



**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA-769008, ODISHA**

(OPEN TENDER NOTICE NO.: NITR/PW/CR/2019/120

DATED: - 27/05/2019)

(Procurement of Laboratory Vacuum Hot Press)

Sl. No.	Description of Goods/Service	Quantity
01.	Laboratory Vacuum Hot Press (Detailed specification as per Annexure – I)	01 unit
02.	High capacity water-cooled transformer	01 unit
03.	Cooling chiller (Detailed specification as per Annexure – I)	01 unit
04.	Computer System (Detailed specification as per Annexure – I)	01 unit
	Optional Items	
05.	Spare Heating Element (Detailed specification as per Annexure – I)	01 unit
06.	Spare furnace insulation(Detailed specification as per Annexure – I)	01 unit
07.	Voltage stabilizer 100-300 Volt(Detailed specification as per Annexure – I)	01 unit
08.	Hot pressing mould (10 mm ID) (Detailed specification as per Annexure – I)	01 unit
09.	Hot pressing mould (20 mm ID) (Detailed specification as per Annexure – I)	01 unit
10.	Hot pressing mould (30 mm ID) (Detailed specification as per Annexure – I)	01 unit

1. Quantity required : As mentioned above (All information provided in technical specification)
2. Delivery : Within **90 days** from the date of purchase order
3. Last Date of submission of Bid : **24/06/2019 at 11:00 AM**
4. Date of opening of techno-commercial bid : **25/06/2019 at 11:00 AM**
5. The firm should not have been black listed at any time.
6. The submission of following bids by the tenderer should be through
<https://eprocure.gov.in/eprocure/app> Please follow the guidelines as per the portal.

**Procurement of Laboratory Vacuum Hot Press
(Open Tender Notice No.: NITR/PW/CR/2019/120, dated: 27/05/2019) Due on 24/06/2019 at 11:00 AM**

7. **Liquidated damage clause** will be charged for any delay in supply of goods.
8. The validity of the tender shall be **90 days** from the date of opening of the bids.
9. Detailed advertisement including all tender documents is also available in our website at http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx .
10. NIT reserves the right to qualify or deny prequalification of any or all applicants without assigning any reasons.

(REGISTRAR)
NIT, Rourkela
Fax No- 0661-2462022
Ph. No -0661-2462021

Technical Specification of for Laboratory Vacuum Hot Press

1. Pressing force : 5 to 100 kN (variable and adjustable) (Deviation must be mentioned) Force calibration certificate must be included
2. Pressing stroke : 50 to 150 mm
3. Bottom Ram : Fixed Top Ram : moving down
4. Displaceable press punch (maximum speed must be mentioned)
5. Digital Pressure Gauge must be provided with the system
6. 1 No. of Pressing mould for circular samples, with ID : 40 mm
7. Construction: Double Wall High quality Stainless steel Body with Water circulation between the walls and other structures are made with mild steel with neat powder coat paint
8. Hot zone: height minimum 120 mm and Inside diameter minimum 100 mm
9. Heating principle : resistance-heated
10. Heating element : high-dense graphite (density of graphite must be mentioned)
 - (a) Complete specification of heating element must be mentioned
 - (b) no of heating element must be mentioned
 - (c) Inner diameter of heating element : 100 mm (min)
 - (d) Height of the heating element : 150 mm (min)
11. Environment:
 - (a) Vacuum: Ultimate vacuum in furnace: 10^{-3} mbar or lower including pirani and dial gauge to measure absolute vacuum, the detail of the vacuum system must be mentioned in the technical bidding documents)
 - (b) Inert (Argon, Nitrogen) : Separate Gas purging system must be mentioned or must be in build with the system
 - (c) All system must be equipped with Electro-pneumatically operated valves
 - (d) Dust separator at the inlet of the vacuum pump and oil separator at the outlet must be included
12. High capacity water-cooled transformer must be provided with the system (make, model and specification must be mentioned. If the transformer is of Indian made price must be quoted in INR and if transformer is of foreign origin price must be quoted in foreign currency).
13. Working temperature: 2000 °C or higher (variable and adjustable with increment of 1°C variation) Temperature stability at the high temperature must be precisely mentioned. Suitable temperature measuring (thermocouple/optical pyrometer must be provided with the system)
14. Furnace over temperature system protection must be included
15. Working pressure (relative) : +20 ... +60 mbar
16. Insulation : carbon felt
17. **Required cooling water** : 2 m³/h or better (a separate cooling chiller with 4 tons compressor and 250 liters tank capacity must be included and mentioned in the bidding documents) (make, model and specification must be mentioned. If the transformer is of Indian made price must be quoted in INR and if transformer is of foreign origin price must be quoted in foreign currency)
18. Power supply : 3 x 400 V, 50 Hz, 25 kVA Accessories, Three phase / AC/ 415V with necessary transformer

19. Control: Fully automatic PLC process control system, including touch screen monitor, Controller with 16 Segment must be provided
20. Suitable temperature measuring system compatible with the instrument.
21. A separate PC (intel 8th Generation i7 Processor, 3 GHz Processor Speed, 12 GB Ram, 23-inch monitor) with latest version of Windows compatible instrument operating software for smooth running of equipment
22. Optional Items:
 - (a) Spare heating element for the hot press made of high-density graphite
 - (b) Spare furnace insulation for the hot press, complete as set out, consisting of graphite covering and insulating material and assembly parts.
 - (c) Suitable voltage stabilizer 100-300 Volt (make, model and specification must be mentioned. If the stabilizer is of Indian made price must be quoted in INR and if stabilizer is of foreign origin price must be quoted in foreign currency)
 - (d) 1 pc hot pressing mould, material: high-dense graphite, consisting of two upper rams, pressing plates, 5 inliners and 10 wear plates (compatible with the instrument), without CfC jacket (Price to be mentioned for sample diameter 10 mm, 20 mm and 30 mm each and separately)

Others

- A complete design along with clear indication/markings of specification mentioned in the technical bidding document (wherever possible) of the instrument must be provided with the bidding document
- Warranty: 1-year standard warranty from the date of installation plus two years of AMC.
- Scanned copy of technical brochure and website reference of the same must be included in the bid. The specification mentioned in the bid document must tally with the technical brochure.
- Technical specification of the instrument with "Yes/No" format against each specification will not be considered a technical bidding document. A separate compliance sheet of technical specification with specific value of the equipment along with the deviation must be included.
- 3 nos of Scanned copy of PO (not older than 7 years) of Laboratory Vacuum Hot press of similar or higher specification supplied within India (at least ONE from premier Government Institution and R & D Organization) and also 3 number of POs for supply in countries other than India (not older than 7 years) must be provided.
- Detailed User List (at least 10) with the concerned person's valid contact details, in India and abroad where instrument is still in operational condition must be provided.
- The ordered goods are required to be installed within 30 days of receipt of goods at this Institute. Installation should be carried out only by expert engineers of Supplier / Manufacturer. During the course of installation, necessary training on operation and maintenance of the goods shall be imparted to Institute's Faculties / Engineers / Technicians. Installation and training must be free of cost
- During the course of evaluation, NIT Rourkela, may, at its discretion ask the bidder for clarification of its bid. The request for clarification and the response shall be in writing / email and no change in prices or substance of the bid shall be sought, offered or permitted.
- Prior installation conditions / site preparation / electrical connection required must be clearly mentioned in the quotation along with technical bidding documents
- Prices of additional / optional items not appearing in the BOQ, if any, shall be quoted in a separate PDF file, duly signed by Bidder's authorized person/persons

- If any component/ additional instrumental unit/consumables which is required for smooth running of instrument is made in India that must be quoted in INR. Anything which is of Indian origin must be quoted in INR.
- The comparison between the indigenous and the foreign offers shall be made on FOB destination basis and CIF / CIP basis respectively
- In case optional items are specified in the tendered specifications, the Purchaser reserves the right to buy or not to buy the optional items. In case the option is exercised to buy the optional items after Bid opening, then the cost of optional items would be included to ascertain the Lowest Evaluated Responsive Bid. In case, the option is exercised not to buy the optional items, then the cost of the optional items would not be included in ascertaining the Lowest Evaluated Responsive Bid.
- The quotations are liable to be rejected if any of the above conditions are not complied with or there is any violation of GFR17 rules and regulations. Conditional Bids shall not be accepted.
- The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
- Note: Where there is no mention of packing, forwarding, freight, insurance charges, taxes etc., such offers shall be treated as inclusive of all these expenses
- In all regards, the GFR17 rules and regulation will be strictly followed

For goods manufactured abroad

- (i) If the instrument is of foreign origin (i.e. manufactured in foreign country) then price must be quoted in foreign currency.
- (ii) The price must be mentioned with clear demarcation at every stage such as instrument price, discount, packing and forwarding, transport, insurance whichever is applicable.
- (iii) Bidder should mention the country of origin and the country from which goods will be finally shipped
- (iv) In case, an Indian agent is directly submitting a bid on behalf of its Principals, a copy of the Authorization Certificate issued by the Principals in favour of the Indian agent should be furnished along with a certified copy of the Agency Agreement between the foreign Principal and Indian agent. Both these certificates must be up-to-date
- (v) A letter in the official letter head of the principal declaring the Indian agent as their authorized agency to bid must contain the official tender enquiry no as depicted in CPP portal must be included with the technical bid. (This must not be clubbed with Authorization Certificate)
- (vi) The delivery up to NIT Rourkela is solely bidder's responsibility. The price must be quoted in foreign currency up to CIF Kolkata basis. NIT Rourkela will provide the custom duty concessional certificate for the clearance. The delivery from Kolkata to Rourkela must be quoted in INR, failing which will lead to disqualification of the bidders.

For goods manufactured in India.

- (i) The price must be mentioned with clear demarcation at every stage such as instrument price, discount, GST calculated, packing and forwarding, transport, insurance whichever is applicable.
- (ii) The delivery up to NIT Rourkela is solely bidder's responsibility
- (iii) GST at applicable rates, which will be payable on the goods if the contract is awarded. Bidders are requested to calculate GST @5% (in this regard necessary documents will be provided to the awardee bidder at the appropriate stage)
- (iv) Charges for inland transportation, insurance and other local services required for delivering the goods at the desired destination must be mentioned in the bid.

EMD (Earnest Money deposit)/ Bid Security:

The Bidder must furnish, as part of its bid, a Bid Security (BS) for an amount as specified in the Invitation for e-procurement. In the case of foreign bidders, the BS shall be submitted either by the Principal or by the Indian agent and in the case of indigenous bidders; the BS shall be submitted by the manufacturer or their specifically authorized dealer/bidder.

The bid security is required to protect the Purchaser against the risk of Bidder's conduct, which would warrant the security's forfeiture.

The bid security shall be in Indian Rupees for offers received for supply within India and denominated in the currency of the bid or in any freely convertible foreign exchange in the case of offers received for supplies from foreign countries in equivalent Indian Rupees. The bid security shall be in one of the following forms at the bidders' option:

(a) A bank guarantee issued by a Nationalized/Scheduled bank/Foreign Bank operating in India in the form provided in the bidding documents and valid for 60 days beyond the validity of the bid. In case a bidder desires to submit a BG issued from a foreign bank, then the same should be confirmed by a Nationalised /Scheduled Indian bank, with all confirmation charges to Bidder's account. [Note: Purchaser reserves the right to verify the authenticity such Bank Guarantees from the issuing / confirming / controlling bank];

Or

(b) A Banker's cheque (BC) or demand draft (DD) in favour of Director, NIT Rourkela issued by any Nationalised / Scheduled Indian bank.

The bid security should be submitted in its original form. Copies shall not be accepted so as to reach this office on or before due date of submission of e-bid.

The bid security of unsuccessful bidder will be discharged /returned as promptly as possible positively within a period of 45 days after the expiration of the period of bid validity or placement of order whichever is later, without any interest.

The successful Bidder's bid security will be discharged upon the Bidder furnishing the performance security, without any interest. Alternatively, the BS may also be adjusted against Performance Security, if it is paid through DD/BC.

The bid security may be forfeited:

- (a) If a Bidder withdraws or amends or impairs or derogates its bid during the period of bid validity specified by the Bidder on the Bid Form; or
- (b) In case of a successful Bidder, if the Bidder fails to furnish order acceptance within 21 days of the order or fails to sign the contract and/or fails to furnish Performance Security within 21 days from the date of Purchase order. Or
- (c) In case selected L1 bidder (after qualifying the technical bidding) fails to comply or try to change the specification of the instrument after Purchase Order has been issued; or
- (d) In case selected L1 bidder (after qualifying the technical bidding) claims the inability to supply the instrument within quoted price. Or
- (e) In case selected L1 bidder (after qualifying the technical bidding) declares their inability to supply the instrument. Or
- (f) In case selected L1 bidder (after qualifying the technical bidding) impose any extra condition/cost which was not mentioned in their quotation with respect to technical specification and commercial terms and conditions. Or
- (g) In case bidder impose any prior installation condition/ requirement of consumables during installation at NIT, involving extra cost at purchaser's side which is not mentioned in the quotation. Or
- (h) In case of any violation of GFR17.

Opening and Evaluation of e-Bids

The Purchaser will open all e-bid of technical cover first. After technical evaluation and publication of technical evaluation results, the financial cover will be opened only for those bidders who have successfully qualified in technical evaluation as per the schedule given in Invitation for e-Bids. The e-Bids shall be opened at the appointed time and location on the next working day.

The bidders' names, bid modifications or withdrawals, bid prices, discounts, and the presence or absence of requisite Bid Security and such other details as the Purchaser, at its discretion, may consider appropriate, will be announced at the opening. Bid will be rejected for

- (1) Late bid submission
- (2) Failure/ late deposition of EMD/Bid Security within specified time mentioned. The contents of the Bid Form and Price Schedule Form would however be announced only at the time of opening of Priced-bids in the case of two-bid system.

DELIVERY

1. Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified by NIT Rourkela in the Purchase Order. If, at any time during performance of the Contract / Purchase Order, the Supplier encounters conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify NIT Rourkela in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, NIT Rourkela shall evaluate the situation and may, at its discretion, extend the Supplier's time for performance with or without penalty, in which case the extension shall be ratified by the parties by amendment of the Purchase Order / Contract.
2. A delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of penalty pursuant to Penalty Clause as mentioned in GFR17, unless an extension of time is agreed upon without the application of penalty clause.

Fraud and corruption

The purchaser requires that the bidders, suppliers and contractors observe the highest standard of ethics during the procurement process and execution of such contracts. In pursuit of this policy, the following are defined:

- (i) "Corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution;
- (ii) "Fraudulent practice" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;
- (iii) "Collusive practice" means a scheme or arrangement between two or more bidders, with or without the knowledge of the purchaser, designed to establish bid prices at artificial, non-competitive levels; and
- (iv) "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract;

The purchaser will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question;

Clarification of bidding documents :

A prospective Bidder requiring any clarification of the Bidding Documents shall contact the Purchaser in writing at the Purchaser's address/ Responsible faculties. The Purchaser will respond in writing to any request for clarification, provided that such request is received not later than ten (10) days prior to the deadline for submission of bids. The Purchaser shall forward copies of its response to all those who have acquired the Bidding Documents directly from it, including a description of the inquiry but without identifying its source. Should the Purchaser deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under clause relating to amendment of Bidding documents and Clause relating to Deadline for Submission of Bids. The clarifications and amendments issued would also be hosted on the website of the purchaser for the benefit of the other prospective bidders.

Performance Security (PS)

1. Within 21 days of receipt of the notification of award/PO, the Supplier shall furnish performance security in the amount specified in tender document, valid till 60 days after the warranty period. Alternatively, the PS may also be submitted at the time of release of final payment in cases where part payment is made against delivery & part on installation. The PS, where applicable, shall be submitted in advance for orders where full payment is to be made on Letter of Credit (LC) or on delivery. In this case, submission of PS at the time of negotiation of documents through Bank would be stipulated as a condition in the LC and the Bid Security/ EMD should be kept valid till such time the PS is submitted
2. The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
3. The Performance Security shall be denominated in Indian Rupees for the offers received for supplies within India and denominated in the currency of the contract in the case of offers received for supply from foreign countries.
4. In the case of imports, the PS may be submitted either by the principal or by the Indian agent and, in the case of purchases from indigenous sources, the PS may be submitted by either the manufacturer or their authorized dealer/bidder.
5. The Performance security shall be in one of the following forms:
 - (a) A Bank Guarantee [BG] or Demand Draft (DD) or Banker's Cheque (BC) issued by a Nationalized / Scheduled bank located in India or a Foreign bank with preferably its operating branch in India in the form provided in the bidding documents. In case of Performance Security being furnished in the shape of Bank Guarantee issued by any foreign bank, the said BG/DD shall have to be confirmed by any Nationalized bank of India. All confirmation and other bank charges in this respect shall be borne by the Supplier. Purchaser shall independently verify the authenticity of the BGs from the issuing / confirming / controlling banks. Or
 - (b) A Banker's cheque or Account Payee demand draft in favor of Director, NIT Rourkela.
6. In the event of any contract amendment, the supplier shall, within 21 days of receipt of such amendment, furnish the amendment to the performance security, rendering the same valid for the duration of the contract, as amended for further period of 60 days thereafter.

Technical bidding document must include the following:

1. Complete technical specification of the instruments and its necessary parts and accessory items required for running the instrument
2. A complete design along with clear indication/markings of specification mentioned in the technical bidding document (wherever possible) of the instrument
3. Make, model and specification of High capacity water-cooled transformer
4. Make, model and specification of cooling chiller
5. Specification of PLC process control system

6. Specification of PC and software for running the instrument
7. Scanned copy of technical brochure and website reference of the same must be included in the bid.
8. 3 nos of Scanned copy of PO (not older than 7 years) of Laboratory Vacuum Hot press of similar or higher specification supplied within India (at least ONE from premier Government Institution and R & D Organization) and also 3 number of POs for supply in countries other than India (not older than 7 years) must be provided.
9. A duly signed detailed User List (at least 10) with the concerned person's valid contact details, in India and abroad where instrument is still in operational condition must be provided
10. A copy of the Authorization Certificate issued by the Principals in favour of the Indian agent along with a certified copy of the Agency Agreement between the foreign Principal and Indian agent. Both these certificates must be up-to-date
11. A letter in the official letter head of the principal declaring the Indian agent as their authorized agency to bid, must contain the official tender enquiry no as depicted in CPP portal, must be included with the technical bid. (This must not be clubbed with Authorization Certificate)
12. A duly signed separate compliance sheet of the specification (at every point) mentioned in the technical part along with the deviation (if any). This compliance sheet will not be considered as technical specification of the instrument.

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