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एन.एन.आई.टी. अलहाबाद  
 इलाहाबाद—211004 (भारत)  
**Motilal Nehru National Institute of Technology Allahabad**  
 Allahabad-211004 (India)  
 An Institute of National Importance as Declared by NIT Act, GOI, 2007

**INVITATION FOR SUPPLY OF SURFACE ROUGHNESS MEASURING INSTRUMENT**  
**(For Contracts value estimated to cost less than Rs.25 lakhs)**

1	<b>Closing Date/Time for submission of Quotations</b>	28/10/2016; 15:00 Hrs.
2	<b>Opening Date/Time of Quotations</b>	28/10/2016; 15:30 Hrs.
3	<b>Quotations to be submitted at</b>	The Office of Faculty-In-charge (Purchase) M.N.N.I.T. Allahabad, Allahabad-211 004 (U.P.)
4	<b>Place of opening of quotations</b>	The Office of Faculty-In-charge (Purchase) M.N.N.I.T. Allahabad, Allahabad-211 004 (U.P.)
5	<b>Tender Fee</b>	Rs. 200.00 (Non-refundable), in form of a Demand Draft drawn in favor of DIRECTOR, MNNIT Allahabad.
6	<b>Earnest Money Deposit (EMD)</b>	<b>Rs. 30,000/- (Rs. Thirty Thousand only)</b> , in form of FDR/Bank guarantee, from any of the Commercial Banks, drawn in favour of "Director, MNNIT Allahabad" payable at Allahabad, and valid for a period of 45 days beyond the final bid validity period

To,

You are invited to submit your most competitive quotation for the following items. The quotation should be sent directly to the undersigned under Sealed Cover marked "Quotation Reference No., Date", and "The Due Date:

Sl. No.	Description of item with Specification	Quantity
1.	<b>Surface Roughness Measuring Instrument</b> (Detailed specifications attached at <b>Annexure-B</b> )	01 No.

The sealed tenders must be submitted in the Office of the Faculty In-charge (Purchase), on or before **due date & time as mentioned above** in the office of the undersigned, in the presence of bidder's authorized representatives, who choose to attend and shall sign a register evidencing their attendance.

The tender/quotations NOT submitted in the prescribed format or Incomplete in any respect will be outrightly rejected.

Faculty in-Charge (Purchase)  
 MNNIT Allahabad

## **GENERAL TERMS & CONDITION (GCC)**

1. **Bid Price:**
  - (a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.
  - (b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
  - (c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
  - (d) The prices should be quoted in Indian Rupees only for indigenous items. For items/imported items, the prices should be quoted in foreign currency.
  - (e) Each bidder shall submit only one quotation.
2. **Validity of Quotation:**

Quotation shall remain valid for a period not less than **120 days** after the deadline date specified for submission.
3. **Evaluation of Quotations:**
  - (a) The purchaser will evaluate and compare the quotations determined to be substantially responsive, i.e., which
    - (i) are properly signed; and
    - (ii) conform to the terms and conditions, and specifications.
    - (iii) will be with tender fees, and EMD required, if any.
  - (b) The Quotations would be evaluated separately for each item.
4. **Award of Contract:**

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

  - Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
  - The bidder whose bid is accepted will be notified for the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order if falls under Govt. purchase rules, i.e., GFR-2005
5. **Formats and Signing of Bid:**
  - Each & every pages of the submitted bid must carry the page numbers.
  - The bidders are not allowed to make additional and alteration in the tender document, any additions and alteration in the tender document, any additions and alterations shall be at bidder's risk. Conditional/modified tender are liable to be rejected.
  - The tender/quotations NOT submitted in the prescribed format or Incomplete in any respect will be outrightly rejected.
  - If the bid submitted without compliance sheet details of items the bid will be outrightly rejected.
  - The bid shall be typed or written in indelible ink and shall be signed by the Bidder/Tenderer or a person or persons duly authorized to bind the Bidder/Tenderer to the Contract. All pages of the bid, except for unamended printed literature, shall be initialed by the person or persons signing the bid.
  - Any interlineations, erasure or overwriting shall be valid only if they are initiated by the persons or persons signing the bid.
  - The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.
6. **Payment condition:** 100% Payment shall be made only after satisfactory delivery of items in good condition and receive satisfactory report by competent authorities after completion of the works. Advance payment is not permitted.
7. Normal Commercial warranty/ guarantee shall be applicable to the supplied goods.

## **INSTRUCTIONS/GUIDELINES TO BIDDERS (ITB)**

1. Bidders who had supplied the Government departments, PSUs/NITs/IITs/IIITs and reputed Institutions and Organizations should only apply.
2. The bidder should enclose the cential list with contact address along with Phone/Fax for reference, for the quoted item.
3. Please quote the prices of F.O.R. Motilal Nehru National Institute of Technology Allahabad, Allahabad.  
**[NOTE: Custom/Excise Duty Exemption Certificate will be provided by MNNIT Allahabad after receiving your request letter for the same.**
  - **MNNIT Allahabad avails Custom Duty Exemption in terms of Government Notification N. 51/96-Customs dated 23 July, 1996, and Central Excise Duty Exemption in terms of Government Notification N. 10/97-Central Excise dated 01 March, 1997, as amended from time to time.**
4. The Bidders are requested to submit their Quotation with EMD in the form of Demand Draft/ Bank Guarantee/ Short term Deposit of the cost of items in favor of "The Director, MNNIT, Allahabad" payable at Allahabad. Quotation without EMD will be summarily rejected. EMD's of all Bidders will be returned back after the purchase order /contract agreement is issued to successful bidder.
5. Successful Bidders must have to submit the performance security @10% of the purchase order or contract value and it will be retained up to the warranty period.
6. The bidder should enclose relevant documents wherever necessary to substantiate his eligibility.
7. The Institute is eligible for and can provide necessary documentation for Custom/Excise and Octroi exemption on demand, if permitted under rule.
8. Motilal Nehru National Institute of Technology Allahabad, Allahabad, reserves the right to reject, accept any or whole or part of any of the tender without assigning any reason thereof and no claim will be heard. In case of dispute, the decision of The Director, MNNIT, and Allahabad will be final and binding.
9. If the successful bidder is not able to supply the goods items within the delivery date specified in the purchase order, the purchase order will be automatically treated as cancelled after expiry of delivery date period. The vendor will have to submit an undertaking in this regard that this condition is acceptable to him. In case of extra ordinary circumstances the vendors must send a request for extension of validity of purchase orders, with proper justification prior to the expiry of validity date for consideration.
10. In case of sophisticated items, an on-site training needs to be provided with no extra cost.
11. The quotation must be accompanied by leaflets/operation manuals/books etc.
12. Wherever applicable the vendors must quote the branded /desired items.

CHECK LIST  
(ON THE LETTER HEAD OF THE BIDDER)

The Bid will be the compilation of following documents, along with required supporting documents. No document in support of minimum eligibility criteria will be accepted / entertained after opening of tender.

Sl. No	Documents
1.	Cover letter by bidder (On the Letter Head of the Bidder)
2.	Tender Fee
3.	Earnest Money Deposit (EMD), if required
4.	Cliental List for quoted item
5.	<b>Annexure-A</b> : Bid Proposal Sheet (On the Letter Head of the Bidder)
6.	<b>Annexure-B</b> : Technical Specifications (On the Letter Head of the Bidder)
7.	<b>Annexure-C</b> : Compliance of bidder with reference to the equipment (On the Letter Head of the Bidder)
8.	<b>Annexure-D</b> : Proforma for direct payment/transfer (On the Letter Head of the Bidder)
9.	<b>Annexure-E</b> : PRICE BID (On the Letter Head of the Bidder)

ANNEXURE-A

BID PROPOSAL SHEET  
(ON THE LETTER HEAD OF THE BIDDER)

To  
Faculty In-charge (Purchase)  
MNNIT Allahabad, Allahabad

**Subject:** Supply of “**Surface Roughness Measuring Instrument**” at MNNIT Allahabad, Allahabad.

Dear Sir,

We, the undersigned Tenderers, having read and examined in detail the specifications as specified in this document in respect of Supply of “**Surface Roughness Measuring Instrument**” at MNNIT Allahabad, Allahabad do hereby propose to supply the required products and services.

Tender No.				
Tender Fees submitted		YES / NO (Please strike off whatever is not applicable)		
Amount	Mode	Date of Issue	Name of Bank	Valid up to
	Demand Draft			
EMD submitted		YES / NO (Please strike off whatever is not applicable)		
Amount	Mode	Date of Issue	Name of Bank	Valid up to
	Demand Draft			

- (i) **ADDITIONAL PURCHASE/WORK ORDER:** We understand that the MNNIT Allahabad, Allahabad, in case of the requirements may also place repeat purchase order/work order on the company. In such cases, we shall accept and execute all the purchase/work order placed on us by MNNIT Allahabad, Allahabad.
- (ii) **BID PRICING:** We further declare that the prices stated in our proposal are in accordance with your Terms & Conditions in the bidding document. We further understand that the quantities as specified in this Tender may increase or decrease at the time of Award of Purchase Order as per the requirements of MNNIT Allahabad, Allahabad.
- (iii) **QUALIFYING DATA:** We confirm that we satisfy the qualifying criteria and have attached the requisite documents as documentary proofs. In case you require any further information/documentary proof in this regard during evaluation of our bid, we agree to furnish the same in time to your satisfaction.
- (iv) **CONTRACT PERFORMANCE SECURITY:** We hereby declare that in case the contract is awarded to us, we shall submit the performance Guarantee Bond in the form of Bank Guarantee for the amount of 10% of the total order value.
- (v) **PAYMENT TERMS:** We hereby declare that in case the contract is awarded to us, we agree with payment terms specified in the tender documents.
- (vi) **CERTIFICATE AND DECLARATION:**
  - a) I/We certify that no addition/modification/alteration has been made in the Original Tender Document. If at any stage addition /modification /alteration is noticed in the Original Document, I/We will abide by the terms and conditions contained in the original tender document, failing which MNNIT Allahabad reserves the right to reject the tender and/or cancel the contract
  - b) It has been certified that all information provided in tender form is true and correct to the best of my knowledge and belief. We hereby declare that our proposal is made in good faith, without collusion or fraud. No forged /tampered document(s) are produced with tender form for gaining unlawful advantage. We understand that MNNIT Allahabad is authorized to make enquiry to establish the facts claimed and obtained confidential reports from clients.
  - c) In case it is established that any information provided by us is false / misleading or in the circumstances where it is found that we have made any wrong claims. Further MNNIT Allahabad is also authorized to blacklist our firm/company/agency and debar us in participating in any tender/bid in future.
  - d) I / We assure the Institute that neither I /We, nor any of my /our workers, will do any act which is improper / illegal during the execution in case the tender is awarded to us.
  - e) I / We assure the Institute that I / We will NOT be outsourcing any work specified in the tender document, to any other firm.
  - f) Neither I / We, nor anybody on my /our behalf will indulge in any corrupt activities /practices in my /our dealing with the Institute.
  - g) Our Firm / Company / Agency is not been blacklisted or banned by any Govt. Department, PSU, University, Autonomous Institute or any other Govt. Organization.
  - h) I/We certify that, I have understood all the terms & conditions (GCC and ITB etc.), as indicated in enquiry of the tender document, and hereby accept all the same completely.
  - i) I/We, further certify that I/We, possess all the statutory /non-statutory registrations, permissions, approvals, etc., from the Competent Authority for providing the requisite services,
  - j) We understand that you are not bound to accept the lowest or any bid you may receive.
  - k) I/We hereby declare that this tender on acceptance communicated by you shall constitute a valid and binding contract between us.
  - l) I/We certify that the submitted quotation is duly paginated and contains from page no. 1 to .....

Date:

Signature and Seal of the Manufacturer/Bidder

**TECHNICAL SPECIFICATIONS OF "SURFACE ROUGHNESS MEASURING INSTRUMENT"  
(ON THE LETTER HEAD OF THE BIDDER)**

<b>SURFACE ROUGHNESS MEASURING INSTRUMENT</b>	
Horizontal Performance	
Traverse length - X Min / Max	0.1mm to 50mm (0.004in to 1.97in)
Traverse / measuring speeds	10mm/s (0.39in/s) max - 0.25mm/s (0.010in/s)
Data sampling interval in X	0.5µm (20µin )
Straightness error (Pt) 1	0.4µm over 50mm (16µin over 1.96in)
Vertical Performance	
Nominal measuring range	1mm
Resolution	16nm @ 1mm range (0.63µin @ 0.04in) 3nm @ 0.2mm range (0.12µin @ 0.008in)
Range to resolution ratio	65,536 : 1
Stylus arm length, tip size, force	60mm arm, 2µm radius conisphere diamond stylus, 1mN force
System Performance	
Spherical calibration artifact	12.5mm nominal radius
Calibration uncertainty - Pt	< 0.25µm
Ball Calibration	Calibration should be with Glass Ball. It should contain calibration certificate from UKAS Calibration
Radius measurement uncertainty	- 12.5mm = 2% to 0.04% of nominal 12.5 - 25mm = 0.04% of nominal 25 - 1000mm = 0.04% to 0.2% of nominal
Angle measurement uncertainty	within 1% of measured angle (+ / - 35° maximum range)
Parameter height uncertainty	within 2% + 6nm (0.24µin) (peak parameters only)
Dimensions L x D x H	Traverse unit - 343 x 116 x 160mm (13.5 x 4.6 x 6.3in) Control module - 285 x 200 x 80mm (11.2 x .9 x 3.2in)
Weight	Traverse unit - 4.9Kg (10.8lbs) Control module - 1.9Kg (4.2lbs)
Analysis	
Primary parameters	Pa, Pc, Pda, Pdc*, Pdq, PHSC*, Pku, Pln, Plo, Plq, Pmr(c)*, Pmr* Pp, PPc*, Pq, PS, Psk, Psm, Pt, Pv, Pvo*, Pz, Pz(JIS)
Roughness parameters	R3y, R3z, Ra, Rc, Rda, Rdc*, Rdq, RHSC*, Rku, Rln, Rlo, Rlq Rmr(c)*, Rmr*, Rp, Rp1max, Rpc*, Rq, RS, Rsk, RSm, Rt, Rv Rvo*, Rv1max, Rz, Rz(DIN), Rz(JIS), Rz1max
Waviness parameters	Wa, Wc, Wda, Wdc*, Wdq, WHSC*, Wku, Wln, Wlo, Wlq, Wmr(c)* Wmr*, Wp, WPC*, Wq, WS, Wsk, Wsm, Wt, Wv, Wvo*, Wz
Rk Parameters	A1, A2, Mr1, Mr2, Rk, Rpk, Rvk
R + W Parameters	AR, AW, Pt, R, Rke, Rpk, Rvke, Rx, Sar, Saw, Sr, Sw, W, Wte, Wx
Dimension parameters	Slope, Datum slope, Delta slope, Intercept X / Intercept Z
Filters / bandwidths	Gaussian, ISO 2CR, 2CR PC / 30:1, 100:1, 300:1
Cut-offs	0.08, 0.25, 0.8, 2.5 and 8mm (0.003, 0.010, 0.03, 0.1 and 0.3in)
General	
Electrical supply	Electrical supply (both mains or battery) 220 - 240V - 50 / 60 Hz
Software	Appropriated high standard software
Display unit	µm/nm
output data	transfer medium to PC for printouts
Measuring Capability	to measure the cut edge surface roughness of straight, inclined or circular profiles cut in thin sheet (0.5-10.0mm) of metals, ceramics and composites
Provision for	holding and supporting the thin sheets at variable heights for measuring the cut edge surface roughness
Capacity to measure	inner and outer surfaces at adjustable heights
PC	Mention PC specification during quotation submission so MNNIT can arrange it
Warranty	Minimum One year

TECHNICAL COMPLIANCE OF "SURFACE ROUGHNESS MEASURING INSTRUMENT"  
(ON THE LETTER HEAD OF THE BIDDER)

SURFACE ROUGHNESS MEASURING INSTRUMENT		Whether meet the requirement (Yes/No)	Quoted Models Specifications
Horizontal Performance			
Traverse length - X Min / Max	0.1mm to 50mm (0.004in to 1.97in)		
Traverse / measuring speeds	10mm/s (0.39in/s) max - 0.25mm/s (0.010in/s)		
Data sampling interval in X	0.5µm (20µin )		
Straightness error (Pt) 1	0.4µm over 50mm (16µin over 1.96in)		
Vertical Performance			
Nominal measuring range	1mm		
Resolution	16nm @ 1mm range (0.63µin @ 0.04in) 3nm @ 0.2mm range (0.12µin @ 0.008in)		
Range to resolution ratio	65,536 : 1		
Stylus arm length, tip size, force	60mm arm, 2µm radius conisphere diamond stylus, 1mN force		
System Performance			
Spherical calibration artifact	12.5mm nominal radius		
Calibration uncertainty - Pt	< 0.25µm		
Ball Calibration	Calibration should be with Glass Ball. It should contain calibration certificate from UKAS Calibration		
Radius measurement uncertainty	0.2 - 12.5mm = 2% to 0.04% of nominal 12.5 - 25mm = 0.04% of nominal  25 - 1000mm = 0.04% to 0.2% of nominal		
Angle measurement uncertainty	within 1% of measured angle (+ / - 35° maximum range)		
Parameter height uncertainty	within 2% + 6nm (0.24µin) (peak parameters only)		
Dimensions L x D x H	Traverse unit - 343 x 116 x 160mm (13.5 x 4.6 x 6.3in) Control module - 285 x 200 x 80mm (11.2 x .9 x 3.2in)		
Weight	Traverse unit - 4.9Kg (10.8lbs) Control module - 1.9Kg (4.2lbs)		
Analysis			
Primary parameters	Pa, Pc, Pda, Pdc*, Pdq, PHSC*, Pku, Pln, Plo, Plq, Pmr(c)*, Pmr* Pp, PPc*, Pq, PS, Psk, Psm, Pt, Pv, Pvo*, Pz, Pz(JIS)		
Roughness parameters	R3y, R3z, Ra, Rc, Rda, Rdc*, Rdq, RHSC*, Rku, Rln, Rlo, Rlq Rmr(c)*, Rmr*, Rp, Rp1max, Rpc*, Rq, RS, Rsk, RSm, Rt, Rv Rvo*, Rv1max, Rz, Rz(DIN), Rz(JIS), Rz1max		
Waviness parameters	Wa, Wc, Wda, Wdc*, Wdq, WHSC*, Wku, Wln, Wlo, Wlq, Wmr(c)* Wmr*, Wp, WPC*, Wq, WS, Wsk, Wsm, Wt, Wv, Wvo*, Wz		
Rk Parameters	A1, A2, Mr1, Mr2, Rk, Rpk, Rvk		
R + W Parameters	AR, AW, Pt, R, Rke, Rpke, Rvke, Rx, Sar, Saw, Sr, Sw, W, Wte, Wx		
Dimension parameters	Slope, Datum slope, Delta slope, Intercept X/Intercept Z		
Filters / bandwidths	Gaussian, ISO 2CR, 2CR PC / 30:1, 100:1, 300:1		
Cut-offs	0.08, 0.25, 0.8, 2.5 and 8mm (0.003, 0.010, 0.03, 0.1 and 0.3in)		
General			
Electrical supply	Electrical supply (both mains or battery) 220 - 240V - 50 / 60 Hz		
Software	Appropriated high standard software		
Display unit	µm/nm		
output data	transfer medium to PC for printouts		
Measuring Capability	to measure the cut edge surface roughness of straight, inclined or circular profiles cut in thin sheet (0.5-10.0mm) of metals, ceramics and composites		
Provision for	holding and supporting the thin sheets at variable heights for measuring the cut edge surface roughness		
Capacity to measure	inner and outer surfaces at adjustable heights		
PC	Mention PC specification during quotation submission so MNNIT can arrange it		
Warranty	Minimum One year		

**PROFORMA FOR DIRECT PAYMENT/TRANSFER TO BANK ACCOUNT BY MNNIT ALLAHABAD**

Sl. No.	Particulars	Information
1.	Firm [Beneficiary] Name	
2.	Code No. allotted by the MNNIT Allahabad [If code is not allotted yet, please enclose a cancelled cheque and copy of PAN card. Cancelled cheque & PAN card is to be submitted only once]	
3.	Complete Bank Account No. of the Firm [beneficiary]. [in case of change in bank account vendor should write to Account Office]	
4.	Bank Name	
5.	Branch Address	
6.	IFSC Code No.	
7.	Permanent Account Number	
8.	Mobile No. [for SMS]	
9.	Email ID [for information]	

We undertake that all information provided above is correct and MNNIT Allahabad will not be responsible in case of any error on the part of firm.

[Seal and Signature of the firm]

## ANNEXURE-E

PRICE BID  
(ON THE LETTER HEAD OF THE BIDDER)

Sl. No.	Item Description	Qty	Offered Make/ Model	Unit Price	Total Price (in Rs.)	
					In Figures	In Words
1	SURFACE ROUGHNESS MEASURING INSTRUMENT (Detailed specifications attached at <b>Annexure-B</b> )	01 No.				

We agree to supply the above goods in accordance with the technical specifications for a total contract price of \_\_\_\_\_ within the period specified in the Invitation for Quotations.

**Signature and Seal of the Manufacturer/Bidder**

**Note:**

- Bidders should provide copies of original Memorandum and Articles of Association, defining the constitution of legal status, place of registration and place of business of the company.