DOC - 4

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

DEPARTMENT OF MECHANICAL ENGINEERING

POST SRINIVASNAGAR, MANGALORE - 575 025 (D K)

Phone: (0824) 2474000. Fax: (0824) 2474033 **E- mail: info@nitk.ac.in**Website: http://www.nitk.ac.in



TENDER DOCUMENT

Tender Notification No: NITK/ME/2401/2020/Doc4 Date: 25/09/2020

Name of Goods : Twin Screw Extruder

Estimated amount put to Tender : ₹ 20 lakhs (Including GST)

EMD Amount (2% of estimated amount) : ₹ 40,000.00

Time for Supply of item : 12 weeks

Date for Request tender document : 26/10/2020, 2 p.m.

End date for submission of e-tender : 26/10/2020, 3 p.m.

Address for Submission of Tender : https://mhrd.euniwizarde.com

Opening date of technical bid : 26/10/2020, 3.30 p.m.

Contact Details of Buyer : Dr. Mrityunjay Doddamani

Assistant Professor, Dept. of Mechanical Engineering

National Institute of Technology Karnataka

Surathkal, Mangalore - 575 025

Karnataka, India, E-mail: mrdoddamani@nitk.edu.in

Tel.: +91 9448920878

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL



POST SRINIVASNAGAR, MANGALURU – 575 025 (An Autonomous Body of the Ministry of HRD, Govt. of India)

Phone: (0824) 2474 000. Fax: (0824) 2474 033/ 2474 039 Email: registrar@nitk.ac.in Website: http://www.nitk.ac.in

Tender Notification No: NITK/ME/2401/2020/Doc4 Date: 25/09/2020

NOTICE INVITING e-TENDER (e-NIT)

The National Institute of Technology Karnataka, Surathkal (in short – NITK, Surathkal) is an Institute Of National Importance under MHRD Govt of India imparting Technical Education and engaged in Research Activities. It is proposed to procure equipment for Central Research Facility.

Online Tender (https://mhrd.euniwizarde.com/) is invited for the following items in two-cover-system (i.e., Technical bid and financial bid) subject to the following terms and conditions, from the reputed manufacturers or it's authorized dealers so as to reach this office on or before scheduled date and time. The tender (Technical bid) will be opened online on the due date as mentioned. Bidders can verify their bid status through online portal https://mhrd.euniwizarde.com/. The financial bid of only such bidders whose technical bid is accepted shall be opened on the same day or later pre-informed date.

1. Name of Goods : Twin Screw Extruder

2. Estimated Cost : ₹ 20 lakhs (Including GST)

3. E M D (2% of estimated amount) : ₹ 40,000.00

4. Date for Request tender document : 26/10/2020, 2 p.m.

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6. Address for Submission of Tender : https://mhrd.euniwizarde.com

7. Date of opening of technical bid : 26/10/2020, 3.30 p.m.

8. Contact Details of Buyer : Dr. Mrityunjay Doddamani, Assistant Professor

Dept. of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal 575025, Mangalore

E-mail: mrdoddamani@nitk.edu.in,

Tel.:+919448920878

Sd/-HOD

SECTION 1 A:- PROCEDURE FOR SUBMISSION OF E-TENDER

The bidders are required to submit soft copies of their bid electronically on the e-Wizard Portal using valid Digital Signature Certificates. Below mentioned instructions are meant to guide the bidders for registration on the e-Wizard Portal, prepare their bids in accordance with the requirements and submit their bids online on the e-Wizard Portal. For more information bidders may visit the e-Wizard Portal https://mhrd.euniwizarde.com

1. REGISTRATION PROCESS ON ONLINE PORTAL

- 1. Bidders to enroll on the e-Procurement module of the portal https://mhrd.euniwizarde.com by clicking on the link "Bidder Enrolment" as per portal norms.
- The bidders to choose a unique username and assign a password for their accounts. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the e-Wizard Portal.
- 3. Bidders to register upon enrolment their valid Digital Signature Certificate (DSC: Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India with their profile.
- 4. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse. Foreign bidders are advised to refer "DSC details for Foreign Bidders" for Digital Signature requirements on the portal.
- 5. Bidder then logs in to the site through the secured log-in by entering their user ID/password and the password of the DSC / e-Token.

2. TENDER DOCUMENTS SEARCH

- Various built-in options are available in the e-Wizard Portal which is further synchronizing with CPP Portal to facilitate bidders to search active tenders by several parameters. These parameters include Tender ID, organization, location, date, value, etc.
- 2. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, a form of contract, location, date, other keywords, etc. to search for a tender published on the Online Portal.
- 3. Once the bidders have selected the tenders they are interested in, they may download the required documents/tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would

enable the Online Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

4. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification/help from the Helpdesk.

3. BID PREPARATION

- Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
- 3. Please note the number of covers in which the bid documents have to be submitted, the number of documents including the names and content of each of the document that needs to be submitted. Any deviations from these may lead to rejection of the bid.
- 4. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and generally, they can be in PDF / XLS / PNG, etc. formats. Bid documents may be scanned with 100 dpi with black and white option.

4. BID SUBMISSION

- 1. Bidder to log into the site well in advance for bid submission so that he/she uploads the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2. The bidder to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- Bidder to select the payment option as Online" to pay the tender fee/ EMD wherever applicable and enter details of the instrument.
- 4. A standard BoQ format has been provided with the tender document to be filled by all the bidders. Bidders to note that they should necessarily submit their financial bids in the prescribed format and no other format is acceptable.
- 5. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, the opening of bids, etc. The bidders should follow this time during bid submission.

- 6. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data, which cannot be viewed by unauthorized persons until the time of bid opening.
- 7. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8. Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9. Kindly have all relevant documents in a single PDF file of compliance sheet.
- 10. The off-line tender shall not be accepted and no request in this regard will be entertained whatsoever.

5. AMENDMENT OF BID DOCUMENT

At any time prior to the deadline for submission of proposals, the institutions reserve the right to add/modify/delete any portion of this document by the issuance of a Corrigendum, which would be published on the website and will also be made available to the all the Bidder who has been issued the tender document. The Corrigendum shall be binding on all bidders and will form part of the bid documents.

6. ASSISTANCE TO BIDDERS

- 1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2. Any queries relating to the process of online bid submission or queries relating to e-Wizard Portal, in general, may be directed to the 24x7 e-Wizard Helpdesk. The contact number for the helpdesk is 011-49606060, 23710092, 23710091, Sanjeet Kumar Jha +91-8882495599, 9350530626, Gagan +91 8448288987, 8448288988 and Vijay +91 9113518121, 8448288989

7. INSTRUCTIONS TO THE BIDDERS

- 2. The tenders will be received online through portal https://mhrd.euniwizarde.com. In the Technical Bids, the bidders are required to upload all the documents in .pdf format.

- 3. Possession of Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/ e-Token in the company's name is a prerequisite for registration and participating in the bid submission activities through https://mhrd.euniwizarde.com. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available on the web site https://mhrd.euniwizarde.com. under the link 'DSC help'.
 - Tenderers are advised to follow the instructions provided in the `Instructions to the Tenderers for the e-Submission of the bids online through the e-Wizard Portal for e-Procurement at https://mhrd.euniwizarde.com.
- 4. The bidder has to "Request the tender" to MHRD portal before the "Date for Request tender document", to participate in bid submission.
- 8. All entries in the tender should be entered in online Technical & Commercial Formats without any ambiguity.
- **9.** Any order resulting from this e-tender shall be governed by the terms and conditions mentioned therein.
- **10.** No deviation to the technical and commercial terms & conditions are allowed.
- **11.** The tender inviting authority has the right to cancel this e-tender or extend the due date of receipt of the bid(s).

SECTION 1 B: INSTRUCTION TO BIDDER (ITB)

- 1. The bid should be submitted in two covers System-Technical Bid and Financial Bid online through portal https://mhrd.euniwizarde.com:
- 1.1 Envelope No.1 Technical Bid: The agencies should give details of their technical soundness and provide a list of customers of a previous supply of similar items to Universities, Institutes or Government Departments/ Undertakings/ public sectors with contact details. The details of the Bidder/ profile should be furnished along with the copy of all related documents. This envelope should be uploaded online tender (https://mhrd.euniwizarde.com/) and digitally signed as "Envelope No. 1 Technical Bid i.e. Checklist (Excel format).

1.2. Document to be scanned and submitted by uploading in the technical bid:

- a) The Bidder should possess a Licence certificate for manufacture /supply of the item.
- b) List of Owner/partners of the firm and their contact numbers
- c) The Bidder should possess Income-tax PAN Number.
- d) The Bidder should possess a valid GST registration number.
- e) Catalogue of the Product with detailed product specifications.
- f) List of Service Centres
- g) List of customers with contact details.
- h) The average annual turnover should not be less than 30% of the estimated cost put to tender/Tender for the job work. The copy of the Balance sheet, Profit & Loss A/c., Trade or Manufacturing A/c for the last 3 years should be enclosed
- i) Warranty Period Offered for the tendered item to be specified. If the Warranty period is not conforming to the schedule of requirements given in section 3 of the document, the bid is liable to be treated as non-responsive and rejected.
- j) EMD payment needs to make through Online. EMD shall bear no interest. Any bid not accompanying with EMD is liable to be treated as non-responsive and rejected.
- k) NSIC/ MSME registration certificate (in case of bidders claiming exception of EMD while submitting a bid)
- I) Contract form given in section 5 needs to be submitted.

The above documents should be furnished in the technical bid envelope.

2. Envelope No.2 – Financial bid: The agencies should submit their financial bid as per the (.xlxs) format is given in Section 4 of the Notice Inviting Tender in this cover. The rate should be quoted in figures and upload online bid. This envelope should upload online only as "Envelope No. 2 – Financial Bid".

Both the Envelope No. 1 and 2 should be uploaded through online portal (https://mhrd.euniwizarde.com).

- 3 The tender will be accepted only from the **manufacturers or its authorised supplier**.
- 4. The Institute **reserves the right to visit the factory** before or after the issue of supply order to satisfy itself regarding the quality of production. In case of any remarks /default noted, the EMD will be forfeited even if prequalified.
- 5. The Financial Bid shall be in the format of Price Schedule given in Section 4. The Contract form as per format is given in section 5 shall be submitted. The incomplete or conditional tender will be rejected.
- 6. Details of the item to be carried out, approximate quantity and the specifications are mentioned in "Section 3" appended to this Notice Inviting Tender.
- 7. The item to be used is strictly according to the specification and subject to test by the Institute/concerned authorities. It must be delivered and installed in good working condition.
- 8. The Institute reserves the right to cancel or reduce the quantity included in the schedule of requirements at any time after acceptance of the tender with a notice. The Contractor/Supplier shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the work/supply in full but he did not derive in consequence of the foreclosure of the whole or part of the works.
- 9. Performance Security of 5 % of the contract value in terms of Bank Guarantee by scheduled banks shall be given by the successful bidder for the total period of Warranty.
- 10. **The release of EMD:** The EMD shall be released after receipt of performance security from the successful bidder.
 - 11 **The validity of bids:** The rate quoted should be valid for a minimum of 90 days. No claim for escalation of the rate will be considered after opening the Tender.

12 Clarification of Tender Document:

A prospective bidder requiring any clarification of the Tender Document may communicate to the contact person given in this notice inviting tender. The contact person will respond to any request for clarification for the Tender Document received not later than 5 working days prior to the last date for the receipt of bids

- 13 **Amendment of Tender document:** At any time prior to the last date for receipt of bids, Institute may for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Tender document by an amendment.
- 14 Institute may at its own discretion extend the last date for the receipt of bids.
- 15 The bids shall be written in English language and any information printed in another language shall be accompanied by an English translation, in which case for the purpose of interpretation of the bid, the English translation shall govern.

6	The Institute reserves the right of accepting any bid other than the lowest or even rejecting all the bids. The decision of the Institute Purchase Committee is final in all matters of tender and purchase.
7	The bidder should give the following declaration while submitting the Tender.
8	Relaxation for Start-up, MSEs, Make in India will be as per GOI norms.
9	Any other details required may be obtained from the contact person (Buyer) given in the Notice Inviting Tender during the office hours.
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DECLARATION

I/we have not tampered/modified the tender forms in any manner. In case, if the same is found to be tampered/modified, I /we understand that my/our tender will be summarily rejected and full Earnest money deposit will be forfeited and I /we are/are liable to be banned from doing business with NITK, Surathkal and/or prosecuted.

Signature of the Bidder	:_	
Name and Designation	:.	
Business Address	:.	
Place:		Seal of the Bidder's Firm
Date:		

SECTION 2: CONDITIONS OF CONTRACT

- 1. The supplier should quote the rate for Door Delivery (FOR).
- The Rate should be quoted in INR only.
- 3. No custom duty exemption certificate will be provided from the institute.
- 4. NITK is a DSIR recognized research organization and hence eligible for concessional / exempted rate of GST @5% (For indigenous items).
- 5. The rate quoted should be on a unit basis. Taxes and other charges should be quoted separately, duly considering exemptions if any.
- 6. Rate quoted should be inclusive of Testing, commissioning and installation of equipment and Training.
- 7. Payment: No advance payment will be made. Payment will be made only after the supply of the item in good and satisfactory condition and receipt of performance security by the supplier.
- 8. Guarantee and Warranty period should be specified for the complete period conforming to section 3 of this tender document.
- 9. The period required for the supply and installation of the item should be specified conforming to section 3 of this tender document.
- 10. In case of dispute, the matter will be subject to Mangalore Jurisdiction only.

SECTION 3: SCHEDULE OF REQUIREMENTS, SPECIFICATIONS AND ALLIED DETAILS

[To be filled up by the Department / Center of NITK, Surathkal]

Item(s) Name to be procured : Twin Screw Extruder

Type (Equipment / Software / Furniture / Others) : Equipment

Brief Specifications of the Item(s) : As per Annexure "A"

(Attach Additional Sheet if necessary)

Quantity : One

Any other details / requirement : The bids must be submitted by OEMs or OEM supported single vendors only, with original authorization certificates from the OEMs. Vendors should have proven experience in setting up similar equipment in the last four years in the top 10 NIRF ranked (2020) engineering institutes. A proof for such experience (copies of orders/installation certificate) should be included in the technical bid.

Warranty Period required : 3 years

Delivery Schedule expected

after release of Purchase order

(In Weeks) : 12

EMD (in Rupees) : Rs. 40,000.00

Performance Security to be given

by Successful Bidder after release of : 5% of PO value

Purchase Order (in Rupees)

SECTION 4 - PRICE BID [To be used by the bidder for submission of the bid]

Ref	erence N	lumber:						Date:
	Sr. No.	Description of the Item and Specification	Qty. in Units	Unit Price (Rs.)	Discount %	GST (%)	Other charges if any (please specify details)	Total Price (Rs.)
	1							
	2							
 Delivery Mode: Delivery at NITK Surathkal, at the site only. Total Bid Price in the above column should be inclusive of all taxes and levies transport, loading, unloading, etc. Delivery Period:								
PAN No.:								
GS	GST Registration No.:							
Se	Seal and Signature:							

Note: Price Bid should be submitted in given format only.

Name & Business Address:

Place: Date:

SECTION 5: CONTRACT FORM

[To be provided by the bidder in the business letter head]

- 1. (Name of the Supplier's Firm) hereby abide to deliver them by the delivery schedule mentioned in section 3 tender document for the supply of the items if the purchase order is awarded.
- 2. The item will be supplied conforming to the specifications stated in the tender document without any defect and deviations.
- 3. Warranty will be given for the period mentioned in the tender document and service will be rendered to the satisfaction of NITK, Surathkal during this period.

Signature of the Bidder	:_		
Name and Designation	:_		
Business Address	:_		
Place: Date:	-	Seal of the Bidder's	Firm

BANK GUARANTEE FORMAT FOR PERFORMANCE GUARANTEE BOND

(To be typed on Non-judicial stamp paper of the value of Indian Rupees of One Hundred) (TO BE ESTABLISHED THROUGH ANY OF THE NATIONAL BANKS (WHETHER SITUATED AT MANGALORE OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT MANGALORE OR ANY SCHEDULED BANK (OTHER THAN NATIONALISED BANK) SITUATED AT MANGALORE. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED.)

To.

Registrar,
National Institute of Technology Karnataka,
Srinivasnagar P.O., Surathkal
Mangalore – 575025
LETTER OF GUARANTEE
WHEREAS National Institute of Technology Karnataka (Buyer) has invited Tenders vide Tender No
NOW THIS BANK HEREBY GUARANTEES that in the event of the said tenderer (seller) failing to abide by any of the conditions referred in tender document / purchase order / performance of the equipment / machinery, etc. this Bank shall pay to National Institute of Technology Karnataka, Surathkal on demand and without protest or demur Rs
We,
Notwithstanding anything contained herein:
1. Our liability under this Bank Guarantee shall not exceed Rs(Indian
Rupees only).
 This Bank Guarantee shall be valid up to
Yours truly,
Signature and seal of the guarantor:
Name of Bank & Address:
Date: Instruction to Bank: Bank should note that on expiry of Bond Period, the Original Bond will not be returned to the Bank. The
bank is requested to take appropriate necessary action on or after expiry of bond period.

BANK GUARANTEE FORMAT FOR EARNEST MONEY DEPOSIT / BID BOND

(To be typed on Non-judicial stamp paper of value Indian Rupees One Hundred)

(TO BE ESTABLISHED THROUGH ANY OF THE NATIONAL BANKS (WHETHER SITUATED AT MANGALORE OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT MANGALORE OR ANY SCHEDULED BANK (OTHER THAN NATIONALISED BANK) SITUATED AT MANGALORE. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED)

LETTER OF GUARANTEE

Ν	Registrar, lational Institute of Technology Karnataka, Grinivasnagar P.O., Surathkal
M	Mangalore – 575025
th a fr is b th p	IN ACCORDANCE WITH YOUR TENDER for the supply of, M/s
V d re p T a B N	Ve,
upor	n us a written claim or before (date).
	This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at(Address of local branch).
	Yours truly, Signature and seal of the guarantor: Name of Bank: Address: Date:
ınstı	ruction to Bank: Bank should note that on expiry of Bond Period, the Original Bond will not be returned to the Bank. The

bank is requested to take appropriate necessary action on or after expiry of bond period

Annexure-A

Detailed Technical Specifications

1	Extruder	25 mm Parallel Twin Screw Extruder (co-rotating) mounted on
		sturdy MS frame. Temperature capabilities upto 450°C.
2	Screw	25 mm dia., L/D 40: 1, Co-rotating with close intermesh
3	Screw -	Material must be Cr - Mo hot work alloy steel / H13.
	Material of	Screw must be designed with vent provision to release gases
	Construction	formed during the process.
4	Barrel	Split type barrel
5	Barrel -	Material must be Cr - Mo hot work alloy steel / H13. Water jacket
	Material of	must be provided for feed head cooling. Barrel must be provided
	Construction	with vent. Temperature capabilities upto 450°C.
6	Feeder	Twin Screw Volumetric feeder with minimum 0.50 HP VFD.
		Capacity upto 5 Kg/hr.
7	Heaters	Ceramic heaters in SS covers. Heating load upto 4 KW.
8	Hopper	In SS sheet, minimum capacity 1 Kg.
9	Drive	Minimum 7.5 HP variable speed through Heavy Duty Primary &
		Secondary Gear Box.
10	Panel	4 Zones PID Control Panel with PID controllers (accuracy ±1%),
		ammeters, indicating lamps, switches and other electrical outfits.
		Minimum 7.5 HP VFD in the panel.
11	Pressure	Measurements for Melt temperature and Melt pressure must be
	Transducer	provided with interlocking of drive with melt pressure and melt
		temperature.
12	Safety	Mechanical safety, electrical safety, electronic safety and emergency
	Measure	stop button must be provided.
13	Cooling Tank	In SS fitted on castor wheels. Tank size of minimum 150 mm width
		× 150 mm deep × 2000 mm Long with idlers and water inlet, outlet
		and overflow provision.
14	Water	Structure in MS for SINTEX overhead tank. Second SINTEX tank to
	Circulation	be kept on ground for water collection. TWO SINTEX tanks having
	System	minimum capacity of 150 liters. Minimum 0.12 HP 230 V water
		circulation pump (1 number), PVC flexible tubing and required
		fittings.
15	Output	Upto 5 Kg. / hr.
16	Warranty	3 years