वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद् Council of Scientific & Industrial Research

राष्ट्रीय वांतरिक्ष प्रयोगशालाएं National Aerospace Laboratories



Dated: 12-Dec-19

INVITATION FOR BIDS/NIT

Tender No. NAL/PUR/STTD/355/19-Y

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.

SI.No.	Description of Items	Unit	Qty
1	Strain gages and adhesive.	Set	1
	Please refer Annexure for detailed specification.		

Single / Double Bid	Single
Bid Security (EMD) (in INR)	Bid Security Declaration should be enclosed with quotation.
Performance Security	Nil ,

- 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'.
- O2. 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) **shall not** be considered. Quotations received after the due date and time **shall be summarily rejected**.
- 05. The Bidder shall comply the terms and conditions of the tender, failing which, the offer shall be liable for rejection.
- O6. 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.

Raman Kumar Section Officer (S&P)

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





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

SCHEDULE CUM CRITICIAL DATE SHEET

1	Name of Organization	CSIR National Agreement	abaratarias Pangaluru	
		CSIR-National Aerospace Laboratories, Bengaluru		
2	Tender Reference No	NAL/PUR/STTD/355/19-Y dated: 12-Dec-19		
3	Tender Type (Open/Limited/EOI/Auction/Single)	Open	,	
4	Type/Form of Contract (Work / Supply / Auction / Service / Buy / Empanelment / Sell)	Supply		
5	No of Covers (One/Two/Three/Four)	One		
6	Tender Category (Services/Good/Works)	Goods		
7	Allow Resubmission (Only in online mode within scheduled period)	Yes .		
8	Allow Withdrawal (Only in online mode within scheduled period)	Yes		
9	Allow Offline Submission	No		
10	Work Item Title	Strain gages and adhesive.		
11	Work Description	Strain gages and adhesive	. ,	
12	Delivery Schedule	15 days from the date of purchase order		
13	Product Category (Civil Works / Electrical Works / Fleet Management / Computer Systems)	R & D Equipment		
14	Is Multi Currency Allowed	Yes		
	a) Tender Publishing Date -	16-Dec-19	1800 Hrs	
	b) Document Download Start Date-	16-Dec-19	1800 Hrs	
15	c) Bid Submission Start Date-	16-Dec-19	1800 Hrs	
	d) Bid Submission End Date-	02-Jan-20	1000 Hrs	
	e) Bid Opening Date-	03-Jan-20	1100 Hrs	
16	Bid Validity Days	90 days		
17	Address for communication	Stores and Purchase Officer CSIR-National Aerospace Laboratories, HAL Airport Road, Kodihalli, Bengaluru - 560017		
18	Inviting Officer	Director, CSIR-NAL		
19	Contact No	25086040, 25086041		
20	E-mail Address	purchasek@nal.res.in		
21	Detailed specification of item	Refer Invitation for bids / NIT		
22	Tender Terms & Conditions & Instruction for online bid submission	The prospective bidders are requested to refer to the Standard Tender Document available on NAL Internet (www.nal.res.in) under the icon Tender-Purchase before formulating and submitting their bids		

Strain gage requirements			
Sl.No	Strain gage description	Nos	4
	For Carbon/Glass fiber composite material		
1	5 mm gage length, 350 Ω Uniaxial strain gage with polyimide base and 25 mm pre-attached lead wire	100	
2	5 mm gage length, 350 Ω 0°/45°/90° Triaxial stacked rosette strain gage with polyimide base and 30 cm long pre-attached 2 wire polyester/polymide coated lead wire	100	
3	2 mm gage length, 350 Ω Uniaxial strain gage with polyimide base and 25 mm pre-attached lead wire	100	
4	2 mm gage length, 350 Ω Uniaxial strain gage with polyimide base and 30 cm long pre-attached 2 wire polyester/polymide coated lead wire	100	
5	2 mm gage length, 350 Ω 0°/90° Biaxial stacked rosette strain gage with polyimide round base and 30 cm long pre-attached 2 wire polyester/polymide coated lead wire	125	
6	5 mm gage length, 350 Ω 0°/90° Biaxial stacked rosette strain gage with polyimide round base and 30 cm long pre-attached 2 wire polyester/polymide coated lead wire	50	•
7	2 mm gage length, 350 Ω 0°/45°/90° Triaxial stacked rosette strain gage with polyimide round base and 30 cm long 2 wire pre-attached polyester/polymide coated lead wire	75	
8	2 mm gage length, 350 Ω 0°/45°/90° Triaxial stacked rosette strain gage with polyimide round base and 25 mm long pre-attached lead wire	125	
9	5 mm gage length, 350 Ω 0°/45°/90° Triaxial stacked rosette strain gage with polyimide round base and 30 cm long pre-attached 2 wire polyester/polymide coated lead wire	75	
10	5 mm gage length, 350 Ω 0°/45°/90° Triaxial stacked rosette strain gage with polyimide round base and 25 mm long pre-attached lead wire	100	
1	For steel		
11	2 mm gage length, 120 Ω Uniaxial strain gage with polyimide base and 25 mm pre-attached lead wire	50	
12	5 mm gage length, 120 Ω Uniaxial strain gage with polyimide base and 25 mm pre-attached lead wire	50	
13	1 mm gage length, 120 Ω 0°/90° Biaxial stacked rosette strain gage with polyimide round base and 30 cm long pre-attached 2 wire	100	

	polyester/polymide coated lead wire		
14	2 mm gage length, 120Ω 0°/45°/90° Triaxial stacked rosette strain gage with polyimide round base and 25 mm long pre-attached lead wire	50	
	For Aluminum		
15	2 mm gage length, 120 Ω Uniaxial strain gage with polyimide base and 25 mm pre-attached lead wire	75	
16	1 mm gage length, 120 Ω 0°/90° Biaxial stacked rosette strain gage with polyimide round base and 30 cm long pre-attached 2 wire polyester/polymide coated lead wire	100	
17	2 mm gage length, 120 Ω $$ 0°/45°/90° Triaxial stacked rosette strain gage with polyimide round base and 25 mm long pre-attached lead wire	100	
18	Strain gage Terminals of base size 8x7x0.2 mm /pair (approx)	2000 pairs	
19	Adhesive – Cyanoacrylate Capacity : 2 grams per tube	75 tubes	

ALL THE STRAIN GAGES SHOULD MEET THE FOLLOWING REQUIREMENTS: -

Gage factor: 2.00 to 2.1 ±1%

STC range (°C): 10 – 100

Strain limit: 5% (approx) at room temp.

Fatigue limit: 1.2x10^6 times (approx)

Operating Temp: -196 to +150 C°

Applicable linear expansion coefficient for

composite: 3 ppm /°C, Steel: 11 ppm /°C, Aluminum: 23 ppm /°C

Pl. note vender should also attach Tender specific authorization letter from OEM.

Tender No.: NAL/PUR/STTD/355/19-Y

BID-SECURING DECLARATION FORM

	Date:
	Bid No
To (inse	ert complete name and address of the purchaser)
I/We. T	he undersigned, declare that:
I/We ur	nderstand that, according to your conditions, bids must be supported by a Bid Securing Declaration.
	eccept that I/We may be disqualified from bidding for any contract with you for a period of one year educe of notification if I am /We are in a breach of any obligation under the bid conditions, because
(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 reuse to execute the contract, if required, or
	(ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.
Bidder,	nderstand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirt ter the expiration of the validity of my/our Bid.
_	(insert signature of person whose name and capacity are shown) apacity of (insert legal capacity of person signing the Bid Securing Declaration).
Name:	(insert complete name of person signing he Bid Securing Declaration)
Duly au	thorized to sign the bid for an on behalf of: (insert complete name of Bidder)
Dated o	on day of (insert date of signing)
Corpora	ate Seal (where appropriate)

Note:

- 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.
- Bid Security declaration must be signed in by the Proprietor/CEO/MD or equivalent level of Officer of the company.