



**भारतीय प्रौद्योगिकी संस्थान रोपड़**  
**INDIAN INSTITUTE OF TECHNOLOGY ROPAR**  
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No: 1318-18/PH-10158/Deptt/PS/

14/03/2019

**NOTICE INVITING QUOTATION**

Sealed tenders are invited from the manufacturers/authorized dealers for the purchase of following items. You are, therefore, requested to send your sealed offer in TWO BID System i.e. Technical bid and Financial bid should be sealed in separate covers duly superscribed and both these sealed covers are to be put in a bigger cover which should also be sealed and duly superscribed on the cover of the envelope: (i) Name of the item, (ii) Reference no. of this letter; and (iii) Last date & time of receipt of tenders.

Sl. No.	Description	Qty
1.	Research Electromagnet (Detailed Specification as per Annexure - A)	2 Nos
2.	Bipolar power supply (Detailed Specification as per Annexure - A)	1 Nos
3.	Gaussmeter (Detailed Specification as per Annexure - A)	1 Nos

a). Last date of receipt of tender:	19.03.2019 up to 03:00 PM
b). Opening of tenders on:	19.03.2019 at 03:30 PM
c). Place of submission of tenders:	Addressed to "The Registrar" IIT Ropar on the following address:  The Deputy Registrar (S&P), Utility Block, Indian Institute of Technology Ropar, Birla Farms, Permanent Campus, Rupnagar-140111
d). Place of opening of bids :	Utility Block

**NB:**

- (i) Please take note of the instructions overleaf before submitting your offer.
- (ii) Tenders received late shall not be considered.
- (iii) Tenders will be opened as per the above schedule in the presence of bidders, if any.

**Registrar**

## **INSTRUCTIONS**

### **1. FOR IIT Ropar**

Rates offered should be on FOR IIT Ropar basis. Comparison will be made on Net price (including everything i.e. installation/freight/taxes etc.)

### **2. Payment**

30 days credit – 100% payment will be made within 30 days from the date of successful installation of material at IIT Ropar.

### **3. Warranty**

Warranty period would be as per annexures from the date of successful installation of equipment.

### **4. Validity of offer**

The offer submitted should have the validity of atleast 90 days from the date of opening of bids.

### **5. Opening of Bids:**

Tender will be opened as per the above schedule in the presence of bidders or their authorized representatives whosoever may wish to attend the opening. In case the due date of receipt/opening of the tender is declared a holiday in the Institute, then, the due date of receipt/opening of the tender shall be the next working day at the same time.

### **6. Service Manual/Circuit Diagram:**

It is specifically required that the bidders will supply all the operating & service manuals and circuit diagrams alongwith the machines.

### **7. Banker's details:**

Name and address of the banker of your company should be mentioned as per RTGS form attached.

### **8. Brochure/Templates**

The suppliers must support the quoted specifications with the help of original printed manuals of the equipments and must highlight the specification details in the original manual

### **9. Liquidated Damages**

In case the firm fails to execute the supply as per the purchase order in whole or in part as per the terms and conditions of PO, IIT Ropar can impose the penalty @1% per week of the undelivered stores, subject to a maximum of 10%. It will also be open to the institute to procure the required item(s) from any other source at the risk and expense of the firm.

### **10. Jurisdiction:**

The Courts of Ropar alone will have the jurisdiction to try any matter, dispute or difference between the parties arising out of this tender/contract. It is specifically agreed that no Court outside and other than Ropar court shall have jurisdiction in the matter.

### **11. Force Majeure:**

Any failure of omission or commission to carry out the provision of this contract by the supplier shall not give rise to any claim by one party, one against the other, if such failure of omission or commission arises from an act of God; which shall include all acts of natural calamities such as fire, flood, earthquake, hurricane, or nay pestilence or from civil strikes, compliance with any statute and/or regulations of the Government, lockouts and strikes, riots, embargoes or from any political or other reason beyond the supplier's control including war (whether declared or not) civil war or stage of insurrection, provided that notice of the occurrence of any event by either party to the other shall be given within two weeks from the date of occurrence of such an event which could be attributed to Force Majeure conditions.

### **12. Risk & Cost**

In the event of failure to carry out the contractual obligations, within the stipulated period or extended period and determination of the contract for any reason, violation of warranties etc. the IIT Ropar shall have the right to carry out the unfinished obligation at the exclusive cost and risk of the bidder/firm, after due notice and the difference so accrued shall be recoverable from the bidder/firm.

13. The material found defective upon opening by the supplier representative in presence of Central stores personnel/indenter of IIT Ropar or not as per tendered specifications will be lifted back at the cost and risk of the supplier. The material lying in the IIT Ropar premises would be at supplier's risk and cost.

**Note: The Director, IIT Ropar reserves the right to accept/reject any or all quotations without assigning any reasons thereof.**

**Specification for Research Electromagnet, Bipolar power supply and Gaussmeter with the following specifications:**

We are looking for a Research electromagnet with the following specifications:

**Pole Gap/Air Gap:** Continuously adjustable from 0 to 70 mm or better with two way knobbed wheel screw adjusting system.

**Field Intensity:** 19,000 Gauss or better with an air gap of 10mm with pole (flat/tapered) pieces and 8500 Gauss or better with an air gap of 30mm with pole (flat/tapered) pieces. Note that the vendor should meet both the specifications of field intensity simultaneously and they should support their claim along with the field curve at variable pole gap.

**Pole Diameter:** 100mm or better.

**Coil Separation:** 70 mm or better.

**Yoke construction:** H shaped mounted on a stand.

**Cooling:** Water/ Air cooled

We are looking for the bipolar power supply suitable for the above mentioned magnet such that the power supply can produce the field intensity of 19000 Gauss or better at the pole gap of 10mm and the field intensity of 8500 Gauss or better at the pole gap of 30 mm. It has to be noted that the maximum rating for the current/voltage value of the bipolar power supply may vary depending on the resistance of the electromagnet but they should possess the following specifications:

**Stability:** 0.05% or better at a user specified set value.

**Protection:** MCB and HRC fuses in the input.  
Output should be protected against overload and short circuit by crossover characteristics.  
Output Over voltage trip protection.

**Metering:** One voltmeter or one ammeter (or both) to monitor output voltage or current (or both).

**Interface:** External (computer) programming of current either through GPIB or RS - 232 or DAQ control. In case of DAQ interface, the vendor should provide the table corresponding to -5VDC through zero (0) to + 5 VDC external voltage signal equivalence of current from –full value through zero (0) to

+ full value. In addition, during installation they vendor should show the working methodology of external interface of the power supply.

**Operating voltage:** 220/230 VAC, 50Hz, single phase.

We are looking for the following specifications for Gaussmeter:

**Measuring Ranges:**

1. 0 to 200 Gauss
2. 0 to 2 KiloGauss
3. 0 to 20 KiloGauss

**Resolution:**

- 0.1 Gauss or better on 200 Gauss range.
- 1 Gauss or better on 2 KiloGauss range.
- 10 Gauss or better on 20 KiloGauss range.

**Accuracy:** 1% or better

**Protection:** Over range protection up to 100%.

**Probe:** Transverse Hall probe should be enclosed in pen type metal casing.

**Input Requirement:** 220/230 VAC, 50Hz, single phase.

**COMPLIANCE SHEET**

Sl. No.	Specifications as per tender (point wise)	Compliance of the quoted model	Compliance of alternate model, if any	Remarks (Deviations)