



# NATIONAL INSTITUTE OF TECHNOLOGY PATNA

(An Institution of National Importance under MHRD, Govt. of India)

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Tender No. NITP/Proc./19-20/19

Dated 16/12/2019

**Sub: Procurement of equipments under (SEED) Project of Mechanical Engg. Dept., NIT Patna, Project-PI Dr. Karpagaraj.**

National Institute of Technology Patna, an Institute of National Importance, invites sealed tenders from reputed Original Equipment Manufacturers / Authorised Dealers / Bidders for quality Procurement of Equipment, NIT Patna.

**List of Annexures**

Sl. No.	Description	Annexure
1	List Of Details Specification	I(a)
2	List of Compliance Statement	I(b)
3	Instruction To Bidders	II
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**Critical Date Sheet**

Sl. No.	Description	Date and time
1	Publishing Date	17.12.2019 (11:30 AM)
2	Bid Document Download / Sale Start Date	17.12.2019 (11:30 AM)
3	Bid Submission End Date	09.01.2020 (01:00 PM)
4	Bid Opening Date (Technical and Financial)	09.01.2020 (03:00 PM)
5	Place of Opening Tender	Procurement Conference Room, NIT Patna

Detailed descriptions of the item and instructions for submitting your offer can be downloaded from our website [www.nitp.ac.in](http://www.nitp.ac.in).

The proposals must be sent in two separate sealed envelopes (Technical Bid and Price Bid) duly subscribed with Reference number and Tender Notice details as appended here under:-

<b>TENDER FOR SUPPLY of Equipment, NIT Patna.</b>	
<b>TENDER REF NO: - NITP/Proc./19-20/19, DATED 16.12.2019, LAST DATE FOR SUBMISSION: 09/01/2020 UPTO 01:00 P.M.</b>	
<b>To, The Registrar National Institute of Technology Patna Bihar, INDIA</b>	<b>From: M/s _____ Address: _____ Contact No.: _____ Email ID: _____</b>

The price bid will be opened only of those firms, who will be found technically qualified after evaluation of their technical bids. **The technical bids will be opened** in the presence of the Bidders/Vendors or their authorized representative who wish to be present.

Registrar

**DETAILED SPECIFICATION**

Technical Specification of Items, namely, Optical Microscope, Hot Mounting Press, Welding fixtures for flat specimen specially for titanium and Rotary fixture for circular jobs (medium size) for SEED Project, PI - Dr. Karpagaraj, Dept. of Mechanical Engg, NIT Patna.

**List of Items:**

Sl. No	Items	Specification	Remarks
1.	<b>Optical Microscope</b> (01- Unit with Complete Accessories)	List of individual components with details of specifications is given in <b>List 1</b> below	Microscope should be capable of Bright field, Oblique illumination and Polarized light contrast applications. LED light Auto shutoff after 2 hours of non-usage.
2.	<b>Hot Mounting Press</b> (01-Unit with Complete Accessories)	List of individual components with details of specifications is given in <b>List 2</b> below	For the purpose of mounting the metallic samples in Bakelite powder.
3	<b>Welding fixtures for flat specimen specially for titanium</b> (01-Unit with Complete Accessories)	List of individual components with details of specifications is given in <b>List 3</b> below	For the purpose of supporting welding process (butt, lap joints and etc) for various metallic materials (preferably titanium) with variable thickness.
4	<b>Rotary fixture for circular jobs (medium size)</b> (01- Unit with Complete Accessories)	List of individual components with details of specifications is given in <b>List 4</b> below	Useful for welding circular profile joints in concern to advance level research. It should able to hold various diameter of metallic specimen to supports the welding process

**N.B.:** Preference will be given to those bids that cover the entire list of components (with suitable technical specifications) for a given Item category.

## List 1

### **Machine 1: Equipment Specification for optical microscope**

<b>Sl.No</b>	<b>Description</b>	<b>Quantity</b>
1	Microscope frame for reflected light microscopy	1
2	30-degree Binocular Tube	1
3	Koehler field diaphragm for optimum illumination and contrast	
4	Optical Microscope with 5 fold revolving nosepiece* and Objective: For Magnification up to 1000X or more with following stages	1
	Obj. HI PLAN EPI 5x/0.12	1
	Obj. HI PLAN EPI 10x/0.25	1
	Obj. HI PLAN EPI 20x/0.40	1
	Obj. N PLAN EPI 50x/0.75	1
	Obj. N PLAN EPI 100x/0.85	1
5	Abbe Condenser 0.9Dry/1.25 Oil	1
6	Reflected light illumination with LED light source having 20 years of average use or better	1
7	10X/20 eyepiece w /eye guard, 10X/20 focusing eyepiece with eye guard Crosshair reticle and pin for orientation with 20 mm Field of View.	1
8	Microscope should be capable of Bright field, Oblique illumination and Polarized light contrast applications.	1
9	India power cord	1
10	Camera : 5 megapixel or better CMOS camera , 30 fps maximum or better with HD Output and USB2 connector with Camera Basic Software to capture and analyze images.	1
11	Easy Vertical Handle and cord wrap allows easy carrying, easy lifting. Dust cover and anti-microbial surface to protect lens	1
12	Universal Mechanical stage suitable for both reflected and transmitted light applications.	1
13	Microscope should be capable of Bright field, Oblique illumination and Polarized light contrast applications.	----
14	LED light Auto shutoff after 2 hours of non-usage.	----
15	Other important features <ul style="list-style-type: none"> <li>• Sample holders' size 25 or 30 mm for maximum sample height 30 mm.</li> <li>• Interface software (optical microscope to PC) with interface cables</li> <li>• Image measurement tools and scale bar along with the software</li> <li>• The camera must able to capture high resolution images</li> <li>• The captured image should show the scale bar</li> </ul>	-----

	<ul style="list-style-type: none"> <li>• Object guide for precise XY positioning of the specimen.</li> <li>• Self-adjusting focus Mechanism with 300 microns or better per fine focus rotation, Calibrated in 3 micron or better increment.</li> </ul>	
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**List 2**

**Machine 2: Equipment Specification for Hydraulic Specimen Mounting Press**

<b>Sl.No</b>	<b>Description</b>	<b>Quantity</b>
<b>1</b>	Hydraulic Specimen Mounting Press – Water Cooled – with PLC control Base unit containing Hydraulic pressure system & Pressure Indicator, Digital temperature control & indicator, Automated Process control by Electronic timer with auto Change from Heating Cycle to Cooling Cycle, 1500W Pre Cast heater, 1.25” mould chamber, Fabricated and Powder Coated Body Manual Pressure – by Quick ram for speedy reloading. Release Valve Provided with Sample Bakelite Powder.	<b>1</b>

**List 3**

**Machine 3: Specification for Welding Fixture “Specially for Flat Titanium Specimen”**

<b>Sl.No</b>	<b>Description</b>	<b>Quantity</b>
1	Welding fixture “Specially for flat titanium specimen”	1
<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• The fixture must made from stainless materials, it should free from corrosion.</li> <li>• The fixture should withstand the welding temperature and support the process</li> <li>• The fixture should able to handle the thin sheets (1 mm) as well as thick sheets (10-15 mm) of length 150 mm or above.</li> <li>• The trailing arrangements must able to interface or coupled with various welding torch (MIG. TIG etc,)</li> <li>• This fixture construction includes the primary shielding arrangement also.</li> </ul>		

## List 4

### **Machine 4: Specification for Rotary fixture for circular jobs**

<b>Sl.No</b>	<b>Description</b>	<b>Quantity</b>
1	Rotary fixture for circular jobs – welding	1

**Notes:**

- The rotary fixture should be able to handle various sized circular jobs of different materials.
- The preferable diameter range is one inch(min) to four inch (max)
- The rotary fixture should be able to withstand and support the welding process
- The rotary fixture should be able to have various speed range (not exceeding 500 rpm) by adjusting the controller.
- Supporting guides for holding hollow workpieces should be provided along with this machine
- Chart must be supplied to calculate or identify the speed of the fixture
- It should withstand during welding operation.

**FORMAT OF COMPLIANCE STATEMENT**

<b>Para of Tender Enquiry Specification</b>	<b>Specification of Equipment Offered</b>	<b>Compliance to Tender specification whether yes or no (if yes indicate the page no and Put a Flag also highlight the matching specification)</b>	<b>In case of noncompliance deviation from Tender specification to be indicated in unambiguous term.</b>
<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>

\* The compliance certificate along with the page no indication (i.e. required spec and availability of the page in the entire tender documents by flagging or giving page no) must be submitted with the bid for evaluation. Firm not submitting the model/spec and their details availability in the bid documents by flagging/page no may not be considered for evaluation.

**NOTE: The bid documents are not transferable and the firm's seal and signature of the authorized official must appear on all papers and envelopes submitted.**

**INSTRUCTION TO BIDDERS:**

**Two/Double Bids:-**

- 01.** In case of two-bid system, tenders will have to be submitted in TWO PARTS i.e. (a) Technical Bid and (b) Price Bid, in two separate properly sealed covers indicating the type of Bid; and both these covers will have to be again put in to a single sealed cover. Also the address of the firm submitting the tender and the officer, to whom the tender is addressed, must appear distinctly on both the inner sealed covers, indicating also TECHNICAL BID / PRICE BID as may be applicable.
  
- 02. In the part relating to Technical Bid, the OEM/Vendor must provide the followings:-**
  - (a) Details of the technical features of the offered Equipment vis-à-vis specification as per Annexure – I(a);
  - (b) Standard Technical literature on each of the items offered; the article on offer should conform to standard quality, specification and test of manufacturer;
  - (c) Dealership certificate on the offered products from OEM in case of dealer/s;
  - (d) List of reputed organizations/Institutions, where similar orders have been executed (copies of the purchase/work order will have to be enclosed). The bidders/ OEM should attach a self declaration stating that he is not banned / debarred from working with any Central Government / PSU / State Govt of India / Any other Govt. Agencies or any Institute of National / International importance.
  - (e) GST registration certificate indicating also the TIN number
  - (f) Copy of PAN must be submitted of FIRM / Bidder along with the Technical Bid;
  - (g) **Banker's details** of tendering FIRM / Bidder should be clearly mentioned;
  - (h) Details of nature and maximum period of **Warranty** offered by the OEM/Bidder;
  
- 03. In the part relating to Price Bid, the OEM/Vendor must provide the following:-**
  - (a) Quantity, basic price (against item-wise details of specifications of each of the offered items);
  - (b) Prices of each of the optional accessories, as required by specifications and may be relevant for offered Equipment, will have to be specifically stated in the quotation:
  - (c) Central / Sales Tax/ GST (as percentage of basic price + packing & forwarding charges if any)
  - (d) Installation & commissioning charge (including GST Tax), to be shown item- wise extra, if any.
  - (e) Freight & insurance charge, if any.

**Terms & Conditions:-**

01. **Rates:** Rates quoted should be on F.O.R., NIT Patna, on Door Delivery basis mentioning all taxes/break-up separately.
02. **Validity:** Quoted rates must valid for 180 days.
03. **Warranty/Guarantee:** The material must be quoted with a minimum comprehensive Warranty / Guarantee period of **12 months** after the date of delivery and acceptance at final destination. After sales service and contact details of resource person for this should be mentioned.
04. **Delivery:** Unless otherwise stated delivery of goods at NIT Patna, will have to be maximum within 45 days from the date of receipt of the Purchase Order. All aspects of safe delivery shall be the exclusive responsibility of the OEM / Bidder.
- 05. Printed conditions of supply of the firm, if any, will not be binding on us.**
06. **Late and delayed Tenders:** Late and delayed tender will not be considered. In case any unscheduled holiday occurs on prescribed closing/opening date the next working day shall be the prescribed date of closing/opening.
07. **Ground for Rejection of Tender:** The tenders are liable to be rejected if the fore going conditions are not complied with. The tender should be complete in all respects and duly signed wherever required. Incomplete and unsigned offer will not be accepted.
08. **Payment Terms:** - 100% payment against proforma invoice will be released after receiving of stores in good order and condition and successful installation and commissioning duly certified by the concern authority.
09. **TDS** as applicable will be deducted from bill.
10. **Entry Tax:** Entry tax, if applicable will be borne by us as applicable on FOR NITP value. The vendor may arrange Road Permit on their own and get it reimbursed from the Institute on production of valid document. Road permit once issued will not change / altered in any circumstances. If any alteration is required due to fault from vendor/OEM side the same will be debited to supplier's A/c
11. **Liquidated Damage:** If a firm accepts an order and fails to execute the order in full as per the terms and conditions stipulated therein, it will be open to this institute to recover liquidated damages from the firm at the rate of 1% per week of the order value subject to a maximum of 10% of the order value. It will also be open to this institute alternatively, to arrange procurement of the required stores from any other source at the risk and expense of the firm, which accepted the order but failed to execute the order according to stipulated agreed upon.
12. **Termination for default:** Default is said to have occurred:-



- (a) If the supplier fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by NIT Patna.
- (b) If the supplier fails to perform any other obligation(s) under the contract
- (c) If the vendor, in either of the above circumstances, does not take remedial steps within a period of 45 days after receipt of the default notice from NIT Patna (or takes longer period in spite of what NIT Patna may authorize in writing), NIT Patna may terminate the contract / purchase order in completely or in part. In addition to above, NIT Patna may at its discretion also take the following actions: NIT Patna may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting supplier shall be liable to compensate NIT Patna for any extra expenditure involved towards goods and services to complete the scope of.

**13. *Applicable Law:***

- (a) The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such commercial dealings/processing.
  - (b) All disputes are subject to exclusive jurisdiction of Competent Court and Forum in Patna, India only.
  - (c) Any dispute arising out of this purchase shall be referred to the Registrar NIT Patna, and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of an Arbitrator, who should be acceptable to both the parties, to be appointed by the Director of the Institute. The decision of such Arbitrator shall be final and binding on both the parties.
14. The acceptance of the quotation will rest solely with the Registrar, NIT Patna, who in the interest of the Institute is not bound to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all the quotations received without assigning any reasons.
15. Installation and training- The Company must provide free training and demonstration of equipment after installation at NIT Patna.
16. **Important:-** The Director may accept or reject any or all the bids in part or in full without assigning any reason and doesn't bind himself to accept the lower bid. The institute at its discretion may change the quantity / upgrade the criteria / drop any item or thereof at any time before placing the Purchase Order.

**Registrar**

**TENDER FORMAT FOR PRICE BID**

Tender No: NITP/Proc./19-20/19

dated 16/12/2019

SI No.	Description of Item & Model	Quantity	Unit Price	GST	Total Price

Delivery Mode: F.O.R. Patna.

Total bid price should be inclusive of Sales Tax, F.O.R. NIT Patna for the above quoted items is ₹ .....

Delivery Period:

Packaging & Freight etc. :

Validity Date: Minimum 180 days from the date of opening of tender. Any other terms and conditions.

Place:

Date:

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

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

Email \_\_\_\_\_

Contact No: \_\_\_\_\_

Affix Rubber Stamp

**For Any Enquiry**

**Please**

**Contact:** The

Registrar NIT

Patna

Email: registrar@nitp.ac.in



## Annexure – V

**NATIONAL INSTITUTE OF TECHNOLOGY PATNA**  
(An Institution of National Importance under MHRD, Govt. of India)  
ASHOK RAJPATH, PATNA-800 005 (BIHAR)

### **TECHNICAL BID (CHECK-LIST)- QUALIFYING CRITERIA**

Sl. No.	Essential Document	Document attached (Yes/No)	Page No.
1	Registration/Recognition certificate of the firm from the Govt. Agency. Proof of address of the firm should also be attached.		
2	GST Registration Certificate		
3	Copy of PAN of FIRM / Bidder		
4	Details of the technical features of the offered Equipment vis-à-vis specification as per Annexure – I (a)		
5	<b>Rates:</b> Rates quoted should be on F.O.R., NIT Patna, on Door Delivery basis mentioning all taxes/break-up separately		
6	Details of nature and maximum period of <b>Warranty</b> offered by the OEM/Bidder		
7	Standard Technical literature on each of the items offered; the article on offer should conform to standard quality, specification and test of manufacturer		
8	Dealership certificate on the offered products from <b>OEM</b> in case of dealer/s		
9	List of reputed organizations/Institutions, where similar orders have been executed (copies of the purchase/work order will have to be enclosed). The bidders / OEM should attach a self-declaration stating that he is not banned / debarred from working with any Central Government / PSU / State Govt of India / Any other Govt. Agencies or any Institute of National / International importance		
10	<b>Banker's details</b> of tendering FIRM / Bidder		
11	<b>Rate of AMC:</b> Annual Maintenance Contract charges (after expiry of warranty period) is to be clearly Indicated (for Equipment only) & applicable taxes. The selected supplier/s is to ensure regular availability of spares for at least five years		
12	<b>Remarks</b>		

Bidders should submit the above essential document. Any shortfall of document will leads to disqualification in technical evaluation. The financial bid will be opened to those bidders who qualify in technical evaluation.

(Signature of Tenderer)  
Name & Designation  
Place:  
Dated: