



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

INVITATION FOR TENDERS

Tender No. NAL/PUR/ACD/044/22-Y

Dated: 20/10/2022

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 | Supply and Integration of CCTV camera compatible with existing CCTV network with necessary enterprise server grade NVR, display, control PC and Software. | Set | 1 |

Note:

- Bidders with Valid Manufactures Authorization Certificate shall be allowed for site visit between 25-Oct-2022 to 02-Nov-2022
- Please refer annexure for detailed specification

| Single / Double Bid Only | Two | Tender Type | Open |
|------------------------------------|--|-------------------------|--------------------------|
| Bid Security (EMD) (in INR) | Bid Security Declaration should be enclosed with quotation | Bid submission end date | 10-Nov-2022 10.00 Hrs |
| Performance Security | 3% of the purchase order value | Bid opening date | 11-Nov-2022 11.00 Hrs |

- 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'.
- 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.
- a. Global Tender Enquiry: 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



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

- b. Open Tender enquiry: Only Local suppliers with prescribed local content as detailed in DIPPT Order No. P-45021/2/2017-PP (BE-II) dated 16th Sep, 2020 and subsequent orders issued by Ministry of Finance (GoI) from time to time, are eligible for bidding. Bidders must enclose the certificate declaring the local content of supplies as per our standard form.

Note: Kindly refer to the first page (NIT) for tender type (i.e. Open Tender Enquiry / Global Tender Enquiry) and submit your bid accordingly.

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 a copy of registration done with DPIIT.
- 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. As per Govt. of India procurement policies,
- a. The purchaser intends to give purchase preference to local supplies (Preference to Make in India) in case the cost of procurement is up to Rs. 50.00 lakhs.
- b. The procuring entity intends to give purchase preference to products/goods manufactured by micro, small and medium enterprises.
07. 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.
08. Kindly, note CSIR-NAL GST No. **29AAATC2716R1ZB**. And the bidders' are requested to furnish their GST No. in their invoice failing which we will *not* be able to make timely payment.
09. Printed conditions, if any, submitted along with your quotation shall not be binding on us.
10. 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'.
11. 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,

Stores & Purchase Officer
For and on behalf of CSIR-NAL

Item 1 : 5MP Dome camera**Qty. 46 Nos.**

| S.NO | Parameter | Description |
|------|----------------------|--|
| 1 | Resolution /Lens | 5 MP (2592 x 1944) / 2.8mm or better |
| 2 | Sensor Type and Size | 1/2.8" CMOS 5MP Active Pixel or better |
| 3 | Minimum Illumination | Colour - 0.01 Lux @ F1.2 (AGC ON) Monochrome - 0 Lux |
| 4 | Field of View | Horizontal Field of View: 100 degrees or better |
| 5 | IR Range | 30M or better |
| 6 | Video Analytics | Motion/No Motion Detection, Tamper Detection, Trip Detection |
| 7 | Power Supply | 12V (DC); 802.3af (PoE) |
| 8 | Storage | NAS, SD Card |
| 9 | Stream Profiles | H.265/H.264 |
| 10 | WDR | True WDR (120dB) |
| 11 | Adaptive Streaming | YES |
| 12 | Smart Streaming | YES |
| 13 | Video Parameters | Region of Interest (ROI) |
| 14 | SNR | SNR > 70 dB |
| 15 | Certifications | IP66, BIS, CE, FCC and RoHS, NDAA Compliant |

Item 2 : 5MP Bullet camera**Qty. 5 Nos.**

| S.NO | Parameter | Description |
|------|----------------------|--|
| 1 | Resolution /Lens | 5 MP (2592 x 1944) / 4mm or better |
| 2 | Sensor Type and Size | 1/2.8" CMOS 5MP Active Pixel or better |
| 3 | Minimum Illumination | Colour - 0.01 Lux @ F1.2 (AGC ON) Monochrome - 0 Lux |
| 4 | Field of View | Horizontal Field of View: 100 degrees or better |
| 5 | IR Range | 30M or better |
| 6 | Video Analytics | Motion/No Motion Detection, Tamper Detection, Trip Detection |
| 7 | Power Supply | 12V (DC); 802.3af (PoE) |
| 8 | Storage | NAS, SD Card |
| 9 | Stream Profiles | H.265/H.264 |
| 10 | WDR | True WDR (120dB) |
| 11 | Adaptive Streaming | YES |
| 12 | Smart Streaming | YES |
| 13 | Video Parameters | Region of Interest (ROI) |
| 14 | SNR | SNR > 70 dB |
| 15 | Certifications | IP66, BIS, CE, FCC and RoHS, NDAA Compliant |

Item 3 : 128 Port Enterprise NVR**Qty. 1 No.**

| S.NO | Parameter | Description |
|------|--------------------------|--|
| 1 | Resolution Support | 12MP, 8MP, 5MP, 3MP, 2MP, 720P, D1, 2CIF, CIF, QCIF |
| 2 | Local Decoding | 1x 4K/ 4x 1080P/ 16 x D1 @H.264 |
| 3 | IP Camera Channels | 128 IP Channels or more |
| 4 | Hot Swap HDD Bays | 8x SATA HDD/ SSD 3.5" or 2.5" or more |
| 5 | Video Display | minimum 2x Display Ports; 1x VGA |
| 6 | Power Supply System | 1+1 550W Hot Swap Platinum Redundant Power Supply |
| 7 | Throughput (Uplink) | 512Mbps or better |
| 8 | Throughput (Downlink) | 512Mbps or better |
| 9 | IP Camera Supports | ONVIF Profile S Supported |
| 10 | Backup | 3 Level Data Backup Policies or better |
| 11 | Multi- Stream Supporting | YES |
| 12 | Action | Real Time Notification using SMS & Email, Remote and Centralized Viewing and Management and Mobile Clients |

| | | | |
|-----------------|------------|--------------------------------|--------------------|
| Item 4 : | HDD | 8 TB Enterprise class SATA HDD | Qty. 8 Nos. |
|-----------------|------------|--------------------------------|--------------------|

Item 5 : Display**Qty. 2 Nos.**

| S.NO | Parameter | Description |
|------|-----------------------|--|
| 1 | Display Size | 55 inch |
| 2 | Resolution | Resolution : ULTRA HD (3,840 x 2,160) |
| 3 | Screen Aspect | 0.672916667 |
| 4 | static Panel contrast | 1300:1 or higher |
| 5 | Brightness | 400 nits |
| 6 | Ports | HDMI 3 , USB 2, WiFi Built in , Hotspot, Screen Mirror |
| 7 | Power supply | 230 V |
| 8 | Wif-fi Option | Required |
| 9 | Remote | Touch Remote should available |
| 10 | Other Accesseries | Wall Mount kit and Table Stand kit, Quick Setup Guide, warranty card, application CD, power cord and Other accesseries, |

| | | | |
|-----------------|-------------------|--|--------------------|
| Item 6 : | Desktop PC | Intel Core i5 - 11th generation Processor, 8 GB Ram, 1 TB HDD with keyboard & mouse with preinstalled Licensed OS & necessary S/W for monitoring camera O/P | Qty. 2 Nos. |
|-----------------|-------------------|--|--------------------|

| | | |
|-----------------|---|-------------------|
| Item 7 : | Required Cat 6 UTP cables, Wall mounnt Rack, Conduit ducts, cable tags, stickers RJ 45 Jack, patch cords etc and any other accessories required (as per the site condition to complete the installation) have to be supplied by the vendor. | Qty. 1 Set |
|-----------------|---|-------------------|

Note :

- 1 Laying of ducts, conduits and cables, Mounting of wall racks, panels termination of cables, labelling, tagging to be carried out by the vendor. In the budgetary quote information about the length of cables , ducts,number of racks, number of PoE switeches etc. need to be provided
- 2 Installation and configuration of the supplied cameras, servers, displays and storage server and integration with the existing system have to be carried out by the vendor.Vendor has to install the cameras at designated locations, lay down the cable through proper ducts, bring it to nearby racks, provide necessary switeches, set up the enterprice grade NVR, connect the newly insalled cameras with existing cameras (UNC-DV-O, 36+ numbers), set up the screen and computer in the offices for viewing the live as well as recorded data.
- 3 All Systems should come with minimum of one year warranty
- 4 Vendors with **valid** OEM authorisation can do the site inspection between on working days between 25-10-2022 to 02-11-2022 with prior intimation.
- 5 Vendor has to provide **valid** OEM authorisation letter along with the bid
- 6 The overall cost including supply of items, installation and integration with the existing camera system will be considered for the selection of the bid.
- 7 Along with the compliance sheet the data sheet for the proposed camera,HDD, Display and PC- supporting the compliance statement need to be provided in the bid . Copy of the certificate for the compliance for IP66, BIS, CE, FCC and RoHS, NDAA for camera need to be attached with the bid

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.