

Tender Cost ₹ 200/-

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY**  
ALLAHABAD-211 004 (U.P.) INDIA



**Procurement of Incubator Shaker, Deep Freezer and Green house Equipment**  
*(For Contracts value estimated to cost less than Rs.25laks)*

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Country Code (91)+ STD Code (0532)  
Telephone No.: 2271123, 2271122  
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Web Site: [www.mnnit.ac.in](http://www.mnnit.ac.in)

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Quotation Opening Date: 10-04-2012 & Time: 3.30 PM

Quotation Closing Date: 10-04-2012 & Time: 3.00 PM

**INVITATION FOR SUPPLY OF INCUBATOR SHAKER, DEEP FREEZER AND GREEN HOUSE EQUIPMENT**

To,

Sub: Invitation for Quotations for Supply of Incubator Shaker, Deep Freezer and Green house Equipment as per specification given below

You are invited to submit your most competitive quotation for the following goods/equipments. The quotation should be sent directly to the undersigned under Sealed Cover marked "Quotation Reference No., Date", And "The Due Date": -

Sl. No.	BRIEF DESCRIPTION OF THE GOODS	QTY.	Place of Delivery	Installation Requirement if any Yes/No	EMD to be deposited ₹
1	Incubator Shaker Equipment (Detailed Specification attached at ANNEXURE-A)	01 No.	MNNIT, ALLD.	Yes	2,500
2	Deep freezer Equipment (Detailed Specification attached at ANNEXURE-B)	01 No.			2,000
3	Green House Equipment (Detailed Specification attached at ANNEXURE-C)	01 No.			14,500
				<b>Total EMD Amt.</b>	<b>19,000</b>

**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 rewriting.
- b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
- 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 prices should be quoted in Indian Rupees only for indigenous items. For imported items/Equipments, the prices should be quoted foreign currency.
- e) Each bidder shall submit only one quotation.

**3. Validity of Quotation**

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

**4. 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.
- (c) The Quotations would be evaluated separately for each item.

**5. 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.

- 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.
- The bidder whose bid is accepted will be notified for 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 if falls under Govt. purchase rules (**GFR-2005**)

**6. Formats and Signing of Bid**

- The Bidder shall prepare two copies of the bid, clearly making each "Original Bid" and Copy Bid, as appropriate. In the event of any discrepancy between them, the original shall govern.
- The original and all copies of the bid shall be typed or written in indelible ink and signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. The latter authorization shall be initialed by written power- of attorney accompanying the bid. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.
- Any interlineations, erasure or overwriting shall be valid only if they are initiated by the persons or persons signing the bid.
- The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.

7. 100% Payment shall be made only after satisfactory delivery and installation of the goods.

8. Normal Commercial warranty/ guarantee shall be applicable to the supplied goods.

9. You are requested to provide your offer latest by **3.00 P.M. on 10/04/2012**

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

**Faculty in-charge, Purchase**

**Address:** Motilal Nehru National Institute of Technology,  
Teliyarganj, Allahabad –211004. (U.P)

Ph. Nos.: 0532-227+1123, 227+1122,

Fax No.0532-2545822 (SPO), 0532-25453419 (DIR. Office)

**FORMAT OF QUOTATION**

Item	Description of Goods	Qty.	Quoted Unit Rate in Rs.	Total Amount	
				In Figures	In Words
1	Incubator Shaker Equipment (Detailed Specification attached at ANNEXURE-A)	01 No.			
2	Deep freezer Equipment (Detailed Specification attached at ANNEXURE-B)	01 No.			
3	Green House Equipment (Detailed Specification attached at ANNEXURE-C)	01 No.			

We agree to supply the above goods in accordance with the technical specifications for a total contract price of \_\_\_\_\_ within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warrantee/guarantee of \_\_\_\_\_ months shall apply to the offered goods.

**Signature & Seal of Supplier**

**Note:**

1. Preference will be given to ISO 9001-2000 certified manufacture/supplier, who can ensure the manufacturing of the machine as per the required testing standards/tender specifications within the specified tolerance limit.
2. Bidders should provide copies of original Memorandum and Articles of Association, defining the constitution of legal status, place of registration and place of business of the company.

1.	Closing Date/Time for submission of Quotations	10/04/2012 3:00 P.M.
2.	Opening Date/Time of Quotations	10/04/2012 3:30 P.M.
3.	Quotations to be submitted at	The Office of Faculty-in-charge, Purchase Motilal Nehru National Institute of Technology, Allahabad-211 004(U.P.)
4.	Place of opening of quotations	Faculty-in-charge, purchase Office.

### **INSTRUCTIONS/GUIDELINES TO BIDDERS**

1. Bidders who had supplied the Government departments, PSUs and reputed Institutions and Organizations should only apply.
2. The bidder should enclose the client list with contact address along with Phone/Fax for reference.
3. Please quote the prices of F.O.R. MNNIT, Allahabad.
4. The Bidders are requested to submit their Quotation with EMD ₹ **19,000.00** in the form of Demand Draft/ Bank Guarantee/ Short term Deposit of the cost of equipments/items in favour of "The Director, MNNIT, Allahabad" payable at Allahabad. Quotation without EMD will be summarily rejected. EMD's of all Bidders will be returned back after the purchase order /contract agreement is issued to successful bidder.  
**Note:** EMD can be submitted as per quoted items (i.e. ₹ **2,500.00** for Sl. no. 1, ₹ **2,000** for Sl. no. 2 and ₹ **14,500** for Sl. no. 3)
5. Successful Bidders must have to submit the performance security @ 5% of the purchase order or contract value and it will be retained up to the warranty period.
6. The bidder should enclose relevant documents wherever necessary to substantiate his eligibility.
7. The Institute is eligible for and can provide necessary documentation for Custom/Excise and
8. Octroi exemption on demand, if permitted under rule.
9. MNNIT, Allahabad, reserves the right to reject, accept any or whole or part of any of the tender without assigning any reason thereof and no claim will be heard. In case of dispute, the decision of The Director, MNNIT, and Allahabad will be final and binding.
10. If the successful bidder is not able to supply the goods items within the delivery date specified in the purchase order, the purchase order will be automatically treated as cancelled after expiry of delivery date period. The vendor will have to submit an undertaking in this regard that this condition is acceptable to him. In case of extra ordinary circumstances the vendors must send a request for extension of validity of purchase orders, with proper justification prior to the expiry of validity date for consideration.
11. Payment condition: 100% payment will be made only after satisfactory supply and on site installation of equipments. Advance payment is not permitted.
12. In case of sophisticated equipments, an on-site training need to be provided with no extra cost.
13. The quotation must be accompanied by leaflets/operation manuals/books etc.
14. Wherever applicable the vendors must quote the branded /desired items.

**Note:** Please submit the cost of tender i.e. Rs.200/- in the form of Demand draft in favour of  
**The Director, MNNIT, Allahabad payable at Allahabad**

**MANUFACTURERS' AUTHORIZATION FORM (MAF)**

No. \_\_\_\_\_

dated.....

To,

Dear Sir:

Tender No.

We \_\_\_\_\_ who are established and reputable manufacturers of (name and descriptions of goods offered) having factories at \_\_\_\_\_ (address of factory) do hereby authorize M/s \_\_\_\_\_ (Name and address of Agent) to submit a bid, and sign the contract with you for the goods manufactured by us against the above Invitation of Bidders.

We hereby extend our full guarantee and warranty for the goods and services offered for supply by the above firm against this Invitation of Bidders.

Yours faithfully,

(Name)  
(Name of manufacturers)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. It should be included by the Bidder in its bid.

**ANNEXURE-A**

**TECHNICAL SPECIFICATION OF VARIOUS EQUIPMENT FOR LAB**

**Deep Freezer -20°C**

**Up right Model Cap.** 340 liters or more

**Temp. Range:** -16 to -24 deg.C

**Sensitivity:** +/- 1 deg.C

**Inner Chamber:** Stainless Steel Inner Chamber

Compartmentalized for easy handling and lesser temperature Loss with 6 -8 shelves.

**Outer Chamber:** Epoxy Powder coated Galvanized Steel with Double walled Insulation.

**Insulation:** PUF with cyclopentane, 4 inches

Super efficient danfoss Hermetically Sealed Compressor

CFC/HCFC Free Eco Friendly Refrigerant Gas

Efficient relays and starting capacitors

Low Noise Level around 50dBA

Heated Door seals for preventing Ice Formation on the doors

Single solid door with advance lock for easy opening

Multiple Dual Layered insulated Inner doors for easy accessibility to crucial samples

High Efficient special evaporator, defrost system and fitted with Caster for easy movement.

Complete with Electric fuse, safety fuse, shock protected.

**Power Supply:** 220Volts, 50/60 Hz. Operation along with branded power pack.

Instrument should be CE or UL Certified.

**ANNEXURE-B****SHAKING INCUBATOR**

Double walled inside made of S.S.304 and outside of M.S. with proper coating. The gap of 3” between two walls should be filled with pure mineral wool. Option should be in lid for complete visibility to open the chamber. System should be ideal for rapid air circulation along with quick temperature equilibration and recovery when needed. The temperature should be controlled by microprocessor electronic digital temperature indicator cum controller with temperature range 5°C above ambient to 60°C +/-0.5 °C having the orbital shaking speed 20-250 RPM with electronic digital timer and provision for time settable range upto 999 minutes. RPM Meter should also be fitted in the control panel to check the speed of rotation. Fluorescent tube is also needed in system. Incubator should have shaking tray of 18 x 18” to accept 4 clamp of 500 ml, 8clamps of 250 ml and 4 clamps of 100ml conical flasks. The incubator should be supplied with the suitable power pack to run on 220/230volt A.C. 50 Hz. without any trouble. Instrument should be CE or UL Certified.

**ANNEXURE-C****GREEN HOUSE**

S. No	NAME OF ITEMS	PRODUCT TECHNICAL DETAILS	UNITS										
1.	<b>Structure</b>	<p>A) All Structures, Rafters, Perlines, Trusses should be hot dip galvanised and designed to take a wind load up to 100 km/h.</p> <p><b>Specification:</b></p> <p><b>Frame:</b> All galvanised steel should be used and design as per IS875. End wall and side wall framing Aluminium corner trim, aluminium ridge bar and Galvanised gutter trim Brackets &amp; Fasteners as required assembling frame.</p> <p><b>Pipe Size in OD:</b> the GI pipe size 50 x 50 mm, 42mm, 32mm, thickness with min.2mm+/-2mm.</p> <p>B) Nuts and other metallic parts: should Include all the elements required for joining and water tighten components (such as fittings, clamps, screws and nuts plated against corrosion).</p>	<b>1 Complete Set</b>										
2.	<b>Pre Ante Room &amp; Doors</b>	<p>A) <b>Pre Ante Room:</b> of size 4ft. X 6ft. X 8ft. (1 x w x h)</p> <p>B) <b>Doors:</b> of size: 6'-3" x 3' long &amp; wide clear 6mm polycarbonate glazing, top &amp; bottom tracks, jambs, flashings &amp; installation hardware.</p>	<b>02 Nos.</b>										
3.	<b>Cladding</b>	<p>Roof, end walls, % sidewalls for the greenhouse-set and pre ante room for rigid covering.</p> <p>6mm thick clear multi wall polycarbonate sheet, Aluminium Profile gasket, Silicon sealant, and accessories.</p> <p>Roof and Side wall covers by 6mm, UV stabilized clear polycarbonate sheet. Details are given below:</p> <table> <tr> <td>Sheet thickness</td> <td>6mm</td> </tr> <tr> <td>Structure</td> <td>2 TS</td> </tr> <tr> <td>Approx. Weight g/m<sup>2</sup></td> <td>1300</td> </tr> <tr> <td>Light Transmission</td> <td>81%</td> </tr> <tr> <td>K Valve</td> <td>3</td> </tr> </table> <p><b>Details of sheet</b></p> <p>Should be impact resistant, energy saving, multiwall polycarbonate sheet. Should feature surface treatment which provides almost total resistance degradation caused by UV radiation in sunlight. The entire sheet range should have a Ten year limited warranty against discolorations, loss of light transmission, and / or loss of strength due to weathering.</p> <p><b>Impact Strength:</b> Sheet should have outstanding impact performance over wide temperature range -40degree C + 120 degree C and also after prolonged outdoor exposure.</p> <p><b>Hail Simulation:</b> As a roof and side glazing material polycarbonate sheet is subjected to extremes of weathers storms, hail stones, wind, and snow fall and ice formation.</p>	Sheet thickness	6mm	Structure	2 TS	Approx. Weight g/m <sup>2</sup>	1300	Light Transmission	81%	K Valve	3	
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		<p>Under these conditions the product should be virtually unbreakable and should be able to accommodate the subsequent temperature changes to conditions without breaking or buckling.</p> <p><b>Light Transmission:</b> The sunlight which reaches the surface of the earth has wavelength range between 295-2140nm. This optical window should be divided into the following section.</p> <p>UVB Middle ultra violet region 280-315nm</p> <p>UVA near ultra violet region 215-380nm, 0 visible light region 380-780nm, 82% Near Infra red region 780-1400nm, 82-20% Middle Infra vix region 1400-3000, 62-0%</p> <p>Polycarbonate sheet should be treated with exclusively antifungal treatment to enhance the life of the sheet .</p>	
4.	<b>Shading System</b>	<b>Shading System (external):</b> 75 % shading net with rolling arrangement connecting pipe etc. can be rolled when not required.	<b>1 complete set</b>
5.	<b>Lighting System</b>	<b>Photo synthetically Active Radiation Lamp with Photo simulators</b> <b>Should have specific action spectra lamp system for photosynthesis for commercial production or research. Fluorescent Tube light</b> standard 4' with complete fitting & fixing in pre ante room.	<b>1 No.</b>
6.	<b>Cooling System</b>	<b>AIR CONDITIONER UNITS:</b> air conditioner units 1.5 ton/2ton each inside the greenhouse, should be able to maintain temperature minimum 20 <sup>0</sup> C+_2 <sup>0</sup> C throughout the year as desired.	<b>Appropriate units</b>
7.	<b>Heating System</b>	<b>Heat Convactor:</b> Complete uniform heat circulation system should be given in this heat (2.4 KW) so that the heat can be blown in the complete area. Should be able to maintain required temperature.	<b>1 No.</b>
8.	<b>Humidity System</b>	<b>Vapour Humidifier</b> <b>Specifications:</b> For 40m <sup>2</sup> space. It should produce vapour simulating natural humidity. Specifications: Produces simulated natural Humidity. Special feature: Technical: 2KW low-density polymer thermal isolation should reduce energy losses during OFF Period to minimum. Input: 220VAC, Phase-single. Ambient: 5 <sup>0</sup> to 45 <sup>0</sup> C, RH up to 95%. Wt. 10 Kg.	<b>1 Complete Set</b>
9.	<b>Control Panel For Automation</b>	<p>Microclimate Monitor and Control Panel, which include Light, Temperature &amp; Humidity Control system.</p> <p>For details:</p> <p><b>a) PHOTOPERIODIC SIULATOR DIGITAL BASE TIMER FOR LIGHT</b></p> <p><b>Specifications:</b> Switches ON/OFF lights at the time set by user, despite power failures. Being digital, there are less moving parts, hence more reliable. Special feature*.</p> <p><b>Technical:</b> Photoperiodic repeat cycle 24 hrs minimum ON/OFF period 30 minutes. Backup auto recharging. Powered output directly drives up to 100 tube lights 40W each. Resolution: Adjustable by 15 minutes availability. Thermal safety with 15A cut-out.</p> <p><b>Accuracy</b> _+10 sec/day. Input: 200-240 VC. Phase-singles. Ambient: 5<sup>0</sup> to 45<sup>0</sup>C, RH up to 85 % normally. Weight 2 Kg.</p>	<b>1 Complete Set</b>

		<p><b>b) TEMPERATURE CONTROLLER MICROCLIMATE</b></p> <p><b>Specifications:</b> It should control the temperature of the tissue culture room, growth room, hardening room or any specific room. Two Air conditioners should be controlled independently by using this temperature controller.</p> <p><b>Special feature Technical :</b> - Temp. Range 0.1 to 59.9<sup>0</sup> C. Accuracy: +_1<sup>0</sup> C. Resol. 0.1 LED 13mm. Hyst. 0.4<sup>0</sup>C. 3 minutes delay for air conditioner. With sensor probe Sensor cord 5 meters. Powered output can directly drive up to 2 AC ton air conditioner and 4.4 KW heat convectors. 1 cooling, 1 heating auto select. Input 220 VAC, phase-single. ambient 5<sup>0</sup> to 45<sup>0</sup> C, RH up to 85% normally. Size 10 x 30 x 15 cm, wt 4kg, Timer should be available with this controller.</p> <p><b>c) HUMIDITY MONITOR MICROCLIMATE CONTROL _+5 %,</b></p> <p><b>Specifications:</b> Dehumidifiers, it maintains RH in the range of _+ 5%.<b>Special feature: Technical:</b> Range 30% to 90%. Real RH _+2%. +_1 digit (45%), display control analogue. Powered output directly controls up to 4.4 KW humidifier, dehumidifier, Input 220VAC, phase single. Ambient: 5<sup>0</sup>to 45<sup>0</sup> C, RH up to 95%. Size 10 x 30 x 20cm, Wt.2kg.</p>	
10.	<b>Civil Work</b>	<p><b>A) Foundation wall</b> for all sides of greenhouse along with the pre anteroom. WIDE BASED 1' below earth's surface, as kick-board 9' wide. Frame base block height 2'.</p> <p><b>B) Floor:</b> complete area made of crushed bricks 2 'over that rodi (small stone pieces) up to 2' over that cement plaster with ratio of rodi sand, cement , 4:3:1 tiled with of white anti slippery hard material.</p> <p><b>C) Tiles on Walls:</b> The green house and pre ante room walls should be duly covered 2 ft height from ground level with hard materials tiles inside the green house.</p> <p><b>D) Plinth protections:</b> plinth protection @ 45 cm wide area all around the green house as well as by covering pre anteroom.</p>	<b>Complete job in all respects</b>
11.	<b>Electrical Wiring</b>	All wires should be of copper and desired load and switches of reputed make, extra switches should also be provided as stand by. Each feature should have own electric line with MCB and will be underground in PVC pipe complete set with A grade work.	<b>1 Complete Set</b>
12.	<b>Miscellaneous Items</b>	Miscellaneous wash basin, Aluminium ladder, plumbing polymer pipes etc. All fittings of ISI or equivalent material	<b>1 Complete Set</b>