



NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR
MAHATMA GANDHI AVENUE
DURGAPUR –713 209, WEST BENGAL, INDIA

FAX: 0343-2547375; Website: www.nitdgp.ac.in
Telephone: + 91-3432546808

REFERENCE:NITD/PHY/3 RD_SEM/2017-18/1

Dated: 22.03.2018

Sub: Notice Inviting E-Tender for “Supply and installation of Experimental set up for Determination of Planck’s Constant by using Photo electric cell. complete setup in all respect”.

Tender Documents may be downloaded from Central Public Procurement Portal <http://eprocure.gov.in/eprocure/app>. Aspiring Bidders who have not enrolled / registered in e-procurement should enrol/ register before participating through the website <http://eprocure.gov.in/eprocure/app> . The portal enrolment is free of cost. Bidders are advised to go through instructions provided at ‘Instructions for online Bid Submission’.

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SCHEDULE

Name of Organization	National Institute of Technology Durgapur
Tender Type (Open/Limited/EOI/Auction/Single)	Open
Tender Category (Services/Goods/works)	Goods
Type/Form of Contract (Work/Supply/Auction/Service/Buy/Empanelment/ Sell)	Buy
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Instrument /Equipment
Source of Fund (Institute/Project)	Institute (Research Initiation Grant 2017)
Is Multi Currency Allowed	NO
Date of Issue/Publishing	23/03/2018 (15.00 Hrs.)
Document Download/Sale Start Date	23/03/2018 (15.00 Hrs.)
Document Download/Sale End Date	23/04/2018 (15.00 Hrs.)
Date for Pre-Bid Conference	N/A
Venue of Pre-Bid Conference	N/A
Last Date and Time for Uploading of Bids	23/04/2018 (15.00 Hrs.)

Date and Time of Opening of Technical Bids	24/04/2018 (15.00 Hrs.)
Tender Fee	200.00
EMD	Rs.1000
No. of Covers (1/2/3/4)	02
Bid Validity days (180/120/90/60/30)	90 days (From last date of opening of tender)
Address for Communication	Dr. Hirok Chaudhuri Department of Physics, National Institute of Technology Durgapur, Mahatma Gandhi Avenue, Durgapur -713209, West Bengal, INDIA
Contact No.	+91 9434789019
Email Address	hirok.chaudhuri@phy.nitdgp.ac.in

1. You are invited to submit your most competitive quotation for the goods as per annexure- I. Manufacturer/authorized dealers of reputed brands of high technical quality with adequate after-sales support facilities are eligible to apply.
2. Each bidder should 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.
3. The bid must be addressed to HOD Department of Physics, NIT Durgapur, M. G Avenue, Durgapur- 713209, West Bengal, India.
4. **Bid Price**
 - a. The contract shall be applicable for the full quantity as described in the annexure-I. 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 along with delivery charges and installation charges, if applicable, would be included in the total price **F.O.R. HOD, Department of Physics, NIT Durgapur.**
 - c. Commercial Terms & Conditions regarding Tax, duties, and other levies, delivery charges and installation charges, if applicable, must be quoted clearly.
 - d. The rates quoted by the bidder shall be fixed for the duration of the contract (until full payment is made to the dealer) and shall not be subjected to adjustment on any account.

5. The bid submitted by the bidder must comprise the following:

Part- I (Technical Bid)

- a. Digitally signed copy of the filled in Notice Inviting Tender (NIT)

- b. Detailed technical specifications and literature/drawings/manuals of the goods/services have to be supplied,**
- c. Authorized dealership certificate from the original manufacturer, if applicable,**
- d. Scanned copy of EMD and Tender Fees if applicable.**
- e. List of other important documents**

Sl. No.	Category	Sub Category	Sub Category Description
		GST Registration Certificate	GST Registration Certificate
		Partnership Deed (If applicable)	Partnership Deed
		Permanent Account Number	Permanent Account Number Details
		Power of Attorney (If applicable)	Power of Attorney
		Registration Certificate	Registration Certificate Details

Part – II (Financial Bid)

All Commercial Terms & Conditions regarding Tax, duties, and other levies, delivery charges and installation charges, if applicable, must be included total price.

Price bid shall be submitted separately as annexure-II (BOQ).

6. Validity of Quotation

Quotation shall remain valid for a period not less than **90** days after the deadline date specified for submission.

- 7. The items must be delivered within **12 weeks** from the date of placement of purchase order.
- 8. Installation, commissioning and demonstration would be performed within 20 days after the delivery of the item(s).
- 9. Payment shall be made immediately within 60 days after satisfactory installation, commissioning and demonstration after the acceptance of the goods in proper condition.
- 10. Comprehensive onsite warranty shall be applicable to the supplied goods for a period of minimum **12 months** from the date of installation. Terms and conditions of warranty, if applicable, must be documented clearly.

11. 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.

12. Award of contract

- a) The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive in terms of technical specifications asked for and who has offered the lowest evaluated quotation price.
 - b) 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.
 - c) 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.
13. 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.
 14. A bank draft of **Rs 200.00** towards the Bid document price payable to “**NIT Society Durgapur**” at Durgapur will be enclosed with the bid by the bidder.
 15. A **Demand Draft (DD)** worth of **INR 1000.00** in favor of “**NIT Society Durgapur**” payable at “**Durgapur**” as EMD has to be prepared. The received amount of EMD will be returned on application by the supplier after the receipt of Performance Security. (**The successful bidder have to send the original draft at the concerned department office within 10 days of declaration of Financial Evaluation**).
 16. The successful bidder must submit before the release of payment a valid bank guarantee through any nationalized bank of an amount of **10%** of the order value towards **Performance Security** upto the **warranty period + 60 days** or the same will be deduced from the bill/ invoice before payment is made. The same will be released on application by the supplier after the said interval (warranty period + 60 days).
 17. Delivery to be made at the “**Department of Physics, NIT Durgapur, Mahatma Gandhi Avenue, Durgapur- 713209, West Bengal, India**”.
 18. **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 %.
 19. Installation and Performance Demonstration must be done at the “**Department of Physics, NIT Durgapur, Mahatma Gandhi Avenue, Durgapur- 713209, West Bengal, India**”.
 20. The installation, commissioning and demonstration certificates must be delivered at the day of installation, commissioning and demonstration. Payment will be released only after receiving the installation, commissioning and demonstration certificates.
 21. All other terms and conditions of **GFR 2017 of the Government of India** will be applicable.

22. Settlement of any dispute will be made under the jurisdiction of honourable Durgapur Court.

We look forward to receiving your quotations and thank you for your interest in this project

Sd/-

Dr. Hirok Chaudhuri

Department of Physics,
NIT Durgapur, Durgapur- 713209

Required Technical Specifications

REFERENCE: NITD/PHY/3 RD_SEM/2017-18/1

Dated: 22.03.2018

SI No.	Name of the Experiment and Minimum Specifications	Quantity
1	<p>Experimental set up for Determination of Planck's Constant by using Photo electric cell. complete setup in all respect.</p> <p>Specifications :</p> <p>Light source : Tungsten-halogen 12V / 35W Photocell : Cs Vacuum Phototube Display mode switch : Displays current (m A) or voltage (V) Power supply : 220V / 50Hz value ($h=6.62619 \times 10^{-34} \text{J.S}$) SET OF COLOR FILTERS Red : 635nm Orange : 570nm Yellow : 540nm Green : 500nm Blue : 460nm</p>	02



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REFERENCE:NITD/PHY/3 RD_SEM/2017-18/2

Dated: 22.03.2018

Sub: Notice Inviting E-Tender for “Supply and installation of Experimental set up for Determination of Stefan’s Constant. Complete setup in all respect”.

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Source of Fund (Institute/Project)	Institute (Research Initiation Grant 2017)
Is Multi Currency Allowed	NO
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Department of Physics,
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Required Technical Specifications

REFERENCE: NITD/PHY/3 RD_SEM/2017-18/2

Dated: 22.03.2018

SI No.	Name of the Experiment and Minimum Specifications	Quantity
1	<p>Experimental set up for Determination of Stefan's Constant. Complete setup in all respect.</p> <p>Specifications :</p> <p>Stefan's apparatus 1 Thermometers 2 Stop watch 1 Sensitive galvanometer 1 Silver-constantan thermocouple 1 Beaker 600ml 1 Hot plate (not supplied) 1 Steam generator 1 Instruction manual 1</p>	02



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REFERENCE:NITD/PHY/3 RD_SEM/2017-18/3

Dated: 22.03.2018

Sub: Notice Inviting E-Tender for “Supply and installation of Experimental set up for determine the energy bandgap of a semiconductor. Complete setup in all respect”.

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Required Technical Specifications

REFERENCE: NITD/PHY/3 RD_SEM/2017-18/3

Dated: 22.03.2018

SI No.	Name of the Experiment and Minimum Specifications	Quantity
1	<p>Experimental set up for determine the energy bandgap of a semiconductor. Complete setup in all respect.</p> <p>Specifications :</p> <p>P-N JUNCTION SETUP Selector Switch : V-I and V-T experiment, Bias & Junction Selector Switch at V-I position/Junction :- Voltmeter current Display unit Voltage Range : 0-2V minimum Current Range : 0-20mA Selector Switch at V-T position/Junction :- Voltage Temperature Display unit Temperature Range : 273K to 353K CRO in Bias Position :- Frequency : 5KHz & 20KHz Voltage : 220mV (p-p) Output Connector : 3 Pin, DIN type Voltage Range : 0.00-10.00V Input Voltage : 220V, 50Hz AC OVEN WITH TEMPERATURE SENSOR Heating Element : 35 ohm Ambient Temperature : 353K Temperature Sensor etc</p>	2



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Type/Form of Contract (Work/Supply/Auction/Service/Buy/Empanelment/ Sell)	Buy
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Instrument /Equipment
Source of Fund (Institute/Project)	Institute (Research Initiation Grant 2017)
Is Multi Currency Allowed	NO
Date of Issue/Publishing	23/03/2018 (15.00 Hrs.)
Document Download/Sale Start Date	23/03/2018 (15.00 Hrs.)
Document Download/Sale End Date	23/04/2018 (15.00 Hrs)
Date for Pre-Bid Conference	N/A
Venue of Pre-Bid Conference	N/A
Last Date and Time for Uploading of Bids	23/04/2018 (15.00 Hrs.)

Date and Time of Opening of Technical Bids	24/04/2018 (15.00 Hrs.)
Tender Fee	200.00
EMD	Rs.1000
No. of Covers (1/2/3/4)	02
Bid Validity days (180/120/90/60/30)	90 days (From last date of opening of tender)
Address for Communication	Dr. Hirok Chaudhuri Department of Physics, National Institute of Technology Durgapur, Mahatma Gandhi Avenue, Durgapur -713209, West Bengal, INDIA
Contact No.	+91 9434789019
Email Address	hirok.chaudhuri@phy.nitdgp.ac.in

1. You are invited to submit your most competitive quotation for the goods as per annexure- I. Manufacturer/authorized dealers of reputed brands of high technical quality with adequate after-sales support facilities are eligible to apply.
2. Each bidder should 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.
3. The bid must be addressed to HOD Department of Physics, NIT Durgapur, M. G Avenue, Durgapur- 713209, West Bengal, India.
4. **Bid Price**
 - a. The contract shall be applicable for the full quantity as described in the annexure-I. 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 along with delivery charges and installation charges, if applicable, would be included in the total price **F.O.R. HOD, Department of Physics, NIT Durgapur.**
 - c. Commercial Terms & Conditions regarding Tax, duties, and other levies, delivery charges and installation charges, if applicable, must be quoted clearly.
 - d. The rates quoted by the bidder shall be fixed for the duration of the contract (until full payment is made to the dealer) and shall not be subjected to adjustment on any account.

5. The bid submitted by the bidder must comprise the following:

Part- I (Technical Bid)

- a. Digitally signed copy of the filled in Notice Inviting Tender (NIT)

- b. Detailed technical specifications and literature/drawings/manuals of the goods/services have to be supplied,**
- c. Authorized dealership certificate from the original manufacturer, if applicable,**
- d. Scanned copy of EMD and Tender Fees if applicable.**
- e. List of other important documents**

Sl. No.	Category	Sub Category	Sub Category Description
		GST Registration Certificate	GST Registration Certificate
		Partnership Deed (If applicable)	Partnership Deed
		Permanent Account Number	Permanent Account Number Details
		Power of Attorney (If applicable)	Power of Attorney
		Registration Certificate	Registration Certificate Details

Part – II (Financial Bid)

All Commercial Terms & Conditions regarding Tax, duties, and other levies, delivery charges and installation charges, if applicable, must be included total price.

Price bid shall be submitted separately as annexure-II (BOQ).

6. Validity of Quotation

Quotation shall remain valid for a period not less than **90** days after the deadline date specified for submission.

- 7. The items must be delivered within **12 weeks** from the date of placement of purchase order.
- 8. Installation, commissioning and demonstration would be performed within 20 days after the delivery of the item(s).
- 9. Payment shall be made immediately within 60 days after satisfactory installation, commissioning and demonstration after the acceptance of the goods in proper condition.
- 10. Comprehensive onsite warranty shall be applicable to the supplied goods for a period of minimum **12 months** from the date of installation. Terms and conditions of warranty, if applicable, must be documented clearly.

11. 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.

12. Award of contract

- a) The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive in terms of technical specifications asked for and who has offered the lowest evaluated quotation price.
 - b) 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.
 - c) 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.
13. 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.
 14. A bank draft of **Rs 200.00** towards the Bid document price payable to “**NIT Society Durgapur**” at Durgapur will be enclosed with the bid by the bidder.
 15. A **Demand Draft (DD)** worth of **INR 1000.00** in favor of “**NIT Society Durgapur**” payable at “**Durgapur**” as EMD has to be prepared. The received amount of EMD will be returned on application by the supplier after the receipt of Performance Security. (**The successful bidder have to send the original draft at the concerned department office within 10 days of declaration of Financial Evaluation**).
 16. The successful bidder must submit before the release of payment a valid bank guarantee through any nationalized bank of an amount of **10%** of the order value towards **Performance Security** upto the **warranty period + 60 days** or the same will be deduced from the bill/ invoice before payment is made. The same will be released on application by the supplier after the said interval (warranty period + 60 days).
 17. Delivery to be made at the “**Department of Physics, NIT Durgapur, Mahatma Gandhi Avenue, Durgapur- 713209, West Bengal, India**”.
 18. **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 %.
 19. Installation and Performance Demonstration must be done at the “**Department of Physics, NIT Durgapur, Mahatma Gandhi Avenue, Durgapur- 713209, West Bengal, India**”.
 20. The installation, commissioning and demonstration certificates must be delivered at the day of installation, commissioning and demonstration. Payment will be released only after receiving the installation, commissioning and demonstration certificates.
 21. All other terms and conditions of **GFR 2017 of the Government of India** will be applicable.

22. Settlement of any dispute will be made under the jurisdiction of honourable Durgapur Court.

We look forward to receiving your quotations and thank you for your interest in this project

Sd/-

Dr. Hirok Chaudhuri

Department of Physics,
NIT Durgapur, Durgapur- 713209

Required Technical Specifications

REFERENCE: NITD/PHY/3 RD_SEM/2017-18/4

Dated: 22.03.2018

SI No.	Name of the Experiment and Minimum Specifications	Quantity
1	Experimental set up for the Study of laser beam intensity distribution. Complete setup in all respect. Specifications : He Ne Laser (power 3-5 mW) with Detector, XYZ translation stage, Transtaltion stage etc	2



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FAX: 0343-2547375; Website: www.nitdgp.ac.in
Telephone: + 91-3432546808

REFERENCE:NITD/PHY/3 RD_SEM/2017-18/5

Dated: 22.03.2018

Sub: Notice Inviting E-Tender for “Supply and installation of Experimental set up for Resistivity of Semiconductors by four probe method at different temperatures,. Complete setup in all respect”.

Tender Documents may be downloaded from Central Public Procurement Portal <http://eprocure.gov.in/eprocure/app>. Aspiring Bidders who have not enrolled / registered in e-procurement should enrol/ register before participating through the website <http://eprocure.gov.in/eprocure/app> . The portal enrolment is free of cost. Bidders are advised to go through instructions provided at ‘Instructions for online Bid Submission’.

Tenderers can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type ‘NIT’. Thereafter, Click on “GO” button to view all NIT Durgapur tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <http://eprocure.gov.in/eprocure/app> as per the schedule given below. No manual bids will be accepted. All quotation (both Technical and Financial) should be submitted in the E-procurement portal.

SCHEDULE

Name of Organization	National Institute of Technology Durgapur
Tender Type (Open/Limited/EOI/Auction/Single)	Open
Tender Category (Services/Goods/works)	Goods
Type/Form of Contract (Work/Supply/Auction/Service/Buy/Empanelment/ Sell)	Buy
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Instrument /Equipment
Source of Fund (Institute/Project)	Institute (Research Initiation Grant 2017)
Is Multi Currency Allowed	NO
Date of Issue/Publishing	23/03/2018 (15.00 Hrs.)
Document Download/Sale Start Date	23/03/2018 (15.00 Hrs.)
Document Download/Sale End Date	23/04/2018 (15.00 Hrs)
Date for Pre-Bid Conference	N/A
Venue of Pre-Bid Conference	N/A
Last Date and Time for Uploading of Bids	23/04/2018 (15.00 Hrs.)

Date and Time of Opening of Technical Bids	24/04/2018 (15.00 Hrs.)
Tender Fee	200.00
EMD	Rs.1000
No. of Covers (1/2/3/4)	02
Bid Validity days (180/120/90/60/30)	90 days (From last date of opening of tender)
Address for Communication	Dr. Hirok Chaudhuri Department of Physics, National Institute of Technology Durgapur, Mahatma Gandhi Avenue, Durgapur -713209, West Bengal, INDIA
Contact No.	+91 9434789019
Email Address	hirok.chaudhuri@phy.nitdgp.ac.in

1. You are invited to submit your most competitive quotation for the goods as per annexure- I. Manufacturer/authorized dealers of reputed brands of high technical quality with adequate after-sales support facilities are eligible to apply.
2. Each bidder should 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.
3. The bid must be addressed to HOD Department of Physics, NIT Durgapur, M. G Avenue, Durgapur- 713209, West Bengal, India.
4. **Bid Price**
 - a. The contract shall be applicable for the full quantity as described in the annexure-I. 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 along with delivery charges and installation charges, if applicable, would be included in the total price **F.O.R. HOD, Department of Physics, NIT Durgapur.**
 - c. Commercial Terms & Conditions regarding Tax, duties, and other levies, delivery charges and installation charges, if applicable, must be quoted clearly.
 - d. The rates quoted by the bidder shall be fixed for the duration of the contract (until full payment is made to the dealer) and shall not be subjected to adjustment on any account.

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Part- I (Technical Bid)

- a. Digitally signed copy of the filled in Notice Inviting Tender (NIT)

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- c. Authorized dealership certificate from the original manufacturer, if applicable,**
- d. Scanned copy of EMD and Tender Fees if applicable.**
- e. List of other important documents**

Sl. No.	Category	Sub Category	Sub Category Description
		GST Registration Certificate	GST Registration Certificate
		Partnership Deed (If applicable)	Partnership Deed
		Permanent Account Number	Permanent Account Number Details
		Power of Attorney (If applicable)	Power of Attorney
		Registration Certificate	Registration Certificate Details

Part – II (Financial Bid)

All Commercial Terms & Conditions regarding Tax, duties, and other levies, delivery charges and installation charges, if applicable, must be included total price.

Price bid shall be submitted separately as annexure-II (BOQ).

6. Validity of Quotation

Quotation shall remain valid for a period not less than **90** days after the deadline date specified for submission.

- 7. The items must be delivered within **12 weeks** from the date of placement of purchase order.
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The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

- a) are properly signed and
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13. The Institute is **exempted from payment of custom and excise duty** on items mentioned below:
 - a) Scientific and technical instruments, apparatus, equipment (including computers);
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 - c) Computer software, CD-ROM, recorded magnetic tapes, microfilms, and microchips.
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 16. The successful bidder must submit before the release of payment a valid bank guarantee through any nationalized bank of an amount of **10%** of the order value towards **Performance Security** upto the **warranty period + 60 days** or the same will be deduced from the bill/ invoice before payment is made. The same will be released on application by the supplier after the said interval (warranty period + 60 days).
 17. Delivery to be made at the “**Department of Physics, NIT Durgapur, Mahatma Gandhi Avenue, Durgapur- 713209, West Bengal, India**”.
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 20. The installation, commissioning and demonstration certificates must be delivered at the day of installation, commissioning and demonstration. Payment will be released only after receiving the installation, commissioning and demonstration certificates.
 21. All other terms and conditions of **GFR 2017 of the Government of India** will be applicable.

22. Settlement of any dispute will be made under the jurisdiction of honourable Durgapur Court.

We look forward to receiving your quotations and thank you for your interest in this project

Sd/-

Dr. Hirok Chaudhuri

Department of Physics,
NIT Durgapur, Durgapur- 713209

Required Technical Specifications

REFERENCE: NITD/PHY/3 RD_SEM/2017-18/5

Dated: 22.03.2018

SI No.	Name of the Experiment and Minimum Specifications	Quantity
1	<p>Experimental set up for Resistivity of Semiconductors by four probe method at different temperatures,. Complete setup in all respect.</p> <p>Specifications :</p> <p>FOUR PROBE POWER SUPPLY</p> <p>Voltmeter Display</p> <p>Voltage Range : (0-200.0mV DC) & X10 (0-2.00 V DC),</p> <p>Current/Temperature Display</p> <p>Temperature Range : -10 to +200°C @ 1°C</p> <p>Current Range : 0-20mA DC,</p> <p>Oven Supply : 60V AC</p> <p>Input Voltage : 220V, 50Hz AC</p> <p>P-TYPE GE CRYSTAL</p> <p>Crystal : Ge Wafer, P type</p> <p>Resistivity : 1~ 10 ohm-cm</p> <p>With FOUR PROBE CRYSTAL HOUSING</p> <p>OVEN Heating Element : 75 Watt</p> <p>Temperature Range : -10 to +200° C</p> <p>Least Count : 1° C</p> <p>Length : 300mm approx.</p> <p>With FOUR PROBE CABLE</p>	2



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FAX: 0343-2547375; Website: www.nitdgp.ac.in
Telephone: + 91-3432546808

REFERENCE:NITD/PHY/3 RD_SEM/2017-18/6

Dated: 22.03.2018

Sub: Notice Inviting E-Tender for “Supply and installation of Experimental set up for study digital-to-analog and analog-to-digital conversion.. Complete setup in all respect”.

Tender Documents may be downloaded from Central Public Procurement Portal <http://eprocure.gov.in/eprocure/app>. Aspiring Bidders who have not enrolled / registered in e-procurement should enrol/ register before participating through the website <http://eprocure.gov.in/eprocure/app> . The portal enrolment is free of cost. Bidders are advised to go through instructions provided at ‘Instructions for online Bid Submission’.

Tenderers can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type ‘NIT’. Thereafter, Click on “GO” button to view all NIT Durgapur tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <http://eprocure.gov.in/eprocure/app> as per the schedule given below. No manual bids will be accepted. All quotation (both Technical and Financial) should be submitted in the E-procurement portal.

SCHEDULE

Name of Organization	National Institute of Technology Durgapur
Tender Type (Open/Limited/EOI/Auction/Single)	Open
Tender Category (Services/Goods/works)	Goods
Type/Form of Contract (Work/Supply/Auction/Service/Buy/Empanelment/ Sell)	Buy
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Instrument /Equipment
Source of Fund (Institute/Project)	Institute (Research Initiation Grant 2017)
Is Multi Currency Allowed	NO
Date of Issue/Publishing	23/03/2018 (15.00 Hrs.)
Document Download/Sale Start Date	23/03/2018 (15.00 Hrs.)
Document Download/Sale End Date	23/04/2018 (15.00 Hrs)
Date for Pre-Bid Conference	N/A
Venue of Pre-Bid Conference	N/A
Last Date and Time for Uploading of Bids	23/04/2018 (15.00 Hrs.)

Date and Time of Opening of Technical Bids	24/04/2018 (15.00 Hrs.)
Tender Fee	200.00
EMD	Rs.1000
No. of Covers (1/2/3/4)	02
Bid Validity days (180/120/90/60/30)	90 days (From last date of opening of tender)
Address for Communication	Dr. Hirok Chaudhuri Department of Physics, National Institute of Technology Durgapur, Mahatma Gandhi Avenue, Durgapur -713209, West Bengal, INDIA
Contact No.	+91 9434789019
Email Address	hirok.chaudhuri@phy.nitdgp.ac.in

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2. Each bidder should 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.
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4. **Bid Price**
 - a. The contract shall be applicable for the full quantity as described in the annexure-I. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
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Part- I (Technical Bid)

- a. Digitally signed copy of the filled in Notice Inviting Tender (NIT)

- b. Detailed technical specifications and literature/drawings/manuals of the goods/services have to be supplied,**
- c. Authorized dealership certificate from the original manufacturer, if applicable,**
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- e. List of other important documents**

Sl. No.	Category	Sub Category	Sub Category Description
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Part – II (Financial Bid)

All Commercial Terms & Conditions regarding Tax, duties, and other levies, delivery charges and installation charges, if applicable, must be included total price.

Price bid shall be submitted separately as annexure-II (BOQ).

6. Validity of Quotation

Quotation shall remain valid for a period not less than **90** days after the deadline date specified for submission.

- 7. The items must be delivered within **12 weeks** from the date of placement of purchase order.
- 8. Installation, commissioning and demonstration would be performed within 20 days after the delivery of the item(s).
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We look forward to receiving your quotations and thank you for your interest in this project

Sd/-

Dr. Hirok Chaudhuri

Department of Physics,
NIT Durgapur, Durgapur- 713209

Required Technical Specifications

REFERENCE: NITD/PHY/3 RD_SEM/2017-18/6

Dated: 22.03.2018

SI No.	Name of the Experiment and Minimum Specifications	Quantity
1	<p>Experimental set up for study digital-to-analog and analog-to-digital conversion.. Complete setup in all respect.</p> <p>Specifications : 8 bit DA to AD converter, IC DAC 1408 ADC 0804 Variable Power supply Volt meter etc</p>	2



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Telephone: + 91-3432546808

REFERENCE:NITD/PHY/3 RD_SEM/2017-18/7

Dated: 22.03.2018

Sub: Notice Inviting E-Tender for “Supply and installation of Experimental set up for Study of Hall voltage and Hall coefficient of a given material, complete setup in all respect”.

Tender Documents may be downloaded from Central Public Procurement Portal <http://eprocure.gov.in/eprocure/app>. Aspiring Bidders who have not enrolled / registered in e-procurement should enrol/ register before participating through the website <http://eprocure.gov.in/eprocure/app> . The portal enrolment is free of cost. Bidders are advised to go through instructions provided at ‘Instructions for online Bid Submission’.

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Name of Organization	National Institute of Technology Durgapur
Tender Type (Open/Limited/EOI/Auction/Single)	Open
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Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Instrument /Equipment
Source of Fund (Institute/Project)	Institute (Research Initiation Grant 2017)
Is Multi Currency Allowed	NO
Date of Issue/Publishing	23/03/2018 (15.00 Hrs.)
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Last Date and Time for Uploading of Bids	23/04/2018 (15.00 Hrs.)
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EMD	Rs.1000
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Bid Validity days (180/120/90/60/30)	90 days (From last date of opening of tender)
Address for Communication	Dr. Hirok Chaudhuri Department of Physics, National Institute of Technology Durgapur, Mahatma Gandhi Avenue, Durgapur -713209, West Bengal, INDIA
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3. The bid must be addressed to HOD Department of Physics, NIT Durgapur, M. G Avenue, Durgapur- 713209, West Bengal, India.

4. **Bid Price**

- a. The contract shall be applicable for the full quantity as described in the annexure-I. 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 along with delivery charges and installation charges, if applicable, would be included in the total price **F.O.R. HOD, Department of Physics, NIT Durgapur.**
- c. Commercial Terms & Conditions regarding Tax, duties, and other levies, delivery charges and installation charges, if applicable, must be quoted clearly.
- d. The rates quoted by the bidder shall be fixed for the duration of the contract (until full payment is made to the dealer) and shall not be subjected to adjustment on any account.

5. The bid submitted by the bidder must comprise the following:

Part- I (Technical Bid)

- a. **Digitally signed copy of the filled in Notice Inviting Tender (NIT)**

- b. Detailed technical specifications and literature/drawings/manuals of the goods/services have to be supplied,**
- c. Authorized dealership certificate from the original manufacturer, if applicable,**
- d. Scanned copy of EMD and Tender Fees if applicable.**
- e. List of other important documents**

Sl. No.	Category	Sub Category	Sub Category Description
		GST Registration Certificate	GST Registration Certificate
		Partnership Deed (If applicable)	Partnership Deed
		Permanent Account Number	Permanent Account Number Details
		Power of Attorney (If applicable)	Power of Attorney
		Registration Certificate	Registration Certificate Details

Part – II (Financial Bid)

All Commercial Terms & Conditions regarding Tax, duties, and other levies, delivery charges and installation charges, if applicable, must be included total price.

Price bid shall be submitted separately as annexure-II (BOQ).

6. Validity of Quotation

Quotation shall remain valid for a period not less than **90** days after the deadline date specified for submission.

- 7. The items must be delivered within **12 weeks** from the date of placement of purchase order.
- 8. Installation, commissioning and demonstration would be performed within 20 days after the delivery of the item(s).
- 9. Payment shall be made immediately within 60 days after satisfactory installation, commissioning and demonstration after the acceptance of the goods in proper condition.
- 10. Comprehensive onsite warranty shall be applicable to the supplied goods for a period of minimum **12 months** from the date of installation. Terms and conditions of warranty, if applicable, must be documented clearly.

11. 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.

12. Award of contract

- a) The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive in terms of technical specifications asked for and who has offered the lowest evaluated quotation price.
 - b) 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.
 - c) 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.
13. 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.
 14. A bank draft of **Rs 200.00** towards the Bid document price payable to “**NIT Society Durgapur**” at Durgapur will be enclosed with the bid by the bidder.
 15. A **Demand Draft (DD)** worth of **INR 1000.00** in favor of “**NIT Society Durgapur**” payable at “**Durgapur**” as EMD has to be prepared. The received amount of EMD will be returned on application by the supplier after the receipt of Performance Security. (**The successful bidder have to send the original draft at the concerned department office within 10 days of declaration of Financial Evaluation**).
 16. The successful bidder must submit before the release of payment a valid bank guarantee through any nationalized bank of an amount of **10%** of the order value towards **Performance Security** upto the **warranty period + 60 days** or the same will be deduced from the bill/ invoice before payment is made. The same will be released on application by the supplier after the said interval (warranty period + 60 days).
 17. Delivery to be made at the “**Department of Physics, NIT Durgapur, Mahatma Gandhi Avenue, Durgapur- 713209, West Bengal, India**”.
 18. **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 %.
 19. Installation and Performance Demonstration must be done at the “**Department of Physics, NIT Durgapur, Mahatma Gandhi Avenue, Durgapur- 713209, West Bengal, India**”.
 20. The installation, commissioning and demonstration certificates must be delivered at the day of installation, commissioning and demonstration. Payment will be released only after receiving the installation, commissioning and demonstration certificates.
 21. All other terms and conditions of **GFR 2017 of the Government of India** will be applicable.

22. Settlement of any dispute will be made under the jurisdiction of honourable Durgapur Court.

We look forward to receiving your quotations and thank you for your interest in this project

Sd/-

Dr. Hirok Chaudhuri

Department of Physics,
NIT Durgapur, Durgapur- 713209

Required Technical Specifications

REFERENCE: NITD/PHY/3 RD_SEM/2017-18/7

Dated: 22.03.2018

SI No.	Name of the Experiment and Minimum Specifications	Quantity
1	<p>Experimental set up for Study of Hall voltage and Hall coefficient of a given material, complete setup in all respect.</p> <p>Specifications :</p> <p>CONSTANT CURRENT SOURCE Current Display : 0-20 mA DC Voltage Display : 0+200mV@0.1mV Resolution : 10 micro ampere Current Adjust : 10-turns potential meter With Display unit POWER SUPPLY Voltage : 0-20V DC continuously variable & stabilized With Voltage display Ripple : Less than 25mV Overload : Current limiting protection HALL EFFECT APPARATUS Coils : 500 turns. Coil Current : 8.5Amp (Max.) DIGITAL GAUSS METER Range : 200 Gauss & 2 k Gauss Resolution : 0.1Gauss at 0 - 200 Gauss GE CRYSTAL PCB Crystal : Ge Wafer, P type</p>	2



NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR
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DURGAPUR –713 209, WEST BENGAL, INDIA

FAX: 0343-2547375; Website: www.nitdgp.ac.in
Telephone: + 91-3432546808

REFERENCE:NITD/PHY/3 RD_SEM/2017-18/8

Dated: 22.03.2018

Sub: Notice Inviting E-Tender for “Supply and installation of Experimental set up for determine the value of numerical aperture and attenuation loss of a given optical fiber. Complete setup in all respect”.

Tender Documents may be downloaded from Central Public Procurement Portal <http://eprocure.gov.in/eprocure/app>. Aspiring Bidders who have not enrolled / registered in e-procurement should enrol/ register before participating through the website <http://eprocure.gov.in/eprocure/app> . The portal enrolment is free of cost. Bidders are advised to go through instructions provided at ‘Instructions for online Bid Submission’.

Tenderers can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type ‘NIT’. Thereafter, Click on “GO” button to view all NIT Durgapur tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <http://eprocure.gov.in/eprocure/app> as per the schedule given below. No manual bids will be accepted. All quotation (both Technical and Financial) should be submitted in the E-procurement portal.

SCHEDULE

Name of Organization	National Institute of Technology Durgapur
Tender Type (Open/Limited/EOI/Auction/Single)	Open
Tender Category (Services/Goods/works)	Goods
Type/Form of Contract (Work/Supply/Auction/Service/Buy/Empanelment/ Sell)	Buy
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Instrument /Equipment
Source of Fund (Institute/Project)	Institute (Research Initiation Grant 2017)
Is Multi Currency Allowed	NO
Date of Issue/Publishing	23/03/2018 (15.00 Hrs.)
Document Download/Sale Start Date	23/03/2018 (15.00 Hrs.)
Document Download/Sale End Date	23/04/2018 (15.00 Hrs)
Date for Pre-Bid Conference	N/A
Venue of Pre-Bid Conference	N/A

Last Date and Time for Uploading of Bids	23/04/2018 (15.00 Hrs.)
Date and Time of Opening of Technical Bids	24/04/2018 (15.00 Hrs.)
Tender Fee	200.00
EMD	Rs.1000
No. of Covers (1/2/3/4)	02
Bid Validity days (180/120/90/60/30)	90 days (From last date of opening of tender)
Address for Communication	Dr. Hirok Chaudhuri Department of Physics, National Institute of Technology Durgapur, Mahatma Gandhi Avenue, Durgapur -713209, West Bengal, INDIA
Contact No.	+91 9434789019
Email Address	hirok.chaudhuri@phy.nitdgp.ac.in

1. You are invited to submit your most competitive quotation for the goods as per annexure- I. Manufacturer/authorized dealers of reputed brands of high technical quality with adequate after-sales support facilities are eligible to apply.
2. Each bidder should 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.
3. The bid must be addressed to HOD Department of Physics, NIT Durgapur, M. G Avenue, Durgapur- 713209, West Bengal, India.

4. **Bid Price**

- a. The contract shall be applicable for the full quantity as described in the annexure-I. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
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- e. List of other important documents**

Sl. No.	Category	Sub Category	Sub Category Description
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Part – II (Financial Bid)

All Commercial Terms & Conditions regarding Tax, duties, and other levies, delivery charges and installation charges, if applicable, must be included total price.

Price bid shall be submitted separately as annexure-II (BOQ).

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Quotation shall remain valid for a period not less than **90** days after the deadline date specified for submission.

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We look forward to receiving your quotations and thank you for your interest in this project

Sd/-

Dr. Hirok Chaudhuri

Department of Physics,
NIT Durgapur, Durgapur- 713209

Required Technical Specifications

REFERENCE: NITD/PHY/3 RD_SEM/2017-18/8

Dated: 22.03.2018

SI No.	Name of the Experiment and Minimum Specifications	Quantity
1	<p>Experimental set up for determine the value of numerical aperture and attenuation loss of a given optical fiber.Complete setup in all respect.</p> <p>Specifications :</p> <p>KIT, OPTICAL FIBER 2 Nos 1No 4mtrs + 1No 1mtr , LOSS MEASUREMENT SCALE, Na jig , coupler , built in optical power meter , He Ne laser (3-5 mW)</p>	2



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FAX: 0343-2547375; Website: www.nitdgp.ac.in
Telephone: + 91-3432546808

REFERENCE:NITD/PHY/3 RD_SEM/2017-18/9

Dated: 22.03.2018

Sub: Notice Inviting E-Tender for “Supply and installation of To determine the value of Land g factor by electron spin resonance and NMR –ESR”.

Tender Documents may be downloaded from Central Public Procurement Portal <http://eprocure.gov.in/eprocure/app>. Aspiring Bidders who have not enrolled / registered in e-procurement should enrol/ register before participating through the website <http://eprocure.gov.in/eprocure/app> . The portal enrolment is free of cost. Bidders are advised to go through instructions provided at ‘Instructions for online Bid Submission’.

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SCHEDULE

Name of Organization	National Institute of Technology Durgapur
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Tender Category (Services/Goods/works)	Goods
Type/Form of Contract (Work/Supply/Auction/Service/Buy/Empanelment/ Sell)	Buy
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Instrument /Equipment
Source of Fund (Institute/Project)	Institute (Research Initiation Grant 2017)
Is Multi Currency Allowed	NO
Date of Issue/Publishing	23/03/2018 (15.00 Hrs.)
Document Download/Sale Start Date	23/03/2018 (15.00 Hrs.)
Document Download/Sale End Date	23/04/2018 (15.00 Hrs)
Date for Pre-Bid Conference	N/A
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Last Date and Time for Uploading of Bids	23/04/2018 (15.00 Hrs.)

Date and Time of Opening of Technical Bids	24/04/2018 (15.00 Hrs.)
Tender Fee	200.00
EMD	Rs.1000
No. of Covers (1/2/3/4)	02
Bid Validity days (180/120/90/60/30)	90 days (From last date of opening of tender)
Address for Communication	Dr. Hirok Chaudhuri Department of Physics, National Institute of Technology Durgapur, Mahatma Gandhi Avenue, Durgapur -713209, West Bengal, INDIA
Contact No.	+91 9434789019
Email Address	hirok.chaudhuri@phy.nitdgp.ac.in

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Part – II (Financial Bid)

All Commercial Terms & Conditions regarding Tax, duties, and other levies, delivery charges and installation charges, if applicable, must be included total price.

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Sd/-

Dr. Hirok Chaudhuri

Department of Physics,
NIT Durgapur, Durgapur- 713209

Required Technical Specifications

REFERENCE: NITD/PHY/3 RD_SEM/2017-18/9

Dated: 22.03.2018

SI No.	Name of the Experiment and Minimum Specifications	Quantity
1	To determine the value of Lande g factor by electron spin resonance and NMR -ESR Specifications : Modular set for ESR/NMR Table top experiment. Easy to setup. Glycerin, Teflon, and polystyrene sample for NMR DPPH sample for ESR Magnetic output : Proportional to coil current, 0-1 V, BNC Frequency range : 45 to 75 MHZ approx.(ESR) 10 to 15 MHZ approx. (NMR)	1