



भा.कृ.अनु.प.- राष्ट्रीय कृषि उपयोगी सूक्ष्मजीव ब्यूरो  
ICAR-NATIONAL BUREAU OF AGRICULTURALLY IMPORTANT MICROORGANISMS



पोस्ट व ग्राम - कुशमौर, मऊ (उ.प्र.) २७५१०३

Village & PO : Kushmaur, Mau 275103 (UP)

Tel : (0547) 2530080, FAX : (0547) 2530381, E-Mail: nbaimicar@gmail.com, (Web): www.nbaim.org.in

F.No. 12-4/store/NBAIM/Equipment/2015-16


Date: 23.12.2015

### Expression of Interest

The Director, ICAR-National Bureau of Agriculturally Important Microorganism, Mau on behalf of the President, Indian Council of Agricultural Research, New Delhi invites duly filled and sealed tenders from the Manufacturer/registered firms for the purchase of below mention equipments.

Sr. No.	Name of Equipment	Qty	Bid security (in Rs).	Bid system
1.	Cooling water Bath	02	5000	<b>Single Bid system will be followed</b>
2.	Micro centrifuge spin-win	02	500	
3.	Magnetic stirrer	02	2000	
4.	Digital Camera	02	5000	
5.	Tabletop cooled micro centrifuge	01	12000	<b>Two Bid system will be followed</b>
6.	Thermal cycler	02	30000	
7.	BOD Cooling incubator	02	15000	
8.	Hot Air Oven	02	10000	
9.	Refrigerated Centrifuge	02	15000	
10.	Gel documentation system	01	15000	
11.	Horizontal Electrophoresis with power pack	02	15000	
12.	Spectrophotometer	01	14000	
13.	Gel Electrophoresis Unit	01	10000	
14.	Nano Spectrophotometer	01	20000	
15.	Refrigerated incubator Shaker	01	10000	
16.	PCR and Gel Electrophoresis unit with power pack	01	10000	

The tender document along with detailed terms and conditions can be downloaded from our website i.e. [www.nbaim.org.in](http://www.nbaim.org.in), [www.mgrportal.org.in](http://www.mgrportal.org.in) & <http://eprocure.gov.in/epublish/app>. The tenders will be accepted by 18.01.2016 up to 01.00 PM. The same will be opened at 03:00 PM on the same day in the presence of bidders or their authorized representatives, if any. A DD of Rs. 500/- as tender fee i/r/o each items will be required, which is payable to The Director, ICAR Unit NBAIM, Mau payable at Maunath Bhanjan. Separate Tenders forms along with tender cost & EMD will be required i/r/o each items. Single bid system will be followed for items no. 1 to 4 and Two bid system will be followed only for item No. 5 to 16. Please quote the rate in Indian Rupees only. Tender form should be submitted to The Director, ICAR-National Bureau of Agriculturally Important Microorganism, Kushmaur Mau (U.P.) - 275103 for aforementioned items on the scheduled date and time positively by speed post/courier/ in person. The Director, ICAR-NBAIM, Mau reserves all right to accept or reject any or all the tenders without any reason.

  
(Ajay Kumar Soni)  
Administrative Officer



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Dated: 23.12.2015

**NOTICE INVITING TENDER THROUGH SINGLE BID SYSTEM**

**Sub: Purchase of Equipments (Single Bid) item no. 01 to 04 - reg.**

Dear Sir,

We have a requirement of above said equipments for which Bids are invited to submit most competitive quotation for the same. The envelope containing the quotations should be superscribed as **"TENDER FOR ITEMS (Name of items) & No.** Tender should reach at The Director, ICAR-National Bureau of Agriculturally Important Microorganism, Kushmaur Mau (U.P.) - 275103 on **18.01.2016 up to 01.00 PM** which will be opened at **3.00 PM on 18.01.2016**. A DD of Rs. 500/- as tender fee i/r/o each items will be required, which is payable to The Director, ICAR Unit NBAIM, Mau payable at Maunath Bhanjan. All the relevant details are given below:-

- I. Description of the goods required and the required quantity : **(As enclosed in Annexure-III)**
- II Guiding specification and other Technical Details : **(As enclosed in Annexure-IV)**
- III. Terms of delivery (Delivery at site) : **FOR ICAR-NBAIM, MAU**
- IV. Delivery period for goods : **Within 30 days from the date of the purchase order**
- V. Erection/installation and commissioning (if required, depending on the goods ordered) : **Completed within 07 (seven) days of delivery of the goods at site.**
- VI. Terms of Inspection by the purchaser's representative : **Indenting Officer**
- VII. Training of Purchaser's scientist/technician/operator for operating the equipments/goods ordered, as and if necessary : **ICAR-NBAIM scientists/technicians/operator for operating the goods/equipments ordered, as and if necessary IACR-NBAIM operator(s) is/are to be trained for a period of 02 days/weeks at Bureau premises/supplier's premises for successfully operating the goods purchased. The training shall be completed within 07 days of installation.**

## VIII. Price structure

- a. The tenderer shall quote for the complete requirement of equipments/goods & services and for the full quantity as shown against a serial number in the list of requirements in Annexure-III, the tenderers are, however, free not to quote against all the serial numbers mentioned in the List of Requirements (in case there are more than one serial number in the list of requirements).
- b. **Specification quoted by the firm should essentially attach literature, leaflet/brochure of the equipments/items with the tender documents.**
- c. All duties, taxes and levies payable by the supplier under the contract shall be included in the quoted price. The purchaser will not pay any such duties, taxes and levies separately. However, VAT/S.T., as legally and contractually leviable, will be quoted separately by indicating the nature and the current rate of VAT/Sales Tax, as applicable at the time of quoting. The sales tax will be paid extra at actual at the time of supply provided the transaction of sale is legally liable to sales tax and the amount of the sales tax is contractually payable. If the supplier in its quotation does not ask for sales tax extra, the same shall not be paid even if asks for the same at the later date.
- d. The rates and prices quoted by the supplier shall remain firm and fixed during the currency of the contract and shall not be subject to variation on any account whatsoever, including statutory variations, if any. However, sales tax will be paid extra as per provision under Clause viii (c) above.

### ix) Receipt of goods and Terms of Payment:

- a. Payment terms for supply of goods, including erection/ installation and commissioning (as and when applicable). Immediately on receiving the goods at site, the purchaser will verify the quantities of the items supplied as specified in the delivery challan of the supplier and also check for any superficial damage etc. in the goods so supplied and issue a provisional receipt accordingly. If the goods supplied do not require erection/ installation and commissioning at site, the purchaser, within two working days of issue of the provisional receipt, will issue acceptance certificate(of the goods) to the supplier, provided the goods supplied are acceptable in terms of the contract. However, if the goods supplied also need erection/ installation and commissioning, the purchaser will issue acceptance certificate within two working days, after successful erection/ installation and commissioning.

The supplier will then send its invoice along with the purchaser's acceptance certificate and other accompanying documents to the paying authority for payment. The paying authority will release the full payment to the supplier as due in terms of the contract, within fifteen working days of receipt of supplier's invoice, purchaser's receipt certificate and other accompanying documents, provided the same are in order.

**B. Training of purchaser's scientist/technician/operator, if applicable** - Before release of payment to the supplier as per sub-para (a) above and a certificate required i/r/o successful completion of training of the operator(s) in terms of the contract.

**x) Paying Authority: The Assistant Finance & Accounts Officer, on behalf of the Director, ICAR-NBAIM.**

**xi) Liquidated Damage Clause:** The purchaser reserves all right to accept or deny the extension of delivery period. 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 the likely duration of the same. After receipt of supplier's 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 each week of delay or part thereof until actual delivery or performance. The maximum limit of such deduction will, however, be 10% (ten percent) of the contract price of the delayed goods or services, after which the order will be treated, cancelled. The liquidated damage will also include damage due to delay in supply, installation and training. Further, during such delayed period of supply and/or performance, the supplier shall not be entitled to any increase in price and cost, whatsoever, on any ground. However, the purchaser shall be entitled to the benefit of any decrease in price and cost on any ground, whatsoever, of the goods & services, supplied during the period of delay. The purchaser's letter (to the supplier, with copies endorsed to other concerned) extending the delivery period will be subject to the above conditions.

**xii) Warranty Clause: Manufacturer's standard warranty clause is acceptable.**


**xiii) Dispute Resolution Mechanism:** 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 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.

2. Bidders are also required to fulfill the following conditions and furnish the details as indicated in subsequent paragraphs.

- a. At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to 25%, the quantity of goods and services as specified in the List of Requirements, without any change in the unit price or other terms and conditions.
- b. Please furnish a certified copy of Bidder latest ITCC (Income Tax Clearance Certificate) or relevant supporting documents.
- c. Please indicate if Bidder is currently registered with any Govt. Organization and if registered, furnish all relevant details.
- d. Please states whether business dealings with Bidder firm presently stand banned by any Government organization and, if so, furnish relevant details.
- e. A supplier shall not submit more than one quotation for the same set of goods. No pooling should be done in association with any other supplier.
- f. The supplier shall at all be responsible, at no cost to the purchaser, against all third party claims of infringement of patent, trademark or industrial design rights arising from the use of the goods or any part thereof, with respect to the goods quoted by the supplier in its offer.
- g. Correction or over-writing in the tender document is not permissible. The quotation(s) as well as the contract shall be written in English language. All correspondence and other documents pertaining to the quotation(s) and the contract, which the parties exchange, shall also be written in English. The quotation and all correspondence and documents relating to the quotation Exchanged between the bidder and the purchaser may also be written in Hindi language provided that the same is accompanied by an English translation, in which case, for the purpose of interpretation of the quotation, the English translation shall govern.
- h. The contract shall be governed by the laws of India and interpreted in accordance with such laws.
- i. The quotation/offer shall remain valid for acceptance for a period not less than 90 days after the specified date of opening of the offers.
- j. A DD as Earnest Money in favour of “**The Director, ICAR Unit NBAIM, Mau payable at Maunath Bhanjan**” is to be enclosed along with the quotation. No quotation shall be considered without the Earnest money deposit (EMD).
- k. In case, the successful bidder shows inability at any stage, after the contract is finalized and awarded for whatsoever reason(s), to honour the contract, the EMD/Performance Security deposited would be forfeited.
- l. **The firm to whom the tender will be awarded, will have to deposit the performance security equal to 5% of the total amount tentatively arrived till such time the period of contract expires. If the supply/services are not found to be satisfactory, the performance security is liable to be forfeited.**
- m. PAN No./ TIN No. and other details should be provided in respective annexure.
- n. Mere declaration that specification is according to indenter’s requirement would not be sufficient, unless & until supported by proper manufactures brochures.

3. The quotation shall be sealed in an envelope. The envelope shall be addressed to the purchaser and it should also bear the "Tender enquiry no. and the words **"DO NOT OPEN BEFORE 3.00 PM ON 18.01.2016** (The time and date of opening of the tenders)". This envelope should then be put inside another envelope, which will also be duly sealed. The outer envelope will bear the full address of the purchaser. The supplier must ensure that its tender (i.e. quotation), duly sealed as above, reaches the purchaser at least one hour before the time and date of opening of tenders. The supplier may, at its choice, send the tender by regd. post or by speed post. Alternatively, the supplier may also hand delivery the tender to the purchaser in which case the purchaser shall give the supplier a receipt, indicating the time & date of receipt of the tender.
4. The tenders, which are received late by the purchaser will be ignored. Further, the purchaser does not accept any liability and responsibility for the tenders in case the same are not properly sealed and marked and/or sent as above.
5. The tenders, which are received on time (as per para 3 above), will be opened at ICAR-NBAIM Office, Mau at **3.00 PM ON 18.01.2016** (date). The purchaser will open the tenders in the presence of the tender's duly authorized representatives, who choose to attend the tender opening.
6. The purchaser will evaluate and compare the quotations which are substantially responsive i.e. which are properly prepared and signed and meet the required terms & conditions, specifications etc. The purchaser will award the contract to the supplier whose quotation will be determined to be responsive and offering the best evaluated deal.
7. The Institute will not be held responsible for any sort of postal delay of any tender form received after stipulated date & time as specified above shall be deemed as summarily rejected. Tenders forms so received will be opened on the stipulated date & time in the presence of tenders or their authorized agents. ***The purchaser reserves the right to accept or reject any or all quotations at any time prior to or after supply order, without assigning any reason, whatsoever, and without incurring any liability or obligation, whatsoever, to the affected tenderer or tenders.***
8. ***Please submit Bid quotation accordingly. Bidder shall sign all the pages of Bid quotation. Bidder price quotation may be furnished in the format enclosed as Annexure-V. Bidder are also required to return this original tender enquiry (all the pages), as it is, duly signed by Bidder on every page, for our record. Bidder may retain a photocopy of this tender enquiry for Bidder records.***
9. The larger outer cover/ envelope should indicate **Tender Number, Name of the item and opening date on the top of the right hand corner.**

**Encl: Annexure-I, II, III, IV, V**

  
(Ajay Kumar Soni)  
Administrative Officer

**Annexure-I**

**Name of the firm** : -----

**Registered/Postal Address** : -----  
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<b>1.</b>	<b>Phone number/Mobile number</b>	
<b>2.</b>	<b>E-mail Address</b>	
<b>3.</b>	<b>PAN No</b>	
<b>4.</b>	<b>VAT/TIN no., if applicable</b>	
<b>5.</b>	<b>Bank Details:</b> <b>Bank Name:</b> <b>Branch Address with Phone No.</b> <b>Account No.:</b> <b>Type of account (Current/Saving):</b>	
<b>6.</b>	<b>RTGS/IFSC code &amp; Branch</b>	

**Note:** Kindly furnish the following information along with Bid quotation:

The envelope shall be addressed to the purchaser and it should also bear the “**Tender enquiry no. and the words “Do not open before 3.00 PM on 18.01.2016** (The time and date of opening of the tenders)”

**(Signature of the Proprietor /representative of the firm)**

(Printed on letter head of firm)

**TO WHOM IT MAY CONCERN**

We hereby certify that our firm

.....

has not been black listed by any Government, or semi Government department in India.

**(Signature of the Firm with Seal)**



## LIST OF EQUIPMENTS REQUIRED

Sr. No.	Name of Equipments	Req. Qty	Bid security (in Rs).	Bid system
1.	Cooling water Bath	02	5000	<b>Single Bid system will be followed</b>
2.	Micro centrifuge spin-win	02	500	
3.	Magnetic stirrer	02	2000	
4.	Digital Camera	02	5000	

**TECHNICAL SPECIFICATION OF EQUIPMENTS REQUIRED** – Technical specification should be indicated point wise in their tender supported by leaflet or brochure/s.

<b>1. Cooling water Bath</b>	
	<p>Technical specification</p> <ul style="list-style-type: none"> <li>• <b>Capacity:</b>10-12 L</li> <li>• <b>Temperature range:</b> -10°C to 100°C</li> <li>• <b>Accuracy:</b> ±1°C</li> <li>• <b>Inner Chamber:</b> made up of stainless steel</li> <li>• <b>Temperature control:</b> thermostat</li> <li>• <b>Volt:</b> 220-240 V.</li> <li>• <b>Display:</b> LED based which display temperature</li> </ul> <p><b>Optional</b></p> <ul style="list-style-type: none"> <li>• If possible low water level indication/ switch off machinery</li> <li>• Temperature controller with LED display</li> </ul>

<b>2. Micro centrifuge spin-win</b>	
	<p>Technical Specification</p> <ul style="list-style-type: none"> <li>• <b>Max. RPM:</b> up to 10,000 RPM</li> <li>• <b>Max. RCF:</b> 7000-8000 x g</li> <li>• <b>Maximum capacity:</b> 12x1.5/2ml tubes</li> <li>• <b>Timer:</b> 1 to 30 minutes or continues</li> <li>• <b>Dimensions, mm (w x d x h):</b> ~ 155 x 175 x 125Approx.</li> <li>• <b>Weight (kg):</b> ~ 1kg</li> <li>• <b>Noise level:</b> less than 60db</li> <li>• <b>Safety:</b> Door lock</li> </ul>

<b>3. Magnetic stirrer</b>	
	<p>Technical Specification</p> <ul style="list-style-type: none"> <li>• <b>Top:</b> Stainless steel</li> <li>• <b>Torques:</b> high</li> <li>• <b>Volume:</b> 2-5 L</li> <li>• <b>Speed regulator:</b> functions at low speed also</li> <li>• <b>Digital speed Indicator:</b> display speed</li> </ul>

#### 4. Digital Camera

##### Technical specification

- Effective pixels: 18 Mega pixels
- Image sensor: CMOS
- Lens: 42 X optical zoom
- Vibration reduction: Lens shift
- Motion blur reduction: motion detection
- Focus range: [W] Approx. 50 cm (1 ft 8 in) to  $\infty$  (3.2 in), approx.
- Monitor: 8 cm, TFT LCD monitor with anti-reflection
- Storage media: SD/SDHC memory card
- Image size: 2-18M
- ISO sensitivity: ISO 80-1600
- Interface: Hi speed USB
- Power source: EN-EL5 rechargeable Li-ion Battery, Charging AC adapter
- Long Battery life
- Carry case with the camera
- Tripod stand (suitable height approx. 3-4 ft.)

**FORMAT OF PRICE QUOTATION**

S. No.	Name of Equipment(s)	Make and model	Qty.	Price	TAXES		Total amount
					VAT/SAT	Other charges, if any	
1.							

\*Please quote the rate in Indian Rupees only.

**Total in words:** .....

- We confirm that our offer will remain valid or acceptance for 60 days after the date of opening of tenders.

**Date:**

**Place:**

(Sign & Seal of the tendering firm with address)



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Dated: 23.12.2015

## NOTICE INVITING TENDER THROUGH TWO BID SYSTEM

**Sub: Purchase of Equipments (Two Bid) item no. 05 to 16 - reg.**

Dear Sir,

We have a requirement of above said equipments for which Bids are invited to submit Bidder most competitive quotation for the same. The envelope containing the quotations should be superscribed as **"TENDER FOR ITEMS (Name of items) & No.** Tender should reach at The Director, ICAR-National Bureau of Agriculturally Important Microorganism, Kushmaur Mau (U.P.) - 275103 ON **18.01.2016 up to 01.00 PM** which will be opened at **3.00 PM on 18.01.2016**. A DD of Rs. 500/- as tender fee i/r/o each items will be required, which is payable to The Director, ICAR Unit NBAIM, Mau payable at Maunath Bhanjan. All the relevant details are given below:-

- I. Description of the goods required and the required quantity : **(As enclosed in Annexure-VIII)**
- II Guiding specification and other Technical Details : **(As enclosed in Annexure-IX)**
- III. Terms of delivery (Delivery at site) : **FOR ICAR-NBAIM, MAU**
- IV. Delivery period for goods : **Within 30 days from the date of the purchase order**
- V. Erection/installation and commissioning (if required, depending on the goods ordered) : **Completed within 07 (seven) days of delivery of the goods at site.**
- VI. Terms of Inspection by the purchaser's representative : **Indenting Officer**
- VII. Training of Purchaser's operator(s) for operating the goods ordered, as and if necessary : **ICAR-NBAIM operator (s) for operating the goods ordered, as and if necessary ICAR-NBAIM operator(s) is/are to be trained for a period of 02 days/weeks at Directorate premises/supplier's premises for successfully operating the goods purchased. The training shall be completed within 07 days of installation.**

## VIII. Price structure

- a. The tenderer shall quote for the complete requirement of goods & services and for the full quantity as shown against a serial number in the list of requirements in Annexure-VIII, the tenderer are, however, free not to quote against all the serial numbers mentioned in the List of Requirements (in case there are more than one serial number in the list of requirements).
- b. **Specification quoted by the firm should be attached literature, leaflet/brochure of the equipments /items with the tender documents essentially.**
- c. All duties, taxes and levies payable by the supplier under the contract shall be included in the quoted price. The purchaser will not pay any such duties, taxes and levies separately. However, VAT/S.T., as legally and contractually leviable, will be quoted separately by indicating the nature and the current rate of VAT/Sales Tax, as applicable at the time of quoting. The sales tax will be paid extra at actual at the time of supply provided the transaction of sale is legally liable to sales tax and the amount of the sales tax is contractually payable. If the supplier in its quotation does not ask for sales tax extra, the same shall not be paid even if asks for the same at the later date.
- d. The rates and prices quoted by the supplier shall remain firm and fixed during the currency of the contract and shall not be subject to variation on any account whatsoever, including statutory variations, if any. However, sales tax will be paid extra as per provision under Clause viii (c) above.

### ix) Receipt of goods and Terms of Payment:

- a. Payment terms for supply of goods, including erection/ installation and commissioning (as and when applicable). Immediately on receiving the goods at site, the purchaser will verify the quantities of the items supplied as specified in the delivery challan of the supplier and also check for any superficial damage etc. in the goods so supplied and issue a provisional receipt accordingly. If the goods supplied do not require erection/ installation and commissioning at site, the purchaser, within two working days of issue of the provisional receipt, will issue acceptance certificate(of the goods) to the supplier, provided the goods supplied are acceptable in terms of the contract. However, if the goods supplied also need erection/ installation and commissioning, the purchaser will issue acceptance certificate within two working days, after successful erection/ installation and commissioning. The

supplier will then send its invoice along with the purchaser's acceptance certificate and other accompanying documents to the paying authority for payment. The paying authority will release the full payment to the supplier as due in terms of the contract, within fifteen working days of receipt of supplier's invoice, purchaser's receipt certificate and other accompanying documents, provided the same are in order.

**B. Training of purchaser's operator(s), if applicable** - Before release of payment to the supplier as per sub-para (a) above and a certificate required i/r/o successful completion of training of the operator(s) in terms of the contract.

**x) Paying Authority: The Assistant Finance & Accounts Officer, on behalf of the Director, ICAR-NBAIM.**

**xi) Liquidated Damage Clause:** The purchaser reserves all right to accept or deny the extension of delivery period. 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 the likely duration of the same. After receipt of supplier's 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 each week of delay or part thereof until actual delivery or performance. The maximum limit of such deduction will, however, be 10% (ten per cent) of the contract price of the delayed goods or services, after which the order will be treated, cancelled. The liquidated damage will also include damage due to delay in supply, installation and training. Further, during such delayed period of supply and/or performance, the supplier shall not be entitled to any increase in price and cost, whatsoever, on any ground. However, the purchaser shall be entitled to the benefit of any decrease in price and cost on any ground, whatsoever, of the goods & services, supplied during the period of delay. The purchaser's letter (to the supplier, with copies endorsed to other concerned) extending the delivery period will be subject to the above conditions.

**xii) Warranty Clause: Manufacturer's standard warranty clause is acceptable.**

**xiii) Dispute Resolution Mechanism:** 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 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.

2. Bidder are also required to fulfill the following conditions and furnish the details as indicated in subsequent paragraphs.

- a. At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to 25%, the quantity of goods and services as specified in the List of Requirements, without any change in the unit price or other terms and conditions.
- b. Please furnish a certified copy of Bidder latest ITCC (Income Tax Clearance Certificate) or relevant supporting documents.
- c. Please indicate if Bidder is currently registered with any Govt. Organization and if registered, furnish all relevant details.
- d. Please states whether business dealings with Bidder firm presently stand banned by any Government organization and, if so, furnish relevant details.
- e. A supplier shall not submit more than one quotation for the same set of goods. No pooling should be done in association with any other supplier.
- f. The supplier shall at all times be responsible, at no cost to the purchaser, against all third party claims of infringement of patent, trademark or industrial design rights arising from the use of the goods or any part thereof, with respect to the goods quoted by the supplier in its offer.
- g. Correction or over-writing in the tender document is not permissible. The quotation(s) as well as the contract shall be written in English language. All correspondence and other documents pertaining to the quotation(s) and the contract, which the parties exchange, shall also be written in English. The quotation and all correspondence and documents relating to the quotation Exchanged between the bidder and the purchaser may also be written in Hindi language provided that the same is accompanied by an English translation, in which case, for the purpose of interpretation of the quotation, the English translation shall govern.
- h. The contract shall be governed by the laws of India and interpreted in accordance with such laws.
- i. The quotation/offer shall remain valid for acceptance for a period not less than 90 days after the specified date of opening of the offers.
- j. A DD as Earnest Money in favour of “**The Director, ICAR Unit NBAIM, Mau payable at Maunath Bhanjan**” is to be enclosed along with the quotation. No quotation shall be considered without the earnest money deposit (EMD).
- k. In case, the successful bidder shows inability at any stage, after the contract is finalized and awarded for whatsoever reason(s), to honour the contract, the EMD/Performance Security deposited would be forfeited.
- l. **The firm to whom the tender will be awarded, will have to deposit the performance security equal to 5% of the total amount tentatively arrived till such time the period of contract expires. If the supply/services are not found to be satisfactory, the performance security is liable to be forfeited.**
- m. PAN No./ TIN No. and other details should be provided in respective annexure.
- n. Mere declaration that specification is according to indenter’s requirement would not be sufficient, unless & until supported by proper manufactures brochures.



3. The quotation shall be sealed in an envelope. The envelope shall be addressed to the purchaser and it should also bear the "Tender enquiry no. and the words **"DO NOT OPEN BEFORE 3.00 PM ON 18.01.2016** (The time and date of opening of the tenders)". This envelope should then be put inside another envelope, which will also be duly sealed. The outer envelope will bear the full address of the purchaser. The supplier must ensure that its tender (i.e. quotation), duly sealed as above, reaches the purchaser at least one hour before the time and date of opening of tenders. The supplier may, at its choice, send the tender by regd. post or by speed post. Alternatively, the supplier may also hand deliver the tender to the purchaser in which case the purchaser shall give the supplier a receipt, indicating the time & date of receipt of the tender.
4. The tenders, which are received late by the purchaser will be ignored. Further, the purchaser does not accept any liability and responsibility for the tenders in case the same are not properly sealed and marked and/or sent as above.
5. The tenders, which are received on time (as per para 3 above), will be opened at ICAR-NBAIM Office, Mau at **3.00 PM ON 18.01.2016** (date). The purchaser will open the tenders in the presence of the tender's duly authorized representatives, who choose to attend the tender opening.
6. The purchaser will evaluate and compare the quotations which are substantially responsive i.e. which are properly prepared and signed and meet the required terms, conditions, specifications etc. The purchaser will award the contract to the supplier whose quotation will be determined to be responsive and offering the best evaluated deal.
7. The Institute will not be held responsible for any sort of postal delay any tender form received after stipulated date & time as specified above shall be deemed as summarily rejected. Tenders forms so received will be opened on the stipulated date & time in the presence of tenders or their authorized agents. ***The purchaser reserves the right to accept or reject any or all quotations at any time prior to or after supply order, without assigning any reason, whatsoever, and without incurring any liability or obligation, whatsoever, to the affected tenderer or tenders.***
8. ***Please submit Bid quotation accordingly. Bidder shall sign all the pages of Bid quotation. Bid price quotation may be furnished in the format enclosed as Annexure-X. Bidder are also required to return this original tender enquiry (all the pages), as it is, duly signed by Bidder on every page, for our record. Bidder may retain a photocopy of this tender enquiry for Bidder records.***
9. The larger outer cover/ envelope should indicate **Tender Number, Name of the item and opening date on the top of the right hand corner.**

10. Other terms and conditions:

### **SUBMISSION OF BID**

The Bidding Process shall be in **two parts**, viz.

Part-I: Qualifying documents and Technical Bid

Part- II: Financial Bid

### **SUBMISSION OF BIDS:**

The proposal must consist of two separate envelopes as follows:

#### **“Qualifying documents and Technical Bid”**

The First envelope must enclose the following documents and should be marked in bold letter as **“Qualifying documents and Technical Bid”**.

1. A brief description of the firm and an outline of recent experience in assignments of a similar nature
2. Proof of registration central or State Govt. or equivalent
3. Proof of Sales Tax Registration, PAN Card Details
4. Copy of Income tax & sales tax return
5. List of user Departments with their contact number/ address,
6. Firm / Companies has to give an undertaking, that his/ her firm/ company is not barred or black listed & also declare that his company is having no legal case by any department or institute
7. Firm / Companies may have to give technical presentation in front of a committee or official, if need be.
8. A DD of Rs. 500/- as tender fee and Earnest Money (as indicate in the list Equipment) i/r/o each items will be required, which is payable to The Director, ICAR Unit NBAIM, Mau payable at Maunath Bhanjan.
9. Technical specification of Equipment for which tender has been submitted. Technical specification should be indicated point wise in their tender supported by leaflet or broacher/s.

**“FINANCIAL BID”** - The second envelope must enclose Financial Bids envelope superscribing **“FINANCIAL BID”**. Both the bids will be sealed in a bigger envelope and super scribed as **“Tender for..... (Name of equipment)”**. The bid document should be properly numbered and signed on each page by the authorized signatory of the company under company seal and submitted in proper manner.

Bids with all the relative annexure and the detailed proposal of the bidders solicited herewith in this document should be submitted to stipulate date of Submission of Bid.

#### **Evaluation of Technical Bid**

The Technical bid will be examined by ICAR-NBAIM which may call for clarifications/additional information from the bidders.

## **Validity of Proposal**

Financial Bid of the bidders who have been short-listed by the Evaluation Committee will only be opened. The price quoted in Financial Bid should be inclusive of all taxes, duties, transportation and any other charges. No price escalation on any ground whatsoever will be entertained during the period of validity of the rates.

## **INSTRUCTIONS TO THE BIDDER**

### **General Terms & Conditions of the Quotation**

- Any incomplete or ambiguous terms/conditions/quotes will be declared as disqualify.
- ICAR-NBAIM reserves the right to accept/ reject any or all Proposal/s without assigning any reason thereof.
- ICAR-NBAIM reserves the right to stop the process at any stage and go in for fresh bidding without assigning any reasons thereof.
- Bidder should provide details of their Fax, email and full address(s) to ensure that replies to Bids could be conveyed promptly.
- Please read the term & conditions laid down in this document carefully.
- Please fill in the relevant information in the blanks provided.
- Please sign in full by the Authorized Signatory (ies) with company seal in all the relevant Annexure and return the complete set in sealed cover.
- Bids not fulfilling any or all of the conditions prescribed or which are incomplete are liable to be rejected.
- No consideration will be given to bids received after the time stipulated above. Any extension of time shall be sole discretion of ICAR-NBAIM.
- The firm should not have been black listed by any Govt. Bodies/ PSUs etc.

**Encl: Annexure-VI, VII, VIII, IX, X**



(Ajay Kumar Soni)  
Administrative Officer

**Name of the firm** : -----

**Registered/Postal Address** : -----  
 -----  
 -----

1.	<b>Phone number/Mobile number</b>	
2.	<b>E-mail Address</b>	
3.	<b>PAN No</b>	
4.	<b>VAT/TIN no., if applicable</b>	
5.	<b>Bank Details:</b> <b>Bank Name:</b> <b>Branch Address with Phone No.</b> <b>Account No.:</b> <b>Type of account (Current/Saving):</b>	
6.	<b>RTGS/IFSC code &amp; Branch</b>	

**Note:** Kindly furnish the following information along with Bid quotation:

The envelope shall be addressed to the purchaser and it should also bear the **“Tender enquiry no. and the words “Do not open before 3.00 PM on 18.01.2016 (The time and date of opening of the tenders)”**.

**(Signature of the Proprietor /representative of the firm)**

(Printed on letter head of firm)

**TO WHOM IT MAY CONCERN**

We hereby certify that our firm

.....

has not been black listed by any Government, or semi Government department in India.

**(Signature of the Firm with Seal)**

**Annexure-VIII**

**LIST OF EQUIPMENT REQUIRED**

Sr. No.	Name of Equipment	Qty	Bid security (in Rs).	Bid system
5.	Tabletop cooled micro centrifuge	01	12000	<b>Two Bid system will be followed</b>
6.	Thermal cycler	02	30000	
7.	BOD Cooling incubator	02	15000	
8.	Hot Air Oven	02	10000	
9.	Refrigerated Centrifuge	02	15000	
10.	Gel documentation system	01	15000	
11.	Horizontal Electrophoresis with power pack	02	15000	
12.	Spectrophotometer	01	14000	
13.	Gel Electrophoresis Unit	01	10000	
14.	Nano Spectrophotometer	01	20000	
15.	Refrigerated incubator Shaker	01	10000	
16.	PCR and Gel Electrophoresis unit with power pack	01	10000	

**Annexure-IX**

**TECHNICAL SPECIFICATION OF EQUIPMENT REQUIRED** – Technical specification should be indicated point wise in their tender supported by leaflet or brochure/s.

5.	<p><b>Tabletop Cooled Micro-centrifuge</b></p> <p>Technical Specification</p> <ul style="list-style-type: none"> <li>• <b>Capacity:</b> 24 x 1.5/2 mL</li> <li>• <b>RPM:</b> 200-17000/27237g</li> <li>• <b>Temperature range:</b> -9°C to 40°C</li> <li>• <b>Fast/Quick Cool Button</b></li> <li>• <b>Noise level:</b> DB&lt;56</li> <li>• <b>Maximum RCF:</b> 30000 x g (approx.)</li> <li>• <b>Safety Lid lock</b></li> <li>• Dimension (W x D x H): 310 x 620x 265 mm</li> <li>• Time control: Pulse, timed&lt;100 mins. Or continuous</li> <li>• Imbalance cut off</li> <li>• <b>Refrigeration:</b> Yes</li> <li>• <b>Display</b> - Microprocessor based control</li> <li>• <b>Rotor:</b> Angle head changeable rotors</li> <li>• Acceleration and De-acceleration control.</li> </ul> <p>Optional</p> <ul style="list-style-type: none"> <li>• <b>Voltage stabilizer:</b> suitable voltage stabilizer to be provided with the instrument</li> <li>• Angle head rotors of different sizes available to be included in rate list.</li> <li>• Free of cost installation and wet demonstration of the instrument.</li> </ul>
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6.	<b>Thermal Cycler</b>
	<p>Technical Specifications</p> <ul style="list-style-type: none"> <li>• <b>Block capacity:</b> High quality 96 well gradient metal/alloy block</li> <li>• <b>Display:</b> VGA colour touch screen</li> <li>• <b>Sample capacity:</b> 96 x 0.2ml PCR tubes with exchangeable block facility.</li> <li>• <b>Temp range:</b> 3°C to 99°C with control accuracy of +/-0.1° C.</li> <li>• <b>Weight:</b> 7-10 Kg.</li> <li>• <b>PCR licence:</b> Yes</li> <li>• <b>Temperature gradient:</b> enabled with Range <math>\geq</math> 40°C; <b>Gradient Block:</b> 12 columns</li> <li>• <b>Gradient Temperature:</b> 30°C-99°C.</li> <li>• <b>Ramping speed:</b> (5.0° C/sec heating and cooling)</li> <li>• <b>Lid:</b> Heated lid with temperature of at least 30-99°C and high precision smart lid</li> <li>• <b>Memory</b> minimum of 1000 typical programs in up to 30 directories</li> <li>• <b>Noise emission:</b> Extremely low</li> <li>• <b>Auto restart after power failure: compulsorily required</b></li> <li>• <b>Hold at:</b> 4° C</li> <li>• <b>USB ports:</b> for data retrieval</li> <li>• Extra-large LCD display with user friendly controllable software.</li> <li>• <b>Data Processor:</b> I-5 Processor, 4 GB RAM, 500 GB1 TB HDD, 19" TFT Monitor, Wireless Optical Mouse and Wireless Multimedia Keyboard, DVD Combo Drive with high quality laser printer (Scanner, Copier and Printer) pre-installed Genuine Windows 8</li> <li>• PCR machine should be licensed with ISO certification</li> <li>• It should come with related software features pre-loaded, automatic block recognition and backlit display screen for convenient analysis of data, Gradient calculator</li> <li>• Working should be on standard Indian power supply of 230 V</li> <li>• A cooling system (split type AC 1.5 ton) of chamber/installation site</li> <li>• Warranty : 2 years from date of installation and</li> <li>• Free of cost installation &amp; demo.</li> </ul>

7.	<b>BOD Cooling Incubator</b>
	<p>Technical Specification</p> <ul style="list-style-type: none"> <li>• <b>Capacity:</b> 450 lts</li> <li>• <b>Mechanical convection:</b> To control proper air distribution by fan or blower</li> <li>• <b>Overload protection system:</b> protect system from overloading</li> <li>• <b>Digital temperature control:</b> LED based microprocessor based control</li> <li>• <b>Temperature control:</b> 0°C – 60°C range with accuracy of <math>\pm 0.1^\circ\text{C}</math></li> <li>• <b>High safety:</b> High level of safety is provided by the instruments</li> <li>• <b>Wall:</b> Double walled made up of high grade corrosion resistant stainless steel chambers and fully insulated with polyurethane foam</li> <li>• <b>Exterior:</b> made of high grade steel with powder coated finish.</li> <li>• <b>Shelves:</b> Chamber provided with modular 4-5 shelves made up of stainless steels with polished layers</li> <li>• <b>Cooling:</b> required with ISI marked CFC free refrigerators</li> <li>• <b>Door:</b> provided with glass doors for easy viewing of samples</li> <li>• <b>Safety:</b> Over current protection, Leakage breaker and temper proof controls</li> <li>• <b>Power:</b> 240 volt</li> <li>• Movable on castor wheel</li> <li>• <b>Compressor:</b> Hermetically Sealed Brand New Kirloskar Compressor.</li> <li>• <b>Circulation:</b> Motorized Blower from back.</li> <li>• <b>Light:</b> Inner chamber provided with small size tube lights</li> </ul> <p>Optional</p> <ul style="list-style-type: none"> <li>• Illuminating light in the chamber</li> <li>• Built in temperature deviation alarm</li> <li>• Safety thermostat for overshoot temp</li> </ul>



8.	<b>Hot Air Oven</b>
	<p>Technical Specification</p> <ul style="list-style-type: none"> <li>• <b>Capacity:</b>300-400 L</li> <li>• <b>Head up control panel:</b> for convenient operations</li> <li>• <b>Inner Chamber:</b> made up of triple walled with special grade of stainless steel</li> <li>• <b>Outer wall:</b> made up of mild steel sheet, duly powder coated</li> <li>• <b>Insulation:</b> by glass wool/blanket insulation</li> <li>• <b>Air circulation:</b> by fan/blower</li> <li>• <b>Temperature range:</b> 40°C – 250°C with an accuracy of 0.2°C</li> <li>• <b>Digital temperature control:</b> thermostatically control temperature</li> <li>• <b>Heaters:</b> two heater of 750 watts made of high quality chrome wire</li> <li>• <b>Door:</b> Insulated door with toughened glass view panel</li> <li>• <b>MCB:</b> at the back protect the unit from voltage fluctuation</li> <li>• <b>Electric supply:</b> 220-240 Volt</li> <li>• <b>Shelves:</b> no of shelves can vary from 3-4</li> <li>• Equipment adheres to CE requirement and ISO certification</li> <li>• Free of cost installation and demonstration</li> </ul>

9.	<b>Refrigerated Centrifuge</b>
	<p>Technical specification</p> <ul style="list-style-type: none"> <li>• <b>Max. RPM:</b> 22,000 RPM</li> <li>• <b>Max. RCF:</b> 55,200xg approx.</li> <li>• <b>Display:</b> LCD/LED with display of temperature, RPM, time and rotor used.</li> <li>• <b>Safety function:</b> Interlock door, non-contact imbalance detection, temperature limit, over speed detection</li> <li>• <b>Motor:</b> Brushless AC induction motor</li> <li>• <b>Variable run time:</b> up to 90 min. continuously, with alarm at completion</li> <li>• <b>Temperature Range:</b> -10°C to +40°C (should be able to maintain 5<sup>0</sup>C or lower at high speed)</li> <li>• <b>Noise:</b> less than 60db</li> </ul> <p><b>Optional</b></p> <ul style="list-style-type: none"> <li>• <b>Rotor:</b> 24x1.5ml, 8x25ml, 12x15ml, 8x50ml, PCR tubes and PCR plates rotor (suitable tubes required)</li> </ul>

10.	<b>Gel Documentation System</b>
	<p><b>Technical specification</b></p> <ul style="list-style-type: none"> <li>• Gel Documentation System 220 Volts</li> <li>• CCD resolution (HxV): 1360x1024 pixel arrays</li> <li>• Camera with 40 pg sensitivity or better</li> <li>• Pixel Density: 16 bit (65536 Gray level) or better</li> <li>• Pixel Size (HxV): 4.6x4.6 micrometre</li> <li>• Dynamic range: 3 orders of magnitude</li> <li>• Pixel resolution: minimum 4 megapixel</li> <li>• Illumination modes: Trans-UV, white, epi-white, EPI-UV, Epi-blue, Trans-blue, Epi red,</li> <li>• Operating temperature: 10-28°C</li> <li>• Maximum Sample size: 28 X 36 cm</li> <li>• Filter holder: 3 positions)2 for filters, 1 without filter)</li> <li>• Excitation source: 302, 365 nm and white light.</li> <li>• Cabinet: Filter positions: 5 position filter wheel, computer controlled</li> <li>• Transillumination area: 25x26 cm</li> <li>• UV white light converter screen or better</li> <li>• Digital printer for image printing with USB connectivity</li> <li>• Applications for absorbance/colorimetric, Fluorescence and chemiluminescence</li> <li>• Software: Customized report generation, including images, data and analysis results, Lane Profile Analysis, Molecular Weights calculation. Colony counting.</li> <li>• Computer I-5 processor, 4 GB Ram, 1 TB Hard Disk 19" TFT Monitor, Wireless Key board and 1 Mouse, Combo Drive, pre-installed Windows 8, Suitable UPS with half hour battery backup, B&amp;W Laser Printer, Scanner for scanning large gels. Warranty one year (Branded with one year warranty).</li> </ul> <p>Optional</p> <ul style="list-style-type: none"> <li>• Original company literature from principal company, manufacturer must be supplied</li> <li>• Warranty : 2 years from date of installation</li> </ul> <p>Free of cost installation of gel doc and wet demonstration</p>

11.	<b>Horizontal Electrophoresis with Power Pack</b>
	<p>Technical Specification:</p> <ul style="list-style-type: none"> <li>• <b>Cell size:</b> medium or larger dimensions 30x25 approx.</li> <li>• <b>Gel tray:</b> different sizes</li> <li>• <b>Samples throughput:</b> 24max at a given time</li> <li>• <b>Buffer recirculation</b> – Yes</li> <li>• <b>Migration of Tracking dye:</b> 6.2 cm/hr</li> <li>• <b>Lid:</b> Transparent made of polycarbonate</li> <li>• Reservoir with platinum electrodes and attached anode power lead &amp; safety cover with electrical interlock.</li> <li>• <b>Safety certificate:</b> IEC 1010 (EN 61010) Electrical safety certification.</li> </ul> <p><b>Accessories</b></p> <ul style="list-style-type: none"> <li>• <b>Hand casting:</b> Multiple options for hand casting gels of different sizes.</li> <li>• <b>Power Supply:</b> Suitable High voltage power pack with power leads, stabilizer and spike buster Current Voltage: 10-2000mA; Volt: 240 V</li> <li>• <b>Combs:</b> Teflon combs (2 each 1-well combs and 2 each 16-rectangular well combs)</li> <li>• Gel casting Unit/Gel tray and gel scoop to be provided with the instrument</li> </ul>

12.	<b>Spectrophotometer</b>
	<p>Technical specification:-</p> <ul style="list-style-type: none"> <li>• Stand-alone operation with the coloured touch screen and connectivity to laptop/PC</li> <li>• Fast measurement time of less than 3 seconds with an open system</li> <li>• Minimum sample volume should be required for analysis like 0.3 <math>\mu</math>l with 100 % recovery without contamination</li> <li>• Should be able to measure very low and very high (up to 1-10,000 ng/ <math>\mu</math>L) concentration solution with a short path length of 0.1 mm</li> <li>• Combination of micro volume pedestal technology and cuvette/tray cell capability in a single instrument format</li> <li>• Instrument should be approved to standards mentioned for such measurements</li> <li>• Automated measuring up to 32 positions at a path length of 0.1 or 1.0 mm</li> <li>• Light Source: Xenon flash lamp</li> <li>• Minimum Sample Size 0.3 <math>\mu</math> L</li> <li>• Path length(s) 0.1 and 1.0 mm, auto-ranging</li> <li>• Wavelength Range 190 – 720 nm, Provision for a quick start function</li> <li>• Provided with suitable software for calculation of sample dilution, molar conversion etc and inbuilt memory for results.</li> <li>• Warranty should be of 02 years.</li> <li>• As an optional accessory, a latest data processor with at least i5 processor (3rd Generation), 500 GB HDD, 4 GB RAMS, 17” laptop should be provided with the system with Genuine OS installed</li> <li>• AMC prices and accessories prices should be quoted separately.</li> </ul>

13.	<b>Gel Electrophoresis Unit</b>
	<p>Technical specification:-</p> <p>Horizontal Electrophoresis Unit (at least 25-30 x 40-45 x 8-10 cm)</p> <ul style="list-style-type: none"> <li>• Removable UV transparent gel casting tray of three different sizes (two each) 25x20, 25x15, 25x10 with gel casting gates.</li> <li>• At least 15-20 wells (Minimum sample will be run at least 45-60).</li> <li>• Bubble level, adjustable height combs to fit variable needs (1mm, 1.5 &amp; 2.0 mm thick well comb)</li> <li>• Base buffer volume: 3 lit. approx.</li> <li>• Gel caster: complete system should be light weight convenient with leak proof gel casting tray for casting different sizes of gel.</li> <li>• Buffer tank/chamber-coolent-insulated with buffer recirculation ports and safety lid with cables</li> <li>• Suitability: suitable of gels for application in STS screening, microsatellite analysis, PCR fragment analysis, RFLP analysis and DNA fingerprinting</li> <li>• Combs compatibility: compatible with multi-channel pipettes.</li> <li>• Number of combs: 20 well (10 Nos.) and 15 well comb (10 Nos.) of different thickness (1 mm, 1.5 &amp; 2.0 mm).</li> <li>• Power supply: Constant voltage (voltage upto 600V), constant current (500mA) with LED display, four pairs (minimum) of power outlets for duplicate parallel runs and suited to high through output analysis. Compact corrosive free body.</li> <li>• Automation: Parameter limit crossover and recovery after power failure</li> <li>• Memory- minimum 7 protocols</li> <li>• Safety features- No load, sudden load change, over load and short circuit detection, overvoltage protection</li> </ul>

	Warranty- 3 years minimum.
14.	<b>Nano Spectrophotometer</b>
	<ul style="list-style-type: none"> <li>• Suitable for estimation of dsDNA, ssDNA, RNA, Oligonucleotides and protein in samples.</li> <li>• Sample volume ranging from 0.1-3.0µl or other options</li> <li>• Pedestal (with stainless steel and quartz fiber) or with provision of micro-cuvette</li> <li>• Path length: 1mm (auto ranging to 0.2mm) Wave length of 200nm to 850nm, with facility for 1-3 nm increment</li> <li>• Light source: Xenon flash lamp preferably with life time warranty</li> <li>• Wave length accuracy <math>\pm 1</math> nm, absorbance precision : 0.002-0.003 (1 nm path)</li> <li>• Detector Type: CCD array or photodiode or equivalent</li> <li>• Detection Limit: &lt;10 ng to more than 10000ng per µl (dsDNA)</li> <li>• Should be having VGA display or complaint to computer having advance and suitable configuration for data recording analysis and retrieving etc. to be provided with equipment.</li> <li>• Provision for a quick start function</li> <li>• Provided with suitable software for calculation of sample dilution, molar conversion etc and inbuilt memory for at least last 1000 results with details of sample wise information. Software should be compatible with windows.</li> <li>• A latest data processor with at least i5 processor (3rd Generation), 500 GB HDD, 4 GB RAM, should be provided with the system with Genuine OS installed</li> <li>• AMC prices and accessories prices should be quoted separately.</li> <li>• Provided with suitable UPS for power back up.</li> <li>• Warranty minimum for 2 years from installation</li> </ul>

15.	<b>Refrigerated Incubator Shaker</b>
	<p>Specification for Refrigerated Incubator Shaker</p> <ul style="list-style-type: none"> <li>• Incubator Shaker (Floor Model) –with Inner Chamber made up of stainless steel</li> <li>• Facility of Variable throw Diameters on the same machine</li> <li>• Facility of Interfacing the system to a PC for programming, error diagnostics and calibration to meet GLP standards</li> <li>• Facility for incubation of stationery cultures apart from the shaking cultures</li> <li>• Speed Range: 20-400 rpm or more</li> <li>• Temperature range: 50C to 800C or more</li> <li>• Temperature Accuracy: <math>\pm 0.10</math>C</li> <li>• Universal Tray with Clamps for Variable sizes to hold at least 25-30 flasks to 250 ml each or more. Clamps of different capacities to be offered for 100ml, 250ml and 500</li> <li>• In built over Voltage Protection and Self Monitoring System where all parameters are checked continuously and the machine is switched of automatically in case of fault.</li> <li>• Maximum possible Warranty to be clearly mentioned.</li> <li>• Machine to be provided with a suitable Voltage Stabilizer</li> </ul>

16.	<b>PCR and Gel Electrophoresis unit with Power Pack</b>
	<p><b>1. PCR (Thermal Cycler) specifications</b></p> <ul style="list-style-type: none"> <li>• Block format : 96 well, alloy, 0.2 ml, sample blocks to run in less tile with full efficiency</li> <li>• Ramp rate of block: More than 3.5 degree C/second max.</li> <li>• 3. Sample ramp rate: More than 3.0 degree C/second max.</li> <li>• Temp. range : 4 to 99 °C</li> <li>• Temp. accuracy &gt; ±0.20°C</li> <li>• Uniformity : below 0.5 °C</li> <li>• Volume range : 10-75 µl</li> <li>• Instrument memory : Min 750 protocols on board and higher using USB memory card</li> <li>• Size and weight: below 30 Cms height, wt. not more than 12 Kg.</li> <li>• Color interface with touch screen</li> <li>• Warranty : min of two years</li> </ul> <p><b>2. Mini Horizontal Agarose Electrophoresis Unit</b></p> <ul style="list-style-type: none"> <li>• Horizontal complete unit of molded high-impact acrylic capable of the gel size 7cm x 10cm (WxL), Wells : 08</li> <li>• The unit should include buffer chamber assembly (buffer volume 500 ml) with a safety lid, separate gel casting tray and buffer recirculation and leveling feet.</li> <li>• The unit has a thick UV-transparent running tray, casting tray and foam gaskets, bubble leveler and 1.5 mm thick comb</li> <li>• Power setting: 500 V, 500mA, 15 W Maximum.</li> <li>• Max temp.: 50 degree C with up to 80% humidity.</li> <li>• Warranty : Min One year</li> </ul> <p><b>2. Power backup</b></p> <ul style="list-style-type: none"> <li>• Power range: 10-300 volts, 4-500mA, 90watts.</li> <li>• Operation at both the constant voltage and/or current modes with easy to see LED display.</li> <li>• Automatic crossover for switching from constant current and voltage mode.</li> <li>• Easy for transport with big handle.</li> <li>• Unit should have safety-recessed high voltage output terminals (4 sets min).</li> <li>• The unit features a large, easy-to-read LCD display.</li> <li>• Warranty : one-year warranty min.</li> </ul>

# Financial Bid

## FORMAT OF PRICE QUOTATION

S. No.	Name of Equipment(s)	Make and model	Qty.	Price	TAXES		Total amount
					VAT/SAT	Other charges, if any	
1.							

\*Please quote the rate in Indian Rupees only.

**Total in words:** .....

- We confirm that our offer will remain valid or acceptance for 60 days after the date of opening of tenders.

**Date:**

**Place:**

(Sign & Seal of the tendering firm with address)