



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

INVITATION FOR TENDERS

Tender No. NAL/PUR/ELK/337/22-Y

Dated: 20/01/2023

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 Installation testing & commissioning of ESE (Early Streamer Emission Lightning Arresters) as per NFC 17-102 & UNE 21186 standards. (Detailed Specification as per Annexure enclosed).	Set	6

Single / Double Bid Only	Double	Tender Type	Open
Bid Security (EMD) (in INR)	Bid Security Declaration should be enclosed with quotation	Bid submission end date	13-Feb-2023 10.00 Hrs
Performance Security	Nil	Bid opening date	14-Feb-2023 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.
03. 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

SI.No	Description	Unit	Qty.	Rate	Amount
1	<p>Supply of ESE (Early Streamer Emission) Lightning Arresters made of stainless steel design suitable for all environmental conditions utilizing advance and sustainable technologies as per NFC 17-102 & UNE 21186 standards by capturing dangerous lightning discharges and safely channelling it to earth with following specifications.</p> <p>1.Stainless steel material 2.$\Delta T = 60\mu$ seconds (Triggering time advance) 3.70 KA current tested for 8 /20 μ seconds 4.ISO & CE certified 5.20 years Replacement warranty 6.Protection radius - 107 meters</p> <p>Note: ESE lighting arrester shall comply with NFC 17-102 & UNE 21186 standards and necessary test reports shall be submitted as per standard.</p>	No.	6		
2	<p>Supply of GI pole Elevation Mast of 5 meters height along with base plate, Guy wire rope kit , & other associated fixing accesories suitable for mounting on Roof top / side mounting arrangement as per site requirement.The mast shall be coated with anticorrosive paint for additional protection all as per standard.</p>	No.	6		
3	<p>Supply of 70 sq.mm size HR FRLSH PVC insulated copper conductor single core flexible cable of 1.1 kv grade, black colour of Make : Polycab / RR Kables / Lapp India</p>	Meters	250		
4	<p>Supply of maintenance free earthing system using 10 ft length, 17.2 mm dia copper bonded rod as primary electrode. The Copper bonded pipe electrodes shall be of molecularly bonding of pure electrolytic copper (99.9%) .The top portion of the earth electrode shall be provided with extended lead holes on the terminal for connecting to the earth terminals.The earth pit shall be refilled using RoHS certified environment friendly low resistance grounding minerals (2 nos. of 25 Kg. bag per each earth pit) having a combination of graphite & natural earth minerals to form a low resistance zone all round the electrode. The required quantity of water shall be poured inside the earth pit as per the OEM recommendations. The necessary earth chamber shall be provided using heavy duty weather proof plastic cover.</p> <p>Note :Earthing system shall comply Certification as per BIS (Bureau of Indian Standards) & IEEE80-2000 standard.</p>	set	12		

Handwritten signature and date:
20/01/2023

5	Installation charges towards fixing of ESE terminal with mast along with all accessories, routing of down conductors through PVC Conduits as required , installation of earth pits including digging & refilling as per the site requirement.	set	6		
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Check list and necessary reports to be submitted by Vendors

Sl.No	Description	YES	NO
VENDOR Criteria			
1	The Bidder should be a manufacturer/authorized representative of a manufacturer who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the "Technical Specification"		
2	The Bidder should furnish the information on all past supplies and satisfactory performance in the proforma (Performance Statement Form).		
3	ISO & CE certified Company		
Early streamer Emission Lightning Arrester			
1	ESE lightning Arrester shall be of stainless steel material		
2	All test reports confirming to standards NFC 17-102 & UNE 21186		
3	Test report of $\Delta T = 60\mu$ seconds (Triggering time advance)		
4	Test report of Lightning current=70 KA tested for 8 /20 μ seconds		
5	20 years Replacement warranty		
70 sq.mm size HR FRLSH PVC insulated copper cable			
1	Cable shall be suitable for Lightning Arrester Application of make : Polycab / RR Kables / Lapp India		
Maintenance free Earthing system			
1	Earthing system shall comply Certification as per BIS (Bureau of Indian Standards) & IEEE 80-2000 standard		
2	Grounding Minerals (Back fill Compound) shall be RoHS certified		

(Signature)
20/01/2023