



**INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR**  
**KHARAGPUR – 721 302, INDIA**

**NOTICE INVITING TENDER**

**Tender No. IIT/MS/CL/PB/01**

**Dated: 27 December 2018**

***Sub: Procurement of “Cathodoluminescence System capable of imaging, spectroscopic and time-resolved (20 psec to 100 nsec) measurements in the wavelength range 200 - 900 nm in the temperature range 12 - 300 K”***

Indian Institute of Technology, Kharagpur invites sealed bids from reputed manufacturer or their authorized Distributor/Dealer (foreign firms or their Indian Representative company) or suppliers who have adequate credential for supply, installation and commissioning of **“Cathodoluminescence System capable of imaging, spectroscopic and time-resolved (20 psec to 100 nsec) measurements in the wavelength range 200 - 900 nm in the temperature range 12 - 300 K”**, required for dedicated use in relevant research purposes, as per Annexure-I for **Indian Institute of Technology Kharagpur, West Bengal, INDIA, PIN-721302.**

Interested parties may submit their sealed bids under Two-Cover system as per **Technical Specifications** given at **Annexure I**, and **General Terms & Conditions and Special instructions** given at **Annexure II and Annexure III**. Bidders are required to submit their **Details** in the format given at **Annexure IV** along with their technical bids. They are also required to submit a signed **Declaration** in format given at **Annexure V**. A model format for Bank Guarantee for furnishing EMD is also given as **Annexure VI**. A **Checklist and Compliance statement** against each item of Annexure - I thereon severally and individually shall also have to be submitted. Kindly refer to the Institute website **www.iitkgp.ac.in** [link: Tenders] for complete tender document. The same is also available in the CPP Portal[<https://eprocure.gov.in/epublish/app>]. If there is any corrigendum/addendum, it shall only be published on Institute’s Website and Central Public Procurement Portal.

The tender is to be submitted in a sealed packet, containing two separate sealed envelopes (one each for **Technical Bid and Price Bid**) along with prescribed **Tender fee and EMD**. Please ensure that your quotation reaches not later than 30 January 2019 at 15:00 hrs at the following address:

**Head, Materials Science Center**  
**Indian Institute of Technology**  
**Kharagpur- 721302, W. Bengal, India**

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

**Head, Materials Science Centre**  
**IIT Kharagpur**

**Copy to:-**

- 1. Head, Institute Information Cell**
- 2. Institute Website**
- 3. CPP Portal**
- 4. Notice Board**

### Schedule of Events

<b>Separate envelopes for technical and commercial bids should be submitted as per Tender Reference</b>	<b>IIT/MSC/CL/PB/01, Dated: 27 December 2018</b>
EMD	<b>Rs. 5,00,000/-</b>
Price of Tender Document	<b>Rs. 1000/-</b>
Last Date and time for Submitting the tender document	<b>30 January 2019, 15:00 Hrs (Indian time)</b>
Time and Date of Opening of Bids	<b>30 January 2019, 16:00 Hrs (Indian time)</b>
Place of Opening tender offers	<b>Office of Head, Materials Science Centre, Indian Institute of Technology Kharagpur, West Bengal, INDIA, PIN-721302</b>
Address of Communication	<b>As stated above</b>

**NOTE:**

- a. IIT Kharagpur will give exemption for submission of Tender Fee and EMD who are registered with MSME or Central Purchase Organization or startups 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.
- b. In case the due date for submitting and opening tender happens to be a holiday, the same will be happened on the next working day. The timings will however remain unchanged. Please note that the Institute remains closed during Saturdays & Sundays.

**Tender Ref #IIT/MSC/CL/PB/01**

**Procurement of a Cathodoluminescence System capable of imaging, spectroscopic and time-resolved (20 psec to 100 nsec) measurements in the wavelength range 200 - 900 nm in the temperature range 12 - 300 K.**

**I. Field Emission Gun**

Schottky thermal emission mode for high brightness continuous electron emission

Photoelectric emission mode for optically driven electron emission

Electromagnetic gun lens for fine adjustment of the probe current

Ultra low aberrations for extremely high current operation

Electron beam probe current: 30 pA to 300 nA

Gun deflectors to blank the beam

Beam energy from 1 kV to 10 kV

Pneumatic valve for gun isolation

**II. Picosecond pulse mode operation capability**

Automated switching capability from continuous (Schottky) to pulsed (photoelectric) electron emission mode

Shortest electron pulse width: < 10 ps

Time between pulses in the range from 10 – 100 ns

Maximum photoelectric current of > 10 pA

The imaging and detection system should have compatibility with the pulse mode time resolution.

**III. Electron objective Lens**

Electromagnetic objective lens for fine adjustment of the electron probe focus

Electrostatic and electromagnetic stigmatism correctors

Electrostatic and electromagnetic beam deflectors

An optimal working distance which matches focal plane of the light collection optics

A configuration which allows optimal light collection efficiency

Achievable spatial resolution in continuous working mode: < 10 nm from 3 to 10 kV, resolutions must be achieved with CL collection optics inserted in the electron beam path

Achievable spatial resolution in pulsed working mode: < 10 nm from 3 to 10 kV, resolutions must be achieved with CL collection optics inserted in the electron beam path

Field of view: 600  $\mu\text{m}$  at 5 kV

#### **IV. Secondary electron detector**

Standard secondary electron detector for conventional SEM operation/imaging.

Optimised position to avoid shadowing effects due to cryostat or CL light collection optics

No secondary electron signal loss during imaging in cathodoluminescence mode.

#### **V. Chamber & vacuum System**

Fully oil-free pumping system ( $10^{-7}$  mbar).

Maximum sample size: 20 mm diameter, 1.5 mm thickness.

#### **VI. Imaging & light collection optics**

Aplanatic reflective objective for zero chromatic aberrations from 180 nm to 1000 nm

A high numerical aperture of NA 0.72 (f/0.5)

An imaging field of 300  $\mu\text{m}$  diameter, without any motion, either of the sample or the light collection optics

Less than 1% variation in CL collection efficiency across that field of view

Infinity correction for angle resolved measurements

#### **VII. Cryogenically cooled nanositioning specimen stage**

6 degrees of freedom of motion: cartesian axis x, y, z and rotation  $\theta_x$ ,  $\theta_y$  and  $\theta_z$  around each of these axes allowing for arbitrary movements and accurate positioning of the specimen in the focal plane of the microscope

Travel range of 25 mm (x and y), 2 mm (z), 3° tilt ( $\theta_x$  and  $\theta_y$ ), 10° rotation ( $\theta_z$ )

Step size down to 1 nm

Repeatability over the full travel range of 100 nm

Repeatability over 100 nm range of <3 nm

Temperature from 12 K to 300 K

Control of the sample temperature with 1.0 K precision

No degradation of SEM spatial resolution at low temperatures, or at any temperature across the full temperature range.

Free flow cryostat compatible with both liquid helium and liquid nitrogen.

### **VIII. High Speed panchromatic detector (PMT)**

Fastest acquisition time down to 45nm / pixel

wavelength range 200 nm - 900 nm

Bandpass filter options: integration behind spectrometer or directly in beam path with a choice of different filters

Seamless integration of all of the above functionality with the overall tool control software so that hyperspectral maps may be recorded meeting the full specification above.

### **IX. Time resolved multichannel detector (UV-visible streak camera)**

Photocathode sensitivity over the range 200 - 900 nm

Detector temporal resolution of 2 ps.

Detection system time resolution down to 20 ps across the UV-visible spectral range (200 nm to 900 nm)

MinimumPeak quantum efficiency of 20%

1024 channels for spectrally resolved measurements

Synchronisation to pulsed electron gun frequency

Seamless integration with overall tool control software.

### **X. EBIC system**

Low noise EBIC electronic board

Variable gain low noise current amplifier

Seamless integration with overall tool control software to allow simultaneous measurement of EBIC, CL and SE signals

Fast generation of maps down to 10  $\mu$ s per pixel

Current measurement limit 100 fA

Gain  $10^4$  to  $10^{11}$  V/A

Bandwidth up to 100 kHz

## **XI. Integrated System control**

Access to all measurement modes from the system control software including:

Cathodoluminescence mapping (polychromatic and monochromatic)

Secondary electrons (SE) mapping

EBIC mapping

Simultaneous SE, CL and EBIC mapping

TRCL mapping, across the full wavelength range 200 nm to 900 nm.

Capability for semi-automated operation: The control software must provide a functionality to automate a series of pre-defined measurements.

Maximum image resolution in all modes: 2056 x 2056 pixels (4k)

Maximum resolution of a hyperspectral map: 512 x 512 pixels

Minimum electron beam dwell time per pixel in all modes: 50 ns.

## **XII. Data Analysis**

Interactive visualisation of SEM images, series of spectra and hyperspectral images

Generation of 3D and 2D RGB maps

Automated peak detection

Creation of FWHM hyperspectral maps and peak wavelength maps

Export functions for data into open data formats such as ASCII that is compatible with commonly used data analysis programmes such as ORIGIN, MATLAB, etc.).

### **XIII. Miscellaneous**

Software-driven switching between CW and TR CL modes without any hardware reconfiguration  
Software-driven switching between UV-visible and IR detection without any hardware reconfiguration

Laser exposure should not exceed the maximum permissible safety limit during normal operation

Emergency battery and safe shutdown procedure in case of power cut

Pulsed mode operation of the electron gun must be achievable without removing laser enclosures.

An optical table of sufficient dimension to accommodate all system components

**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 ): 30 January 2019 up to 3.00 P.M.

**2. The Technical bids will be opened on:** 30 January 2019 at 4.00 P.M. in the Office of Head, Materials Science Centre, IIT Kharagpur.

**3. Payment Terms & Performance Bank Guarantee (PBG):** 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, otherwise 90% will be made after successful installation and commissioning duly certified by the concerned Head of Department. 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. 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.

**4. Warranty/Guarantee & On-site skill support:**

Comprehensive warranty of 36 months should be provided on the machine and parts (after successful commissioning of the equipment). Price for comprehensive warranty for additional 24 months may be quoted as an Optional.

All spares and accessories to be replaced under warranty must be imported (if required) by the vendor at their own cost (including every possible expense). IIT Kharagpur will not take responsibility for the import of any replacement under Warranty. The OEMs/Authorized



Distributors and Dealers must attach certificate about their after sales and service facilities, escalation support for on-call service or station engineer etc.

Service response time, turn-around time & up-time of the equipment should be clearly specified.

Service response time must be less than 72 hours.

Suitable service facility for computer hardware or software related problems should also be provided.

The manufacturer and/or their Indian representative must have a qualified and trained service engineer in India to be able to attend to service at IIT Kharagpur in seventy-two (72) hours.

On-site training should be provided to the operators. Necessary documents, operational & system manual in the form of CD and hard copy must be supplied with the system.

**5. Earnest Money Deposit (EMD):** An amount of Rs. (INR) 5,00,000/- (Rupees Five lakh only) in the form of Demand Draft drawn in favour of “Indian Institute of Technology Kharagpur”, payable at Kharagpur, India or Bank Guarantee as per format at Annexure VI. E.M.D. should be enclosed separately in an envelope and stapled with the Technical Bid document superscribing EMD. In case of Bank Guarantee (BG), the validity of the BG 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 after finalization of the tendering process. The EMD of vendor awarded with the contract will 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. EMD will be returned after the receipt of PBG.

**6. Tender Fee:** An amount of Rs. (INR) 1,000/- (Rupees One thousand only) as tender fee (non-refundable) is to be paid. The payment shall be made by Demand Draft from any Nationalized Bank /Commercial Bank and paid in favour of “Indian Institute of Technology Kharagpur”, payable at Kharagpur. **Bids without Tender Fee will not be accepted. This should be enclosed separately in an envelope and stapled with the Technical Bid document superscribing Tender fee.**

[NOTE: IIT Kharagpur will give exemption for submission of Tender Fee and EMD who are registered with MSME or Central Purchase Organization or startups as recognized 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. **Delivery of Stores:** The store items are to be supplied within 90 days from the date of receipt of the Purchase Order or from opening of LC whichever is later.

8. **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. DGS&D enlistment certificate needs to be attached (applicable only for the Indian Agents).

(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.

**9. 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.**

**10. 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.

**11. The addendum/corrigendum**, if any, shall be published on Institute's Website i.e. [www.iitkgp.ac.in](http://www.iitkgp.ac.in) and on CPP Portal.

12. 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.

**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. Service:** Response to ensure quality of services, the deputed Engineer from the OEM/Vendor shall have a minimum of 2 years of experience in the relevant field and must be in the payroll of the OEM/Vendor.

**16. Installation and Commissioning:** Free of cost at Materials Science Centre, 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.

**17. Validity of licenses:** Software's licensing price or policy (if any) shall be clearly mentioned.

- a) All licenses should be perpetual
- b) All the accessories shall be from the same OEM

**18. Relevant documents of the OEM shall be enclosed, along with the Technical Bid. Any explanation on this account shall be supported with documentary evidence from the principals.**

**19. Conditional Offers** will not be accepted.

**20. Period of Validity:** Bids shall remain valid for acceptance for a **period of 90 days** from the date of opening of the price bid.

21. 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.

22. Past Performance of the Vendors will be judged at the time of Technical Evaluation.

23. 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.

**24. Bidders should enclose the following documents:**

- i. Certificate of Registration / Trade License
- ii. Copy of PAN card and GST registration papers
- iii. Name and address of past satisfactory supplies to whom such items/stores have been supplied should be mentioned in the technical bid.
- iv. Copy of product literature, for which the prices have been quoted.
- v. Signed copy of the tender document, with company seal, agreeing to the terms & conditions and declaration should be provided.
- vi. **Port of Shipment and Country of origin: Should be mentioned in the quotation (in case of shipment from Foreign).**
- vii. **Purchase order to be placed on: Should be mentioned in the quotation with full address.**
- viii. The OEMs/Vendors need to submit a certificate that they are not currently debarred or blacklisted in IIT Kharagpur or in any national organization or educational institute / university for any supplies, products or services.

25. All tenders are to be handed over in a sealed box in the **Office of Materials Science Centre, IIT Kharagpur-721302, India**. 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. For speed post, the

Postal Address is

**Prof. P. Banerji, Materials Science Centre, IIT Kharagpur-721302, West Bengal, India.**

26. **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.**

27. 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. 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.

III. In case of any dispute, the decision of the Director of this Institute shall be final and binding on the bidders.

IV. For any query pertaining to this bid document, correspondence is to be addressed to the End user Prof. P. Banerji, Materials Science Centre, Indian Institute of Technology Kharagpur-721302, West Bengal, India. E-mail: [pallab@matsc.iitkgp.ac.in](mailto:pallab@matsc.iitkgp.ac.in)

V. 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.

VI. 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.

**3. TENDERERS SHALL SUBMIT ALONG WITH THEIR TENDER:**

(i) Complete address and telelinks for contact persons of principals and Indian agent offices dealing with this purchase.

(ii) Name and full address of the OEM's Banker and their swift code.

(iii) Port of shipment and Country of origin is to be provided for each item.

(iv) Purchase order to be placed on: Should be mentioned in the quotation with full address

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.

**TECHNICAL BID DOCUMENT**

**Format to be filled by the Manufacturers/Indian agents (on behalf of their foreign Principals) or their authorized country distributors/Representing Dealers/Regional Agencies submitting Tender for the supply of a Cathodoluminescence System capable of imaging, spectroscopic and time-resolved (20 psec to 100 nsec) measurements in the wavelength range 200 - 900 nm in the temperature range 12 - 300 K for IIT Kharagpur.**

1. Name of the Tenderer :
2. Status of the Tenderer: (attach documents, if registered company/partnership/proprietyship)
3. Whether OEM/representing foreign principle :  
(attach copy of certificate/authorization)
4. Details of key top official/authorized official:  
(attach details)
5. Details of tie-ups for supply/services, if any:  
(Attach details, agreements, escalation matrix)
6. Income Tax returns of previous three assessment year (copy) :
7. Current list/address of clients where similar material has been supplied and successfully working:
8. Income Tax Permanent A/c No.(attach copy):
9. GST registration No.(attach copy):
10. Details of Tender Fee:
11. Details of EMD:
12. Compliance statement of the equipment:

Certified that all above information are correct to the best of my/our information, knowledge and belief.

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Signature & Seal of the Authorized person of OEM/Vendor  
with Date

**NOTE: This is to be submitted in a separate sealed envelope** super scribing “TECHNICAL BID”, Notice inviting Tender No. **IIT/MSC/CL/PB/01, Dated 27 December 2018** and name of the bidder. All technical documents like literature, catalogues,etc., are to be put in the same envelope. 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.**



**DECLARATION**

1. I, \_\_\_\_\_ son/daughter of  
\_\_\_\_\_ 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: \_\_\_\_\_

**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 ..... e 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 this .....Day 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