



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION

Phone:(0326) 2235678 || Email : purchase@ismdhanbad.ac.in || Website : www.iitism.ac.in

NIT No. ECE-500278-17-18

Date: 3rd October 2017

NOTICE INVITING TENDER

Subject: Supply & Installation of Printed Circuit Board (PCB) Prototyping Machine.

Indian Institute of Technology (Indian School of Mines), Dhanbad invites bids for supply and installation of Printed Circuit Board (PCB) Prototyping Machine of 01 No in our ECE Department.

| Sl. No. | Item | Quantity |
|--|---|-------------|
| 1. | Printed Circuit Board (PCB) Prototyping Machine Specifications | 01 |
| Specification | | Requirement |
| Resolution (X/Y) | 0.15 μ m or better | |
| Working area (X/Y/Z) | 23cm x 35cm x 5cm | |
| Table size | More than working area | |
| Milling spindle | 60,000 RPM or better | |
| Spindle Motor | DC Brushless | |
| Repeatability | +3 μ m or better | |
| Minimum width line and space | 0.1 mm or better | |
| Minimum drilling cycles | 50(drill/min) | |
| Positioning / Precision of front-to-back alignment | +0.01 mm or better | |
| Maximum thickness of processed material | 10 mm or better | |
| Minimum thickness of processed material | 0.2 mm or better | |
| Smallest drill size | 0.2 mm | |
| Control axis | X, Y, Z | |
| Drilling | 0.2 – 3.175 (mm) | |
| Machine voltage | 110 – 245 Volts 50/60 Hz | |
| Detection of reference holes | Detect the reference holes automatically | |
| PCB Design software | OrCAD University PCB Design software(1 user) | |
| Vacuum table | Fully integrated with below specifications <ul style="list-style-type: none"> Working area must be (mm) 280 X 215 or more Vacuum table must be able to handle milling of 200(μm) thin substrate Vacuum table material should be porous resin or ceramic | |
| Sound enclosure | Integrated | |
| Machine hood | Standard supply | |



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| | |
|-------------|--|
| Camera | <p>Integrated 30x color fiducial positioning camera with below specifications</p> <ul style="list-style-type: none"> • Min. 30x magnification on 15" monitor • Telecentric lens • Min. 350,000 pixels CMOS • Min. 40 x 480 resolution • Super luminosity LED x 4(modulate light) • USB interface • Option for the precision alignment measurement and the measurement of the width of lines / space must be demonstrated |
| Tool change | Automatic (Minimum 10 tools) |
| Software | <p>Machine must be supplied with the Software with below features</p> <p>Conversion</p> <ul style="list-style-type: none"> • Converts Gerber, DXF • Automatically generates converted pattern data into data that can be used by the board maker <p>CAM</p> <ul style="list-style-type: none"> • Program for controlling the board maker <p>CAD</p> <p>Simple Operation for Creating Double-Sided Board</p> <ul style="list-style-type: none"> • After setting the line width and pad size, easily create a single or double-sided board. • Simply double-click to switch top to bottom layer and generate pad for through hole. <p>Enter Dimension at Keyboard</p> <ul style="list-style-type: none"> • Useful for designing high-frequency pattern to enter dimension at keyboard for Anyone Familiar with Mechanical CAD Software • It should have the various editing commands popular in mechanical CAD software extend line, parallel, corner round, corner bevel, move/copy (straight, rotation, mirror), offset, hatch and so on <p>Milling Line Creation</p> <ul style="list-style-type: none"> • The milling lines for the cutter should be created automatically while applying a 1/2 offset for the milling cutter channel width around the outside of the completed pattern. If additional milling lines are created, unwanted copper lamination should be removed <p>Information</p> |



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| | |
|------------------------------------|---|
| | <ul style="list-style-type: none"> The X,Y coordinates of elements and the distance between the centres of two elements or the distance between their adjacent edges should be displayed <p>True type Font Support</p> <ul style="list-style-type: none"> It should support milling of a variety of True type Fonts View Software should display images captured by the camera |
| OS support | Windows 7, 8, 10 (32 bit, 64 bit) |
| Convertible file format supported | Gerber, GerberX (274x), Excell on drill output date, DXF |
| Interface with PC | USB port |
| Material of machine | High quality mild steel |
| Types of materials processed | Teflon, RT/Duroid, Arlon, FR4 etc including soft substrates |
| Milling Method | Absolute milling and incremental milling |
| Stepper motor X, Y, Z axis control | Heat Sensitive intelligent motors |
| Step Milling | To work on non uniform substrate with minimum step size of 0.01mm |
| Vacuum cleaner | <ul style="list-style-type: none"> Should collect 99.97% of milling particle debris as fine as 0.3 microns Noise level should be max. 60dB Should be linked with the milling machine so that power supply is automatically turned on and off Minimum suction pressure should be 20,000 pascals and the pressure level Should be freely and automatically adjusted Should be compact and lightweight |
| Set of accessories to be supplied | <ul style="list-style-type: none"> Bakelite Board (2 Nos) Power Supply cord (1 No) USB Connecting Cable (1 Nos) Hexagonal Wrench (1 set) Cleaning Kit (1 set) Copper clad (10 Nos) Magnifier (1 No) Copper clad thickness 1.6mm double sided with 35um copper thickness 5 nos(size should be more then working area) Copper clad thickness 1.6mm double sided with 18um copper thickness 5 nos (size should be more then working area) Copper clad thickness 1.6mm single sided with 35um |



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|---|---|
| | <ul style="list-style-type: none"> copper thickness 5 nos (size should be more then working area) Copper clad thickness 1.6mm single sided with 18um copper thickness 5 nos (size should be more then working area) Masking Tape (5 No) Scrubbing Brush (2 Nos) Vacuum Hose (1 No) Milling Bit 90 Degree (10 nos) Milling Bit 60 Degree (5 nos) Drilling Bit(mm) 0.4, 0.5,0.6, 0.8 & 1.0(3 each) Router Bit(mm) 1 & 1.5 (3 each) |
| Extra Toolset required for RF circuit fabrication | <ul style="list-style-type: none"> RF milling bit 0.1mm (5 each) RF milling bit 0.2mm (5 each) RF milling bit 0.5mm (5 each) |
| Quote separately for 100 tools | <ul style="list-style-type: none"> 60* milling tools (30 nos) 90* milling tools (30 nos) RF milling tools 0.1mm (5 nos) RF milling tools 0.2mm (5 nos) RF milling tools 0.5mm (5 nos) Drilling tools 0.6mm (5 nos) Drilling tools 0.8mm (5 nos) Drilling tools 1.0mm (5 nos) Router tools 1.0mm (5 nos) Router tools 1.5mm (5 nos) |
| Dust over | <ul style="list-style-type: none"> Should be supplied with dust cover |
| Dynamic run out of spindle motor | <ul style="list-style-type: none"> less than 25 μm |
| Note: <ol style="list-style-type: none"> Prerequisites for installation should be mentioned along with quotation Provide at least at two installation and satisfactory reports of similar setup from the concern government organization in India like IITs/NITs/ Central Universities/R&D Labs. Service support confirmation in India to be given with three-year warranty from the date of installation. Credential of the manufacturer to be provided with the quotation. | |

Particulars of tender cost, earnest money deposit and date and time of submission and opening of tenders are as under:

| S No | Items | Particulars |
|------|---|---|
| 1. | Tender cost | Rs. 2,000.00 (Rupees TwoThousand only) |
| 2. | Earnest money deposit | Rs. 35,000.00 (Rupees Thirty FiveThousand only) |
| 4. | Date and time for submission of tenders | 24.10.2017 at 3:00 P.M. |
| 5. | Date and time of opening of tenders | 24.10.2017 at 4.00 P.M. |



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Tender document containing following document is available in our website www.ismdhanbad.ac.in/tender page), which may kindly be referred.

1. General terms & condition as per Annexure-I
2. Acceptance of terms & conditions as per Annexure-II
3. Particular of Bank Guarantee as per Annexure –III
4. Compliance Statement as per Annexure –IV
5. Financial Bid as per Annexure- V

Encl : As above

Deputy Registrar



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Annexure-I

GENERAL TERMS & CONDITIONS

NIT No. ECE-500278-2017-18

Sealed tenders under **two-bid system** are invited from manufacturers/ their authorized dealers/agents for supply and installation in IIT (ISM) Dhanbad of items specified in *the NIT*.

- Offer should be submitted under **TWO-BID** system in two separate sealed covers i.e. “**Techno-commercial bid**” and “**Price bid**”.
- In a tender, either the Indian agent on behalf of the principle/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.*
 - If an agent submit bid on behalf of the principle/OEM, the same agent shall not submit a bid on behalf of another principle/OEM in the same tender for the same item/product.*
- Techno-commercial Bid:** should contain the following documents/information:
 - Tender Cost:** Cost of the tender document is to be paid by way of an A/C payee demand draft and drawn in favor of Registrar, IIT (ISM) Dhanbad and payable at Dhanbad. Tender cost is **non-refundable and non-transferable**. Alternatively, intending tenderers may download the complete set of tender document from IIT (ISM) website (www.ismdhanbad.ac.in) and submit the same duly signed on all pages by the tenderers along with demand draft for tender cost
 - Bid Security or Earnest Money Deposit (EMD):** Should be submitted in form of A/C payee demand draft drawn in favor of Registrar, IIT (ISM) Dhanbad and payable at Dhanbad.
 - Tenders without payment of tender cost and EMD may not be considered unless the tenderer is exempt from such payment under General Financial Rules (GFR) as amended from time to time and claims such exemption along with relevant and valid supporting documents.
 - All relevant technical specifications/details of offered items, drawings, printed technical leaflets, and commercial details which are necessary to ensure that offer is complete in all respects.
 - A ‘Compliance Statement’ along with a certificate and duly signed that the tenderer satisfies the technical requirements given in NIT. The said statement should be in a tabular form with the columns: sl. no., (2) technical requirement as per NIT; (3) what is offered by the tenderer; and (4) status of compliance: Complied/Not complied).*
 - IIT (ISM) Dhanbad does not bind itself to offer any explanation to those bidders whose Technical Bids have not been found acceptable by the Evaluation Committee of the Institute.
- The packing, forwarding, freight and transit insurance charges, if any must be included in the price and should not be claimed separately. Duties & taxes, if applicable, are to be shown separately clarifying whether those are extra or included in the price. **Price bids of only technically short-listed tenderers shall be opened in their presence on a pre-notified date and time.**
- Educational discount, if any, should be clearly mentioned.**
- The Institute is generally at present paying concessional custom duty for all items as per Govt of India notification. IIT (ISM) Dhanbad is also entitled for Excise Duty Exemption under Govt of India notifications and is registered with DSIR, Govt of India for this purpose. This may be taken into consideration while quoting minimum possible rate. *Exemption Certificates* can be issued in favour of manufacturers only subject to details are provided in the bid. It will not be issued to any Indian Agent/dealer or distributor at any circumstances. IIT (ISM) Dhanbad has not agreed any high sea sales Purchase. IIT (ISM) Dhanbad will provide only custom duty exemption certificate for availing



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concessional custom duty. IIT (ISM) Dhanbad will not pay any extra custom duty other than duty exemption certificate.

7. IIT (ISM) Dhanbad does not issue form 'C' or 'D' for concessional Sales tax/VAT. Hence, full rate of sales tax as applicable to educational institutions against the form of certificate (enclosed as Annexure V) should be indicated.
8. **Warranty:** Minimum 03 year from the date of installation and commissioning at the site.
9. **Validity:** Offer must be valid for a period of **180 days** from the date of opening of tender.
10. Price should be quoted on F.O.R, Dhanbad basis .
11. Your full address for correspondence and name address of the beneficiary's banker should be clearly indicated in the offer.
12. Country of origin and port of shipment should be stated in your offer clearly.
13. Name and address of Indian Agent, percentage of agency commission, if any and role of the Agent with respect to the subject supplies and a statement thereon that "Agency Commission is included in the FOB/CIF price of the offer" should be clearly indicated in your offer.
14. One set of technical literature/catalogue with the detail specification of the material under purchase should be furnished with the offer.
15. Earliest/expected delivery period should be clearly indicated.
16. Packing should be suitable for 'Air freight'.
17. Please note that no part shipment third party shipment is acceptable to us.
18. The dimension and gross and net weight in kilogram of the consignment should be indicated in the offer.
19. The offer should reach at the earliest in a sealed envelope superscribed 'Enquiry Reference Number' address to **Deputy Registrar (Purchase & Stores),
Indian Institute of Technology (Indian School of Mines),
Dhanbad-826004, Jharkhand, India.**
20. **Performance Security or Performance Bank Guarantee:** Performance Security has to be submitted by the successful bidder awarded the order. Performance Security should be 10% of the ordered value. Performance Security may be furnished in the form of Bank Guarantee only and should remain valid for a period of 60 days beyond the date of completion of all contractual obligation of the supplier including warranty obligation.
21. **Further the following documents have to be furnished by the tenderers:**
 - a) Self attested copies of credentials in support of capability to undertake the supply/work.
 - b) Detailed technical specifications of equipments.
 - c) Satisfactory performance certificate from their customers for same/similar supply/service must be enclosed alongwith the technical bid.
 - d) Income tax PAN, GSTIN, & Bank A/c no., name of bank & branch.
22. **Delivery Period and Liquidated Damage:** The ordered materials/work complete in all respects are required to be delivered and installed within the period stipulated in the purchase order failing which liquidated damages of 1% per week for the delayed period subject to maximum of 5% of the total basic value of the order shall be deducted from the invoice of the supplier.
23. **Inspection:** Inspection shall be carried out at IIT (ISM), Dhanbad after arrival of the materials and decision of the Institute in this regard shall be final.
24. **Rejection and Replacement:** Rejection, if any, shall be notified to the supplier within 30 days of receipt and inspection of the material/workmanship. Rejected materials/work is to be removed by the supplier at his own risk and cost from IIT (ISM) Dhanbad. Campus within 14 days of intimation of rejection.



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Defective Supplies are required to be replaced within 15 days of the removal of the rejected materials/work.

25. **Risk Purchase:** IIT (ISM) Dhanbad shall be at liberty to realize from the supplier the differential amount, if any, which it shall have to incur on purchase of the material/work at higher price(s) from elsewhere in the market, if the supplier, due to their fault, fails to supply the ordered quality and quantity of the material/work within the stipulated time.

26. **Conditional offer will not be accepted.**

27. **Payment:** will be made within 30 days after satisfactory supply, inspection, installation/commissioning & acceptance and on submission of pre-receipted tax invoice, delivery challan, warranty certificate and installation report in triplicate and performance bank guarantee. The invoice should be duly certified by the Head of Dept to which supply is made or any other IIT (ISM) Dhanbad official authorized for this purpose.

28. **Institute does not make any advance payment. However, as a special case 90% Letter of Credit Payment terms is accepted only in case of foreign supplier and balance 10% after satisfactory, installation report received from the user department.**

29. **Last date** for receipt of tenders and date & time for opening of the same is given in NIT. In the event last date is a holiday/declared as a holiday, next working date will be the last date for submission/ opening of tender.

30. (i) Tender should be submitted in a sealed cover/envelope and must be superscribed as:

“Tender No. _____ (NIT no. should be mentioned for _____ (tendered item should be mentioned) due on _____ (tender opening date should be mentioned) at _____ (tender opening time should be mentioned).

(ii) All tender shall be received up to the time and date as stated in the tender notice, after which no tender shall be accepted in any circumstances.

(iii) All tender must be send by Registered Post/Speed Post/Courier along with Courier receipt, during IIT (ISM) Dhanbad working days only (i.e. Monday to Friday). Please note that no hand delivery of tender will be received at any circumstances.

31. IIT (ISM) Dhanbad reserves the right to 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/quality/parameters/upgrade the criteria/drop any item(s) or part thereof at any time before placing the order.

32. In case of any dispute, the decision of IIT (ISM) Dhanbad shall be final and binding on the bidders/tenderers.



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Annexure-II

TERMS AND CONDITIONS OF THE NIT No. ECE-500278-17-18 Dated: 03.10.2017 ARE ACCEPTED

| | | |
|----|---|--|
| 1 | Name and address of the tenderer | |
| 2 | Telecom nos. of the tenderer i.e. phone fax, & email id. | |
| 3 | Signature, name & designation of the person signing on behalf of the tenderer & his/her office seal | |
| 4. | Name & designation of the contact person & his phone/mobile no. | |



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Annexure-III

FORMAT OF BANK GUARANTEE TOWARDS EMD

Whereas _____ (hereinafter called “the Bidder”) has submitted its bid dated _____ (date of submission of bid) for the supply of (name and/or description of the goods) (hereinafter called “the Bid”) against Tender Document No. _____ of the Indian School of Mines, Dhanbad.

KNOW ALL PEOPLE by these presents that WE _____ (name of bank) of _____ (name of country), having our registered office at _____ (address of bank) (hereinafter called “the Bank”), are bound unto _____ (name of Purchaser) (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 _____ 2009.

THE CONDITIONS of this obligation are:

- 1) If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
- 2) If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity:

- (a) fails or refuses to execute the Contract Form if required; or
- (b) fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders;

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 of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to six months from the date of opening of tender or the period of the bid validity whichever is later and any demand in respect thereof should reach the Bank not later than the above date.

Signature of the Bank



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION

Phone:(0326) 2235678 || Email : purchase@ismdhanbad.ac.in || Website : www.iitism.ac.in

NIT No. ECE-500278-17-18

Date: 3rd October 2017

Annexure-IV

Compliance Statement

| Sl. No | Technical requirement as per NIT | What is offered by the tenderer | Status of Compliance Complied/Not Complied |
|--------|----------------------------------|---------------------------------|---|
| | | | |



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

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Annexure - V

Format for Financial Bid

NIT No.: ECE-500278-17-18

Dated: 03.10.2017

Bidders Ref: No.

Dated:

GSTIN:

Subject: Supply & Installation of Printed Circuit Board (PCB) Prototyping Machine.

| Sl. No. | Full Description of Items (with HSN Code/ SAC Code) | Qty. | Rate | Amount |
|---------|---|------|-------------------------------|--------|
| | | | | |
| | | | | |
| | | | | |
| | | | Packing & Forwarding (if any) | |
| | | | Total | |
| | | | GST (if any) | |
| | | | Freight (if any) | |
| | | | Installation (if any) | |
| | Amount should be in figure as well as word | | Grand Total | |

Note:

- 1) All the details must be provided as per prescribed format only
- 2) Prices quoted by the bidders should include GST, HSN Code, SAC Code, duties, livies, transportation cost and insurance costs etc. if any
- 3) All the rates must be quoted in Indian Rupees.