वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
Council of Scientific & Industrial Research
राष्ट्रीय वांतरिक्ष प्रयोगशालाएं
National Aerospace Laboratories

CSIR - NAL Estd. 1959
ISO 9001 : 2015
Certified Organization

INVITATION FOR TENDERS

Tender No. NAL/PUR/STTD/384/21-Y   **Dated: 03/01/2022**

CSIR - National Aerospace Laboratories (NAL), Bengaluru, Republic of India, is one of the premier research laboratories under aegis of Council of Scientific and Industrial Research (CSIR), an autonomous body under the Department of Scientific and Industrial Research, Government of India, New Delhi. CSIR-NAL is a Science and Knowledge based Research, Development and Consulting Organisation. It is internationally known for its excellence in Scientific Research in Aerospace Engineering.

The Director, CSIR-NAL invites online quotation for procurement of the following item(s) for day to day research work.

Sl. No.	Description of Item(s)	Unit	Quantity
1	Hardware and Software for Storage and Backup Server with Backup for Server / Desktop / Laptop / Workstation	Set	01
(Please refer annexure for detailed specification)			

Single / Double Bid	Single	Tender Type	Open
Bid Security (EMD) (in INR)	Bid Security Declaration should be enclosed with quotation	Bid submission end date	24-Jan-2022 10.00 Hrs
Performance Security	**3% of the purchase order value**	Bid opening date	25-Jan-2022 11.00 Hrs

01. Tender Documents may be downloaded from Central Public Procurement Portal https://www.etenders.gov.in. Aspiring Bidders' who have not registered in e-procurement can register free of cost before participating through the website https://www.etenders.gov.in. Bidders are advised to go through instructions provided at 'Instructions for Online Bid Submission'.

02. Tenderers can access tender documents on the website (for searching in the NIC site https://www.etenders.gov.in, kindly go to Tender Search option, select tender type and select 'Council of Scientific and Industrial Research', in organisation tab and select NAL-Bengaluru-CSIR in department type. Thereafter, click on "Search" button to view all CSIR-NAL, Bengaluru tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website https://www/etenders.gov.in as per the schedule given in the next page.

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P B No 1779, HAL Airport Road, Kodihalli, Bengaluru - 560 017, INDIA
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http//www.nal.res.in   purchasek@nal.res.in

03. Either the Indian Agent on behalf of the Foreign principal or the Foreign principal can bid directly in a tender but *not* both. However, the offer of the Indian Agent should also accompany the authorisation letter from their principal. To maintain sanctity of tendering system, one Indian Agent *cannot* represent two different Foreign principals in one tender.

04. Unsolicited / conditional / unsigned Quotations/Quotations received after the due date and time shall be summarily rejected. The Bidder shall comply the terms and conditions of the tender, failing which, the offer shall be liable for rejection.

05. The bids failing to comply with the following clauses will be summarily rejected.

   a. The Bidders proposing to supply finished products directly/indirectly from vendors' of countries sharing the land border with India should submit copy of registration done with the Ministry of Home Affairs and Ministry of External Affairs.

   b. If the products supplied are not from vendors of countries sharing land border with India, the Bidders' have to enclose a declaration to that effect.

06. Bidders are requested to refer to the instructions regarding Procurement Policies for "Make in India", issued by Ministry of Commerce and Industry, Department of Industrial Policy and Promotion dated. 28-May-2018, and 4-Jun-2020 and guidelines as and when issued.

07. The prospective bidders are requested to refer to the Standard Terms and Conditions available on NAL Internet (www.nal.res.in) under the icon Tender-Purchase before formulating and submitting their bids

08. The Director, CSIR- National Aerospace Laboratories, Bengaluru reserves the right to accept any or all the tenders either in part or in full or to split the order without assigning any reasons there for.

Thanking you,

Yours faithfully

Controller of Stores & Purchase
For and on behalf of CSIR

Backup Storage Server Specification

Scope: Supply, Install and configure Backup Storage Server for the server and user workstation with the following items: -

Storage requirement consists of

1. Storage and Backup Server
2. Backup Software License for Server and Desktop / Laptop / Workstation
3. Installation and other Service

1. Storage and Backup Server – 1 No(s)

1.	Processor	Single Intel Xeon 3rd gen Scalable processor with 8 or more cores, Clock Speed 2.8 GHz or better, 12MB cache or better, Memory Type DDR4-2666 or better
2.	Motherboard	Intel® C620 Series or better Chipset on OEM Motherboard with 16 RDIMM slots or better
3.	Memory(RAM)	64GB DDR4 or better Registered (RDIMM) memory operating at 2666 MHz or more
4.	Hard Drive	2*960 GB SSD 2.5 inch hot-plug drive for O/S and application 6 * 12TB 7.2K RPM SATA 6Gbps 512e 3.5in Hot-plug Hard Drive for storage
5.	Drive Bays	At least **Eight Hot Plug (3.5")** SATA/SAS/SSD Hard Drive Bays and unused bays covered with HDD Blanks
6.	DVD Drive	8x DVD+RW drive **(Internal/External)**
7.	RAID Controller	PCIe 4.0 based SAS Raid Controller with RAID 0/1/1+0/5/5+0 with a minimum of **8GB battery**-backed write cache
8.	Networking	At least two 1G/10G Ethernet ports and on-system management chipset with dedicated Ethernet port for remote management
9.	Power Supply	Dual Hot-plug Redundant power supplies (1+1) with 10A 250V Indian Standard Power chords.
10.	Fans	The system with Redundant Fans.
11.	PCI Slots	2 or more PCI-Express 3.0 slots
12.	USB Ports	2 or more USB 3.0 ports, one VGA port.
13.	Chassis	2U/1U Rack Mountable with sliding rail kit for tool-less mounting
14.	Supported OS	Microsoft Windows Server 2012/2016 or above Red Hat Enterprise Linux (RHEL)7.0 or above
15.	Warranty	Standard 3 year comprehensive onsite warranty including parts and labour. Hard disk replacement without surrendering the faulty hard disk.
16.	Service	Installation and configuration of Server and Peripheral Devices as applicable. NBD Onsite Service: 3 Yr. 24x7 Technical Support & Assistance: 3Yr
17.	Sever Security	Trusted Platform Module 2.0 V3 Should have a cyber-resilient architecture for a hardened server design for protection, detection & recovery from cyber-attacks Should protect

	against firmware which executes before the OS boots
	Should provide effective protection, reliable detection & rapid recovery using: - Silicon-based Hardware Root of Trust - Signed firmware updates - Secure default passwords - Configuration and firmware drift detection - Persistent event logging including user activity - Secure alerting - Automatic BIOS recovery - Rapid OS recovery - System erase Configuration upgrades should be only with cryptographically signed firmware and software Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware
18. Intrusion Detection alert	The server should provide intrusion detection in case of hardware being opened

2. Backup Software License for Server and Desktop / Laptop / Workstation

Backup Software is required with the following features and licenses: -
I.   Server Backup – Existing Application Server backup license 5 no(s) with add-on MS SQL Database (3 No)
II. Client Backup – Data backup for 50 no(s) or more client machines including Desktop / Laptop / Workstation

License Features should include the following specification: -

- Software license should be perpetual with 3 years of support
- Should provide complete data protection against any kind of data loss
- Should provide File level or disk-level backup
- Should provide Bare Metal Recovery (BMR)
- Should provide a single console for the backup software management
- Should provide Full & Incremental backup
- Should provide backup scheduling
- Should provide backup for open files also
- Should provide point-in-time restore
- Should provide dissimilar hardware restore
- Should provide customized data retention policies
- Should provide encryption of backup
- Should provide deduplication feature

3. Installation and other Service

Bidder can quote additionally for the installation, demonstration, documentation, training and any other services that may be required for completing the setup at our premises.

BID-SECURING DECLARATION FORM

Date: _____

Bid No. _____

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

(a)	have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
(b)	having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or refuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)
in the capacity of (insert legal capacity of person signing the Bid Securing Declaration).

Name: (insert complete name of person signing he Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of: (insert complete name of Bidder)

Dated on _____ day of _____(insert date of signing)

Corporate Seal (where appropriate)

Note:
1. In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid.
2. Bid Security declaration must be signed in by the Proprietor/CEO/MD or equivalent level of Officer of the company.