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.

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Description of Items</th>
<th>Unit</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Supply of L &amp; S Band Multicoupler</td>
<td>No.</td>
<td>3</td>
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<td>(Specification as enclosed)</td>
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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
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 (0/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: ≤10dBm
- Power supply: Suitable line filter should be provided to reduce AC & DC ripples

Terms & Conditions:

- 1 year 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 DAT SHEET

1. Name of Organization: CSIR-National Aerospace Laboratories, Bengaluru
2. Tender Reference No: CAD/PUR/2K19/153
3. Tender Type: Open Tender
4. Type/Form of Contract: Supply
5. No of Covers: Single
6. Tender Category: Good
7. Allow Resubmission: Yes
8. Allow Withdrawal: 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: R & D Equipment
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: HAL Airport Road, Kodihalli, Bengaluru - 560017
18. Inviting Officer: Director, CSIR-NAL
19. Contact No: 25086097, 25086710
20. E-mail Address: purchaseccadd@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.