



National Bureau of Plant Genetic Resources

(Indian Council of Agricultural Research)

Pusa Campus, New Delhi – 110 012

Phone: 011-25841022 (Ext. 261) 25849545; FAX: 011-25842495, 25849459; e-mail: purchase@nbpgr.ernet.in



File No. **Open Tender 2015**

Dated: **January, 2015**

Sub: Open Tender Enquiry – (Two Bid System): For supply of Equipments & Instruments.

(NOTE: The envelope containing the tender as well as subsequent communications should be addressed and delivered to 'The Director, NBPGR, Pusa Campus, New Delhi -110012.

To:

Sir(s),

Sealed tenders are invited (under Two Bid System – (1) "TECHNICAL BID" & (2) "PRICE BID") by post/per bearer from bonafide manufacturers / authorised dealers for supply of "Equipments & Instruments" as per categories / specifications and/or quantities detailed in the **Schedules / Specifications (Annexure – V)** attached.

The "Tender Documents" comprising the Compulsory Documents (**Annexure I**), *General Terms and Conditions of Contract (Annexure II)* and the *Special Terms and Conditions of Contract (Annexure III)* which will govern any contract made, the *Tender Application Form (Annexure IV)* and the *Schedule of contract / specifications of items (Annexure-V)* are enclosed herewith. If you are in a position to quote for the contract in accordance with the requirements stated in the attached schedule as per the terms and conditions stated, please submit your quotation to this office.

The tender document may be obtained from the **NBPGR, Purchase Section** in person by the bonafide applicant or his authorised representative by applying in their letter head **at a cost of Rs. 1000.00 (Rupees One Thousand Only) for each item**. The "tender documents" can also be downloaded from the web site www.nbpgr.ernet.in, and in such case the same may be signed and submitted as per the procedures mentioned hereinafter along with the fee for the "tender documents" @ Rs 1000.00 (Rupees One Thousand Only) for each item (**To be submitted along with the Technical Bid. It should not be enclosed in the envelope containing the Price Bid**). All the payment may be made by **Demand Draft**; drawn in favour of Director, NBPGR, New Delhi. **Cheques will not be accepted.**

Tenderers are requested that, before quoting their rates or sending tender, the tender forms may please be read out thoroughly (line by line) so as to have a clear knowledge of the requirement contained therein, otherwise purchaser will not be held responsible for any error / oversight of his own and the penalties shall be levied for not complying with the requirements stated herein or supply of the required item/services.

The form is a Standard Form of Tender. Certain clause / clauses may not be applicable in some cases. So, Tenderers are requested to ignore such clause / clauses, which are not applicable in the instant case.

The Tender forms containing the compulsory documents (**Annexure – I**), the Terms and Conditions (**Annexure – II**), the Special Terms and Conditions of Contract (**Annexure III**), the Tender Application Form (**Annexure IV**) and the Schedule of contract / specifications of items (**Annexure-V**), **form of Bank Guarantee (Annexure VI)** should be returned in original along with the technical bid document, intact, after filling up the same and duly signing in full with stamp, on each page, failing which the tender shall be liable for rejection.

In the event of the space on the Schedule of contract / specifications of items/proforma being insufficient for the required purpose, additional pages may be added. Each such additional page must be numbered consecutively, bearing the Tender Number and be duly signed and stamped by the tenderer. In such cases, reference to the additional pages must be made in the Tender Form. If any modification of the schedule is considered necessary, you should communicate the same by means of separate letter sent along with the Tender.

PARTICULARS

Cost of each Tender Document	<u>Rs. 1000.00 (Rupees One Thousand Only) for each item in the shape of Cash/DD in favour of Director, NBPGR Payable at New Delhi</u>
Period for supply of Blank Tender Forms and related documents at the NBPGR on all Working Days (Except 2 nd Saturdays, Sundays and Holidays)	15.01.2015 to 12.02.2015 up to 3.00 pm
Due Date & Time of submission of completed Tender Document in the Tender Box kept at the Main Gate no. 2, NBPGR, New Delhi	13.02.2015 upto 2.00 pm
Date & Time of Opening of Technical Bid	<u>16.02.2015 at 10:30 AM</u>
Bid Security /Earnest Money	Amount of bid security /Earnest Money as indicated against each item in Annexure –V may be submitted with Technical bid in separate envelope super-scribed in case of participating for more than one item super-scribed “EMD for(name of item)
Submission of Tender	Tender /Quotation for each item may be submitted separately with Tender fee of ₹ 1,000/- and appropriate value of EMD/bid security
Performance security / Security Deposit Money to be deposited	10 % of the contract Value of each of individual equipment & instrument to be purchased from the tenderer after selection / finalization.

The Director, NBPGR, does not pledge himself to accept the lowest or any tender and reserves the right of accepting or rejecting the whole or any part of the tender without assigning any reason thereof. Canvassing in any form by the tenderer or his representative with any of the officials of NBPGR shall render the tender liable to be rejected.

THE FIRM IS REQUESTED TO FOLLOW THE CHECK LIST AT THE TIME OF SUBMISSION OF TENDER DOCUMENT WITHOUT WHICH THE OFFER IS LIABLE TO BE REJECTED:

CHECK LIST

[Without which the offer is liable to be rejected]

1. Tender Document Fee: Rs. _____ DD No. _____ dated _____
2. EMD Value: Rs. _____ DD No. _____ Dated _____
3. Valid Trade Licence Certificate: Valid upto _____
4. Warranty Certificate: At least for one year, submitted [Yes /No]
5. VAT / CST /Tin No. certificate: Submitted [Yes /No]
6. Complete Name & Address of Company/Firm (Principal/Authorised agent *) should be mentioned [Yes/No]
7. Original tender document signing all the pages: Submitted, [Yes/No.]
8. COPY OF PAN/TAN CARD: Submitted, [Yes/No.]
9. Details of IFSC Code, Account No. and Name of Bank and its Branch for local and import payment through LC. [Yes/No]

Copy of authorisation certificate issued by the Principal firm must be enclosed with the Technical Bid, failing which the Tender will be rejected.

Enclosures:

1. Annexure – I (Compulsory Documents).
2. Annexure – II (General Tender Terms & Conditions).
3. Annexure – III (Special Tender Terms & Conditions).
4. Annexure – IV (Tender Application Form).
5. Annexure –V (Schedule / specifications of items/equipment).
6. Annexure – VI (Form of Bank Guarantee)

Yours sincerely,

Assistant Admn. Officer (P)

To
The Director,
NBPGR, Pusa Campus,
New Delhi -110012

COMPULSORY DOCUMENTS:

[Without which the offer is liable to be rejected)

1. Tender Document Fee: Rs. _____ DD No. _____ dated _____
2. EMD Value: Rs. _____ DD No. _____ Dated _____
3. Valid Trade Licence Certificate: Valid upto _____
4. Warranty Certificate: At least for one year, submitted [Yes /No]
5. VAT / CST /Tin No. certificate: Submitted [Yes /No]
6. Complete Name & Address of Company/Firm (Principal/Authorised agent *) should be mentioned [Yes/No]
7. Original tender document signing all the pages: Submitted, [Yes/No.]
8. COPY OF PAN/TAN CARD: Submitted, [Yes/No.]
9. Details of IFSC Code, Account No. and Name of Bank and its Branch for local and import payment through LC. [Yes/No]

Copy of authorisation certificate issued by the Principal firm must be enclosed with the Technical Bid, failing which the Tender will be rejected.

Date:-

Signature of the tenderer:-

Place:-

Full Name:-
Designation:-

(Office seal of the tenderer)

GENERAL TERMS AND CONDITIONS FOR TENDER / BID

1. PREPARATION OF TENDER:

- a. The original Tender form containing the Terms and Conditions (General and Special) and the Schedule should be returned in original after filling up the form and duly signing in full on each page with stamp, whether you are quoting for any item or not, failing which the tender is liable to be rejected.
- b. If any item in the schedule is not being tendered for, the corresponding space against the item should be defaced by writing '**not quoting**'.
- c. In the event of the space on the schedule form being insufficient for the required purpose, additional pages may be added. Each such additional page must be numbered consecutively, bear the Tender Number and be duly signed and stamped by you. In such cases, reference to the additional pages must be made in the Tender Form.
- d. The Tenderer shall, wherever call upon to do so, give full information with reference to the services in hand and shall also permit the Director, NBPGR or any other officer nominated by him to inspect the premises of the tenderer at all reasonable times and shall give full assistance and information as may be required by him in connection with the contract.
- e. The tender is liable to be rejected if complete information is not given therein or if the particulars and date (if any) asked for in the tender are not duly & fully filled in. Particular attention may be given to the dates of delivery, places of delivery and also to the particulars referred to in the conditions of contract so as to comply with them.

2. PROCEDURE FOR SUBMISSION OF TENDERS / BIDS:

The tender should be submitted *in 'TWO BID' SYSTEM:-*

i. TECHNICAL BIDS:

- a. TECHNICAL BIDS for each item is to be submitted in separate envelope, sealed and super-scribed with the wordings "TECHNICAL BID" for " _____ " (Name of item).
- b. The original copy of tender (Annexure – I to Annexure - VI), duly completed and signed on each page, should be submitted/returned, enclosed along with the "TECHNICAL BID".
- c. The "Technical Bid" shall contain Earnest Money and the Cost of the Tender Document (if downloaded from the web), both in the form of demand drafts as prescribed herein before, and all the technical details & documents along with commercial terms and conditions in support of the quoted equipment.
- d. The Earnest Money Deposit (EMD) for each item should be submitted in separate envelope super-scribed with the wordings "EMD".
- e. Prices / Costs of the items should not be indicated anywhere in the Technical Bid. This should be followed meticulously failing which the tender will be rejected.

ii. **PRICE (FINANCE) BID**

- a) **PRICE (FINANCE) BID** for **each ITEM** is to be submitted in **SEPARATE** sealed envelopes, super scribed with the wordings "**PRICE (FINANCIAL) BID**" and the "**NAME OF THE ITEM**". All such sealed envelopes of Price Bids for individual items are to be kept in a large sealed envelope, again super-scribed with the wordings "**PRICE (FINANCIAL) BID**". This should be followed meticulously failing which the tender is liable to be rejected.
 - b) The 'Price/Financial Bid' will contain item-wise price / cost for the items mentioned / quoted in the Technical Bid.
 - c) **The comparison of price shall be taken on the date of opening of tender in case of foreign currency involved.**
- iii. Both the Technical Bid envelope and the Price (Financial) Bid envelope, prepared as above, are to be kept in a larger single envelope super-scribed with "**TENDER (TWO BID SYSTEM) FOR SUPPLY OF Equipments and Instruments**" so as to give a double cover protection.
- iv. The outer cover should also be sealed and addressed to the Director, NBPGR, New Delhi super-scribed tender for " _____ " (name of item)

NOTE: Tenders submitted without following the 'Two Bid' System procedure will be rejected.

3. LATEST HOUR FOR RECEIPT OF THE TENDER:

Your tender must reach this office not later than the date and time notified in the Tender Notice stated in the TENDER DOCUMENT. Any tender received after that shall be rejected. In the event of the stipulated date of opening of the tender being declared a closed holiday for Govt. offices, the date of opening of the tender(s) will be the next working day. Tender sent by hand delivery, should be delivered at this office not later than the due date and time stipulated in the schedule of tender.

4. THIS TENDER DOCUMENT IS NON-TRANSFERABLE

5. PERIOD FOR WHICH THE OFFER WILL REMAIN OPEN AND PERIOD OF VALIDITY:

All tenders should remain open for acceptance for **a period of Six months** from the date **of opening of the tender.**

6. OPENING OF TENDER:

- I. The **Technical bids** will be opened on the specified date and time in the presence of bidders/representatives who choose to attend on the date and time as mentioned.
- II. The bidders/ representatives who are present in the opening shall sign the attendance sheet to mark the presence.
- III. The **Price (Financial) bids** of the bidders whose Technical Bids are found technically suitable (after the selection of samples / demonstration of equipment / Item, if any) only will be opened later. **The decision of the committee on technical suitability shall be final and shall not be opened for discussion.**

7. PRICES:

- i) Prices are to be quoted in Indian Rupees/FOB.
- ii) Prices quoted in the Price (Financial) Bid must be meaningful and measurable in the context.
- iii) The prices quoted must be per unit shown in the schedule inclusive of all packaging, installation and delivery charges wherever applicable. Refunds on account of returnable package (if any) are to be separately specified. Price must be clearly shown in figures and words.
- iv) Tenderers should clearly specify whether prices quoted are inclusive of Sales Tax/ VAT / duties / statutory charges or such charges as extra. Where no specific mention is made to Sales tax / VAT/ or other duties, prices quoted shall be **deemed to be inclusive of such taxes / charges**.
- v) The Director, NBPGR is not authorized to issue 'C/D forms'.

8. BID SECURITY / EARNEST MONEY:

The EMD/bid security may be submitted with appropriate value for each item separately as indicated in Annexure -V.

9.

a) SECURITY DEPOSIT / PERFORMANCE SECURITY:

On acceptance of the tender, within the period specified by the Director, NBPGR, the successful tenderer / contractor shall deposit a sum equivalent to **10 % (Ten Percentages) of the contract value, rounded off to the nearest Rupee valid upto 60 days after the date of completion of all contractual obligations by the supplier including the warranty obligation before the supply is made**. This has to be in the form of a Bank Draft / Bank Guarantee, (Annexure VI) drawn in any of the nationalised bank, in favour of **the Director, NBPGR, New Delhi**. On due performance and successful completion of the contract in all respect including warranty period, the security money deposit shall be returned to the contractor without any interest. Also, *non-performance/unsatisfactory performance* or violation of terms and conditions of the contract will make the contractor liable for forfeiture of security deposit. The decision of the NBPGR shall be final and binding on this count.

10. **DELIVERY TERMS:**

- a) **Time and date of delivery:** The time and the date of delivery of the stores / date of execution of work as stipulated in the schedule shall be deemed to be the essence of contract and delivery / execution must be completed not later than the date(s) specified. The delivery of the stores / execution of work / providing the services etc. are required to be completed within a period as specified in the purchase order and at the place mentioned therein. Normally maximum of 6 weeks time is allowed from the date of issue of the purchase order for execution of the supply of the equipment / article. However, the time allowed for execution of order shall be governed by the stipulated time mentioned on the purchase order of Delivery of equipment / Items.
- b) For the purpose of the contract FOB value will be taken into consideration only.
- c) Delivery period for goods including Erection/installation and commissioning (if required, depending on the goods ordered) are to be completed within 90 days after opening of LC for imported item.
- d) Terms of Inspection by the purchasers representative.

- e) Training of purchaser's operator(s) for operating the goods ordered, as and if necessary _____operator(s) is/are to be trained for a period of _____ Weeks at purchaser's premises/supplier's premises for successfully operating the goods purchased. The training shall be completed by_____.
- f) In case this office does not receive supply of the above item(s), by due or extended date of delivery, the above stated order will stand CANCELLED, unless extension is sought for and granted by the competent authority for the late supply.

11. **PAYMENT TERMS:**

- a) 100% Payment will be made only after supply, inspection, complete installation and satisfactory demonstration of performance of the item / equipment / instrument (including supply of all accessories) subject to deposition of a sum equivalent to 10 % (Ten Percentages) of the contract Value as mentioned under Security Deposit / Performance Security Clause mentioned above or submission of Performance Bank Guarantee for 10% value of the order valid for the warranty period from any Scheduled Bank. No advance payment before effecting supply as above either part or full of any kind shall be made under any circumstances.
- b) Payment shall be made through **Electronic Clearing System/RTGS**. Normally, payment is made within six weeks after satisfactory inspection, installation and performance of the item / equipment / instrument subject to submission of appropriate and correct invoice, Challans and other documents as deemed fit.

12. **Other Terms**

- a) **Dispute Resolution Mechanism (Arbitration):** If any dispute or difference arises between the purchaser and the supplier relating to any matter connected with the contract, the parties shall make every effort to resolve the same amicably by mutual discussions. However, if the parties fail to resolve the dispute or difference by such mutual discussion within 30 days, either the purchaser or the supplier may give notice to the other party of its intention to refer the same to arbitration. The arbitration shall commence thereafter. The arbitration shall be conducted by a sole arbitrator, who will be appointed by Director, NBPGR on behalf of the Secretary, ICAR and the procedure to be followed in this respect will be as per the Indian Arbitration and Conciliation Act, 1996. The venue of the arbitration shall be the place from where the contract is issued.
- b) **Document:** The tenderer should have a valid **Trade licence, PAN / TAN / other statutory document as applicable** and produce attested copies of such certificates along with the tender papers in Technical Bid, failing which the tender is liable to be rejected.
- c) **Right to accept / reject:** The NBPGR authority reserves the right to **reject** any or all tender without assigning any reason whatsoever. Also, the NBPGR authority reserves the right to **award** any contract to any successful agency at its discretion and this will be binding on the tenderer.

13. **Liquidated Damage Clause :**

If any time during the performance of the contract, the supplier encounters conditions hindering timely delivery of the goods, the supplier shall promptly inform the purchaser in writing the fact of the delay and likely duration of the same. After receipt of suppliers communication, the purchaser shall decide as to whether to cancel the contract for the un-supplied portion after the existing delivery period, or to extend the delivery period suitably by issuing an amendment to the contract. If the supplier fails to deliver the goods and / or perform the services within the contractual delivery period for reasons other than circumstances beyond supplier's control (which will be determined by the purchaser) and the purchaser extends the delivery period, the purchaser will also deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% (half per cent) of the delivered price of the delayed goods or unperformed services for per week of delay or part thereof until actual delivery of performance. The maximum limit of such deduction will however, be 10% (ten per cent) of the contract price of the delayed goods or services.

Further, during such delayed period of supply and / or performance, the supplier shall not be entitled to any increase in price and cost, whatsoever, or any ground. However, the purchaser shall be entitled to the benefit of any decrease in price and cost of any ground, whatsoever, of the goods & services, supplied during the period of delay.

The purchaser's letter (to the supplier, with copies endorsed to others concerned) extending the delivery period will be subject to the above conditions.

Assistant Admn. Officer (P)

SPECIAL TERMS AND CONDITIONS

The following special terms and conditions shall apply for supply of **Equipments & Instruments** at NBPGR, Pusa Campus, New Delhi -110012.

A. INSPECTION / INSTALLATION OF ITEMS / EQUIPMENTS:

Supplies shall be accepted as completed subject to **satisfactory and complete installation** (upto full potentials claimed for that respective equipment/ Item) of the equipment / items supplied including supply of all accessories, and certified by the assigned officer, and subsequent inspection by Indenting Officer and verification committee of NBPGR, New Delhi. Any defect found in the materials / equipment / items supplied / work done will render the supplies / work open to rejection and decision of the Indenting Officer and Verification Committee, NBPGR, New Delhi shall be final and legally binding. The tenderers shall **have to take the same (rejected store) back at their own cost and risk**, and **shall replace** such rejections with the items of standard specifications / quality as acceptable to the NBPGR, authority. Alternatively, the stores may be purchased from others / work may be executed through others, at the risks and costs of the tenderer, at the discretion of the authority.

B. WARRANTY / GUARANTEE:

Along with the **Technical Bid** the following information are to be provided exclusively.

- (i) All the **equipments** shall be carrying **at least 1** (One) year warranty / guarantee against defects of manufacturer/workmanship and poor quality of components. Accordingly, the **tenderers shall indicate clearly** and exhaustively the mandatory warranty / guarantee offered by them / by the manufacturing / supplying firms, its duration, as well as the various Terms & Conditions involved therein, at the time of submission of the Technical Bid papers.
- (ii) **Uptime guarantee:** During the warranty/guarantee period the firm will maintain the equipment in good working condition. All the complaints will be attended by the firm within 24 hours of the dispatch of a complaint to their office. The firm shall ensure that machine is set right within 10 days (Ten Days) of the intimation.

C. DETAILS OF ITEMS QUOTED:

It is mandatory to indicate the full name, make / brand, model number, and details specification of the equipments quoted by them, (in addition, a brochure of product information may be attached along with). Tenderers also have to indicate clearly the Name, Address and all Contact numbers of the MANUFACTURING FIRM

The payment will be made in shape of ECS/RTGS directly into the Bank Account of the Tenderer . Hence the Tenderer is requested to submit the mandate form duly filled in and submit along with the bills.

Assistant Admn. Officer (P)

TENDER APPLICATION/DECLARATION FORM

1	Name of the firm:-	
2	a	Full Postal Address:-
	b	Cell Phone No.
	c	Telephone No:-
	d	Fax No.
	e	E-mail address:
3	Date of Establishment of Firm:-	
4		If your Firm Registered under:-
	a	The Indian Factories Act:-
	b	Any other Act, if not, who are the owners (Please give full address):-
5	Name and Address of your Bankers stating the name in which the Account stands / Bank Details :-	
6	Are you in the list of approved contractors of any other organisations / institutions, if any give details (Append extra page if necessary):-	
7	Any other information which you consider necessary to furnish:	

UNDERTAKING:

- a. I, the undersigned certify that I have gone through the terms and conditions mentioned in the tender document and undertake to comply with them.
- b. The rates quoted by me are valid and binding upon me for the entire period of contract and it is certified that the rates quoted are the lowest quoted for any other institution in India.
- c. The earnest money of Rs. _____ to be deposited by me has been enclosed herewith vide Demand Draft no. _____, Dt. _____, drawn on bank _____, Branch _____.
- d. I hereby undertake to supply the items as per directions given in the tender document / supply order within stipulated period.
- e. I/We give the rights to Director, NBPGR to forfeit the earnest money deposited by me/us if any delay occur on my/agent's part or failed to supply the article within the appointed time or the items of desired quality.
- There is no vigilance/CBI case or court case pending against the firm.

Signature of the tenderer:-**Full Name:-****Designation:-****(Office seal of the tenderer)**

Date :

Place:

PLEASE QUOTE YOUR RATE AS PER THE GIVEN SPECIFICATION

The amount of Earnest Money /Bid security to be deposited for each of the item quoted is mentioned against each serialised item below. The total amount of Earnest Money for all the quoted item may be drawn in a single demand draft. However. In such case, the detail break up of earnest money submitted for each item is to be furnished in a plain paper along with the bank draft.

1. List of Instruments & Equipments for the NBPGR HQ and Regional Station.

Item no.	Code no.	Name of Equipment/ Instrument	Specification	Qty.	EMD value
1.	149	Water Purification (RO System)	Water Purification (RO System)	1	800/-
			• Applicable TDS Range in Input Water : Less than 500 mg/litre		
			• Applicable Input Water Pressure Range : 0.4 -2.0 kg/cm		
			• Max Input Water chlorine : 2ppm (max.)		
			• Input Water Turbidity : 15 NTU (max.)		
			• Input Water Iron content (Max) : 0.3 mg/lit. (max)		
			• Input Voltage : 230 V AC / 50 Hz		
			• Input Water Temperature : 10°C - 40°C		
			• Water Flow Rate* : 720 ml/minute		
			• Purifying Technology : Fire Wall Ultra Voilet		
			• Filtration/Purification Modules : IFilter, Granular Activated Carbon, Firewall UV		
			• Tank Capacity Hot Tank 1.5 litre or above; Cold Chilling Spiral 0.5 Litres or above; Cold Tank Capacity 2 litres or above		
			• Dimension 345 x 365 x 485 in mm (W x D x H)		
			• Net weight 26 kg (Countertop Unit)		
			<u>Delivery to NBPGR HQ</u>		

2.	80	Microfuge	<p><u>Microfuge</u></p> <p>Product Description: A Portable benchtop centrifuge that generates centrifugal forces required for a wide variety of applications like sample preparations, pelleting, extractions and purifications</p> <p>Quantity : 1</p> <ul style="list-style-type: none"> • Set Speed : 0 to 14000 rpm • Set Time: 0 to 30 min, continuous run or pulse • Ambient temperature : 4°C to 35°C • Digital display of time and rpm. • Built in power supply • Quiet and sturdy • Rotor Specification: • Maximum speed: 14,000 rpm • Number of tube cavities : 6-24 • Nominal tube dimension (0.5 to 2.0 ml vials) • Approximate acceleration time to maximum speed: 18 seconds. • Approximate deceleration time from maximum speed: 19 seconds • Rotor material: Polypropylene • Lid material: polycarbonate. • Should provide an on-site warranty for a stipulated duration, spare rotors of different tube capacities should be provided with the microfuge along with other accessories <p><u>Delivery to NBPGR HQ</u></p>	1	1000/-
3.	44	Electrophoretic Transfer apparatus	<p><u>Electrophoretic transfer apparatus</u></p> <ol style="list-style-type: none"> 1. Semi dry protein transfer unit should not generate the excessive heat that can dry out the transfer stack and halt transfer or damage transfer units. 2. Safety circuit breaker should be present in the unit. 3. Transfer unit should have molded Base with platinum coated Titanium Anode and High Voltage Leads. 4. Transfer unit should have hinged Lid with Stainless Steel Cathode 5. Unit should have vented electrodes to prevent build up of bubbles. 6. Suitable Universal power pack supply should be included along with unit 7. Unit Gel size minimum of 25 cm x 16cm should be present. 8. Unit should require less amount of buffer (<250ml) for protein transfer 9. Unit should also include one gel support frame and four packs of extra thick blot paper of different sizes 10. Quantity required: One <p><u>Delivery to NBPGR HQ</u></p>	1	10000/-

4.	66	Incubator Shaker with accessories	<p><u>Incubator Shaker with Accessories</u></p> <ol style="list-style-type: none"> 1. Temperature display should be digital and fully microprocessor Controlled Incubator shaker 2. Soft touch membrane keypad should be present 3. Shaking speed: 20-400 rpm 4. Speed accuracy ± 0.1 rpm 5. Temperature range: 15°C below and upto 80°C 6. Drive mode should be rugged by magnetic drive on permanent magnets (without any belt) and it is mandatory. 7. Complete noiseless and vibration free shaker 8. Quotation inclusive of perforated tray inside the incubator above the shaking tray for incubation of petriplates. 9. Quotation inclusive of 250ml and 500 ml clamps holder in the shaker 10. Auto-stop on door opening 11. In-built timer should be present which would be de-activated as and when desired by the operator 12. Automatic restart after power failure 13. Optimum shaker design should prevent spilled liquids going inside the shaker 14. Over heating protection device should be present 15. Power supply with 220 V/50-60 Hz 16. Quantity required: One <p><u>Delivery to NBPGR HQ</u></p>	1	24000/-
5.	99	pH Meter	<p><u>pH Meter</u></p> <ol style="list-style-type: none"> 1. Advanced microcontroller based user friendly pH meter. 2. Sleek moulded cabinet with alphanumeric splash waterproof polyster keyboard with soft kyes. 3. User interactive software in dialogue mode for ease of operation with protection against invalid entries. 4. Simultaneous measurement of pH, mV and temperature 5. pH range: 0 to 14 ; resolution 0.01 pH; accuracy ± 0.02 pH ± 1 digit and sampling time approximately 0.4 second 6. Calibration data with date and time stamp for authentications. 7. Password protection for calibration data and stored readings. 8. Calibration reminder alarm. 9. Operating temperature should be 0° to 99° C; resolution 0.1° Accuracy $\pm 0.5^\circ\text{C}$ ± 1 digit 10. Operating humidity should be less than 80% RH 11. mV range is 0 to ± 1999mV, resolution 1mV and accuracy ± 1 mV ± 1 digit 12. 3 point (Isopotential) or 5 point (linear or segmented) calibration protocol 	1	800/-

			13. Input stability indicator for reproducible result 14. Built-in real time clock (RTC) for time display and on report printout 15. Error indication helps the user to trace the problem 16. Audible beep indication during valid key operation 17. Combined pH and conductivity instrument should be available 18. Non-volatile memory storage of : 40 pH and 40 mV readings with temperature in pre-selected GLP or Non-GLP format, addition 24 data memory readings of pH temperature and time in date logging mode should be present 19. Three standard buffers as 4.000, 7.000 and 9.183 should provide along with the instruction manual 20. Power should be 230 V AC \pm 10% , 50 Hz., provide electrode with stand and clamp. <u>Delivery to NBPGR HQ</u>		
6.	88	Microtube Thermoshaker	<u>Microtube Thermoshaker</u> 1. Microprocessor controlled and complete digital display 2. Temperature range: +5°C -100°C 3. Mixing speed : 200 – 1500 rpm 4. Heating time should be less than 20 min to reach 100°C 5. Cooling time should be less than 15 min to reach room temperature 6. Temperature accuracy should be \pm 0.5°C 7. Temperature resolution should be 0.1°C 8. Continuous or timed operation, with alarm buzzer and automatic switch –off facility should be present 9. Convenient interchangeable blocks (0.23 ml, 0.5 ml, 1.5 ml, and 2.0 ml) should be present and included in the quotation 10. Should operate extremely smoothly, quietly and consistently 11. Maximum continuous operation time should be not less than 95 hours 12. Over heating protection device should be present 13. Automatic buzzer should be present to indicate the completion of the program 14. Power supply with 220 V 50-60 Hz 15. Quantity required: One <u>Delivery to NBPGR HQ</u>	1	1000/-
7.	42	Electrophoresis Unit Vertical with power pack and accessories	<u>Electrophoresis Unit Vertical with power pack and accessories</u> A Vertical electrophoresis system is required for studies involving profiling of proteins / enzymes influencing seed conservation with following specification: Dual type vertical gel unit minimum of size (WxH; 10 x 10cms) with gel running module and cooled gel tank, with built-in cooling coil and quick –fit tubing lid, 2 x (10 x 10 cm) plain glass plates, minimum of 4 x 1 mm spacers, notched glass plates, 2 x spaceraligners 1 x dummy plate and minimum of 2 x 1 mm	3 nos.	12000/-

			<p>thick 12 well combs, casting base and 2 x silicone seals and a power supply with following specification</p> <ol style="list-style-type: none"> programmable power supply (300 V) capable to operate four electrophoresis units simultaneously for identical runs with graphics LED display. The output range should be 10-300V, IV increment; 3-500mA in 1 mA steps; 90-95 W maximum. Constant voltage, current or power with automatic crossover Power requirement: Voltage 230 V AC, frequency 50-60Hertz. Timer with 1-1000 min, and 1 min increment At least four recessed sets in parallel Automatic power up after power breakdown safety features like; short/open circuit protection Conform to CE/ ISO standards. Warranty of at least two years Literature pertaining to above parameters should accompany. <p>Accessories:</p> <ol style="list-style-type: none"> Plain glass plate with 2 mm bonded spacer 1.5 mm thick spacer 2 mm thick spacer Combs (Thickness 1 mm, 12 wells, well volume; 56µl) Combs (Thickness 1 mm, 16 wells, well volume: 37µl) Combs (Thickness 1 mm, 20 wells, well volume: 30µl) Combs (Thickness 1.5 mm, 8 wells, well volume: 120µl) Combs (Thickness 1.5 mm, 16 wells, well volume: 55µl) <p><u>Delivery to NBPGR HQ</u></p>		
8.	126	Sonicator	<p><u>Sonicator</u></p> <ol style="list-style-type: none"> LCD display screen clearly displays all operating parameter and options: temperature, time, output, power etc. Amplitude (intensity) can be set from 1-100% giving a greater degree of resolution and the ability to pinpoint the amplitude needed to effectively process sample. Adjustable pulse on and off times to reduce the heat gain in temperature sensitive samples. Temperature monitoring should be available to monitor the temperature limits on samples to avoid overheating. Programming including processing time, pulse on/off and power output, it can be saved to memory and run by the touch of a button. Auto tuning should present (i.e) sonicator digitally tracks frequency changes in the converter/tip assembly caused by load and temperature changes and maintain electrical efficiency at all times. Power rating 150-2000w, operating frequency 20-22 KHz, Input power 120-240V, 50-60 Hz, 	1	6000/-

			<p>programmable timer 0-999 minutes.</p> <p>8. Overload protection should be present.</p> <p>9. The cup horn should present for indirect sonicator of samples.</p> <p>10. Cup horn/microtube holder should hold (0.1-5ml) x or 4, or (0.1-2ml)x 8 pipe rack clamping.</p> <p>11. Standard sound enclosed should provide along with sonicator for protection from noise during sonication.</p> <p>12. Operating temperature limits from 10°C to 40°C.</p> <p>13. Maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity to 40°C.</p> <p>14. During Sonication if problem is detected, the sonicator should prompt the user that an error as occurred. Help screen should offer step by step instructions to help solve the problem.</p> <p>15. RoHS Compliant- Sonicator is built lead free.</p> <p>16. Quantity required : One</p> <p><u>Delivery to NBPGR HQ</u></p>		
9.	7	Binocular	<p><u>Binocular</u></p> <ul style="list-style-type: none"> • Magnification : 8 to 10x • Objective lens diameter: 40-50 mm • Extra-low dispersion glass: Yes • Field of view at 1000 m: >110m • Diameter of exit pupil: > 4mm • Close focusing distance: <3m • Eye relief: > 15mm • Scratch-resistant coating over lenses: Yes • Weight: < 500g • Water proof and fog-free: • Protective armoring for shock resistance: yes <p><u>Delivery to NBPGR HQ</u></p>	1	1000/-
10.	112	Rocking Platform	<p><u>Rocking Platform</u></p> <ul style="list-style-type: none"> • Rocking platform designed to produce the precise level of agitation as per membranes and gel required. • Standing area should be minimum of 320mm x 350mm with maximum holdings capacity of 5 kg. • Area of shaking platform should be 260 x 290 with non-slip, removable rubber pad with raised edge. 	1	1500/-

			<ul style="list-style-type: none"> • Speed range of 5-50 rpm and its speed should be adjustable. • Tilt angle should be 5°C to 10°C for the platform. • Ambient temperature 0°C to 50°C at 80% relative humidity. • Suitable for use in gassing and incubating cabinets. • Rocking platform designed as double tiered platform and minimum of 9 cm between two platforms. • Platform are constructed of stainless steel for durability and easy cleanup. • Powerful motor and heavy duty bearings ensure a long service life. • Quantity required: One <p><u>Delivery to NBPGR HQ</u></p>		
11.	92	UV Protection Shield	<p><u>UV Protection Shield</u></p> <ul style="list-style-type: none"> • Full Shield are designed to cover the eyes, Full face and neck protection from UV radiation. • Improves contrast between the fluorescent area and the background by eliminating the “blue haze: interference. • UV protection shield should meet the occupational safety and health (OSHA) standard 1910.133 for eye, face and neck protection. • UV protection shield should be adjustable and fits to the face of the users. • Shield should have not less than dimensions of 17 Dia x 8.2 Inch. (432 x 210mm). • Shield should be minimum of 0.80” thickness, with anti-fog and scratch resistance. • Quantity required : One <p><u>Delivery to NBPGR HQ</u></p>	1	1000/-
12.	12	Chlorophyll meter	<p><u>Chlorophyll meter</u></p> <ul style="list-style-type: none"> • Light weight, portable model with measurement method (optical density difference at 2 or more wavelengths) • Should have measurement area around 2mmx3mm (insertion depth 12mm, thickness 1.2mm) • LED light source (2 or more LED elements) (power source AA size alkaline batteries) • LCD panel display with 4 digit measurement value • Display range -9.9 to 199.9 with memory capacity upto 25 or more values • Accuracy ± 1.0; repeatability ± 0.3 units • Preferable dimensions: Handy, must be around 78 (W) x 164(H) x 49 (D) mm <p><u>Delivery to NBPGR Regional Station Hyderabad</u></p>	1	3000/-

13.	25	Digital Inspection System	<p><u>Digital Inspection System (L-140EB), 12x-60x</u></p> <ul style="list-style-type: none"> • Magnification Range: upto 35X. (On 17" monitor). • Resolution : 50 line pairs/mm on object at full zoom. • Minimum Working Distance : 120mm. • Top Illumination: Provided by LED with intensity control. <p>Measurements of 2 D features:</p> <ul style="list-style-type: none"> • Length – point to point, point to line, track width, Angles, Circles etc. <p><u>Delivery to NBPGR Regional Station Hyderabad</u></p>	1	1600/-
14.	33	Double distillation unit	<p><u>Double distillation unit</u></p> <ol style="list-style-type: none"> 1. Quantity Output : 3litres per hour 2. Power Required : 220-240V 5kW Single Phase (3) 3. Cooling Water Feed : 75Ltr/hr (approx.) (3); 4. Biological Purity : PYROGEN FREE 5. RH/PH :6.9-7.0 6. Conductivity : -0.5-0.9X10 7. Distillate Temperature: 75°± 5° C <ul style="list-style-type: none"> • The unit should be demountable for necessary cleaning or maintenance. • The electrical heaters should not come in contact with water and should be embedded inside a quartz tube, nullifying the possibility of metal contamination by the heaters. • All water connections can be given with threaded connectors. • Demountable ball joint. Spiral heaters preferred. • Chiller Manual with reservoir capacity of 20 litres for reuse of utilized water. <p><u>Delivery to NBPGR Regional Station Hyderabad</u></p>	1	2000/-
15.	38	Electrical conductivity meter	<p><u>Electrical conductivity meter</u></p> <p>Range pH -2.00 to 16.00 pH/-2.000 to 16.000 pH ± 699.9mV / ± 2000 mV EC/TDS 0.00 to 19.99 µS/cm; 0.00 to 9.99 ppm 20.0 to 199.9 µS/cm; 10.0 to 99.9 ppm 200 to 1999 µS/cm; 100 to 999 ppm 2.00 to 19.99 mS/cm; 1.00 to 9.99 ppt</p>	1	3600/-

			20.0 to 199.9 mS/cm; 10.0 to 99.9 ppt Temp -9.9 to 120.0°C (pH range) 0.0 to 100.0°C (EC range) Resolution 0.01 pH / 0.001 pH 0.1 mV (± 699.9 mV)/ 1 mV (± 2000 mV) 0.01, 0.1, 1 °S/cm; ppm 0.01, 0.1 mS/cm; ppt 0.1°C With autoranging feature to automatically set the instrument to the scale with the highest resolution. Accuracy ± 0.01 pH/ ± 0.002 pH (@20°C) ± 0.2 mV up to ± 699.9 mV ± 1 mV to ± 2000 mV $\pm 1\%$ f.s. (EC/TDS) $\pm 0.5^\circ$ C <u>Delivery to NBPGR Regional Station Hyderabad</u>		
16	45	ELISA reader	<u>ELISA reader</u> Microplates 6-, 12-, 24-, 48-, 96-, and 384-well microplates with standard 128mm x 86 mm footprint and maximum height of 0.8” . Multivolume plate compatible for low volume, or standard cuvette measurements. Read Modes Absorbance: Endpoint, kinetic, spectral scan, well area scan. Performance Wavelength Range 200 nm to 999 nm selectable in 1 nm increments Wavelength Accuracy ± 2 nm Wavelength Repeatability ± 0.2 nm Absorbance Range 0 to 4.0 OD Absorbance Resolution 0.0001 Bandpass 5 nm OD Accuracy 0 to 2 OD: $\pm 1\%$ ± 0.010 OD 2 to 2.5 OD: $\pm 3\%$ ± 0.010 OD Repeatability 0 to 2 OD: $\pm 1\%$ ± 0.005 OD 2 to 2.5 OD: $\pm 3\%$ ± 0.005 OD	1	10000/-

			<p>Linearity 0 to 2 OD: +/-1% +/-0.010 OD 2 to 2.5 OD: +/-3% +/-0.010 OD Read Speeds 96-wells 384-wells (Normal: 49 s 169 s; Rapid: 38 s 131 s; Sweep: 15 s 31 s) Physical / Environmental / Regulatory Size 12" W x 12.5" D x 7.7" H (30.5 cm x 31.8 cm x 19.6 cm) Weight < 15lbs (6.8kg) PC: Renowned make with sufficient ram (4GB); along with UPS; Connectivity USB port for computer control; Laser jet printer Power Supply 100-240 VAC @ 50-60 Hz, External supply, Consumption < 40W. Operating Environment 18°C to 40° C</p> <p><u>Delivery to NBPGR Regional Station Hyderabad</u></p>		
17.	149	Water Purification (RO) System	<p><u>Water purifier (RO system)</u></p> <p>Purification Capacity : 25 liters/hour; Technology : RO+UF+TDS Controller Max. Duty Cycle : 125 Liters/Day; Storage Tank Capacity : 20 liters Filter Cartridges : Sediment, Activated Carbon, Carbon Block, UFm& Post Carbon Input Voltage : 100-300V AC (50Hz) Operating Voltage : 24V DC</p> <p><u>Delivery to NBPGR Regional Station Hyderabad</u></p>	1	800/-
18.	39	Electronic Balance	<p><u>Electronic Balance</u></p> <ol style="list-style-type: none"> 1. Sensitive digital balancer with clear LCD display and electroluminescence backlight. 2. Automatic backlight selection should be present. 3. Selectable resolutions at 1/30,000 and 1/60000. 4. Automatic zero setting. 5. Weighing capacity minimum range from 300 grams to 0.005 grams. 6. Band rate selection with environment change to avoid the shock. 7. Minimum of 13 selectable weighing units (5 unit/group), simple counting and percentage function. 8. Single point calibration in addition to three points calibration. 9. Special design to protect the balance from the damage of overload or transportation. 10. Windproof cover should be present. 11. 6V/mA AC/DC adapter operated by 100~240 VAC + 10%, 50/60Hz or Four size-C (um-2) dry 	2	4000/-

			batteries. 12. RS232 interface for connecting the PC, LP50 thermal printer etc. 13. Quantity required : One <u>Delivery to NBPGR, HQ and Regional Station Cuttack (1 each)</u>		
19.	110	Refrigerator	<u>Refrigerator</u> <ul style="list-style-type: none"> • Capacity :350-400 L • Double door with door cooling technology • Top Compartment with low temperature freezer • Temperature control display • Auto defrost technology • At least 4 star rating for energy efficiency • Humidity control drawers • Easy slide toughened/tempered glass shelves (at least 3) • Built in stabilizer • Additional voltage stabilizer (4 KVA) • Warranty: 2 Year with 10 years for compressor <u>Delivery to NBPGR, HQ (2 nos.) and Regional Station Hyderabad (1 no.)</u>	3	3000/-
20.	144	UPS (3 KVA) with batteries	<u>UPS (3 KVA) with batteries</u> An online UPS suitable for linear and non-linear loads with following specification is required: 1. Technology: Latest State of art technology 2. Capacity: 3 KVA 3. Input voltage 140-280 V, 50 Hz 4. Output Voltage 220 V + 1% (Static and dynamic) 5. Output frequency : 50 Hz + 0.01%. 6. Wave form: Pure Sinewave harmonic distribution less than 2 % 7. Protection: Overload, over heating with alarms and visual indication 8. Backup time: 60 min. 9. Recharge time: Corresponding to safer trickle charge of approximately 10% of float charge 10. Over loading: 5 to 6 times for ½ hr. 1.2 to 1.25 times for 10 min or more 11. Batteries: Rechargeable, heavy duty, dry, sealed maintenance free of international brand with complete specifications at the time of offer. 12. All components should confirm to ISO/DIN/MIC/BIS standards accordingly with circuit drawings.	2	8000/-

			<u>Delivery to NBPGR, HQ</u>		
21.	79	Microcentrifuge with accessories	<u>Microcentrifuge with accessories</u> <ul style="list-style-type: none"> • Microcentrifuge along with a plate rotor of capacity of at least 2 microtitre plates and a microcentrifuge tube rotor for at least 24 x 1.5/2mL tubes. • The speed range should be of at least 2000 xg with a range from 200-4600 rpm/ min for the plate rotor and from 30,000-35000 xg/17000-20000 rpm for microcentrifuge tubes. • The centrifuge interior should be corrosion free. The rotor should be of aluminum rotor and rotor lid should be autoclavable at 121°C for 20 mins. • Microcentrifuge should be able to operate in 220-240V/50-60Hz and should come with a emergency lid lock release facility. • The acceleration and deceleration should be in the range of 15 plus minus 2. • Speed setting should be possible in both rpm and rcf. • Should possess a separate short spin key for brief spin. • Should have the flexibility to accommodate rotors for different formats of tubes starting from 0.2ml PCR tubes up to Spin column tubes and different rotors should be quoted as optional. • Instrument should have automatic rotor recognition facility to automatically recognize and set maximum speeds upon rotor change • The instrument should have a small footprint with noise levels of 60 dB (A) or less and should be provided with an appropriate voltage stabilizer • The quoted model should be ISO certified and meet European CE standards. Certificate for the same should be attached. • There should be a two year comprehensive warranty on the instrument with good support after sales/service. (0.5 ltr.) <u>Delivery to NBPGR, HQ</u>	1	5000/-
22.	79	Mirocentrifuge with accessories	<u>Microcentrifuge with accessories</u> <p>Refrigerated microcentrifuge alongwith a rotor of capacity of at least 24 x 1.5/2.0 ml tubes with a maximum speed of at least 20000xg and a range from 200-15,000rpm/min.</p> <p>The temperature range should be between -10 to +40°C with an option of quick pre cooling with a guaranteed temperature of 4°C at maximum speed.</p> <p>The centrifuge interior should be corrosion free. The rotor should be of aluminium and be aerosol tight.</p> <p>Speed setting should be possible in both rpm and ref.</p> <p>Should possess a separate short spin key for brief spin.</p> <p>Should be able to operate in 220-240V/50-60Hz and should come with an emergency lid lock release facility.</p> <p>The acceleration and deceleration should be in the range of 15 plus minus 2.</p>	1	5000/-

			<p>The instrument should have a small footprint with noise levels of 60 dB(A) or less and should be provided with an appropriate voltage stabilizer</p> <p>The quoted model should be ISO certified and meet European CE standards. Certificate for the same should be attached.</p> <p>There should be a two year comprehensive warranty on the instrument with good support after sales/service.</p> <p><u>Delivery to NBPGR, HQ</u></p>		
23.	41	Electrophoresis (Horizontal System and Accessories	<p><u>Electrophoresis (Horizontal) System and Accessories</u></p> <ol style="list-style-type: none"> 1. No tapes, clamps or springs should be needed for gel casting. 2. Injection molded tank construction, durable and leak proof environment for complete safety. 3. Minimum of three trays should be present. 4. Multi-Channel pipette compatibility should be present 5. Minimum of 600 samples or more should be run in a single gel with minimum of 60-70 samples in a single comb. 6. Electrodes should be made with corrosion resistant pure platinum. 7. Quotation includes all the accessories like gel caster, UV transparent tray, UV gel scoop, different size combs (made with acrylic) and Universal power pack supply, 8. Buffer recirculation port should be included for enhanced resolution of gels. 9. Quantity required: One <p><u>Delivery to NBPGR, HQ</u></p>	2	10000/-
24.	129	Split AC 2 Ton accessories	<p><u>Split AC 2 ton with accessories</u></p> <ul style="list-style-type: none"> • Cooling capacity nominal (keal/hr) should be more than 6000 and cooling cap (min) Guaranteed (Kcal/Hr) should be not less than 5800. • Input power voltage: 175 – 300 V, 50 Hz, Single phase. • Power consumption 2300 to 3100 watts • Option for high and low cooling fan speed, provision for rotation of airflow with control. • Piping length and height should be minimum of 20 m and 8 m . • Anti-bacterial filter. • Dehumidification option. • Autoclean • Energy efficiency star rating – atleast 4.5 • Rotary compressor system should be present • LCD display should be present • 5 KVA Stabilizer 	9	9000/-

			<ul style="list-style-type: none"> ○ Wall mounting cabinet ○ 3years warranty ○ Input voltage -170-270V ○ Output voltage -200 240V ○ Output high voltage cutoff-240 V ○ Efficiency –more than 95% ○ Frequency 50 Hz. <p><u>Delivery to NBPGR, HQ</u></p>		
25.	22	Dehumidifier	<p><u>Dehumidifier</u></p> <p>CNC fabricated with powder coated finish; rotary type: chemical absorption method; desiccant honeycomb rotor, media absorbent non-toxic, non-flammable, water washable: Process Air Flow 600 CMH/process Motor & React Motor 0.37 KW/React air flow MCH 200/React design; electrical interlocking of fan motor, heaters and rotor drive</p> <p><u>Delivery to Regional Station Thrissur</u></p>	1	8000/-
26.	57	Global Positioning System	<p><u>Global Positioning System</u></p> <p>Hand-held GPS receiver screen size 2.4” or bigger, 4- level grayscale display with not less than 280 x 160 dpi resolution, key-pad user interface, USB PC Interface, installed memory 24 MB or more and preferably with built-in Altimeter, Barometer and compass</p> <p><u>Delivery to Region Station, Thrissur</u></p>	1	1000/-
27.	57	Global Positioning system	<p><u>Global Positioning System</u></p> <p><u>Physical & Performance:</u></p> <p>Unit dimension, W X H x D: Handy (2.0” x 5.0”)</p> <p>Display size, W x H: 1.5”W x 3.0” H (7.0-7.5 cm)</p> <p>Display resolution, W x H: Pixels</p> <p>Display type type: color TFT touch screen</p> <p>Battery: rechargeable NimH pack or 2 AA batteries or NiMH or Lithium: Water</p> <p>Maps and Memory:</p> <p>Basemap and should have ability to add maps; Built-in-memory: 2-4GB</p> <p>Accepts data cards: microSD™ card Waypoits/favourites/locations: 3000-4000;</p> <p>With facilities of electronic compass, touch-screen, measurement of barometric altimeter and area</p>	1	1000/-

			<p>calculation Camera: megapixel (7-10) with autofocus; digital zoom</p> <p><u>Delivery to Regional Station, Cuttack</u></p>		
28	57	Global Positioning System	<p><u>Global Positioning System</u> Hand held, portable, light weight 3-inch or wider sunlight-readable, touchscreen display with multi-touch capability Dual-band GPS/GLONASS satellite positioning Sensors (3-axis compass, accelerometer, barometric altimeter) Must have ANT or Bluetooth technology-wirelessly share routes, tracks waypoints, geocaches, custom maps and photos between units Dual orientation-auto switching between landscape or portrait views Dual battery system -2 AA batteries or NiMH battery pack charged by the battery 8MP-12 MP autofocus camera with LED flash/torch and digital zoom Map of India and world Resolution 240 x 400</p> <p><u>Delivery to Regional Station Hyderabad</u></p>	3 nos.	3000/-
29	150	Window AC	<p><u>Window AC</u> Capacity: 1.5 Ton BEE Energy Efficiency Rating (EER): Five Star (With minimum 3.23 w/w) Cooling with dehumidification Power consumption : < 1600 watt 3/3 speed setting and remote controller Auto air swing and auto restart system Digital front panel display and filter cleaning indicator Compressor Type: Reciprocating Stabilizer: 4 KV</p> <p>Justification: for creation of efficient working environment in the divisional room-cum-laboratory</p> <p><u>Delivery to Hyderabad (3 nos.), Thrissur (2 nos.), NBPGR HQ (3 nos.), Cuttack (3 nos.)</u></p>	11	11000/-
30.	114	Seed Counter	<p><u>Seed Counter</u> Counting of Seeds: All Shapes, size (0.5 to 15 mm), Batch Counting Measuring parameters: Size, shape and factors etc. Results are to be compatible with PC & printer and can be transferred to PC software attached with flat bedded scanner, software & branded computer system with printer & UPS Display : Touch sensitive LCD Screen</p>	1	10000/-

			<p>Electricity: 110-240 vac, 50/60 Hz single phase Power consumption: 60 watt. Weight-5-10 kg Operating temperature / humidity : 5-40° / 40-80% <u>Delivery to NBPGR Regional Station, Cuttack</u></p>		
31.	22	Dehumidifier	<p><u>Dehumidifier</u> Capacity -2 ton Sturdy angle iron frame with wheel Sealed compressor Heat exchanger and water condensing foils are made of copper Humidity: Controlled by digital controller <u>Delivery to NBPGR Regional Station, Cuttack</u></p>	1	8000/-
32.	100	Photocopier	<p><u>Photocopier</u> Speed 25-30 copy/m, copy ratio: 25-400, copy size A-4 and A 3, First copy time 5-7 sec, Memory: Standard RAM -1-2 GB Hard Disk -160 GB Duplex with DADE with accessories like trolley & 2 KVA uninterrupted power-supply <u>Delivery to NBPGR Regional Station, Cuttack</u></p>	1	4000/-
33	96	Air Purifier	<p><u>Air Purifier</u> 1. Air purifier system should be highly efficient with purification process of minimum 7 physical Filters having: (i) PRE Filter, (ii) Electrostatic PLASMA FILTER (iii) Activated CARBON FILTER (iv) True HEPA Filter TiO2 (v) Photo Catalyst FILTER, (vi) UV FILTER (viii) Negative IONIZER, 2. Negative Ions > 2 million/cc, Noise Levels < 35 dB 3. Application area 750 sq ft or more 4. Filter life: 1 Year or more 5. 1 Year Warranty <u>Delivery to NBPGR HQ.</u></p>	10	4000/-

34.	72	Renewal of Firewall Cyberoam 200i subscription	<p><u>Cyberoam Firewall 200i Subscription</u> <u>Total Value subscription (TVS)/ Total Value Subscription Plus (TVSP)</u> for Firewall 200i including Gateway Anti-Virus & Anti-Spyware, Anti-Spam, Web & Application Filter, Intrusion Prevention System 24 x 7 support for all security Services. (Price for 1 year) and (Price for 3 Year)</p> <p><u>Comprehensive Value Subscription (CVS)</u> – for firewall Cyberoam 200i including Web Application Firewall, Gateway Anti-Virus & Anti-Spyware, Anti-Spam, Web & Application Filter, Intrusion Prevention System 24 x 7 Email, Phone and Chat Tech Support (Price for 1 year) and (Price for 3 year)</p> <p><u>Note:-</u></p> <ol style="list-style-type: none"> 1. Buyer already has Cyberoam 200i hardware installed in place. Only subscription prices are to be quoted. This will include identity based user/group creation & implementation and 2 days training of policy creation and other important feature. 2. IPv4 as well as IPv6 compatibility of both, the hardware and software is must. 3. Vendor has to ensure 100% compatibility between the installed hardware and quoted subscriptions. Site may be inspected for analysis of the issue, if desired. Site address is Room No. B-106, AKMU NBPGR, New Delhi -110012 and contact person is Sh. Rajeev Gambhir. 4. Prices should be quoted only in Indian currency 5. Taxes, if any should be mentioned separately in terms of type, rate and value and final price should be including taxes. 			12000/-
			Price for 1 year	Price 3 year		

Annexure – VI

BANK GUARANTEE FORM FOR BID SECURITY

Whereas..... (Name of bidder) (herein after called “the bidder”) has submitted his bid dated (date) for the supply of (brief description of the relevant goods and services) hereinafter called “the bid”).

KNOW ALL PEOPLE by these presents that WE (name of the bank) having registered office at (full address) (hereinafter called “the bank”) are bound unto (Name of the purchaser) (hereinafter called “the purchaser”) in the sum of (amount in figures and in words) for which payment well and truly to be, made to the said purchaser, the bank binds itself, its successors and assigns by these presents.

Sealed with the Common Seal of the said bank this Day of 20.....

THE CONDITIONS of this obligations are:

1. If the bidder

- (i) Withdraws its bid during the period of bid validity specified by the bidder on the bid form; or
- (ii) Does not accept the correction of errors in accordance with the Instruction to Bidders

OR

2. If the bidder, having been notified of the acceptance of its bid by the purchaser during the period of bid validity :

- (i) Fails or refuses to execute the contract form, if required; or
- (ii) Fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders.

We undertake to pay to the purchaser up to the above amount upon receipt of its first written demand, without the purchaser having to substantiate its demand, provided that in its demand the purchaser will note that the amount claimed by its is due to it, owing to the occurrence of one or both of the above mentioned two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 60 (sixty) days after the period of bid validity and any demand in respect thereof should reach the bank not later than the above date.

.....
Signature of the Bank
SEAL of the Bank

Date :

Place :