

**Tender Fee: Rs.2,000/- (GST Inclusive)**

**(Non-Refundable)**

**विश्वेश्वरय्या राष्ट्रीय प्रौद्योगिकी संस्थान, नागपुर-440010 (भारत)**

**VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY, NAGPUR-440 010 (INDIA)**



TENDER DOCUMENT FOR

**Rolling Mill with reheating facility**

**TENDER NO.: VNIT/STR/FIST/2018-19/02**

**dt.10/08/2018**

**DATE OF ISSUE OF TENDER : 10<sup>th</sup> August 2018**

**LAST DATE OF SUBMISSION OF TENDER : 11<sup>th</sup> September UP TO 3.00 P.M.**

**DATE OF OPENING OF TENDER : 11<sup>th</sup> September 2018 at 3.30 P.M.**

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:



**VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY, NAGPUR- 440 010 (INDIA)**

**TENDER NOTICE Advt.No: VNIT/STR/FIST/ 2018-19/02**

**dt.10/08/2018**

Tenders in Sealed Envelope are invited for

**Rolling Mill with Reheating facility**

for Metallurgical & Materials Engg. Department

For complete details visit our website: [www.vnit.ac.in](http://www.vnit.ac.in). The bidders can download the tender form/ documents from **10/08/2018 to 11/09/2018** from Institute's website and send self addressed Envelope, invariably along-with bank draft of Rs.2,000/-+GST inclusive ( Rs. Two Thousand with inclusive of GST Only, **Non Refundable**) drawn in favour of The Director, VNIT, Nagpur, towards the cost of **TENDER ITEM FORM** to stores section, along with the cost of each tender form.

V.N.I.T will not be responsible for postal delay/ non-receipt of tender form/ D.D, sent through the post. Tender forms duly filled in all respect in only original prescribed format, supplied by the VNIT, duly super-scribed, should reach office of the Stores Officer, VNIT, Nagpur -440010, on or before **11/09/2018 upto 3.00 p.m**. The tenders are likely to be opened at **3.30 p.m** on the same day. The Director, VNIT reserves the right to accept or reject any or all tender offer.

**For Enquiry contact Stores Office, VNIT, Tele No : 0712-2801243, 2801369**



**विश्वेश्वरय्या राष्ट्रीय प्रौद्योगिकी संस्थान, नागपुर 440 010 (भारत)**

निविदा सुचना क : VNIT/STR/FIST/2018-2019/02

dt.10/08/2018

निम्नलिखित मदो की खरीदी हेतु मुहरबंद आमंत्रित है ।

**Rolling Mill with reheating facility**

for Metallurgical & Materials Engg. Department

संपूर्ण जानकारी के लिए इच्छुक विक्रेता संस्थान कि वेबसाइट [www.vnit.ac.in](http://www.vnit.ac.in) पर जा सकते हैं । इच्छुक विक्रेता निविदा प्रपत्र दि. **10.08.2018 से 11.09.2018** तक संस्थान कि वेबसाइट से डाउनलोड करके स्वयं के पते युक्त लिफाफा भेजकर विज्ञापन क्र. उल्लेख कर के निविदा मद प्रपत्र के मूल्य हेतु रु. २०००/- + GST inclusive (Non Refundable) बैंक ड्राफ्ट निदेशक, वी.एन.आय.टी., नागपुर, के साथ निविदा प्रपत्र भंडार अनुभाग में भेज सकते हैं ।

डाक द्वारा विलंब होने पर / निविदा दस्तावेज न मिलने पर/ D.D. न मिलने पर, वी.एन. आय. टी. (वि. रा .प्रो.सं) जवाबदेह नहीं होगा । संस्थान द्वारा प्रदत्त केवल वास्तविक निर्धारित प्रपत्र को पूर्ण रूप से भर कर दि. **11.09.2018** के अपरान्ह ३.०० बजे तक या इससे पूर्व भंडार अनुभाग (वि. रा .प्रो.सं) नागपुर में जमा करे। निविदा उसी दिन अपरान्ह ३.३० बजे खोली जाएगी । किसी भी या सभी निविदाओं को अस्वीकृत करने का अधिकार निदेशक का होगा।

**For Enquiry contact Stores office, VNIT, Tele No : 0712-2801243, 2801369**

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

**INVITATION of QUOTATION/TENDER for**  
**Rolling Mill with reheating facility**

Dear Vendor,

**Sub:** Tender Enquiry for Procurement of **Rolling Mill with reheating facility** for Metallurgical & Materials Engineering Department.

VNIT herewith invites tender / bid in sealed envelope for procurement of equipment **Rolling Mill with Reheating facility** under research project at the Metallurgical & Materials Engineering Department. Interested bidders are requested to submit the most competitive bid / quotation, details below:-

Description of the Goods / Equipment	Specifications	Unit / Quantity	Delivery Period & Place of Delivery	Price	Earnest Money Deposit (EMD) Amount in Rs	Installation
Please refer enclosed "QFA/Bill of Material" for complete details	As per QFA/Bill of Material	As per QFA/Bill of Material	<b>12 Weeks</b> from the Date of award of PO / Contract MM Engg. Department, VNIT, Nagpur	F.O.R. VNIT, Nagpur	<b>Rs.1,20000=00 (One Lakh Twenty Thousand only) in form of DD / Pay Order drawn on any of Nationalized Bank drawn in favor of the Director, VNIT, Nagpur [To be enclosed with the quotation in separate envelope]</b>	Good(s)/Equipment(s) to be / installed / commissioned at place of Delivery by the bidder at Free of Cost

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

**Schedule & Instructions for Tender/Bid Submission**

Tender Ref. No: VNIT/STR/FIST/ 2018-19/02

dt.10/08/2018

Item: Procurement of "**Rolling Mill with reheating facility**" for Metallurgical & Materials Engg. Department.

<b>Date of Issue</b>	:	10/08/2018
<b>Last Date of Submission</b>	:	11/09/2018 up to 3.00 pm
<b>Tender Fee</b>	:	Rs 2,000/- (GST Inclusive ) through DD drawn in favor of Director, VNIT, Nagpur
<b>Amount of EMD</b>	:	Rs.1,20000/- payable through DD drawn in favor of Director, VNIT, Nagpur
<b>Tender Opening Date &amp; Time</b>	:	11.09.2018 up to 3.30 pm

**Submission of Bid**

"TWO BID" viz. **Technical /Qualifying Bid** and **Price/Commercial Bid** Systems will be followed for this tender.

The Technical bid and the Financial bid should be sealed **in separate covers both duly super-scribed** and both these sealed covers are to be put **in a bigger cover** which should also be sealed and **duly super-scribed** with for **Rolling Mill with reheating facility**

**For Technical /Qualifying Bid** - Envelope to be super-scribed with "**TECHNICAL /QUALIFYING BID for Rolling Mill with reheating facility**" and should be submitted with prescribed Tender Fee & EMD and the associated supporting documents. Bill of material (without any price), indicating the compliance of technical specification should also be included with the qualifying bid. The Tender Fee & EMD DD to be put in separate envelope.

**For Price/Commercial Bid** - Envelope to be super-scribed with "**PRICE/COMMERCIAL BID for Rolling Mill with reheating facility**" The Price should be indicated in the prescribed format in the Price/Commercial Bid only. Any other format will lead to disqualification.

Both above sealed covers are to be put **in a bigger envelope** which should also be sealed and **duly super-scribed** with - Tender Enquiry for **Rolling Mill with reheating facility** "for MME Department.

The sealed envelope super-scribed with - Tender Enquiry **Rolling Mill with reheating facility** for Metallurgical & Materials Engg. Department, and to be sent to Dy. Registrar (Stores), VNIT, South Ambazari Road, Nagpur 440 010. Sealed envelope can also be submitted in person in the "**Tender / Quotation Box**" kept in The Stores Section. VNIT, Nagpur. The last date of submission is **11 September, 2018 by 3.00 P.M.**

Tender received after the last date / time of submission (as mentioned in tender notice) will not be considered and will lead to rejection.

Each envelope / cover should also indicate clearly the name and address of the bidder.

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

## **General Instructions, Terms & Conditions for the Bidder/Vendor**

### **1. Price Bid**

- a) The Prices should be quoted F.O.R. VNIT, Nagpur
- b) The price/rates quoted by the bidder shall be FIRM & FIXED and shall not be variable on any account.
- c) The price bid shall be valid for a period of 180 days from the date of opening
- d) The duties, taxes and other levies payable by the vendor shall be shown separately in bidding document. The basic price per unit should be separately mentioned in price bid in the given format.
- e) Duties & taxes viz. Custom, GST, Freight / Transportation, Packing & Forwarding, Insurance, Price Ex-Works etc. shall be indicated separately in the given format only.
- f) **The bidder is requested for special educational discount to the Institute.**
- g) The contract shall be for the full quantity as described in QFA/Bill of Material. Correction if any, shall be made out by crossing out, initialling, dating and re-writing.
- h) In case of price quoted in foreign currency, its conversion rate to INR on the date of opening the quotation/tender shall be considered

### **2. Technical Bid**

- a) The good/s offered must meet / comply with the Technical Specifications detailed in "**Technical/Qualifying Bid**" given in tender. In case of deviation if any, the firm's bid is liable to treated as non – responsive.
- b) VNIT has the sole discretion to accept or reject tenders / bids based on deviations, if any, from the technical specification.
- c) The price bids of the bidders who **do not conform** to the Technical Specifications & Eligibility Criteria given in Technical/Qualifying Bid will not be opened. The EMD of such bidder/s will be returned in due course.

### **3. Bid Evaluation**

The Purchaser will evaluate and compare the bids determined to be substantially responsive i.e. which

- a) Are properly signed, and
- b) Confirm to the general terms and conditions, special conditions, and technical specifications.

4. Each Bidder shall submit only one bid.

5. Bidder shall submit Firm's registration certificate, GST registration certificate, PAN, Delivery Period, Warranty/Guarantee, others etc with the bid

6. Bidder shall furnish the information in the prescribed format of Technical and Price Bid only (as applicable). Any other format will lead to disqualification. Each and every document submitted with Technical and Price Bid should be duly signed & stamped. **Incomplete or Conditional Bid(s) will not be accepted.**

7. **Tender Fee:** The Tender fee of **Rs. 2000/-** (GST Inclusive) in the form DD drawn in f/o Director VNIT, Nagpur should be sent along with technical bid. Firm/Vendor registered with the NSIC or MSME or SSI are having exemption from submission of tender fees. Firm/Vendor registration certificate in above respect will be essential to claim exemption.

8. **Earnest Money Deposit (EMD):** Bidder shall submit EMD in form of Demand Draft / Fixed Deposit Receipt / Bank Guarantee in favor of "**Director, VNIT Nagpur**" payable at Nagpur. The EMD to be submitted strictly in a separate envelope super scribed with Vendor / Firm's name & address & also on back side of DD with stamp. **Bid received without EMD will be summarily rejected.** Firms / Vendors registered with the NSIC or MSME or SSI are having exemption from submission of EMD. Firms / Vendors registration certificate in above respect will be essential to claim exemption.

9. **Specification and Make:** Bid should be given for the exact specification and make as shown in the tender enquiry against Sr. No. of the item / good. The bid which is not as per our tender enquiry will be treated as non responsive.

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

10. **Client List:** Bidder shall furnish information of Client list along with the order copy of similar good/s / equipment supplied to any IIT/NITs/ any Govt. Organization including details of price & all other charges / duties with the bid.
11. **ISI Certification:** Where ISI certification marked goods / items are available in market, procurement should generally be limited to goods with those or equivalent marking only.
12. **Authorization Certificate:** Bidder should enclose latest authorization certificate from their principal / original equipment manufacturer (OEM).
13. **Taxes:** GST or any other taxes as per Govt. norms shall be applicable from time to time. The % of Tax must be indicated separately in the bid.
14. **Good/s for Research Purpose: Concessional GST @ 5% will be applicable for purchase of goods viz Scientific & Technical instruments and other required for the Research purposes only.** This is in accordance of Govt. of India, Ministry of Finance Notification 45/2017-Central Tax (Rate) dated 14<sup>th</sup> November, 2017 and 47/2017-(Integrated Tax (Rate) dated 14<sup>th</sup> November, 2017, and VNIT Circular Ref.- VNIT/Acct/2017-18-GST/5390 dated 27<sup>th</sup> November, 2017. The description of goods is given in Govt. of India notification dated 14<sup>th</sup> November, 2017 mentioned above. A certificate in this respect will be issued to the vendor by the Institute.
15. **Taxes (For Import Item)** – Govt. of India Ministry of Science & Technology, DSIR, NewDelhi vide letter No TU/V/RG-CDE(190)/2016 dated 19/09/2016 has issued Certificate of Registration to VNIT, Nagpur for purposes of availing customs duty exemption in terms of Govt. Notification 51/96-Customs dated 23<sup>rd</sup> July, 1996 and this registration is valid up to 31.08.2021.VNIT is eligible to avail partially exemption for Customs Duty. Necessary documentation / exemption certificate for the same will be provided by the Institute wherever applicable. The supplier who has quoted the price in Rupees, but importing the items from the foreign country has to sign the High Sea Sale Agreement. Against High Sea Sales Agreement GST is not applicable; Custom Duty is applicable under Notification No. 51/96. The charges towards HSS agreement, if any, will have to be borne by the firm.
16. **Valid Period of Quotation/offer:** The bidder should clearly mention the valid period of quotation/offer in the bid. The quotation/offer shall be normally valid for a period of 180 days from the date of opening the tender.
17. **Rate Contract:** If the Good/s under enquiry is mentioned under the Govt. of India, DGS & D rate contract, Vendor shall supply the good/s at DGS & D contract rate as VNIT Nagpur is Government of India's Institute of National Importance under the Ministry of HRD.
18. **Installation:** Goods / Equipments shall be delivered / installed at concerned laboratory / department of VNIT by the Bidder at free of cost.
19. **Service centre:** Vendor shall provide the details of Service Centre in Nagpur or other region with name of contact person, their contact nos. & address.
20. **Payment :** Institute will release the full & final (100%) payment after delivery of items and its successful installation/ demonstration at concerned department / laboratories of VNIT Nagpur. The vendor will be required to submit the bills in triplicate along with delivery memo. Payment will be made through Crossed Cheque / ECS / NEFT / RTGS. For electronic payment mode, Firm / Company bank details on letter head will be required.
21. The quantity may increase / decrease as per requirement and payment will be made as per actual supply on the rates quoted by your firm.
22. Ref. No. of this tender / quotation enquiry must be mentioned on envelope / cover containing quotation.
23. Vendor shall enclose copies of all essential certificates / documents, failing which the bid is liable to be disqualified. Each document enclosed with bid should be duly self-attested with stamp/seal by the vendor, failing which submitted quotation will be treated as non-responsive.

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

24. Any certificate / document above submitted by the vendor is found to be incorrect / false/ forged/ fake, intentionally / un-intentionally at any stage, will lead to disqualification of vendor. Institute shall be free to take any action by blacklisting the vendor's firm.
25. Incomplete or conditional quotation/bid shall be summarily rejected.
26. **Educational Discount:** VNIT, Nagpur is a Govt. of India's Institute of National Importance engaged in education & research of National & International repute, the Vendors shall give / offer the special educational discount on quoted rates.
27. The vendor shall take full responsibility in case of any damage, loss or injury to any person / building or to any part thereof, and shall repair / and make good the loss, at his own cost.
28. **Annual Turnover:** Balance sheet, profit & loss account for the proceeding 3 financial years must be enclosed as an evidence of the financial requirement.
29. **Guarantee or Warrantee & Delivery of Goods**
- a) **Guarantee/ Warranty:** Normal comprehensive **Warranty/ Guarantee of 3 years** shall be applicable to the supplied goods. In case any part or whole of the equipment is found to be defective during the guarantee period, then the same will have to be replaced/repaired free of cost at our premises. The Vendor should guarantee that the good/s and its accessories supplied are complete in every respect and confirm to the technical specification mentioned in the Bill of Material
- b) **Performance Guarantee:** A performance guarantee of 10% of the total invoice value for good/s costing 10 Lacs & above, and valid for three year & three months covering the entire warranty period will be required from the vendor executing the purchase order. In case of violation of any of the conditions of guarantee / warranty (for Three years), the aforesaid performance guarantee shall be invoked by VNIT.
- c) **Delivery of Goods –**
- i) Vendor shall deliver/supply the goods within **8 Months** from the date of receipt of PO.
- ii) Goods shall be supplied / delivered by the bidder at the installation site in concerned laboratory/ department of VNIT, Nagpur at free of cost on working days. vendor shall strictly be adhered to above, failing which **Liquidated Damages Clause** will be applicable.
- iii) Goods should be securely, safely and adequately packed and dispatched at the risk of supplier. Purchase order Ref. No. & Date must be mentioned/should be kept in all packing.
- iv) Bidder shall deliver the goods in concerned laboratory/department perfectly before 4.00 pm on any working day/s. Delivery of goods will not be accepted on Saturdays, Sundays and Institute Holiday.
30. **Liquidated Damages Clause:**  
Penalty may be imposed as per P.O. terms and conditions. Goods should be securely, safely and adequately packed and dispatched at the risk of supplier and packing costs quoting this order reference should be kept in all package. Firms are requested to deliver the goods in our stores/section/department before 4.00 pm on any working day/s.
- i) The Director, V.N.I.T. Nagpur reserves the right to recover from the vendor, liquidated damages a sum equivalent to 1/2 percent of the price of the undelivered stores at the stipulated rate for each week or part thereof, during which the delivery of such stores, may be delayed subject to, a maximum limit in the case of an order exceeding Rs. One Lakh in value, upto **10** percent and in the case of an order not exceeding Rs. One Lakh in value upto **5** percent of the stipulated price, of the stores so undelivered.

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

- ii) To purchase elsewhere, on vendor's accounts, at his risk, the stores etc. undelivered, or other of a similar description, where others exactly employing with the particulars, are in the opinion of the Director, Visvesvaraya National Institute of Technology, Nagpur are not readily procurable, without cancelling the contract, in respect of consignment not yet due for delivery.
- iii) If the Supplier fails to deliver the material/goods within the stipulated delivery period, then Amount of EMD given by the Vendor shall be forfeited. In case of Supplier [registered with MSME/NSIC/SSI etc.] not required to submit the EMD, the Institute reserves the right to initiate action including reporting to principal Govt. authorities.
- iv) To cancel the contract.  
In the event of action being taken under (b) or (c) above, the vendor shall be liable to make good for any loss, which the Institute may sustain, by reason of higher price of stores, so purchased or the otherwise, howsoever :

The decision of the Director, Visvesvaraya National Institute of Technology, Nagpur shall be final as regards to the acceptability of stores supplied by the seller and the Director, Visvesvaraya National Institute of Technology, Nagpur, shall not be required to give any reason in writing or otherwise at any time for the rejection of stores.

**31. Award of Purchase Order / Work Contract**

- a) Notwithstanding the above, the Purchaser reserves the right to accept or reject any bid and to cancel the bidding process and reject all bids at any time prior to the award of contract.
- b) The Purchaser will issue the **Purchase Order / Work Contract** to the vendor / bidder whose bid has been determined to be substantially responsive and who has offered the lowest evaluated bid price. The terms of the accepted offer shall be mentioned in the purchase order.
- c) On receiving of order by vendor, the vendor shall deliver / supply / install the good/s at free of cost up to installation site of concerned department of VNIT, Nagpur, failing which cost of delivery / installation will be deducted from the Vendors bill payment.
- d) After receiving of the Purchase Order / award of contract, it will be Vendor's obligation / responsibility to supply or delivery of the good/s as per specifications within specified time schedule.
- e) Expression of vendor's inability for the supply or delivery of good/s as per specifications will lead to cancellation of PO and EMD (as submitted) will be forfeited. Further Institute may also disqualify / debar the Vendor from participating in any of its future enquiries for a period as recommended by institute authorities.

**32. Post Delivery / Installation Warranty & Support:**

- a) The Vendor should have their office or authorized representative / dealer in India. They should mention in detail their support infrastructure by which minimum downtime will be ensured.
- b) The Vendor shall submit details of Service Centres / Factory and information on service support facilities that would be provided after warranty period [Form].
- c) The Vendor will have to give undertaking that in case of any breakdown / damages during warranty period the goods / equipment will be restored back to its original status within **2 Weeks.**

**33.** Any corrigendum / amendment regarding this tender enquiry will be issued on institute website only. [<http://stores.vnit.ac.in>]

**34.** Director, VNIT, Nagpur reserves the right to accept or reject or cancel any or all enquires or bids/PO at any stage without assigning any reason thereof.

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:



35. **For any disputes, the place of jurisdiction shall be Nagpur, Maharashtra (India) only**
36. **It will be presumed that the vendor has read carefully all the above mentioned instructions, terms & conditions and abide by same.**
37. All Communication are to be addressed to –  
**Director**  
Visvesvaraya National Institute of Technology,  
South Ambazari Road,  
Nagpur 440 010  
Maharastara (India)
38. We look forward to receiving your bids and thank you for your interest in this project.

**SD/-**

**Dean (P & D)  
VNIT, Nagpur**

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

**TECHNICAL/  
QUALIFYING BID**

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

**Technical Specifications and Eligibility Criteria**

[A] **Technical Specifications**

**QUOTATION FORMAT ANNEXURE (QFA)**

REF NO.: VNIT/STR/FIST/ 2018-19/02

dt.10/08/2018

**Rolling Mill with reheating facility**

S N	Item Specification	Qty																																																															
1	<p style="text-align: center;"><b><u>Rolling Mill with reheating facility</u></b></p> <p><b><u>TECHNICAL SPECIFICATIONS OF ROLLING MILL (LABORATORY MODEL)</u></b>  <b><u>TECHNICAL REQUIREMENTS</u></b>                      The configuration (Hot Rolling &amp; Cold Rolling) of Rolling Mill (Laboratory Model) should be assembled in a Single Housing or separate housing for respective Rolling.  <b>(A) <u>HOT ROLLING</u></b>                       Mill will run with only two working rolls as 2 Hi rolling mill and it should be able to perform standard hot rolling process and procedure satisfactorily.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sr. No</th> <th colspan="2" style="text-align: center;">Technical Specification</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Roll Width</td> <td>200 mm or above.</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Working Roll Diameter</td> <td>200 mm or above.</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>Input thickness</td> <td>Should be 10 mm or higher.</td> </tr> <tr> <td style="text-align: center;">4.</td> <td>Input width</td> <td>150 mm or less.</td> </tr> <tr> <td style="text-align: center;">5.</td> <td>Finished thickness</td> <td>Should be less than or equal to 2 mm.</td> </tr> <tr> <td style="text-align: center;">6.</td> <td>Reduction per pass</td> <td>Should be more than or equal to 10%.</td> </tr> <tr> <td style="text-align: center;">7.</td> <td>Materials to be rolled</td> <td>Minimum materials to be rolled (Steel, Al, Mn, Cu, Brass, Ti and their alloys). 400MPa or higher at hot rolling temperature.</td> </tr> <tr> <td style="text-align: center;">8.</td> <td>Roll separating force</td> <td>50 Tonnes (min) or higher.</td> </tr> <tr> <td style="text-align: center;">9.</td> <td>Roll Material</td> <td>Should be H13 or better with hardness of 55 HRC or higher.</td> </tr> <tr> <td style="text-align: center;">10.</td> <td>Roll peripheral Speed</td> <td>1MPM (min) -10 (MPM) or better.</td> </tr> <tr> <td style="text-align: center;">11.</td> <td>Roll neck bearing assembly</td> <td>Suitable anti-frictional roller bearings with suitable lubrication.</td> </tr> </tbody> </table> <p><b>(B) <u>COLD ROLLING</u></b>                      Mill will run with 4 rolls, two as working rolls and two as back up rolls and it should be able to perform standard cold rolling process satisfactorily.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sr. No</th> <th colspan="2" style="text-align: center;">Technical Specification</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Backup Roll Diameter</td> <td>200 mm or above.</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Roll Width</td> <td>200 mm or above.</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>Working Roll Diameter</td> <td>75 mm or above.</td> </tr> <tr> <td style="text-align: center;">4.</td> <td>Input thickness</td> <td>Should be 8 mm or more.</td> </tr> <tr> <td style="text-align: center;">5.</td> <td>Input Width</td> <td>Should be 150mm or less.</td> </tr> <tr> <td style="text-align: center;">6.</td> <td>Finished thickness</td> <td>Should be ≤ 0.5mm in multiple passes.</td> </tr> <tr> <td style="text-align: center;">7.</td> <td>Reduction per pass</td> <td>Should be 10% per pass.</td> </tr> <tr> <td style="text-align: center;">8.</td> <td>Materials to be rolled</td> <td>Minimum materials to be rolled (Steel, Al, Mn, Cu, Brass,</td> </tr> </tbody> </table>	Sr. No	Technical Specification		1.	Roll Width	200 mm or above.	2.	Working Roll Diameter	200 mm or above.	3.	Input thickness	Should be 10 mm or higher.	4.	Input width	150 mm or less.	5.	Finished thickness	Should be less than or equal to 2 mm.	6.	Reduction per pass	Should be more than or equal to 10%.	7.	Materials to be rolled	Minimum materials to be rolled (Steel, Al, Mn, Cu, Brass, Ti and their alloys). 400MPa or higher at hot rolling temperature.	8.	Roll separating force	50 Tonnes (min) or higher.	9.	Roll Material	Should be H13 or better with hardness of 55 HRC or higher.	10.	Roll peripheral Speed	1MPM (min) -10 (MPM) or better.	11.	Roll neck bearing assembly	Suitable anti-frictional roller bearings with suitable lubrication.	Sr. No	Technical Specification		1.	Backup Roll Diameter	200 mm or above.	2.	Roll Width	200 mm or above.	3.	Working Roll Diameter	75 mm or above.	4.	Input thickness	Should be 8 mm or more.	5.	Input Width	Should be 150mm or less.	6.	Finished thickness	Should be ≤ 0.5mm in multiple passes.	7.	Reduction per pass	Should be 10% per pass.	8.	Materials to be rolled	Minimum materials to be rolled (Steel, Al, Mn, Cu, Brass,	
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Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

		Iron & their alloys). 800MPa or higher at ambient temperature.
9.	Roll separating force	50 Tonnes (min) or higher.
10.	Roll material	Should be of D series steel or with suitable higher hardness material.
11.	Roll Peripheral Speed	1 MPM (min) - 10 MPM (max) or better.
12.	Roll neck bearing assembly	Suitable anti-frictional roller bearings with suitable lubrication.

**(C) CONFIGURATION**

Sr. No	Technical Specification	
1.	Rolling Mill stand	Should be able to accommodate rolls in 2Hi or 4Hi configuration for hot or cold rolling. Mill stand should be designed to perform the rolling process satisfactorily .
	Mill Housing	It should be made of cast steel or better material with adequate strength to withstand rolling stresses. Windows should be designed to accommodate roll neck bearing chocks or equivalent.
2.	Roll neck bearing chocks & bearing assembly	Chocks should be made of cast steel or better materials.
		Should be machined to mount roll supporting antifriction bearings. Replaceable wear plates should be fixed on the contact area between housing and chocks.
		All bearings should be antifriction bearing with grease lubrication.
		The complete assembly should have the facility to transverse up & down in the window housing through screw and nut arrangement <b>operated by motor.</b>
		Should have complete assembly, gear system and mechanism for transverse up and down movement.
3.	Roll separating force (RSF) measurement	Load cells should be provided at appropriate location for monitoring of the RSF. 2 Nos. minimum. The accuracy should be +/- 2% of the output.
4.	Complete configuration of the Hot & Cold Rolling Mill should have Drive Gear Box, Electric Motor, all electrical controls, etc. and other systems with adequate capacity to perform the complete process satisfactorily.	
5.	Roll changing system, Materials Feeding and materials handling systems with adequate capacity should be provided to perform its functions/rolling process satisfactorily.	
	Shear machine should be provided for cutting of input materials as per the required length	
6.	Should Geared motor of adequate capacity with features like all protection, all operation at remote desk, reverse operation facility, auto tuning facility, adjustable current limit setting and speed control by varying voltage and frequency.	
7.	Operator control stations with controlling all operations of mill should be provided with indicators.	
8.	Necessary safety features like Guards, Emergency stops buttons and other safety arrangements should be provided wherever it required for assuring proper safety in terms of Mechanical, Electronic and Electrical parameters.	
9.	Should provide Hand held pyrometer for temperature measurement, Hydraulic power pack or any other arrangement for roll balancing, lubrication oil & grease, high quality electrical cables for connections and necessary tools required for operation should be supplied along with the rolling mill.	
10	Essential mechanical and electrical spares to be provided along with hot and cold rolling mill.	

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Date:

11	Equipment layout/Engineering drawing, schematic diagram and procedure of process, electrical power distribution diagram and operating manuals to be provided
12	Detailed drawing of the mill should be attached with the quotation.
<p><b>(D) AUXILLARY EQUIPMENTS</b></p> <ul style="list-style-type: none"> <li>- <b>Roll changing system</b> should be provided in the form of trolley or another suitable arrangement. A suitable crane should be provided to lift the rolls and assist in changing the cold rolling system to hot rolling system. Suitable material feeding system should be provided to ensure smooth rolling operation.</li> <li>- <b>Shear cutting machine</b> should be provided for cutting of input material to required length.</li> <li>- <b>Muffle furnace</b> should be supplied to heat the material to the required rolling temperature. It should be electrically heated and the maximum temperature should be 1200 deg C. Heating elements should be silicon carbide supported on ceramic tubes. Chamber size should be 600 mm (W) x 150 mm (H) x 300 mm (L) or more. The furnace should have a Honeywell make PID controller or better. Power rating: 15 kW and thermocouple should be platinum rhodium R type.</li> <li>- <b>Hand held pyrometer</b> for temperature measurement during rolling.</li> </ul> <p><b><u>TERMS AND CONDITIONS</u></b></p> <ol style="list-style-type: none"> <li>1) Should be able to work with Indian Power conditions (Single phase or Three phase).</li> <li>2) Should have supplied minimum 3 rolling mills of similar or higher configuration in last 2 years to institute/industry of repute. Details of client reference (address, email-id along with direct phone number) should be provided to confirm the same.</li> <li>3) Details of civil and electrical requirements should be provided in advance to make necessary arrangements at VNIT Nagpur for its installation.</li> </ol>	

**Eligibility Criteria**

- i) The Bidder should be OEM or authorized representative / supplier of the OEM. In case of authorized representative/supplier, the authorization letter from the OEM is essential.
- ii) The Bidder should be able to supply / manufacture the good/s of the most recent series models incorporating the latest developments and meeting technical specifications given in this tender.
- iii) The Bidder must have supplied & satisfactorily installed / commissioned the similar Good/s as specified in "QFA/Bill of Material" in the preceding 3 years (2015-16, 2016-17, 2017-18) period. Please attach necessary documents in support of above.
- iv) The Bidder shall furnish brief write-up, backed with adequate data, explaining firm's present capacity and experience (both technical and commercial) for the manufacture and supply of the required Good/s within the period specified for time of completion after meeting all their current commitments.
- v) The bidder shall clearly confirm the manufacturing unit / factory information and their in-house testing facilities and same will be available for the inspection.

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

**FORM 1****Check List for TECHNICAL / QUALIFYING BID**

Ref No. VNIT/STR/FIST/2018-19/02

dt.10/08/2018

Read the **Instructions** below:

Please fill in details of certification / compliance enclosed in respect of this tender enquiry in the following format (Yes / No) only. **Any other format will lead to disqualification.** Any reference to product brochure without filling **appropriate** entry as “**Yes/No**” in the column will lead to disqualification.

If there is any deviation from the required specification then, it should be clearly specified in the “**Remarks**” column and appropriate documentary proof, may be enclosed without fail. **Please arrange all enclosures in following order only**

Sr. No.	Requirement	Details of Certification Enclosed Mention - YES/NO	Page No.	Remarks
1.	EMD of ₹ 1,20,000=00			
2.	Latest Manufacturer's / OEM Authorization Letter			
3.	Service Centre Details with Address & Telephone Nos.			
4.	Order Copies of preceding 3 financial Years (2015-2016,2016-17,2017-2018) duly certified, indicating details of Order Value executed (Enclose Proof)			
5.	Product Literature / Information Brochure			
6.	Preferably Vender / OEM should have ISO 9000 or similar Certification for Quality			
7.	Certificate of Incorporations			
8.	Registration Certificate			
9.	Company Profile			
10.	Customer List / Client List with contract details			
11.	Technical Manpower Employed with Qualifications & Experience & their tenure			
12.	PAN			
13.	GST Registration Certificate			
14.	Methodology of Warranty Support			
15.	Brief History of the Company/ Firm with credentials if any			
16.	Warranty/ Guarantee (3 years)			
17.	Copy of performance reports from customers			

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

**FORM 2**

**MANUFACTURERS (OEM) AUTHORIZATION LETTER**

REF No.

Date

To

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Dear Sir,

We ..... who are established and reputable manufacturers of ..... (*Name and description of goods offered*) having factories at ..... (*address of factory*) do hereby authorize M/s ..... (*Name and address of Agent*) to submit a bid, and sign the contract with you for the goods manufactured by us against the above IFB No. VNIT/STR/. We hereby extend our full guarantee and warranty of 3 years for the goods and services offered for supply by the above firm against this IFB.

Yours truly,

(Name with Stamp/Seal of Competent Authority)

**Note:** This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. It should be included by the Bidder in its bid.

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

**FORM 3**

**SERVICE SUPPORT DETAILS**

LOCATION OF NEAREST SERVICE CENTER:-

Phone No.	Fax / Telex No.	Status of Office working Days & Hours	Number of Engineers	Value of Min. Stock Available at all times	List of Models & Types of Equipment under Service during last 2 years	Name of the Organization where the equipment are currently under AMC/ Service

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:



**FORM 4**

**PERFORMANCE STATEMENT**

**(From 2015-18 onwards)**

Name of the Firm \_\_\_\_\_

Order placed by (Complete Address of Purchaser)	Purchase Order No. & Date	Description and Quantity of ordered equipment	Value of order	Date of completion of delivery		Remarks indicating Reasons for late delivery, if any	Has the equipment been satisfactorily Functioning (Attach a certificate from the Purchaser /Consignee)
				As per Contract	Actual date of supply		
1	2	3	4	5	6	7	8

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

**FORM 5**  
**CAPABILITY STATEMENT (CS)**

1. Name & Address of the Bidder:

2. Phone:

3. Classification

- (1) Manufacturer : Y/N
- (2) Authorized Agent: Y/N
- (3) Dealer : Y/N
- (4) Other (Please specify)

4. Plant:

Location:

Description, Type & size of building:

Is property on lease or free hold? If on lease, indicate date of expiry of lease in such case:

5. Type of equipment(s) manufactured and supplied during last 2 years.

Name of Equipment	Capacity/Size	Quantity Manufactured	Nos. of Purchase Orders on hand

6. Types of Equipment(s) supplied during last 2 years other than those covered under 5 above.

Name of Equipment	Capacity / Size & Model	Name of Manufacturer & Country of origin	Total Nos. of Equipment(s) Supplied in India	No. of orders on hand

7. Turnover for similar equipments sold in last two years:

8. Details of Testing facilities available :

- i) List of testing equipment available.
- ii) Give details of type tests, which can be carried out using testing equipment.
- iii) Details of the staff available for testing.

Personnel/Organization: Give Organization chart for following indicating clearly the No. of employees at various levels.

Quality assurance	
Production	
Marketing	
Service	
Spare parts	
Administrative	

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

9. Nearest Service Centres to each of the destination of installations:

Location	
Phone No.	
Year of Establishment	

10. Details of Organization (Enclose details of Organization Chart & Span of Control) at Service Centre:

No. of skilled employees	
No. of Unskilled employees	
No. of Engineering employees	
No. of Administrative employees	
List of special repair/workshop Facilities available (Specify Details of Equipments And Test(s) those which are performed)	
The storage space available for spare parts (Sq.m)	
Value of minimum stock of spares available at all the service centre in Respective currency	
Value of the models/types by number of equipment serviced by the centre in the last twoyears	

11. Enclose details of services provided duly authenticated by certification from the user in each case  
 12. Names of two buyers to whom similar equipment was supplied in the past and to whom reference may be made by the Purchaser regarding the bidder's technical and delivery ability.

**Buyer 1; Address & Contact No**

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**Buyer 2; Address & Contact No**

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Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

**PRICE/  
COMMERCIAL BID**

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

**PRICE / COMMERCIAL BID**

REF No.: VNIT/STR/FIST/2018-19/02

dt.10/08/2018

Item : **Rolling Mill with reheating facility** for Metallurgical & Materials Engineering Department

Sr. No	Item with Specifications	Qty	Basic Rate P.U. (Rs.)	GST % & Amount P.U. (Rs.)	Total Amount P.U. (Rs.)
1	<b><u>Rolling Mill with reheating facility</u></b> (Specification as per enquiry)				
	Educational Discount				
	Total Cost F.O.R. V.N.I.T. Nagpur				

[Note - The bidder should offer / quote special educational discount for the Institute.]

**[A] DUTIES & TAXES (if applicable):**

1. Custom Duty if any : \_\_\_\_\_
2. GST @ \_\_\_\_\_% : \_\_\_\_\_
3. Freight/ Transportation : \_\_\_\_\_
4. Insurance @ \_\_\_\_\_% : \_\_\_\_\_
5. Packing & Forwarding : \_\_\_\_\_
6. Others, (if any) : \_\_\_\_\_
7. **Final Offer (Including Installation Charges & Taxes) FOR VNIT Nagpur** : \_\_\_\_\_

**[B] Others Details (Enclosed)**

1. EMD No. & Amount : No.: \_\_\_\_\_ Dt. \_\_\_\_/\_\_\_\_/2018
2. Specification as per Requirements : Yes / No
3. Warranty/Guarantee : \_\_\_\_\_ Years
4. Delivery period : \_\_\_\_\_
5. Firms Registration Certificate : \_\_\_\_\_
6. Authorization Certificate : \_\_\_\_\_
7. Details of client lists : \_\_\_\_\_
8. GST Registration Certificate : \_\_\_\_\_
9. PAN / GST No. : \_\_\_\_\_
10. Others, (if any) : \_\_\_\_\_

**Note: Price/Commercial Bid & other details should be furnished as per Institute's prescribed format if failed, the Price / Commercial Bid is treated as unresponsive and will be disqualified.**

The Firm/Company agrees to supply the above items for **final offer price (Rs. \_\_\_\_\_/- [In Words Rs.....])** inclusive of duties & taxes at [A] above within the period specified in the Invitation for Quotations. We also confirm that the normal commercial warrantee /guarantee of **36 months** shall apply to the offered goods.

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

**FORM 6**

**FORMAT OF QUOTATION / BILL OF MATERIAL**

REF No.: VNIT/STR/FIST/2018-19/02

dt.10/08/2018

Sr. No.	Description of Goods	Specifications	Qty.	Unit	Quoted Unit Rate in Rs. /	Total Amount	
						In Figures	In Words
	Please refer enclosed "QFA/Bill of Material" for complete details.	As per "QFA/Bill of Material"					
						GST % GST Amt.	

**Gross Total Cost : Rs. ....**

We agree to supply the above Goods/Equipment/Software in accordance with the technical specifications for a total contract price of ..... (In figure) (In word Rs ..... ) within the period specified in the Invitation for Quotations. We also confirm that the normal commercial warrantee /guarantee of **36 months** shall apply to the offered goods.

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date:

**FORM 7**

**PRICE SCHEDULE**

REF No.: VNIT/STR/FIST/2018-19/02

dt.10/08/2018

1	2	3	4	5					6	7	8
Schedule No	Item Description	Country of Origin	Quantity & Unit	Price for each unit					Unit Price	Total Price	GST (%) & Amount payable
				Ex-factory, Ex-ware House, Ex-Show Room, Off the shelf	Custom Duty, as per actual	Packing & Freight	Inland transportation insurance and other local Costs Incidental to delivery	Incidental services			(To be mentioned clearly as Extra)
				(a)	(b)	(c)	(d)	(e)	a+b+c+d+e	4 x 6	

**Note:** In case of discrepancy in unit price and total price, the unit price shall prevail.

Total Bid Price in figure \_\_\_\_\_

In word \_\_\_\_\_

Signature of Bidder \_\_\_\_\_

Name \_\_\_\_\_

Business Address \_\_\_\_\_

Place:

Date:

Signature of Bidder  
(Authorized Signatory)

Stamp:

Date: