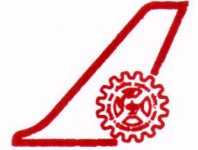


वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
Council of Scientific & Industrial Research
राष्ट्रीय वांतरिक्ष प्रयोगशालाएं
National Aerospace Laboratories



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

INVITATION FOR BIDS/NIT

Tender No. NAL/PUR/ALD/239/21-Y

Dated: 22-Oct-2021

CSIR- National Aerospace Laboratories (NAL), Bengaluru, India is one of the premier laboratories under Council of Scientific and Industrial Research (CSIR), an autonomous body under Department of Scientific and Industrial Research, Government of India, New Delhi. CSIR-NAL is a Science and Knowledge based Research, Development and Consulting Organization. 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 Items | Unit | Quantity |
|--|--|------|----------|
| 1 | Citect SCADA 2018 R2 (or Latest version) license: Full server, No. of Tags: 1500 tags. Make: Aveva (Schneider Electric) | Nos | 02 |
| Please refer annexure for detailed specification | | | |

| Single / Double Bid | Single | Tender Type | Limited |
|-----------------------------|--|-------------------------|--------------------------|
| Bid Security (EMD) (in INR) | Bid Security Declaration should be enclosed with quotation | Bid submission end date | 11-Nov-2021 10.00 Hrs |
| Performance Security | Nil | Bid opening date | 12-Nov-2021 11.00 Hrs |

01. Tender Documents may be downloaded from Central Public Procurement Portal <https://www.etenders.gov.in>. Aspiring Bidders who have not enrolled/ registered in e- procurement should enroll/ register before participating through the website <https://www.etenders.gov.in>. The portal enrolment is free of cost. 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 organization 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.
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 authorization 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 tenders (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.

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



<http://www.nal.res.in>

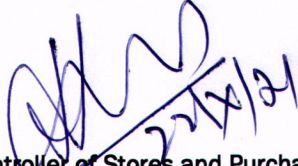


purchasek@nal.res.in



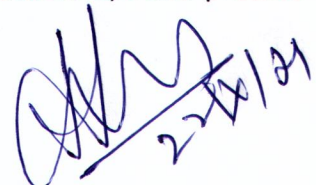
CSIR-National Aerospace Laboratories, Bengaluru-560 017, INDIA

05. The bids of those Bidders failing to comply with the following clauses will be summarily rejected
- 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.
 - 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 instruction 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.
09. Participation in this tender is by invitation only and is limited to the selected bidders. Unsolicited offers are liable to be ignored. However, bidders who desire to participate in such tenders in future may bring it to the notice of Procuring Entity and apply for registration


Controller of Stores and Purchase
For and on behalf of CSIR

Item 1: Supervisory Control and Data Acquisition (SCADA) Software License for Main, Redundant server architecture**Qty: 2nos****Specifications:**

1. Make : Schneider Electric / Aveva
2. Software : Citect SCADA 2018 R2 (or Latest version)
3. No. of Tags : 1500 tags
4. Architecture : Main, Redundant server architecture
5. Each server should have I/O server, Control client, Trend server, Report server and Alarm server
6. Master, Standby redundant server architecture
7. Graphical User interface: screens with inbuilt Screen templates, symbol library with symbols of motors, valves, LEDs etc. Option to create Popup windows (super genies) when clicked on symbols. Facility to disable, hide Menus in screens by Boolean conditions.
8. Text based programming with inbuilt subroutines for writing to/reading from files, for plotting trends etc.
9. IO devices: 3 types i.e. External (PLC, Recorder etc.), Persisted Memory (Variables of this IO device accessible in master, standby servers) and Disk I/O Devices (variables stored on your computer's hard disk).
10. Alarm management: Time stamped Analog, Digital alarms etc. Provision for categorizing Alarms
11. Trends: Analog, Digital trends display with Auto, Manual scaling
12. Reports: Periodic or event triggered report logging
13. Events: Periodic (time interval based), trigger based events that can execute subroutines
14. User access control: Multiple users for login with privilege control
15. Integrated OPC Factory Server (OFS) software for communication with PLCs through OPC protocol
16. Should support Industrial communication protocols like Modbus, OPC server, TCP/IP etc.
17. Inbuilt communication protocol support for Allen Bradley, Siemens, Schneider PLCs
18. One software license for each server and other processes
19. SCADA program development software for Master, Standby PCs shall be provided (or should be available to download from internet free of cost)
20. Compatible to Windows 10 OS (home or professional)
21. The software should be capable of porting/loading the existing autoclave software developed by NAL, which is based on Main, Redundant server architecture and Citect SCADA, Version 2018.
22. The SCADA software should have been proven for industrial autoclave, other process control applications.
23. License validity : permanent



Acceptance criteria:

- Master, standby feature of SCADA should be demonstrated by connecting to Schneider electric PLC (model: Twido TWDLCDE40DRF). Standby PC should take over and continue to control PLC when Master PC communication fails.
- Synchronization of recipe variables in Standby PC when set in Master PC

Note: All the required hardware (PC, PLC etc.) and the Citect SCADA based autoclave software are available at NAL.

A handwritten signature in blue ink, followed by a horizontal line and the date "22/8/21".

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.