprise HDD; 5 Years Warranty - Hot-swappable: Yes - SSD Cache Acceleration Support: Yes - SR-IOV Yes 2.5 Gigabit Ethernet Port (2.5G/1G/100M) 4 (2.5G/1G/100M) 10 Gigabit Ethernet Port 2 x 10GbE SFP+ SmartNIC port Pre-installed with a 10GbE PCIe adapter 2 x NBASE-T (RJ45) 10 GbE network expansion card; Warranty 5 Years 2 x USB 3.2 Gen1; - Wake on LAN (WOL): Yes - Form Factor: Rackmount - Rail Kit:yes - Power Supply Unit 550W(x2), 100-240V	6 Nos	



	- Power Consumption: Operating Mode, Typical 117.92 W Tested with drives fully populated. - Fan System fan: 3 x 60mm, 12VDC System Warning Buzzer Warranty: 5 years, including all hardware, software, and support. The Charges for Five (5) years of back-to-back Comprehensive on-site warranty, software support and firmware updates, access to the support portal for all the products, with serial number of each component supplied, with Next Business Day response time, including hardware and software.		
	support: 24x7.		
3	ADDITIONAL SPECIFICATIONS		
	- Number of Concurrent Connections (CIFS/SMB/NFS) - with Max. Memory 10000 Software: - Supported RAID Type: RAID 1, RAID 5, RAID 6,10 - RAID Expansion (by replacing bigger Disks): yes - Storage Pool Expansion (by adding RAID Group): yes - RAID Hot Spare : Global, Local - Supported Client Operating Systems and Browsers Support - Apple Mac OS, Ubuntu, Debian, and Microsoft Windows with the recent release		
	- RAID Sync/Rebuild/Scrubbing: yes - End-to-End data integrity: yes - Silent error detection and self-healing: yes - Disk, Enclosure Locate: yes - Disk S.M.A.R.T. Scan: yes - Disk S.M.A.R.T. Data Migration: yes - Secure Erase: yes - SSD/SATA/SAS Life Estimation: Yes - Disk Standby: yes - Shared Folder Snapshot: yes - Minimum Snapshot Interval: 1 min - Snapshot Retention Policy - Self-serve Snapshot Recovery: Yes - Application Consisted Snapshot: Yes - Snapshot Full Clone: Yes - Snapshot Instant Clone: Yes - Snapshot Replica / Vault: Yes - SSD read-only Cache: Yes - SSD read & write log cache: Yes - SSD Cache RAID : 1, 5,6,10 (journal) - External Device Management: Yes		
	File Server - File sharing across Windows, Mac, and Linux - Microsoft networking (CIFS/SMB) - NFS version 3/4 services		



FTP Server • FTP, SFTP and TFTP protocols • FTP over SSL/TLS (explicit FTPS) • FXP support • Supported Protocols: SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, • iSCSI, Fibre Channel, HTTP, HTTPS, FTP, SNMP, LDAP, CalDAV • Resource Monitor:yes		
• SNMP v2and v3 :yes • Network recycle bin:yes • Recover files deleted using AFP, CIFS/SMB, and File Station:yes • Automatic cleanup and file type filter:yes • System Log & Notification Center:yes • Log recording: 3,000 event per second		
• Smart Fan:yes • Schedule on/off :yes		
• Network access protection with auto-blocking • SSH, Telnet, HTTP(S), FTP, CIFS/SMB, and AFP • Security Counselor:yes • Malware Remover:yes • AES 256-bit Folder Encryption validated by FIPS 140-2 CAVP: yes • 2-step verification:yes • Allow/Deny List :yes • Access Protection:yes • Service binding :yes • Firewall :yes • VMware vSphere VAAI for iSCSI :yes • VMware vSphere VAAI for NAS • HTTP/HTTPS Connections • TLS 1.0/1.1/1.2/1.3		
• Supports WebDAV Connection • Supports Virtual Hosts: 32 • Management Mode • Maximum number of version control: 64 • Network Drive Mount • NAS to NAS backup • 2-way and Active Sync: yes • External drive backup • Maximum number of backup job 400 or higher • Search filters: yes • Antivirus licensed • Remote Access: PPTP, L2TP/IPSec, OpenVPN, • Supported maximum clients: 50 or higher • LDAP Server:yes • Log management :yes		



GENERIC:

1. The Institute is eligible to issue Central Excise Duty Exemption Certificate or Customs Duty Concession Certificate. The Institute is not eligible to issue State Goods and Service Tax/ Central Goods and Service Tax Concession Certificate.
2. The Institute reserves the right to modify the technical specification or the required quantity at any time but within one week before the due date.
3. The Institute reserves the right to reject any or all of the bids received without assigning any reason. It also reserves the right to accept an offer other than the lowest.
4. The Institute reserves the right to postpone/extend the due date for submission of the bid without assigning any reason.
5. The Institute reserves the right to call potential suppliers for technical discussions and product demonstrations.
6. Any Technical clarification required towards submission of offer may please be mailed to purchase@rri.res.in

ELIGIBILITY CRITERIA:

1. **Experience Criteria:** The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for **3 years** before the bid opening date. A proof should be attached.

Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.

2. **Manufacturer Authorization Form (MAF):** Bidder should be Original Equipment Manufacturer (OEM). In case of an authorized agent/partner/distributor service provider having direct purchase and support agreement with OEM and/or submitting the bid on behalf of OEM, should submit a valid MAF/Certificate from OEM/ or Original Service provider to that effect.
3. Details with contact information and telephone numbers for service support of the products should be provided. Escalation matrix with contact information and telephone numbers should also be provided.
4. The bidder must NOT be blacklisted by Central Government, State Government or any Organization in India. A certificate or undertaking to this effect must be submitted.
5. The bidder should NOT be under liquidation, court receivership or similar proceedings, should NOT be bankrupt. Bidder to upload undertaking to this effect with bid.
6. I) As per the Government of India, Ministry of Commerce and Industry and Department for Promotion of Industry and Internal Trade (Public Procurement Section) Order No. P-45021/2/2017-PP (BE-II) dated 04 June 2020



- a) The Bidder shall produce a certificate whether he/she belong to “Class – I’ and ‘Class – II supplier’ and ‘Non – Local suppliers’ with percentage of local content.
- b) Class – I’ and ‘Class – II supplier’ and Non – Local suppliers as classified under above mentioned Order are eligible to submit the offer. While finalizing the quotation, the instructions given in the above order shall prevail.

II) As per the Government of India, Ministry of Finance and Department of Expenditure, Public Procurement Division – Office Memorandum No. F.No.6/18/2019-PPD dated 23.07.2020, the Institute reserves the right by order in writing, impose restrictions, including prior registration and/or screening, on procurement from bidders from a country or countries, or a class of countries, on grounds of Defense of India, or matters directly or indirectly related thereto including national security; no procurement shall be made in violation of such restrictions.

EVALUATION OF BIDS:

1. The bids should be complete in all respects and the details specified in this request should be adhered to and **submitted on or before bid end date i.e., 11.11.2024.**
2. Bids should be valid for **180** days from bid end date or any extension to it.
3. The quoted price should include P&F and Freight Charges, Insurance, Loading & Unloading Charges etc.
4. The bids conforming to the eligibility criteria only will be considered for further evaluation.
5. The bids will be shortlisted on the basis of technical parameters, features, standards compliance of all materials and equipment used, etc.
6. For Technical evaluation, bidders have to ensure the availability of appropriate expert, along with every type of documentation from their organization for interacting with the Institute
7. The Financial Bids will be opened only of those technical bids found suitable and approved by our Technical Evaluation Committee.



Terms & Conditions:

1. The bid shall be divided into two parts:
 - I) The first part should be “Technical” Bid containing only detailed specifications for tendered: **Supply, Installation, Testing & Commissioning 80TB NAS Storage for POLIX Datacenter and EMD for Rs. 15,000/-**. The details include:
 - a) Detailed literature including Data Sheets of quoted products.
 - b) Supporting Documents eligibility criteria such as MSME, OEM authorization letter, Experience certificate. etc
 - c) **The first part (Technical Bid) shall not contain any financial aspects of the offer.** It shall contain only a cross reference to the second part (Financial Bid).
 - II) The Second part (Financial Bid) shall contain detailed financial outlay with List of deliverables / Bill of materials / Bill of Quantities and services, unit price of items as in the technical bid (i.e., First Part).
2. The Bidder should submit **EMD of Rs. 15,000/- (Rupees Fifteen Thousand only)** along with technical bid. Payment should be by way of DD / Banker’s cheque only, drawn in favour of **“The Administrative Officer, Raman Research Institute, Bengaluru”**. No other form of payment will be accepted. The Tenders without the EMD will be rejected.
3. The MSME Units/Enterprises claiming exemption of EMD should submit MSME UDYOG AADHAAR MEMORANDUM or registration certificate issued by District Industries Centre (DIC) / Khadi & Industries board (KVIB) / Coir board / National Small Industries Corporation (NSIC) / Directorate of Handicrafts and handlooms or any other body specified by Ministry of MSME. The memorandum / certificate submitted should be for the scheduled items of this bid and shall be valid as on bid end date /extended due date of the bid. However, MSME Unit/Enterprises must submit a duly signed **Bid Security Declaration** in lieu of EMD as per the Form of Bid-Security Declaration.
4. The successful Bidder’s EMD will be discharged upon the Bidder furnishing the Performance Security (Bank Guarantee), without any interest.
5. The refund of EMD for unsuccessful bidders will be made through Cheque or Electronic mode within a month after finalization of bid.
6. **The EMD may be forfeited:**
 - a) If a Bidder withdraws or amends or modifies or impairs or derogates their bid during the period of bid validity specified by the Bidder on the Bid form;

OR

 - b) In case of a successful Bidder, if the Bidder fails to furnish order acceptance or fails to sign the contract and/or fails to furnish Performance Bank Guarantee within 15 days from the date of issue of Contract/Order.
7. The successful bidder immediately after the award of the Contract shall prepare a detailed plan of Supply, Installation. Testing & Commissioning as proposed to be followed by placement of equipment, etc in consultation/ co-ordination with the end user.



8. **Performance Bank Guarantee (PBG):** On award of the work, the bidder shall provide **3%** (Three percent) of the order value in the form of a Bank Guarantee towards satisfactory performance within 15 days of receipt of order. The PBG should be valid throughout the warranty period of **Five Year plus six months** as claim period, from the date of installation, testing and commissioning. Difference in the duration of PBG i.e., from the date of PBG issuance after the receipt of contract and actual date of installation shall get extended accordingly. The said PBG shall be returned/refunded to the bidder after satisfactory completion of supply, installation, testing and commissioning of goods as well as warranty period and claim period as per the terms of the Contract. In case of failure to render the contracted service, either at the time of execution or during the warranty period or non-compliance of due performance of contract, the PBG will be forfeited.
9. The Bidder shall not assign the Contract in whole or part without obtaining the prior written consent of buyer. The Bidder shall not sub-contract the Contract in whole or part to any entity without obtaining the prior written consent of buyer and the Bidder shall, notwithstanding the consent and assignment/sub-contract, remain jointly and severally liable and responsible to buyer together with the assignee/ sub-contractor, for and in respect of the due performance of the Contract and the Bidder's obligations there under.
10. Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Bidder, if:
 - a) The Bidder fails to comply with any material term of the Contract.
 - b) The Bidder inform Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise become apparent.
 - c) The Bidder fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
 - d) The Bidder becomes bankrupt or goes into liquidation.
 - e) The Bidder makes a general assignment for the benefit of creditors.
 - f) A receiver is appointed for any substantial property owned by the Bidder.
 - g) The Bidder has misrepresented to Buyer, acting on which misrepresentation buyer has placed the contract on the Bidder.
11. Delivery of goods should be made at our stores located on campus near Mekhri Circle, Bengaluru – 560 080, at suppliers cost and risk.
12. **Factory Test Certificates:**
Material test certificate should be sent along with the supply. The material will be checked by buyer's lab & the results of the lab will be the sole criteria for acceptance of the Item.
13. **Warranty: Five years Comprehensive on-site Warranty.** Including all hardware, software, and support. The Charges for Five (5) years of back-to-back Comprehensive on-site warranty, software support and firmware updates, access to the support portal for all the products, with serial number of each component supplied, with Next Business Day response time, including hardware and software.



14. Defects, if any, during the warranty period are to be rectified free of charge by arranging free replacement wherever necessary. The Expenditure involved like Freight Charges, Custom Duty, Insurance Charges, Clearance Charges etc., is to be borne by successful bidder.
15. In case the Equipment/System remains non-operational or performs below the desired level for more than One week after intimation of the fault in the Equipment/System then the Warranty period shall be extended for such downtime period for which the Equipment/System remained non-operational or performed below the desired level, without prejudice to any other terms and conditions of the Contract.
16. **Payment:** 80% Payment after delivery and acceptance of the goods/ material/ ordered item and balance 20% after successful installation, testing and commissioning and submission of Performance Bank Guarantee for 3% as per **point no. 8.**
17. **LD Clause:** Time is the essence of this supply, delivery period mentioned in the Contract should be strictly adhered to, otherwise LD clause will be applicable/enforced. All deliveries should be completed within the stipulated delivery time of the Contract due date. While the Institute reserves the right not to accept delivery in part or full, beyond the due date of delivery, liquidated damages at 0.5% per every week of delay will be levied. Exceptions: Force Majeure
18. **Post-Sales Support:**
The Equipment must be supported by service centre post sales manned by the principal Bidder's technical support Engineers. The post-sales support through this centre must be available 24 hours in a day, 7 days in a week and 365 days in a year, also it should be possible to contact the Principal bidder's support centre on a toll free number/ web mail. If Service Centre doesn't exist at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Bidder/ OEM should provide the details of on-site support to be extended during the warranty period.
19. Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.
20. All disputes, arbitration, if any, are subject to jurisdiction of courts in Bengaluru, Karnataka, India only.



FORM OF BID-SECURITY DECLARATION

[The Bidder should fill in this Form on their Letter Head in accordance with the instructions indicated]

To
The Administrative Officer,
Raman Research Institute,
C.V. Raman Avenue, Sadashivanagar,
Bengaluru – 560 080.

Ref: Tender Ref. No. **PR 240802 dated: 24.10.2024**

We, the undersigned declare that:

We know that the bid should be supported by a Bid Security Declaration in accordance with your conditions.

We hereby declare that the prices offered by us against RRI bid Document No. **PR 240802 dated 24.10.2024** for **Supply, Installation, Testing & Commissioning of 80TB NAS Storage for POLIX Datacenter** will be firm for a period of 180 days or the date when the tenders are finalized, whichever is earlier.

We accept to automatically be suspended from being eligible for bidding in any contract in RRI for a period of 3 years from the date of opening of Bid, if we are in breach of our obligation(s) under the bid conditions, because we:

After having been notified of the acceptance of our bid by the Contracting Authority within the period of bid validity:

- 1) We failed or refused to furnish a Performance Security in accordance with the Condition of the Bid Document No. **PR 240802 dated 24.10.2024**

OR

- 2) We failed or refused to sign the contract.

We know that this Bid – Security Declaration will expire, if contract is not awarded to us, upon:

- 1) Your notification to us of the name of the successful bidder or
- 2) Twenty – eight days after the expiration of our Bid validity or any extension to it

Dated this ___day of_____

For and on behalf of M/s. _____

Address:

Signature Name

In the capacity of

seal/ stamp

