

UNIVERSITY OF CALCUTTA



INSTITUTE OF RADIO PHYSICS AND ELECTRONICS

Project: "Development of III-Nitride white and ultra violet light emitting diode technology for green energy and societal impact" Funded by the Office of the Principal Scientific Advisor, Govt. of India  
PI: Anirban Bhattacharyya

NOTICE INVITING TENDER

NIT NUMBER:EQ/ABh/72/19-20

DATE: 13/12/2019

Tenders Are Invited From Bona Fide Vendors For The Following Items:

GAS REGULATOR

Double Stage SS Pressure Regulator QTY 3  
Inlet pressure gauge: 0 to 280 kg/cm<sup>2</sup> (4000 PSI)  
Outlet pressure gauge: 0 to 16 kg/cm<sup>2</sup> (225 PSI)  
Inlet connection: 5/8" BSP (M) RH  
Outlet connection: 1/4" OD Tube Swagelok  
Gas Service: Nitrogen

Double Stage SS Pressure Regulator QTY 4  
Inlet pressure gauge: 0 to 280 kg/cm<sup>2</sup> (4000 PSI)  
Outlet pressure gauge: 0 to 2.1 kg/cm<sup>2</sup> (30 PSI)  
Inlet connection: 5/8" BSP (M) RH  
Outlet connection: 1/4" OD Tube Swagelok  
Gas Service: Nitrogen

Double Stage Pressure Regulator QTY 1  
Inlet pressure gauge: 0 to 280 kg/cm<sup>2</sup> (4000 PSI)  
Outlet pressure gauge: 0 to 2.1 kg/cm<sup>2</sup> (30 PSI)  
Inlet connection: 5/8" BSP (M) RH  
Outlet connection: 1/4" OD Tube Swagelok  
Gas Service: Oxygen

All bids should be complete in all respects  
Last Date for submission of tender: 31/12/19

For submission of tender and any queries, please contact

Dr Anirban Bhattacharyya  
Room 107, Sisir Mitra Bhavan  
Email: [anirban.rpe@caluniv.ac.in](mailto:anirban.rpe@caluniv.ac.in), phone: 9903212063

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NOTICE INVITING TENDER

NIT NUMBER:EQ/ABh/74/19-20

DATE: 13/12/2019

Tenders Are Invited From Bona Fide Vendors For The  
Following Items:

Nitrogen Cylinder: Quantity 5

- Cylinder conforming to IS 7285(Part 2)2004 specification
- Cylinder fitted with appropriate Valve conforming to IS 3224-2002
- Cylinder Hydraulic stretch tested at 250 BAR as required under rule 35 of Gas Cylinder Rule 2016
- Certified copy of the filling permission along with the copy of Test and examination should be made available
- Specification as following
  - Material : Seamless carbon steel cylinder
  - Water Capacity of the Cylinder : 46.7litres
  - Neck ring Fitted
  - Test pressure: 250BAR
  - Working Pressure: 150BAR
  - Empty Cylinder Wt. (Approx): 53Kg
  - Minimum Wall thickness: 5.4mm

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NOTICE INVITING TENDER

NIT NUMBER: EQ/LEDs-PSA/ABh/84/19-20

DATE: 13/12/2019

Tenders Are Invited From Bona Fide Vendors For The  
Following Items:

Repair of AC Plant, Microelectronics  
Laboratory, Institute of Radio Physics and  
Electronics

The current AC Plant backing the Laboratory space of the Microelectronics Laboratory consists of 5-T water cooled compressors, one AHU, piping, ducting and other hardware, electrical switches and circuits. The repair job involves the following:

- Conversion of 2 units of Water-cooled compressor to air cooled systems. Body, Condensers, copper piping and any necessary hardware to be provided
- Replacement of AHU (New system should be double walled, dim 84 x 48 x 48 inch, or eq.) which is equipped with appropriate filters
- Ducting with appropriate insulation from AHU to room and return to connect to three diffusers and two return ducts
- Current electrical system to be modified for new setup as necessary
- All necessary civil works, piping, movement of material, etc to be included.

Prospective vendors may visit the current site for inspection, by sending an email to undersigned. All bids should be complete in all respects. The Vendor must provide documents for GST, PAN, Trade License, Bank Details etc.

Last Date for Tender Submission: 31/12/19

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INSTITUTE OF RADIO PHYSICS AND ELECTRONICS

Project: "Development of Ultraviolet PIN Photodetectors by Molecular Beam Epitaxy for solar blind Focal Planes Arrays (File no. EMR / 2017 / 000987 )", funded by the Science and Engineering Research Board, Govt. of India.

PI: Anirban Bhattacharyya

**NOTICE INVITING TENDER**

**NIT NUMBER: EQ/ABh/88/19-20**

**DATE: 13/12/2019**

**Tenders Are Invited From Bona Fide Vendors For The  
Following Item:**

**CREATING A CLEAN AREA AT THE MICROELECTRONICS  
LABORATORY (INRAPHEL)**

**TWO ROOMS (Drawings Provided) TO BE CREATED USING:**

- Modular double-skin flush Partition 50mm thick, made using PPGI 0.6mm thick with PUFF (Density 40 kg/M3 or better) insulation, with viewing panel whenever appropriate.
- Double skin ceiling 0.6mm thick Ppgi sheet with puff insulation, appropriate framing using hanging arrangement, fittings, silicone sealant etc.
- 40mm thick door with G.I. powder coated 0.8mm thick sheet with PUFF insulation, 4mm thick Plain Glass window, with door closer, handle, door stop. Aluminum frame, silicone Rubber Gasket.
- PPGI Return Air-Riser inside 80mm thick wall panels With using 0.8mm Sheet with PUFF insulation, aluminum powder coated grill, damper.
- Aluminium power coated coving with wall to wall & wall to ceiling
- Ceiling LED light (white or yellow, as per drawing).
- Diffuser and connection to existing AC duct

- The vendor is to provide all necessary items, transportation and installation at the ground floor of the microelectronics laboratory
- The vendor may visit the site for inspection
- All bids should be complete in all respects and include all costs.
- The Vendor must provide documents establishing credentials (user lists), and GST, PAN, Trade License, Bank Details etc.
- The terms of payment are as per University of Calcutta Norms

Last Date for Tender Submission: 31/12/2019

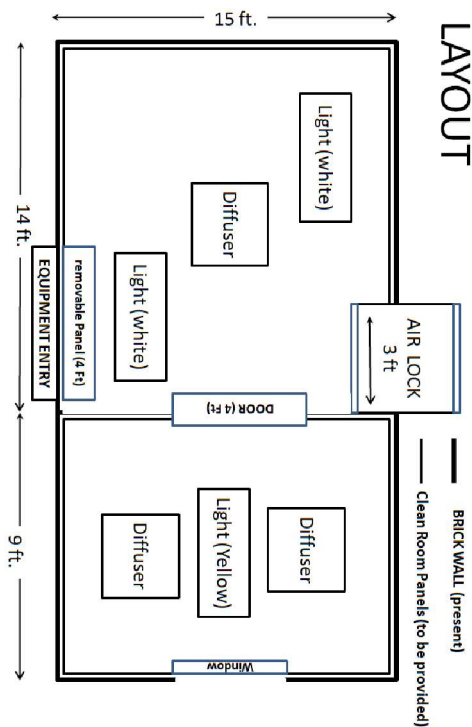
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NOTICE INVITING TENDER

NIT NUMBER: EQ/LEDs-PSA/ABh/90/19-20

DATE: 13/12/2019

Tenders Are Invited From Bona Fide Vendors For The  
Following Items:

Repair of Vacuum Chamber

Microelectronics Laboratory, Institute of Radio  
Physics and Electronics

Work: Modification of a vacuum chamber

- a) Complete buffing of chamber and ports.
- b) Electro-polish
- c) Replacement of O-rings.
- d) Replacement of L-gasket.
- e) Any mechanical modification if needed.
- f) Chamber will be leak tested with Helium leak detector
- g) Modification of mounting stand
- h) 6"size blank flange with KF25 port, T, valve and hardware for gauge mounting

Prospective vendors may visit the current site for inspection of the vacuum chamber, by sending an email to undersigned.

All bids should be complete in all respects. The Vendor must provide documents for GST, PAN, Trade License, Bank Details etc.

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NIT NUMBER: EQ/LEDs-PSA/ABh/91/19-20

DATE: 13/12/2019

Tenders Are Invited From Bona Fide Vendors

For

REPAIR OF THREE STACK TUBE FURNACE

Microelectronics Laboratory, Institute of Radio  
Physics and Electronics

Work: Repair and Modification of existing three  
stack tube Furnace

- Dismantling and Transportation of existing equipment to vendor site if necessary
- Repair and testing and demonstration of all parameters
  - new PID controller ( 3 nos., Eurotherm make),
  - Thyristor ( 3 nos., Eurotherm make),
  - K-type thermocouple ( 3 nos) ,
  - 3 way switch ( 1 no.).
  - Heating zone per stack: 300 mm length, Uniformity : +/- 2 degree C, Maximum temp. 1000 degree C
- Modification of existing cabinet as necessary
- Insulation and other items as required
- Packing, Installation ,testing and commissioning of tube furnace at Microelectronics Laboratory

Prospective vendors may visit the current site for inspection of the furnace, by sending an email to undersigned.

All bids should be complete in all respects. The Vendor must provide documents for GST, PAN, Trade License, Bank Details etc.

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