

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: CAD/PUR/2K19/153

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	Supply of L & S Band Multicoupler (Specification as enclosed)	No.	3
Single / Double Bid		Single	
Bid Security (EMD) (in INR)		Rs.20,000/-	

1.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'.

2.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.

3.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.

4.Unsolicited / conditional / unsigned tenders (Quotations) shall not be considered. Quotations received after the due date and time shall be summarily rejected.

5.The amount of the Performance Security shall be 10% of the contract value to be submitted within 21 days from the date of Purchase Order valid up to 60 days after the date of completion of performance obligations including warranty obligations.

P.T.O

पी बी सं. 1779, एचएएल एयरपोर्ट रोड , बेंगलूर- 560 017, भारत,
P B No 1779, HAL Airport Road, Bengaluru - 560 017, INDIA
फोन / Phone : (का./ Off) : +91 - 80 - 2508 6097 / 6710, फैक्स / FAX : +91-80-2526 9611



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



purchaseccadd@nal.res.in

6.The Bid Security/Earnest Money Deposit shall be deposited through Bank Guarantee/Demand Draft drawn in favour of "The Director, National Aerospace Laboratories, Bengaluru". The original Bid Security/EMD must be delivered to address mentioned below on or before bid submission date and time failing which the bid shall be summarily rejected.

Controller of Stores & Purchase
Purchase Section
CSIR- National Aerospace Laboratories
PB No.1779, HAL Airport Road, Kodihalli, Bengaluru - 560017
Karnataka-India
Tel # : 080 25086040/6097/6710
Fax # : 080 25269611
Email : purchasek@nal.res.in, purchaseccadd@nal.res.in

7.The bidders should provide technical and financial terms and conditions of AMC for each unit for a period of three years upon expiry of warranty period. However, the quote for AMC will not be the part of commercial evaluation of the tender.

8. The Bidder shall comply the terms and conditions of the tender, failing which; the offer shall be liable for rejection.

9.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)
For & Behalf of CSIR

L&S-BAND MULTICOUPLER

SPECIFICATIONS:

- Frequency range : 1425-1545 MHz & 2200-2400 MHz
- Gain : 5min – 7max dB
- Noise figure : 3 dB max or better
- Isolation (o/p to o/p) : 40 dB min or better
- Isolation (o/p to i/p) : 60 dB min or better
- Input VSWR : 1.5:1 or better
- Output VSWR : 1.5:1 or better
- In/Out Impedance : 50 Ω
- RF Inputs : 1 N (F) rear panel
- RF Outputs : 4 N (F) rear panel
- IP1 @o/p : +10dBm or better; such that the O/P does not cross +10dBm
- IP3 @o/p : +19dBm or better; such that the O/P does not cross +10dBm
- Power Requirements : 160 -250VAC/50 Hz,
- Dimensions : 1U RACK STD
- Operation Temperature : -10° to +50°C
- Relative humidity : 10 to 99%
- EMI/EMC (MIL-STD-461E) : Compliance required
- Connector Type : N-type (F)
- Storage Temperature : -20° to +65°C
- Humidity : 10 to 95%, non-condensing
- Worst- case O/P Level : ≤ 10 dBm
- Power supply : Suitable line filter should be provided to reduce AC & DC ripples

Terms & Conditions:

- 1year warranty should be provided
- Similar units (Multi-coupler only) should have been installed in at least two ground telemetry facilities for missile or aircraft flight testing, proof of installation should be provided along with the quotation
- Training to be given at CSIR-NAL premises, to 4 persons for 4 days.
- **The bidders should provide technical and financial terms and conditions of AMC for each unit for a period of three years upon expiry of warranty period. However, the quote for AMC will not be the part of commercial evaluation of the tender.**



CAD/PUR/2K19/153

SCHEDULE CUM CRITICAL DATE SHEET

1	Name of Organization	CSIR-National Aerospace Laboratories, Bengaluru	
2	Tender Reference No	CAD/PUR/2K19/153	
3	Tender Type (Open/Limited/EOI/Auction/Single)	Open Tender	
4	Type/Form of Contract (Work / Supply / Auction / Service / Buy / Empanelment / Sell)	Supply	
5	No of Covers (One/Two/Three/Four)	Single	
6	Tender Category (Services/Good/Works)	Good	
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	Supply of L & S Band Multicoupler (Details as per specification)	
11	Work Description	Supply of L & S Band Multicoupler (Details as per specification)	
12	Delivery Schedule	30 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	No	
15	z) Tender Publishing Date -	21 Jan 2020	1800 Hrs
	aa) Document download start Date:	21 Jan 2020	1800 Hrs
	bb) Bid Submission Start Date	21 Jan 2020	1800 Hrs
	cc) Bid Submission End Date-	13 Feb 2020	1000 Hrs
	dd) Bid Opening Date-	14 Feb 2020	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	25086097, 25086710	
20	E-mail Address	purchasecadd@nal.res.in/spo@nal.res.in	
21	Detailed specification of item	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.	