



भारतीय प्रौद्योगिकी संस्थान, खड़गपुर
Indian Institute of Technology, Kharagpur
Kharagpur - 721302

Tender No: IIT/PHY/2018-19/T.ENQ/071/SD/04

Date:21/01/2019

NOTICE INVITING TENDER

Indian Institute of Technology Kharagpur, an Institute of National Importance, invites sealed bids from principal manufacturers or their authorized distributors (foreign firms or their Indian representative companies), who have adequate credential for the Procurement of “Profilometer” at the Department of Physics, IIT Kharagpur.

Interested parties may submit their sealed bids under Two-Bids system as per **Technical Specifications** given at **Annexure I** and **General Terms & Conditions and other formats** given at **Annexure II to VI**. Two covers (Technical Bid and Price Bid) are to be sealed and placed in one large Cover superscribed with tender reference number **(Tender No. IIT/PHY/2018-19/T.ENQ/071/SD/04, DT: 21/01/2019)** and submitted to **“Name , Department of Physics, Indian Institute of Technology, Kharagpur, P.O. Kharagpur Technology, PIN : 721 302 on or before 12/02/2019 at 3.00 PM.** Technical Bids will be opened on **12/02/2019** at 4.00PM in Head’s Office.

The technical bid will be evaluated first and price bids will be opened in respect of those OEMs/Vendors, who are found technically qualified after evaluation of Technical bids. Date for opening price bids will be intimated later.

Kindly refer to the Institute website **www.iitkgp.ac.in** [link: Tenders] for complete tender details. The same is also available in the CPP Portal [<https://eprocure.gov.in/eprocure/app>]. If there is any corrigendum/addendum, it shall only be published on Institute’s Website and Central Public Procurement Portal.

Indenter /Prof. In Charge,

Name : **Sajal Dhara**

Head
Dept. of Physics
IIT Kharagpur

To

1. Institute Website
2. CPP Portal
3. Department Notice Board

TIME EVENTS OF VARIOUS TENDER RELATED ACTIVITIES

Enquiry No	IIT/PHY/2018-19/T.ENQ/071/SD/04
Estimated cost	Rs.25 Lakhs
Tender Fee (Non refundable)	Nil
Last date for submission of sealed tenders/quotations	12/02/2019 at 3:00 PM
Two Bid System	Two bids – (i) Technical and (ii) Price bid in two separate envelope- placed & sealed in one envelope
EMD	Rs. 40,000/- (By way of Demand draft from any Nationalized Bank /Commercial Bank and paid in favour of “Indian Institute of Technology Kharagpur”, payable at Kharagpur)
Submission of bids (by speed post) (Addressed to)	Sajal Dhara Department of Physics KHARAGPUR-721302, W.B
Name of the item for procurement and technical specifications	Annexure- I
General Terms and Conditions	Annexure-II to VI

TECHNICAL SPECIFICATIONS

Procurement of "Profilometer"

(Enquiry No: IIT/PHY/2018-19/T.ENQ/071/SD/04
dated 21/01/19)

1. Description

Profilometer is used to measure the surface topology of a wafer and it is used to get a profile i.e. topographic representation of surface contours or the surface details of a wafer. Profilometer is a tool that drags a stylus across a surface and records the topological profile. This can be used to measure the height or width of a feature of the wafer surface, such as an etch, a metal deposit, or resist thickness. The profile can also give the engineer a look at the roughness of the surface of a wafer.

2. Quantity: 1No

3. Specifications:

- Measurement Technique: Contact stylus profilometry.
- Measurement Capability: Two-dimensional surface profile measurements.
- Sample viewing: > 3 Mega pixel color camera with at least 4X digital zoom.
- Stylus Sensor: Low Inertia Sensor / laser based technology will be preferred.
- Stylus Force: 0.05 to 15 mg or better (programmable).
- Stylus radius: 2 μm or better.
- Sample Stage: Manual X/Y, 70x20 mm or better X-Y translation, 360o rotation.
- Scan Length Range: 30 mm or above
- Sample Thickness: Up to 15-20 mm Max.
- Step Height Repeatability: 5Å on 1 μm step or better.
- Vertical Range: 1200 μm or higher.
- Vertical Resolution: 5 Å or better
- Lateral Resolution: < 150 nm or better
- LCD Flat panel Monitor with 1920 x1080 @ 50 - 60Hz resolution or better
- Vacuum chuck with adjustable alignment pins for optimum placement of at least 5 inch wafers
- Desktop Computer with windows OS, intel core processor, 2GB RAM, 250GB or better hard drive.
- Certified Calibration Standards to be provided.
- Optional:
 - 1) 2 μm stylus – 2 nos.
 - 2) 5 μm stylus – 2 nos.
 - 3) 25 μm stylus – 2 nos.
 - 4) Provision for 2D stress measurement
 - 5) Calibration standard
- 4. Utility Requirements:
 - Electrical supply provided by the institute: 230+15 Volt, Single Phase (3 wires), 50 +1 Hz and: 415±10% V,50 Hz, 3Phase with separate neutral and earthing.
 - Other utility requirements at our site should be specified in quote.
- 5. Safety features
 - Standard safety measures to be provided.

6. Documentation:

- All documents should be in English in .doc or .pdf format.
- Safety instructions should be provided.

7. Equipment Installation, commissioning, demonstration and acceptance:

- The system should be installed and commissioned at our site at IIT Kharagpur.
- The vendors shall arrange necessary tool kits and accessories required for installation.

8. Training:

- Hands on training should be provided on equipment operation, maintenance, troubleshooting and process at our site.

9. After sale support:

- Maintenance support, Spares/consumables supply and unlimited technical support for process and equipment troubleshooting to be ensured for at least 5 years after commissioning and acceptance.

10. Warranty:

- 1 year onsite warranty for equipment and accessories from the date of successful installation, commissioning and acceptance. Any problem during the warranty period should be attended within seven days.
- Post warranty maintenance: Vendor should provide post warranty maintenance support. AMC charge for the same should be provided.

11. Additional Information to be provided:-

- I. Payment terms and conditions
- II. Validity of the quote
- III. Delivery period
- IV. Installation & commissioning
- V. Warranty
- VI. Any other information

GENERAL TERMS AND CONDITIONS

1. Last Date of Submission of Sealed Bids (both technical and price bids, separately in two covers and placed, sealed in one envelope): 12/02/19 up to 3.00 P.M.

2. Payment Terms & Performance Bank Guarantee (PBG):

"Option 1" 90% payment will be made on submission of shipping documents and balance 10% payment will be made on installation, commissioning and submission of PBG for performance period if the payment is made by LC. Balance 10% may be released against submission of Performance Bank Guarantee to the tune of 10% of the total purchase order value. PBG shall be issued from any nationalized bank/ commercial bank, validity which shall be warranty period plus 60 days drawn. No advance/mobilization support, is payable against supply of stores.

"Option 2" For Foreign Firms : 90% payment will be made on submission of shipping documents and balance 10% payment will be made on installation, commissioning if the payment is made by LC, otherwise 100% will be made after successful installation and commissioning duly certified by the concerned Head of Department. No advance/mobilization support, is payable against supply of stores.

For Indian Firms : 100% payment shall be made through electronic transfer after receipt of store in good order & condition and successful installation & commissioning duly certified by the concerned Head of the Department.

"Note :- Keep Any one option from the above options."

In the event of failure to deliver the stores beyond the specified date, liquidated damages @ 1% per month or part thereof in respect of the value of stores will be deducted, subject to a maximum of 5%; alternately the order will be cancelled and the undelivered stores purchased from elsewhere at the risk and expense of the vendor.

3. Warranty/Guarantee & On-site skill support: One years (01) onsite comprehensive OEM warranty from the date of successful installation and commissioning. The firm has to guarantee supply of spares for a minimum period of 5 years.

4. Earnest Money Deposit (EMD): An amount of Rs. 40000/- (Rupees forty thousand only) in the form of Demand Draft drawn in favour of "Indian Institute of

Technology Kharagpur”, **payable at Kharagpur or Bank Guarantee as per format at Annexure V.** E.M.D. should be enclosed separately in an envelope and stapled with the Technical Bid document superscribing EMD. The validity of the EMD should be 6 (six) months from the date of issue. Any bid without EMD will be summarily rejected. No interest is payable on EMD. EMD will be refunded to the unsuccessful bidder, finalization of the tender process. **The EMD of vendor awarded with the contract to be treated as part of security deposit towards Performance Guarantee. No interest is payable on Security Deposit.** Security Deposit shall be forfeited if the selected vendor after award of contract, fails to execute the same.

5. Tender Fee: No tender fees.

6. IIT Kharagpur will give exemption for submission of tender fee and EMD who are registered with MSME, NSIC or start-ups as recognised by DIPP as per revised rule 170 of GFR – 2017 only. However proper and valid document in this regard must be submitted by the bidders in support of their claim.

7. Tender fee and EMD should be kept in separate covers and place in technical bid cover.

8. Delivery of Stores: The store items are to be supplied within 120 days from the date of receipt of the Purchase Order.

9. Price:

- a. PRICE may be quoted either in INR or in foreign currency.
- b. Where tenderer intends to quote in Indian Rupees (INR), the price should be quoted “FOR IIT Kharagpur “ basis. The price should be all inclusive.
- c. Indian institute of Technology Kharagpur is a public Funded Academic & Research institute under the minister of Human Resource Development and is eligible for GST @5% vide Notification No.47/2017 dated:14.11.2017 and 10/2018- Integrated Tax (Rate) dated:25.01.2018 by the Ministry of Finance, Department of Revenue. Necessary certificate in this regard will be issued as per requirement and on request of the successful bidder.
- d. Where tenderer intends to quote in foreign currency FCA/FOB source port price by Air/Sea to be quoted. In case of comparison between FOR IIT Kharagpur (quoted in INR) and FOB/FCA price (quoted in foreign currency) 20% will be added on FOB/FCA price after conversion to INR.
- e. Tenderer, who are Indian Agents of OEMs, should furnish a clear declaration as follows: We declare that I am/we are Accredited Agents of the suppliers aboard.
- f. Foreign bidders to disclose the name and address of agent and representative in India.

- g. IIT Kharagpur is registered DSIR, Govt. of India and eligible for exemption for payment of Customs Duties in Terms of Government of India Notification No.51/96-Customs dated 23.07.96. Necessary certificate in this regard will be issued as per requirement and on request of the successful bidder.
 - h. Agency Commission, if any will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances.
 - i. The unit prices should be for the same unit as indicated in the Schedule to tender enquiry and not for any other unit.
 - j. Discount, if any, should be indicated separately/prominently.
 - k. Offers should normally be on fixed and firm price basis. Any clause making price variation will not be acceptable.
- 10. Bid:** Technical Bid and Price Bid should be submitted in two separate sealed envelopes quoting reference number on the top of the envelope. **EMD should be enclosed with the Technical Bid documents, in separate sealed envelopes, stapled with the packet containing Technical Bid documents.**
- 11. Acceptance of Tender:** The Authority of IIT Kharagpur does not bind itself to accept the lowest priced bid and reserves the right to reject any or the entire tender bids received without assigning any reason thereof.
- 12.** The addendum/corrigendum if any shall be published on Institute's **Website i.e. www.iitkgp.ac.in and on CPP Portal.**
- 13. Extra Features:** If the bidder provides any other extra features on the Hardware or Software which are not mentioned in the tender product specifications, then that shall be highlighted in clear terms, with documentary evidence/literature.
- 14. Compliance List:** The proposal should be properly indexed and a compliance list against the technical specifications should be provided.
- 15. Installation and Commissioning:** Free of cost at Nanoscale Optoelectronics laboratory of Department of Physics, IIT, Kharagpur. The supplier must ensure timely installation of Experimental test setup with necessary support to the indenters, as per details and lists to be made available by the Stores & Purchase Section or the indenting Departments/Centres/Schools.
- 16. Period of Validity:** Bids shall remain valid for acceptance for a period of 120 days from the date of opening of the price bid.
- 17.** The benefit of any downward price revision (revision on account of budget/financial policy, tax revision, EPZ etc.) is to be given to IIT Kharagpur by the selected OEM/vendor.
- 18.** Past Performance of the Vendors will be judged at the time of Technical Evaluation.
- 19.** The Institute does not bind itself to offer any explanation to those bidders whose technical bids have not been found acceptable by the Technical Evaluation Committee of the Institute.
- 20.** Bidders should enclose the following documents:

- a. Certificate of Registration / Trade License
 - b. Proforma Price Bid (without mentioning the price rate) may be attached with technical bids
 - c. Port or place of Shipment: Should be mentioned in the quotation.
 - d. Purchase order to be placed on: Should be mentioned in the quotation with full address, email address, phone number.
21. The bids (technical and price bids) once submitted shall be the property of the Institute and shall not be returned to the vendor in future.
22. **Opening of Price Bids:** The Price Bid(s) of only those vendor(s) who are found technically qualified will be opened and the same will be opened before the technically qualified vendor(s). The date for opening of price bids will be notified separately by email.
23. Tenderer or his/her authorized representative (with proper authorization letter for attending opening of technical bids and also for opening of price bids) may choose to be present at the time of opening of Technical Bids/Price Bids.

IMPORTANT

- I. Director may accept or reject any or all the bids in part or in full without assigning any reason and does not bind himself to accept the lowest bid. The Institute at its discretion may change the quantity/upgrade the criteria/drop any item or part thereof at any time before placing the Purchase Order.
- II. The technical bid will be evaluated first and price bids will be opened in respect of those OEMs/Vendors, who are found technically qualified after evaluation of Technical bids. Date for opening price bids will be intimated later.
- III. A bid submitted with false information will not only be rejected but also the OEM/ vendor will be debarred from participation in future tendering process.
- IV. In case of any dispute, the decision of the Director of this Institute shall be final and binding on the bidders.
- V. For any query pertaining to this bid document, correspondence is to be addressed to the End user

Sajal Dhara,
Department of Physics,
Indian Institute of Technology Kharagpur- 721302, West Bengal,
India
[Ph:+91-03222-304856] Email: - sajaldhara@phy.iitkgp.ac.in
- VI. In case the due date for opening tender happens to be a holiday, the same will be opened on the next working day. The timings will however remain unchanged. Please Note that the Institute remains closed on Saturday & Sunday.

VII. The Bidders are requested to submit the bids after issue of clarifications only considering the changes made if any. Bidders are totally responsible for incorporating/complying the changes/amendments issued if any, in their bid.

INSTRUCTIONS & SPECIAL CONDITIONS

1. **GENERAL:** Tenderer, who are Indian Agents of OEMs, should furnish a clear declaration as follows: We declare that I am/we are Accredited Agents of the suppliers aboard. DGS&D enlistment certificate needs to be attached (applicable only for the Indian Agents).
2. **DEVIATION FROM SPECIFICATIONS:** It is in the interest of the tenderer to study the specifications in the tender schedule thoroughly before quoting so that, if the tenderer makes any deviations, the same are prominently brought out in the body of the tender. If you need to add any optional items to your system in order to meet our specifications, you are requested to quote for the total including the option required to suit our requirements. Otherwise, your tender will not be considered at all.
4. **PERFORMANCE BANK GUARANTEE:** On behalf of the Principal, Indian Agent must be able to provide Performance Bank Guarantee of the amount equivalent to the 10% of the cost of equipment from any Nationalized Bank. The Performance Bank Guarantee is required for the entire period of Warranty. Performance Bank Guarantee must remain valid for a period sixty days beyond the expiry of the Warranty Period. Bid security will be refunded back on submission of performance Security.
5. **GUARANTEE:** The tenderer has to declare that the goods sold to the buyer under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications.
6. **JURISDICTION:** All questions, disputes, or differences arising under, out of or in connection with the contract, if concluded, shall be subject to the exclusive jurisdiction at the place from which the acceptance of Tender is issued i.e. Jurisdiction of KOLKATA HIGH COURT. Acceptance to this effect is also necessary at the time of opening of Technical Bid.
7. **ACKNOWLEDGMENT:** It is hereby acknowledged that we have gone through all the points listed under "Instructions & Special Conditions" outlined above, and those in the accompanying note on "Important Conditions", and we agree to abide by them under the penalty of permanent disqualification for Tender participation and for related penal actions for non-abidance of the conditions.
8. Interested vendors must be able to supply adequate spares and consumable during one year of comprehensive warranty. Vendor should also ensure trouble free service and performance for another five years beyond one year Comprehensive Warranty Period with adequate spares and accessories.

Eligibility Criteria / TECHNICAL BID

S. No	Description	Submitted (Yes / No)
1	Registration Certificate	
2	PAN and GST Certificates	
3	Status of the Tenderer (attach documents, if registered company/ partnership /proprietorship)	
4	Whether OEM/representing foreign principle (attach copy of certificate/authorization)	
5	Details of key top official/authorized official with e -mail id and contact number	
6	Income Tax Returns of latest last three years	
9	Name and address of Vendor's bankers and attach a Solvency Certificate from the Bank for a minimum amount of Rs.25 Lakhs	
10	Other documents like literature, catalogues etc.,(if any)	

NOTE:

- 1. Attach all relevant documents in the same serial order as above, properly indexed, duly signed and to be submitted in the TECHNICAL BID.**
- 2. This is to be Price bid of that company/firm only will be opened which do technically qualify, for further consideration. Attach all relevant documents in the same serial order as above, properly indexed, duly signed and sealed.**

Signature and seal of the Bidder

DECLARATION

1. I, -----Son /Daughter of Shri -----
-----Proprietor/Partner/CEO/MD/Director/Authorized
Signatory of M/s.-----am competent to sign
this declaration and execute this tender document.
2. Tender ref no: _____ dt:_____ . I have carefully
read and understood all the terms and conditions of the tender and hereby convey
my acceptance of the same.
3. The information/ documents furnished along with the above application are true
and authentic to the best of my knowledge and belief.
4. I/we am/are well aware of the fact that furnishing of any false information/
fabricated document would lead to rejection of my tender at any stage besides
liabilities towards prosecution under appropriate law.
5. Each page of the tender document and papers submitted by my Company is
authenticated, sealed and signed, and I take full responsibility for the entire
documents submitted.
6. I/we hereby confirm and declare that I/we am/are not blacklisted /De-registered /
debarred by any Government department/ Public Sector Undertaking/ Private Sector/ or
any other agency for which we have Executed/ Undertaken the works/ Services.

Signature of the Authorized Person

Date: -----

Full Name: -----

Place: -----

Company Seal: -----

ANNEXURE - VI

MODEL BANK GUARANTEE FORMAT FOR FURNISHING EMD

Whereas(thereinafter called the “tenderer”) has submitted their offer dated for the supply of (hereinafter called the “tender”) against the purchaser’s tender Notice No.

KNOW ALL MEN by these presents that WE of having our registered office at are bound unto(hereinafter called the “Purchaser”) in the sum of for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank thisDay of 20

THE CONDITIONS OF THIS OBLIGATION ARE

- (1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- (2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:
 - (a) If the tenderer fails to furnish the Performance Security for the due performance of the contract.
 - (b) Fails or refuses to accept/execute the contract.

WE undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorized officer of the Bank)

Name and designation of the officer

Seal, name & address of the Bank and address of the Branch