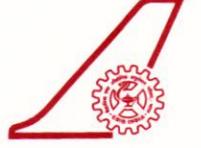


वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
Council of Scientific & Industrial Research
राष्ट्रीय वांतरिक्ष प्रयोगशालाएं
National Aerospace Laboratories



CSIR - NAL Estd. 1959
ISO 9001 : 2015
Certified Organization

INVITATION FOR BIDS/NIT

Tender No. NAL/PUR/STTD/342/19-Y

Dated: 23-Dec-19

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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
01	Turret Ram Milling Machine. Please refer Annexure for detailed specification	No	01
Single / Double Bid		Single	
Bid Security (EMD) (in INR)		Rs. 20000/-	
Performance Security		10% of the purchase order value	

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'.
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 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.
06. 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

SCHEDULE CUM CRITICAL DATE SHEET

1	Name of Organization	CSIR-National Aerospace Laboratories, Bengaluru	
2	Tender Reference No	NAL/PUR/STTD/342/19-Y dated: 23-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	Turret Ram Milling Machine.	
11	Work Description	Turret Ram Milling Machine.	
12	Delivery Schedule	60 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	
15	a) Tender Publishing Date -	28-Dec-19	1800 Hrs
	b) Document Download Start Date-	28-Dec-19	1800 Hrs
	c) Bid Submission Start Date-	28-Dec-19	1800Hrs
	d) Bid Submission End Date-	20-Jan-20	1000 Hrs
	e) Bid Opening Date-	21-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	purchassek@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	

Specifications for Turret Ram Milling Machine

- The milling machine must be designed to withstand shocks and vibrations induced while machining high strength materials for aerospace applications. Change of spindle speed should be infinitely variable or in steps. The main spindle should have Instantaneous braking mechanism.
- The table on which job/material is mounted should have necessary clamping provisions. The table should have auto feed operations in all X, Y, Z directions by independent electrical motors.
- The machine must supplied with necessary service/maintenance manual, service/spare tools, and must provide service/maintenance and spare support for atleast 10 years from the date of delivery.
- The specification of machine should confirm to IS 6893 part 5-latest
- Accuracy test for inspection of the machine should confirm to IS 2200-latest
- The OEM shall supply the machinery along with accessories such as
 1. X,Y,Z axes Digital Read Out with 5 micron resolution.
 2. Machine Vice with rigid base width 200mm opening 200mm either screw rod and nut /hydraulic mechanism.
 3. ISO 30 or equivalent collet holder and collet ranging from 4-25.
 4. Reduction sleeve ISO 30 or equivalent to MT2.
 5. Precision boring head of capacity 80mm or more.
 6. Standard working holding devices.
 7. Standard cutting tools.
 8. Coolant attachment.
 9. Machine lamp holder.

Sl no	Specification	Units	value	Tolerance
1	Table	mm	1070x230	+15%
2	Table Clamping Area	mm	800x200	
3	Travel-(X/Y/Z/Ram/Quill)	mm	650 /250 / 350 / 300 / 120	
4	spindle Speed range	rpm	40-3500	
5	Swivel of milling head	degree	45 either side in X and Y planes	
6	Swivel of ram	degree	360	
7	Spindle taper		ISO 30 or equivalent	
8	Motor power	HP	min 3	