



NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR  
DEPARTMENT OF PHYSICS  
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BID REFERENCE: NITD/PHYSICS/AKC/2017/01

Dated: 21.04.2017

To \_\_\_\_\_  
\_\_\_\_\_

Dear Sir,

**Sub: INVITATION FOR QUOTATIONS FOR SUPPLY OF GOODS UNDER “DST project” (Ref. No. SR/FTP/PS-016/2011 dated 30.05.2014)**

1. You are invited to submit your most competitive quotation for the goods as per annexure-I
2. **Bid Price**
  - a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
  - b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price **F.O.R. NIT Durgapur**.
  - c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
  - d) The bid price must be quoted in **Indian Rupees**.

**Corrigendum:** The imported equipment may be quoted in **foreign currency**.

3. Each bidder shall submit only one quotation for each item. Manufacturer/authorized dealers of reputed brands of high technical quality with adequate after-sales support facilities are eligible to apply. The bidder must have supplied similar good to reputed organization to their full satisfaction and furnish a list of the same.
4. The bid submitted by the bidder must comprise the following:

**Part – I (Techno-commercial Bid)**

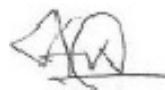
- (a) Detailed technical specifications and literature/drawings/manuals of the goods/services to be supplied
- (b) Authorized dealership certificate from the original manufacturer
- (c) Credentials and list of organizations where the bidder supplied similar items
- (d) Warranty period (comprehensive on-site)
- (e) Valid sales-tax / VAT clearance certificate

**Part – II (Price Bid)**

Price bid (vide annexure-II)

5. **Validity of Quotation**  
Quotation shall remain valid for a period not less than **60** days after the deadline date specified for submission.
6. **Evaluation of Quotations**  
The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which
  - (a) are properly signed and
  - (b) conform to the terms and conditions, and specifications.**The Quotations will be evaluated separately for each item.**
7. **Award of contract**  
The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
  - 7.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
  - 7.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

8. Delivery shall be made to **Department of Physics at NIT Durgapur**
9. Payment shall be made immediately within **30 days** after satisfactory installation, commissioning and acceptance of the good.
10. Comprehensive onsite warranty shall be applicable to the supplied goods for a period of **24 months** from the date of installation or as per desired specification as attached whichever is more.
11. The Institute is **exempted from payment of custom and excise duty** on items mentioned below:
  - a) Scientific and technical instruments, apparatus, equipment (including computers);
  - b) Accessories, spare parts and consumables thereof;
  - c) Computer software, CD-ROM, recorded magnetic tapes, microfilms, and microchips.
12. The successful bidder must submit before the release of payment a valid bank guarantee on any nationalized bank of **10%** of the order value towards **Performance Security** during the warranty period.
13. **Liquidated Damage** will be applicable at the rate of **0.5%** per week. The purchaser has the right to cancel the purchase order when LD accumulates to 10 %.
14. A bank draft of **Rs 200** towards the Bid document price payable to “**NITD/PH/AKC/FASTRACK/2014**” at Durgapur has to be enclosed with the bid by the bidder.
15. A bank draft or bank guarantee worth **2%** of the quoted value payable to “**NITD/PH/AKC/FASTRACK/2014**”. The EMD shall remain valid for a period of 45 days beyond the final bid validity period.
16. Quotations are to be submitted **in two separate sealed covers** marked **PART-I** (Techno-commercial bid) and **PART-II** (Price bid) containing relevant documents, superscribing “**Bid No. NITD/PHYSICS/AKC/2017/01**”. These two sealed covers are to be placed in a separately sealed larger cover. Further, the sentence ‘**Not to be opened before 11.30 hours on 09.05.2017**’ is also to be written on these envelopes.
17. Settlement of any dispute will be made under the jurisdiction of Durgapur Court.
18. You are requested to provide your offer latest by **11.00 hours on 09.05.2017**.
19. The purchaser will open the bids at **11.30 hours on 09.05.2017**.
20. The bid document must be signed and sealed and enclosed with the bid as a token of acceptance of all terms and conditions in the bid document by the bidder.
21. The items must be delivered within **90 days** from the date of placement of purchase order at the respective department.
23. All other terms and conditions of GFR 2005 of the Government of India will be applicable.
24. We look forward to receiving your quotations and thank you for your interest in this project.



Dr. A. K. Chakraborty  
Principal Investigator  
DST Funded Project  
Department of Physics  
NIT, Durgapur - 713209

**The bid must be addressed to:**

Dr. A. K. Chakraborty  
Associate Professor  
Department of Physics  
NIT, Durgapur -713209, W.B.  
Email id: amitkc61@gmail.com  
Phone No. 9434789137

**PRICE BID**

1	2	4	5		6	7	8	9
Sl. No	Name of the good	Quantity & Unit	Price for each unit		Unit Price  (a)+(b)	Sales & other taxes payable [admissible only on col. 5(a)]  5(a)]	Total Unit Price  (6)+(7)	Total Unit Price (in words)
			Ex-factory/ ex-warehouse/ ex-showroom off the shelf [Customs & Excise duty waived] (a)	Incidental services  (b)				

We agree to supply the above goods in accordance with the technical specifications and the terms and conditions mentioned in the bid document at prices mentioned above within the period specified in the Invitation for Quotations.

We also confirm that the comprehensive onsite warranty of **24 months** shall apply to the offered goods.

Signature of Bidder \_\_\_\_\_

Name \_\_\_\_\_

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

Place:

Date:

Annexure 1

Following are the detailed specification of the items to be procured under the DST funded project entitled “Development of polymer nanocomposites reinforced with graphene nanoplatelets” with reference no. SR/FTP/PS-016/2011 dated 30.05.2014.

Sl. No.	Name of the item	Specification
1	Vacuum Oven	<ul style="list-style-type: none"> <li>• Rectangular shape oven with interior dimensions of at least 12 inch on each side.</li> <li>• 3 inch (7.6cm) or more glass wool insulation to prevent heat loss</li> <li>• Silicone door gasket and positive latch door to maintain seal at all vacuum levels</li> <li>• Polycarbonate safety shield to protect door glass</li> <li>• Built-in gauge to display vacuum level</li> <li>• Vacuum and air lines are made of corrosion resistant stainless-steel tubing</li> <li>• Two removable stacking aluminium/stainless steel shelves</li> <li>• Easy-to-clean type 304 stainless steel interior chamber</li> <li>• Powder-coated heavy gauge steel exterior</li> <li>• Three-way valve for evacuation, venting and purging of inert gases such as Nitrogen or Argon</li> <li>• Capacity 35 Litre or more</li> <li>• PID programmable temperature controller with built-in over-temperature protection</li> <li>• Display LED with 1°C increments</li> <li>• Temperature Uniformity: <math>\pm 3.0^{\circ}\text{C}</math> at <math>60^{\circ}\text{C}</math> or <math>\pm 5.0^{\circ}\text{C}</math> at <math>100^{\circ}\text{C}</math> or <math>\pm 6.0^{\circ}\text{C}</math> at <math>150^{\circ}\text{C}</math></li> <li>• Temperature Range Ambient <math>+25^{\circ}\text{C}</math> to <math>200^{\circ}\text{C}</math> or more for continuous operation</li> <li>• CE certified</li> </ul>
2	Vacuum Pump	<p>Pumping speed: 200 litre/min or above            Double Stage Rotary Vane Pump with very low noise suitable for continuous operation.            Maximum achievable pressure: <math>1 \times 10^{-2}</math> Torr or better            Vacuum Leaking: &lt; 200 m-torr per day (have to demonstrate this with the above vacuum oven)            Power: ½ HP or more</p> <p style="padding-left: 40px;">Should include the required vacuum connectors, stainless steel vacuum pipe (at least 1 m), and oil mist eliminator/trap or similar to stop back-streaming of oil</p>
3	Fumehood	<p>1. <b>Two FUMEHOODS</b> with below dimensions are needed:  <b>First ONE:</b>            Working area: 1750 X 720 X 900 mm or more                Bottom rack : 1800 X 900 X 900 mm                Overall : 1800 X 900 X 2250 mm or more  <b>Second ONE:</b>            Working area: 1150 X 720 X 900 mm or more</p>

		<p>Bottom rack : 1200 X 900 X 900 mm  Overall : 1200 X 900 X 2250 mm or more</p> <ol style="list-style-type: none"> <li>2. Material of Construction: 18 gauge Cold Rolled Cold Annealed (CRCA) sheet or SS316/SS304 with powder coating.</li> <li>3. Door : CRCA/SS316/SS304 Sheet frame with glass vertically sliding with counter balanced weight.</li> <li>4. Working area : <math>\geq 3</math> mm thickness FRP lining.</li> <li>5. Work table : 18-20 mm thick black granite. It should contain a sink made of ceramic/granite at one rear corner.</li> <li>6. Exhaust Blower : Casing made by <math>\geq 6</math> mm thick FRP, centrifugal type.</li> <li>7. Motor : Branded Make such as Crompton greaves with 2500 RPM or more and min 1 HP</li> <li>8. Ducting : Suitable dia PP pipe up to 10 feet long with stabile 'L bow' and rain hood.</li> <li>9. Bottom rack : <math>\geq 1.2</math> mm powder coated sheet of CRCA /SS316/SS304 with two draw and two compartment storage rack with locking systems.</li> <li>10. Lamp : florescent</li> <li>11. Power : 230V, 50Hz / Single Phase</li> <li>12. Control panel : Suitable switches for blower, light and power socket with circuit breaker for motor and socket.</li> <li>13. Gas/water Inlet : Adjustable valves/taps for inert gas and water.</li> <li>14. Apparatus grid : Apparatus grid for holding Schlenk apparatus or other glass wares</li> </ol>
4	Diamond Saw	<p>, 220V; 50Hz; Metric System with following features:</p> <ul style="list-style-type: none"> <li>• Slow speed cutting wheel</li> <li>• Wheel Rotation: 0-300 RPM or more with digital display</li> <li>• Blade Dimension: 4" diameter with thickness 0.35 mm or better</li> <li>• Blades: one SiC, one Al<sub>2</sub>O<sub>3</sub>, and three diamond blades to be included for cutting various materials</li> <li>• Built-in digital micrometer with a resolution of 1 <math>\mu</math>m with precision of <math>\pm 5</math> <math>\mu</math>m for precision control in cutting.</li> <li>• Both coarse and fine sample position adjustments possible to enable rapid and accurate sample positioning.</li> <li>• Suitable sample holder(s) to allow mounting of virtually any sample shape</li> <li>• Automatic cut off switch to terminate cutting process</li> <li>• Suitable lubricant/coolant to be supplied</li> </ul>