

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/ICTD/396/21-Y

Dated: 14/01/2022

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	Server for virtualization.	Nos	02
2	Sophos UTM firewall hardware.	Nos	01
3	Fortigate UTM firewall hardware.	Nos	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	03-Feb-2022 10.00 Hrs
Performance Security	3% of the purchase order value	Bid opening date	04-Feb-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.

पी बी सं. 1779, एचएएल एयरपोर्ट रोड, कोडिहल्ली, बेंगलुरु - 560 017, भारत,
P B No 1779, HAL Airport Road, Kodihalli, Bengaluru - 560 017, INDIA
फोन / Phone : (का. / Off) : +91 - 80 - 2508 6040 - 45, फैक्स / FAX : +91-80-2526 9611



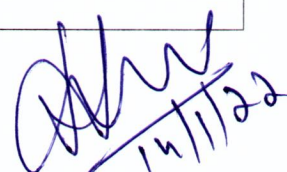
03. Either the Indian Agent on behalf of the Foreign principal or the Foreign principal can bid directly in a tender but **not** both. However, the offer of the Indian Agent should also accompany the authorisation letter from their principal. To maintain sanctity of tendering system, one Indian Agent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

Server Technical Specification		
SL No	Parameter	Specifications / Features
1	Make & Model	Preferably from IBM, Dell or HP
2	Chipset	Intel C621 or Higher
3	Form Factor	2U rack mounted with sliding rails
4	Configured CPU	Dual Intel® Xeon® Scalable processors, With 16 cores per processor, 2.1GHz and 22MB Cache
5	Memory configured	128GB with a speed of 3200MT/s, scalable to 256 GB
6	Disks supported	Front drive bays: 3.5 Chassis with up to 4 Hot Plug Hard Drives SAS/SATA (HDD/SSD)
7	RAID Controller	12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB NV Cache
8	Disks configured	2 x 480GB SSD SATA 6Gbps Read Intensive 2.5in Hot-plug Hard Drive Faulty Disks would not be returned back to OEM/Vendor
9	I/O slots	3 x Gen3 PCIe Slots
10	Onboard Ethernet ports	2 x 10G Ethernet 2 x 1G Ethernet
11	Certified for	Windows Server 2016, VMWare, Red Hat Enterprise Virtualization, Redhat Enterprise Linux.
12	Power Supply	750W Platinum rated redundant Power Supply
13	Server security	<p>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</p> <p>Should provide effective protection, reliable detection & rapid recovery using:</p> <p>Should provide effective protection, reliable detection & rapid recovery using:</p> <ul style="list-style-type: none"> - 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 <p>Configuration upgrades should be only with cryptographically signed firmware and software</p> <p>Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware</p>
14	Management	Enterprise, integrated Remote Access Controller, Enterprise Server shall include, IPMI 2.0 compliant management module. Management function shall be offered Management functionalities (viz. remote display, power off, power on, reboot, System health monitoring, and remote media mount and software installation) should be possible to be carried out using the offered management module without any additional license.
15	Cooling	Server shall be configured with redundant cooling fans
16	Certification	RoHS or equivalent to be provided by vendor.
17	Ports	Front :2 USB, Rear: 2 USB, VGA=2(front and back)
18	Intrusion alert	Intrusion alert in case chassis being opened
19	Warranty	5 years On-site comprehensive warranty. Any abnormality in the server should be restored within 48 hours of reporting.



UTM firewall Hardware Specification

For ensuring High availability in a passive mode, CSIR-NAL needs 2Nos (1Nos. of Sophos and 1 Nos of Fortigate) of UTM firewall hardware with following specifications:

Specification for Sophos Firewall:

Sl.No.	Parameter	Features/Specifications
1	Make and Model	It should be Sophos XG650 model or higher.
2	Form Factor	1U/2U rack mounted with sliding rails
3	Ports	16 Nos of 1G Ethernet, 8Nos SFP ports and 4Nos of SFP+
4	Management Ports	It should have additional USB and Ethernet ports for Management.
5	Licenses	It should accept all existing licenses of Sophos XG650 UTM firewall including WAF.
6	Warranty	3 years On-site comprehensive warranty. Any abnormality in the device should be restored within 48 hours of reporting.

Specification for Fortigate Firewall:

Sl.No.	Parameter	Features/Specifications
1	Make and Model	It should be Fortigate 501E model or higher.
2	Form Factor	1U/2U rack mounted with sliding rails
3	Ports	8 Nos of 1G Ethernet, 8Nos SFP ports and 2Nos of SFP+
4	Management Ports	It should have additional USB and Ethernet ports for Management.
5	Licenses	It should accept all existing licenses of Fortigate 501E UTM firewall .
6	Warranty	3 years On-site comprehensive warranty. Any abnormality in the device should be restored within 48 hours of reporting.

Terms and Condition:

1. Vendor may quote all or any of the line item mentioned in the tender. L1 will be decided based on each individual line item if matches all the technical specification of the line item.



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 the 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.