



# King George's Medical University U.P.,

OFFICE OF THE SUPERINTENDENT

**GANDHI MEMORIAL & ASSOCIATED HOSPITALS**

Lucknow-226003 (U.P.) INDIA website : [www.kgmu.org](http://www.kgmu.org)

## Tender Form

Re-Tender No.: 2355/MS/2016

Date- 01/02/2016

Tender fee of Rs. 3000.00 + 5%VAT (Rs. Three Thousand + 5% VAT only) (Non Refundable)

**(Only sole Manufacturers / their authorised Indian Agents may Quote this Tender)**

(जिन निविदादाताओं ने निविदा संख्या 23994/एम.एस./2015 दिनांक 16.12.2015 के सापेक्ष निविदा प्रस्तुत की गई है उन्हें इस निविदा में प्रतिभाग करने की आवश्यकता नहीं है। उनकी पूर्व में डाली गई निविदा को इस निविदा में सम्मिलित कर लिया जायेगा। यदि निविदादाता द्वारा पुनः निविदा में प्रतिभाग किया जाता है तो पूर्व में डाली गई निविदा निरस्त मानी जायेगी)

To,

M/s.....

.....

.....

.....

**Sub: Tender for Equipments to be purchased under DHR-MRU Scheme on Trunkey Basis for establishment of Research Laboratory in K.G.M.U., Lucknow**

Dear Sir,

You are invited to tender for Equipments to be purchased under DHR-MRU Scheme on Trunkey Basis for establishment of Research Laboratory. Please quote tender number on the top of your envelope. The sealed envelope containing the tender document should be addressed to "The Superintendent, G.M. & Associated Hospitals (KGMU), Lucknow.

The tender should be submitted after carefully reading the instructions for filling tender. You may not furnish your terms and conditions, Modification if any included in your offer shall not be accepted and you shall be bound by the terms and conditions of tender / order. Technical and financial bid should be submitted in separate sealed envelope mentioned with full Name, Address, E-mail, Fax, Phone, Mobile No. of the tendering firm on the top of envelopes and put in a large envelop duly sealed.

The bids should be submitted in the tender box placed in the Tender Cell of the Superintendent Office, KGMU from **dated 02.02.2016 to 22.02.2016 upto 3.00 pm.**

The Technical Bid shall be **opened on dated 26.02.2016 at 03:00 P.M.** in Committee Room of CMS Office, KGMU. Incase date mentioned above is declared holiday, it shall be automatically shifted to the next working day.

Tender received after due date & time will not considered. Tender without Earnest money & Tender Fee shall be rejected.

Your's Sincerely

**Medical Superintendent**  
G.M. & Associated Hospitals,  
(K.G. Medical University U.P.),  
Lucknow

# **King George's Medical University, Uttar Pradesh, Lucknow**

Gandhi Memorial & Associated Hospitals

Tender Documents Regarding Purchase of

1. For the Department of
2. Name of the Instrument/Equipment -
3. Item No. -

**CHECK LIST**  
**IMPORTANT:**

- The tenderer are hereby instructed to arrange the required tender documents as per check list and must mention the page numbers against each column of the check list.
- **All papers submitted must be numbered and signed by tenderer.**
- **All paper submitted must be strictly in order as per check list.**

S.No.	Name of Document	Page No.	
		From	To
1.	Letter to Superintendent as per format		
2.	Earnest Money (in Form of FDR) of Rs.		
3.	Declaration on non judicial stamp paper of Rs. 10/-as per Proforma (Schedule A)		
4.	Technical Bid		
	(a) Details of products offered on letter head (Schedule B)		
	(b) Technical compliance chart strictly as per specification (Schedule C)		
	(c) Copy of product manual/catalogue of product		
	(d) Circuit diagram (if applicable)		
	(e) Valid authorization letter of manufacture (if applicable)		
	(f) Manufacturing License of manufacturer (if applicable)		
	(g) User List (Schedule D)		
	(h) Full Addresses & contact numbers of Service Centres		
	(i) Proof of Indian agent for last 2 years or more with present foreign manufacturing company (in form of DGS&D registration, 1st import bill, Govt. order copy		
5.	Sales Tax Registration Certificate		
6.	Sales Tax Clearance Certificate		
7.	Income Tax Clearance Certificate		
8.	Acknowledgement of Tender Form No.		
9.	Other papers		

**TENDER NO.& NAME**

**Signature of Tenderer**

**Name**

**Designation**

**Seal**

**Dated**

**Format of Letter to Superintendent**

**“OFFICE OF THE SUPERINTENDENT, KING GEORGE’S MEDICAL UNIVERSITY, UTTAR  
PRADESH, LUCKNOW 226003**

S.No. OF TENDER :

FILE NO. :

Name of the party in whose : \_\_\_\_\_

Favour the Tender form has been issued

The Superintendent,  
King George’s Medical University, U.P., Lucknow 226003

**(SEAL OF THE SUPERINTENDENT)**

Dear Sir,

1. I/We hereby submit our tender for the \_\_\_\_\_
2. I/WE now enclosing herewith the FDR No .....  
dated ..... for **Rs. 2,00,000.00** drawn in favour of the “**Superintendent, King George’s Medical University, U.P., Lucknow**” towards EMD/Bid Security. **(TENDERS NOT ACCOMPANIED WITH EMD/BID SECURITY ALONGWITH THE TECHNICAL BID SHALL BE SUMMARILY REJECTED)**
3. I/We hereby agree to all the terms and conditions, stipulated by the KING GEORGE’S MEDICAL UNIVERSITY, U.P., Lucknow in the enclosed document from page no. .... to ....in this connection including delivery, penalty etc. Quotations for each group are being submitted under separate covers and sheets and shall be considered on their face value.
4. I/We have noted that over written entries shall be deleted unless duly out & re-written and 4nitialled. Tenders are duly signed (No thumb impression should be affixed).
5. I/We undertake to sign the contract/agreement if required within 10 (Ten days) from the issue of the letter of acceptance, failing which our/my security money deposited may be forfeited and our/my name may be removed from the list of suppliers at the **King George’s Medical University, U.P., Lucknow**.
6. I/We have gone through all terms and conditions of the tender documents before submitting the same.

**NOTE:** ALL TERMS & CONDITIONS SUCH AS RATES AND TAXES ETC, HAVE BEEN INDICATED SEPARATELY IN THE QUOTATION. DURING THE RATE CONTRACT PERIOD BASIC PRICE EXCEPT GOVT. LEVIES OF THE ITEM WILL NOT BE CHANGED. OTHER TERMS AND CONDITIONS ARE ALSO AS PER YOUR REQUIREMENT.

**Yours faithfully, Signature of**

**Tenderer with full Address.**

**WITNESS** \_\_\_\_\_  
**WITNESS** \_\_\_\_\_

**(To be notarised on Non Judicial Stamp of Rs.10)**

**Schedule – A**

**Declaration**

1. I/we hereby agree to abide by all terms and condition mentioned in tender document along with special terms & condition mentioned with specification of the items.
2. I/we hereby declare that I/we have not been debarred by any Institution /Govt. Origination in past from Tendering.
3. I/we hereby agree to provide services and supply spares for the equipment for a minimum period of 10 year from date of purchase.

**Signature of Tenderer**

**Name**

**Designation**

Name of Organisation

**Seal**

**Date**

**SCHEDULE 'B'**  
**PROFORMA OF TECHNICAL BID**

**RE-TENDER NO. & NAME OF ITEM**

<b>Serial No. Of Instrument/Equipment as per enclosed Specification</b>	<b>Model No. / Cat. No.</b>	<b>Name of Items with full specification etc.</b>	<b>Name of Principal Manufacturing Co. Country of Origin</b>
1	2	3	4

**Signature of Tenderer**

**Name**

**Designation**

**Seal**

**Date**

**SCHEDULE 'C'**

**PROFORMA OF TECHNICAL COMPLIANCE TO BE ENCLOSED WITH  
TECHNICAL BID**

RE-TENDER NO. & NAME

<b>Serial No. Of Instrument/ Equipment as per enclosed Specification of tendered item</b>	<b>Model No./cat No of item offered</b>	<b>Full specification of quoted model</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>

**Signature of Tenderer**

**Name**

**Designation**

**Seal**

**Dated**

**Note:**

Please highlight & serialize the specifications of the items in original catalogue

## SCHEDULE 'D'

### PROFORMA OF USERS LIST

**RE-TENDER NO. & NAME**

<b>Sl. No.</b>	<b>User Name</b>	<b>City</b>	<b>Contact No with STD Code</b>	<b>Installation Date</b>	<b>Specify Model No.</b>

**Signature of Tenderer**

**Name**

**Designation**

**Seal**

**Dated**

## SCHEDULE 'E'

### PROFORMA OF FINANCIAL BID

#### RE-TENDER NO. & NAME OF ITEM

Serial No. Of Instrument & Equipment as per Specification	Model No./ Cat No.	Name/Items with full specification etc.	Principle manufacturing co. Name & Origin of Country	Rates exclusive of all taxes & duties F.O.R. destination in U.P.	TAXES	Qty	Rates of AMC & CAMC as applicable Total cost inclusive of all taxes for 6 <sup>th</sup> , 7 <sup>th</sup> 8 <sup>th</sup> , 9 <sup>th</sup> and 10 <sup>th</sup> Yr.	Total cost inclusive of all taxes & duties for the packing unit offered F.O.R. destination including CIF upto field unit (excluding AMC/CMC)
1	2	3	4	5	6	7	8	9

**Signature of Tenderer**

**Name**

**Designation**

**Seal**

**Dated**

**NOTE:**

(a) Rates quoted must be mentioned after deduction of all rebates. Any rebates mentioned separately will not be considered. Other charges, taxes etc. As applicable must be added. Rates must be F.O.R. destination in KGMU UP Lucknow.

(b) Please fill financial bid strictly in accordance with schedule – E other wise it may be rejected.

(c) **All Rates must be quoted in Indian Rupees Only.**

# KING GEORGE'S MEDICAL UNIVERSITY UTTAR PRADESH, LUCKNOW

## General Terms & Conditions for Tender

The following terms and conditions should be complied with/accepted while submitting tender:

1. The tenderer submitting his tender would be deemed to have read, considered and accepted all the terms and conditions. No enquiries, verbal or written shall be entertained in respect of acceptance or rejection of the tender.
2. The University will have the right to reject/cancel all or any of the tender without assigning any reason.
3. Sealed tender should be submitted in a Two-bid System. Earnest money and Technical bid shall be submitted as Part I. Price bid shall be submitted as Part II. Both Part I & II must be submitted in sealed envelopes to the office of the Superintendent, G.M. & A.H., King George's Medical University U.P., Lucknow, hereinafter called University, failing which the tender shall be treated as void ab initio. The envelopes must be superscribed "Tender for \_\_\_\_\_ Tender. No. \_\_\_\_\_ Dated \_\_\_\_\_ of Deptt. \_\_\_\_\_ King George's Medical University, Uttar Pradesh, Lucknow."

Technical bid must contain **original catalogue, literature of product, copy of product manual and circuit diagram** (if applicable). All papers as mentioned in check list and/or in the General Terms and Conditions must be enclosed with technical bid, strictly in accordance with the serial of check list. **Price bid** must strictly conform to Proforma provided (**Schedule – E**) on letter-head of the tenderer.

### **"BOTH THE SEALED ENVELOPES SHOULD THEN BE PUT IN OUTERCOVER INDICATING THEREON:**

- Reference No. Of the Tender: \_\_\_\_\_
- Tender regarding: \_\_\_\_\_
- Due date for submission of the tender: \_\_\_\_\_
- Due date for opening of the tender: \_\_\_\_\_
- Name of the firm: \_\_\_\_\_

4. **The tenderer should quote in figures as well as in words the rates and the amount quoted by him/them.** The tenderers should give rates, showing taxes, if any, and levies, packing forwarding and insurance charges separately giving full breakup details. THE UNIVERSITY SHALL NOT ISSUE 'C/D FORMS'. **Alteration, if any unless legibly attested by the tenderer, with their full signature, shall invalidate the tender. The tender should be signed by the tenderer himself/themselves or his/ their authorized agent on his/ their behalf. In case the tender is signed by the agent the authority letter in original, in his favour, shall be enclosed with tender documents. The tenderers should take care that the rates and amounts are written in such a way that interpolation is not possible. No blank space should be left, which would otherwise make the tender liable to rejection.** Tenderers are advised to mention MRP Rates also for each item quoted (if applicable) in the column provided in Schedule-E (Proforma for Financial Bid) invariably in addition to their quoted rates. No tenderer can charge/quote rates more than MRP, in case if any tenderer charges/quotes higher rates for any item than MRP, actions like forfeiture of security money/performance back guarantee and removal of name from the list of supplier shall be taken against the firm.
5. The tenderer should clearly state whether he/they are manufacturer, accredited agents or authorized representative (indicating the name of Principal) on the top of the Bid. The

following documents should invariably be submitted along with the tender documents failing which the tender shall be rejected.

- i. A declaration by the proprietor of the firm, in case, the firm is proprietorship firms on non- judicial stamp paper of worth Rs. 100/- duly attested.
- ii. An attested copy of partnership deed duly registered by the Registrar of Firms, in case, of partnership firm.
- iii. An attested copy of article of memorandum with constitution of firm and guidelines, in case, of private limited firm with name, photo& signatures of all Directors.

A proof of ownership/partnership shall be submitted along with verification of address, telephone number and Fax number. A surprise visit to the premises by the representatives of the University, under the authority of the Superintendent, shall be made to assess the firm's capacity and standing.

6. The tenderer shall submit the offer with original copy of the tender documents duly signed on each page. Item –wise rates indicating units be offered on letter- head of the firm as per proforma (**Schedule – E**).
7. Any action on the part of the tenderer to influence any body of the Medical University will make his tender liable for rejection.
8. The quantity shown in the Schedule may increase or decrease to any extent depending upon the actual requirement.
9. The tenderer shall specify after sales services/facilities and local availability of technical support within the Guarantee/Warranty period as demanded by University. The warranty period will be extended for the period of the Instruments remaining out of order during warranty period. In case the manufacturer changes its authorised service agents in future, the liability of the existing authorised agent and/or the Manufacturer shall not cease under this agreement in case the new authorised service agent fails to provide satisfactory services.
10. All technical bids will be deemed successful only after the assessment and approval of equipment/material by nominated panel of experts of King George's Medical University Uttar Pradesh, Lucknow. If needed, the tenderer/supplier will be informed of the date/venue for demonstration of quoted products at their cost. The University may consider the option of inspection of equipments at other places also; in that case arrangements will be made by tenderer and full expenses shall be borne by them.
11. If any trouble or defect originating with the design, materials, workmanship or operating characteristics of any materials/equipment/machines arise at any time covering a period of **60 (Sixty) months** from the date of the satisfactory handing over of the equipments duly installed/ commissioned with trial performance or **66 (Sixty Six)** months from the date of last shipment of goods/ materials (whichever is later) and the seller is informed thereof, the seller shall at his own expenses and as promptly as possible make such alterations, repairs and replacement as may be necessary to enable the material/equipment/machines to function in accordance with the specifications and to fulfil the foregoing guarantees.
12. The tenderer shall also provide the Installation, Commissioning, Demonstration and Training to the concerned personnel of this Medical University with out any additional charge.

13. The tenderer shall submit the requisite information like Civil works/Electrical details etc. Within 2 weeks from the date of receipt of order or establishment of letter of credit as the case may be.
14. Notwithstanding any other provision, the terms & conditions and any other items given in the Purchase order will be treated as binding with "Errors & Omissions Expected" basis. However, if the supplier notices any mistake in the contents of the order, he must bring the same to the notice of the Medical University and seek clarifications. Supplier will have to bear the responsibility for failure to take this action.
15. The Medical University may in writing make any revision or change in the purchase order, including additions or deletions from the quantities originally ordered in the specifications or drawings. If any such revisions/changes affect the price or delivery, the same shall be subject to the adjustment of price/delivery, where required on a reasonable basis by mutual agreement in writing which should be communicated.
16. The Medical University reserves the right to cancel the purchase order or any part thereof and shall be entitled to revise the contract wholly or in part by a written notice to the vendor, if:
  - (a) The tenderer fails to comply with the terms of the purchase order including specifications and order technical requirement.
  - (b) The tenderer becomes bankrupt or goes into liquidation.
  - (c) The tenderer fails to deliver the goods in time and or does not replace the rejected goods promptly
  - (d) A receiver is appointed for any of the property owned by the vendor.
  - (e) The tenderer becomes incapacitated to enter in to a contract under the Indian Contract Act, 1872.
17. Upon receipt of the said cancellation notice, as provided in clause 16 above, the vendor shall discontinue all works of the purchase order and matters connected with it.
18. Earnest Money as specified with specification of each item shall be paid in shape of FDR of one year duration, drawn in favour of the Superintendent, G.M. & A.H., King George's Medical University UP, Lucknow and payable at Lucknow (U.P.), India.
19. **Security money** shall be submitted to **the tune of 10%** of ordered value within 15 days of release of supply order. Security money should be given in shape of FDR of five years duration in favour of the Superintendent, G.M. & A.H., King George's Medical University UP, Lucknow and payable at Lucknow (U.P.), India. In case he fails to deposit the same within the specified period his earnest money may be forfeited, contract may be terminated and awarded to next higher tenderer and he may be debarred upto 3 years from further tenders. Security money will be refunded after 5 years of supply provided University is satisfied regarding performance of equipment/services of supplier.
20. Unless otherwise specified in the order, the order price shall remain firm and will not be subject to escalation of any description during the pendency of the order, notwithstanding the change in the cost of materials, labour and/or variations in taxes, duties and other levies on raw materials and components that may take place while the order is under execution even if the execution of the order is delayed beyond the completion date specified in the order for any reason whatsoever..
21. For indigenous goods the price should be on F.O.R. King George's Medical University Uttar Pradesh, Lucknow basis, inclusive of all levies and duties wherever applicable which should be indicated clearly as specified in proforma. The rates of VAT should be clearly indicated wherever chargeable. The King George's Medical University Uttar Pradesh, Lucknow shall not issue Form 'C' or 'D'. TENDER SHALL BE REJECTED IF THE

COPY OF COMMERCIAL TAX REGISTRATION CERTIFICATE (NOW CALLED AS VAT) IS NOT FURNISHED. FIRM IS ALSO ADVISED TO SUBMIT A CERTIFICATE ON THEIR LETTER HEAD STATING THAT UPTO DATE RETURN HAVE BEEN FILED AND THERE ARE NO DUES WITH THE CONCERNED DEPARTMENT. FIRM WILL ALSO SUBMIT THE COPIES OF SUCH RETURN (LATEST) SUBMITTED TO THE DEPARTMENT OF COMMERCIAL TAX. Commercial tax and other statutory levies should be shown separately and should not be included in the basic price. Otherwise it will not be considered.

22. The tendered rates should be kept opened for a period of one year from the date as the tenders are opened. **THE TENDER DOCUMENT / SUBSEQUENT RATE CONTRACT WITH THE APPROVED VENDOR IS NON-TRANSFERABLE.**
23. All goods or materials shall be supplied by the tenderer whose tender is accepted, strictly in accordance with the specification, drawings data sheets, other attachments and conditions stated in the office order. Any alterations of these conditions shall not be made without the consent of the Medical University in writing which must be obtained before any work against the order is commenced.

All material furnished by the seller, pursuant to this order (irrespective of whether engineering, design data or other information has been furnished, reviewed or approved by the Medical University) will be guaranteed to the best quality of their respective kind (unless otherwise specifically authorized in writing by the Medical University) and shall be free from faulty design (to the extent such design is not furnished to the Medical University) workmanship and materials, and to be of sufficient size and capacity and of proper materials so as to fulfill in all respects with all operating conditions, if any, specified in this order.

24. The Medical University may at its option, remove all defective materials/equipment/machines at the seller's expense in which event the seller shall, without any cost to the King George's Medical University Uttar Pradesh, Lucknow and as promptly as possible, furnish and install proper materials. Repaired or replaced materials shall be similarly guaranteed for a period of not less than **60 (Sixty) months** from the date of reinstallation or **66 (Sixty Six) months** from the date of shipment.
25. In the event that the materials/equipment/machines supplied do not meet the specifications and are not in accordance with the drawings, data sheets or the terms of this order and rectifications are required at site, the King George's Medical University Uttar Pradesh, Lucknow shall notify to the seller giving full details of differences. The seller shall attend the site, within seven days of receipt of such notice to meet and agree with representative of the King George's Medical University Uttar Pradesh, Lucknow for the action required to correct the deficiency.
26. If the seller fails to attend meeting at site within the time prescribed above, the King George's Medical University Uttar Pradesh, Lucknow shall immediately get the same work/materials rectified and seller shall reimburse the Medical University all costs and expenses incurred by the King George's Medical University Uttar Pradesh, Lucknow in removing such trouble or defect.
27. Subject to other terms and conditions, 80% payment shall be released within 30 days from the date of satisfactory installation of the materials/equipment/machines, where installation has to be done by the tenderer. However, in cases where no installation is required to be done, a satisfactory commissioning report from the concerned HOD shall be sufficient. The balance of 20% of the payment shall be released after four months of the installation/commissioning of the material/equipment/machines subject to satisfactory report about the running of the concerned material/equipment/machines.

28. Delivery on time as mentioned in purchase order shall be the essence of the order and no variation shall be permitted except with prior authorization in writing from the Medical University
29. In the event of delay in making delivery on the part of the tenderer, it will be at University's discretion to accept delivery with a reduction in price of the article/ equipment.
30. Force majeure shall mean and be limited to the following:
  - (a) Any war/hostilities.
  - (b) Any riot or civil disturbances.
  - (c) Any earthquake, flood, tempest, lightning or natural physical disaster.
  - (d) Any strike, or lock-out (only those exceeding ten continuous days in duration) affecting the performance of the tenderer obligations.

The tenderer shall advise the King George's Medical University Uttar Pradesh, Lucknow by registered letter duly certified by Local Chamber of Commerce of Statutory authorities the beginning and end of the above causes of delay within 7 (seven) days of occurrence and cessation of such Force Majeure conditions. In the event of delay lasting over one month, if arising out of causes of Force Majeure, the King George's Medical University Uttar Pradesh, Lucknow reserves the right to cancel the order and the provisions governing termination shall apply.

For delays arising out of Force Majeure, the seller shall not claim extension in completion date for a period exceeding the period of delay attributable to the causes of Force Majeure and neither the King George's Medical University Uttar Pradesh, Lucknow nor the tenderer shall be liable to pay extra costs provided it is mutually established that Force Majeure conditions did actually exist.

In the event of delay in delivery and/or unsatisfactory manufacturing progress and supply, the King George's Medical University Uttar Pradesh, Lucknow has the right to cancel the purchase order as whole or in part without liability for cancellation charges or otherwise

In the event of rejection of non-confirming goods the tenderer shall be allowed, without any extension of delivery time to correct the non-conformities, should however the tenderer fail to do so within stipulated time, the KGMU UP may cancel the order.

31. No payment shall be made for rejected material nor the tenderer would be entitled to claim for such items. Rejected items would be removed by the tenderer from the site within two weeks of the date of rejection at his own cost. In case they are not removed they will be auctioned at the risk and responsibilities of the tenderer without any further notice.
32. In the case of not honouring of the supply order, King George's Medical University UP, Lucknow will have the right to impose penalty as deemed fit to resort to make purchase at the suppliers cost and risk and may forfeit his security.

In the case of non-supply of materials/equipments/machines within stipulated period, it will be at the discretion of the King George's Medical University UP, Lucknow to accept delivery with late delivery clause. If the delivery is not effected on due date, the Vice Chancellor, King George's Medical University, U.P., Lucknow will have the right to impose penalty as under:

First extension for month or part thereof	----@2%.
Second extension for an additional month of part thereof.	-----@ 3%
In case of non-supply	-----@ 7.5%
Or	

In case of default in delivery or if it is found that the goods supplied are not in accordance with the specifications of the contract and are not replaced within a reasonable time frame of the warranty conditions being invoked, the University will have the right to procure the ordered item from open market /another party under risk purchase clause.

33. All disputes and question, if any arising between the University and the bidder out of or in connection with the terms and conditions contained herein or as to the construction of application thereof, or the respective rights and obligations of the parties there under or as to any clause or thing herein contained or by reason of the supply or failure or refusal to supply any material or as to any other matter in any way relating to these presents shall be referred to the sole arbitration of the hon'ble Vice Chancellor of the King George's Medical University Uttar Pradesh, Lucknow or his nominee. The decision of the sole arbitrator shall be final and binding upon both parties and subject to adjudication of Lucknow Court. Place for arbitration shall be at Lucknow (U.P.), India. Venue of such arbitration proceedings shall be King George's Medical University Uttar Pradesh, Lucknow. Arbitration and Conciliation Act 1996 and rules made there under shall be applied to the proceedings under this clause.
34. A copy of Trade-Tax/Commercial Tax Registration certificate, duly attested by a Gazetted Officer, should also be enclosed.
35. Acknowledgement for filing latest Income Tax Return along with a notarised affidavit, that the tenderer has never been black listed must be attached along with the tender failing which the tender will be rejected.
36. Tenderer hereby agrees to all terms and conditions stipulated in N.I.T. and tender documents and undertakes to sign the rate contract or supply order within the given days from the date of order failing which Earnest money shall be liable to be forfeited.
37. Indian Vendor will ensure a proper after sales service as per University's requirement from time to time, against the guarantee/warranty clause as per the terms and conditions agreed. Any negligence on this account shall be the sole responsibility of Indian Vendor and the liability for compensation will be fixed up by the King George's Medical University Uttar Pradesh, Lucknow.
38. All tenderers shall furnish certified copy of license of manufacturer of the product and will certify that they are authorized representative of the manufacturer for minimum of 2 years from the date of tender notification. As proof of the same they are required to furnish order copy of any govt. Organization/DGS&D registration/1<sup>st</sup> Import bill of product of the manufacturer.
39. Separate offers of Comprehensive Maintenance Contract (CMC) and Annual Maintenance Contract (AMC) for further 5 years after expiry of 5 years of warranty (i.e. 6<sup>th</sup>, 7<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> years) in rupees only (not on basis of percentage of price) should be included in financial bid in the absence of which the offer is liable to be rejected, generally AMC/CMC will not well included in determining lower bid. However the Purchase Committee may, at its discretion, club and consider either of the two for determining successful tender Payment for CMC/AMC shall be made only after expiry of warranty of **5 years**, in case the University decides for availing CMC/AMC services. Contract for CMC/AMC shall be entered into before release of payment by the University. However, the University may decide not to enter into any CMC/AMC contract without assigning any reason for the same, which shall be binding upon the tender.
40. University may also invite tenders for equipment on maintenance free/ at no cost basis, as per terms & conditions mentioned in tender notice/specification of the item. University has right to decide for out right purchase/ installation of equipment on maintenance free/ at no cost basis.

41. The tenderer should also ensure that a soft copy of the technical specifications of the equipment be provided on Compact Disc along with Technical/Financial Bid.
42. The tender form will be rejected in the absence of earnest money.

Legal action may be initiated against such tenderer in case any of the information submitted by the tenderer is found to be false at any stage of the contract.

43. Handwritten quotation shall be summarily rejected.
44. The price charged for the Stores/Equipment's, under the reference, by the supplier shall in no even exceed the lowest price at which the supplier the Stores/Equipment's of same identical description to any other person / organization / Institution during the currency of the contract as per fall clause adhered by D.G.S.& D. If at any time, during the said period the supplier reduced the said prices of such/Stores/Equipment or sales such stores to any other person/organization/ Govt. Institution/ Co. Operative Stores at price lower than the quoted price, he shall forthwith notify such reduction or sale to the Vice Chancellor, King George's Medical University, U.P., Lucknow and the price payable for the Items supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced for the University and should attach an notarised undertaking on non- judicial stamp paper of Rs 10/- duly attested to this effect otherwise quotation shall be summarily rejected
45. The supplier shall furnish the following certificate to the Superintendent, G.M. & A.H. along with each bill for payment for supplies made against in Rate Contract Tender.

“I/We certify that the Stores of description identical to the Stores supplied to the government under the contract against Tender herein have not been offered/sold by me/us to any other person/organization/Institution up to date of bill/the date of completion of suppliers against all supply orders placed during the currency of the tender/rate contract at the price lower than the King George's Medical University under contract /against tender”.

46. Tender by Tele-fax/telegram/fax/e-mail will not be accepted.
47. The tenderer should submit statement of financial standing from their bankers/chartered accountants. The name of the bank of the firm, its account no. Along with full address to be furnished on their firm's letterhead.
48. The tenderer should have been in this business for a period of atleast last two years in the country in relation to the type of stores for which the quotation/tender are being submitted. A declaration to this effect should be given by the tender on a non-judicial paper worth Rs. 10/- duly attested by Notary public.
49. It will be the prerogative of the University to place the supply order for the whole lot/item or in piecemeal basis depending upon the requirement of the University.
50. Only one best quality item (according to our specification) should be quoted against each item. On no account should different qualities e.g. A, B, & C of items be quoted. These items that have been quoted as per different qualities (In contravention to the specifications) will not be considered at all.

**Superintendent**  
G.M & A.H, K.G.M.U.,  
Lucknow

**Chief Medical Superintendent**  
G.M & A.H, K.G.M.U.,  
Lucknow

## Scope of Work

The Tender is for the purchase of instruments and equipments for establishing a state of art, multidisciplinary research unit under the funding received from Department of Health Research, New Delhi. In the first phase, we would be establishing facilities for sample preparation and storage, cell culture, PCR Lab, DNA, RNA extraction and Elisha techniques. The tender is on turnkey basis, a single firm would be responsible for supplying all the equipments as per the specifications in the tender document. The firm applying for the tender should include basic glassware, plastic ware, plastic ware, chemicals, needed for initial start of the work and working of the equipment supplied, free of cost.

## Specifications

**EMD = Rs. 2,00,000.00**

Item No.	Equipment Name	Specification	Qty	Scope of work
1.	Gel Documentation System	<ul style="list-style-type: none"> <li>Sleek small footprint to conserve bench space, 304 mm (L) x 214 mm (W)</li> <li>Highly sensitive, CCD/ CMOS camera with professional imaging quality. Camera gradation must be 16-bit (65,536 grey scales)</li> <li>UV, white light &amp; Blue light.</li> <li>Blue illumination integrated in a light tight darkroom with software controlled illumination to view DNA gels using blue excitable DNA fluorescent stains such as SYBR safe dyes and SYBR Green</li> <li>UV and white light source : 302 nm illumination with White Light Converter screen for viewing protein gels</li> <li>Flexibility to utilize three emission filters: Orange filter (universal); Green filter (UV/SYBR); Red filter (Qdot 625), MINIMUM 3 wavelength without changing tubes (254,302 and 365nm)</li> <li>Image Acquisition and Analysis software tools to analyse gel captured images and data.</li> <li>Automatic shut-down in the device when not in use for more than 20 minutesUser friendly Software application for analysis of 1D gels. Software automate features detects lanes and bands- even on distorted gel images and calculate molecular weight. Substantial reduction of background noise and manual adjustment of contrast and brightness provide accurate quantization and normalization of bands.</li> </ul>	1	For Molecular Biology Laboratory of DHR-MRU
2.	ELISA Reader	<ul style="list-style-type: none"> <li>Filter based ELISA reader with halogen lamp as light source and single channel optics /single detector with silicon photo detectors for reliable results.</li> <li>Halogen Lamp/Xenon lamp should have minimum usage option, i.e. it's should get 'on' while reading and should be 'off' mode even the instrument is on standby mode.</li> <li>Should have a linear measurement range of 0 to 4 Abs.</li> <li>Should be compatible to wavelength range from 340 to 850nm</li> <li>Should have a photometric accuracy of <math>\pm 2\%</math> or better.</li> <li>Should have a resolution of 0.001Abs.</li> <li>Should have variable speed plate shaking capability.</li> <li>Should have easy access 5 position filter wheel.</li> <li>Instrument should be supplied with 4 standard filters of 405nm, 450nm 490 &amp; 620nm.</li> <li>Should have automatic filter selection option.</li> <li>Should have automatic calibration before each reading.</li> </ul>	1	For ELISA Laboratory under DHR-MRU

		<ul style="list-style-type: none"> <li>• Should able to read 96 well format microwellplate.</li> <li>• Capable of doing multi standard tests and controls.</li> <li>• Should be capable of reading U, V and flat type wells.</li> <li>• The instrument should run in stand-alone mode OR with computer &amp; software controlled.</li> <li>• Internal software should have all the basic application related to ELISA like quality control, qualitative classification, standard graph etc.</li> <li>• System should able to run in stand-alone mode using display and keypad.</li> <li>• Also system should able to run with computer &amp; software controlled mode.</li> <li>• The instrument should have a memory of 99 inbuilt protocols in stand-alone mode.</li> <li>• Software CD should have unlimited user license to analyze the data in different user / computer systems.</li> <li>• Instrument should be either CE mark /IVD / FDA or Europe regulations.</li> <li>• <b>Data Analysis Software :</b></li> <li>• Analysis software should be supplied with the instrument and has unlimited user system license.</li> <li>• Software should have standard curve fit, qualitative classifications, parallel line analysis etc.</li> <li>• Software should have option for area selection. i. e different protocols at different area of the same plate.</li> <li>• Database based software to run backups of all data, restore back up data (in case of hardware failure of original computer).</li> <li>• Single software program should allow any number of measurement steps within the program.</li> </ul>		
3	ELISA Washer	<ul style="list-style-type: none"> <li>• Should have capability to wash 96 well micro plates.</li> <li>• Should have 1x 8 way wash head</li> <li>• Should have programmable washing time, volume and soaking time.</li> <li>• Should use non-pressurized bottles to minimize the risk of spillage and also choice for user to substitute bottles with general lab ware bottles.</li> <li>• Should provide two 2 liter wash bottles &amp; one 4 liter waste bottle.</li> <li>• Should provide aerosol cover to prevent aerosols of infectious diseases from spreading.</li> <li>• Should have residual volume less than 1.5 µl.</li> <li>• Dispensing volume should be 50 – 400 µl for 96 we</li> <li>• Should have the liquid level sensors in both the wash and waste bottles to guarantee safe performance.</li> <li>• Should have plate sensor to recognize if a plate is present or not.</li> <li>• After using the instrument, the automatic rinse feature can be set to operate in a specified time sequence to ensure that the liquid channels do not get clogged.</li> <li>• Instrument should be either CE mark or Europe regulations.</li> </ul>	1	For ELISA Laboratory under DHR-MRU
4	CO <sub>2</sub> Incubator	<ul style="list-style-type: none"> <li>• System capacity between 150-180 litres.</li> <li>• System should have Interactive Control Access Navigator touchscreen for rapid access of each critical parameter in the incubator. one line filter to protect from entering the Impurities.</li> <li>• System should have 90o moist heat process.</li> <li>• System should have internal glass door and stainless steel interior chamber and shelves.</li> <li>• System should have temperature control range from</li> </ul>	1	For Stem cell Laboratory setup at DHR-MRU

		<p>ambient upto 55 °C having a temp deviation of max +/- 1K.</p> <ul style="list-style-type: none"> <li>• System should have TC/IR sensor technology having automatic CO2 control with a range of appr 20% vol and accuracy of 0.1% vol.</li> <li>• System should have constant humidity of 95% +/- 3.</li> <li>• System should be provided with Co2 Cylinder and two stage regulator.</li> <li>• System should be IVD compliant. 230V / 50Hz AC supply.</li> <li>• The system must be supplied with compatible servo voltage stabilizer.</li> </ul>		
5	Biosafety Cabinet	<ul style="list-style-type: none"> <li>• The Bio safety cabinet should be a 4 ft cabinet Type A2 in which 70% Air should be re-circulated and 30% of the air should be exhausted. The motor must automatically adjust the airflow speed without the use of a damper to ensure continuous safe working conditions, even without maintenance adjustments.</li> <li>• The cabinet must use a pressure sensor (rather than anemometer) to detect pressure drop across the supply filter, rather than in just one point across the down flow.</li> <li>• The front window must be a 10" sash opening and be made of laminated safety glass to ensure containment of potentially hazardous samples in the case of accidental glass breakage.</li> <li>• The front of the cabinet must be angled 6-10° to help minimize glare on the window to the user.</li> <li>• The interior of the front window must be accessible for cleaning without requiring the user remove or support the window.</li> <li>• The cabinet must automatically reduce fan/blower motor speed to 30% when the front window sash is in closed position to ensure reduced energy consumption when the cabinet is not in use.</li> <li>• The Cabinet should be provided with taps for Vacuum, Water and Combustible Gas.</li> <li>• The Bio safety Cabinet should be NSF/EN certified (Tested/ Compliance will not be accepted).</li> <li>• The Bio safety cabinet should incorporate HEPA or ULPA filter of the class H 14 or better and having efficiency of 99.999% at 0.1 to 0.3 µm particle size.</li> <li>• The cabinet Should be provided with Microprocessor controller and large LED display for inflow and Down flow air velocity and hours of operation, Audible and visual Alarms for HEPA filter failure, blower failure, airflow speed failure, Incorrect window position.</li> <li>• The cabinet must be supplied with a suitable Servo Voltage Stabilizer.</li> </ul>	2	For Stem cell Laboratory setup at DHR-MRU
6	PCR	<ul style="list-style-type: none"> <li>• The system is a 96 well Thermal Cycler with 6 separate peltier blocks to provide independent temperature zones to run – six different assays with varying annealing temperatures at the same time.</li> <li>• Each block to accommodate 16 wells and having the ability to set up PCR with a specific temperature differential of up to 5 degree centigrade between blocks.</li> <li>• Run up to 6 separate temperatures in the same plate with user defined time to determine the optimal annealing temperatures.</li> <li>• On board Tm calculator facility to approximate the</li> </ul>	2	For Molecular Biology Laboratory of DHR-MRU

		<p>optimal annealing temperature.</p> <ul style="list-style-type: none"> <li>• The system provide to use 0.2ml PCR tubes or micro-well plates.</li> <li>• The system should support PCR volumes ranging from 10 to 80 micro litre.</li> <li>• Mouse or stylus free navigation capability with VGA color touch screen allowing for easy intuitive graphical user interface programming.</li> <li>• Choice of saving the methods up to 800 to the instrument or unlimited to a USB memory stick.</li> <li>• Portability: The system have a USB port to transfer methods from one machine to another.</li> </ul>		
7	Cell Counter (Used In Cell Culture Lab)	<ul style="list-style-type: none"> <li>• Instrument with state-of-the-art optics and image analysis software, which can performs suspension cell-based assays, including cell counting, cell viability, fluorescent protein expression, apoptosis assays &amp; Cell Cycle analysis with fluorescence capabilities – bright field &amp; two optional fluorescence channel.</li> <li>• Instrument should have mandatory option to choose the fluorescence filters like DAPI, CFP, GFP, Tag BFP, YFP, Texas red, cy 5, &amp; cy 5.5 for wide range of applications.</li> <li>• Should have autofocus capability to improve accuracy and reduce variability &amp; easy to use touch screen interface.</li> <li>• The instrument should have option to use reusable counting slide helps reduce consumable costs</li> <li>• Instrument should have two fluorescence channels. The fluorescent colors collected are determined by the insertion of individual light cubes &amp; each light cube contains an LED, illuminating optics, and filters. Light cubes are user interchangeable, auto-configured by the system with plug-and-play capability.</li> </ul>	1	For Stem cell Laboratory setup at DHR-MRU
8	Inverted Microscope	<ul style="list-style-type: none"> <li>• Basic stand with LED illumination Four nosepiece with 20 mm Field of view.</li> <li>• Automatic adjustment of illumination to the contrast methods, Auto-off function, LED with service life of 50,000 hours, constant color temp.</li> <li>• Single Phase ring for objectives from 10x ~ 40x – No slider movement required.</li> <li>• Objective PLAN 4x, 10xPH1, 20xPH1, 40xPH1.</li> <li>• Auto adjustment of intensity changing from Bright field to Phase contrast</li> <li>• High Numerical Aperture 0.45 and long working 80mm Condenser.</li> <li>• Fixed stage with XY object guide for all types specimen holders</li> <li>• Integrated C-Mount 0.5x. With 50/50 beam splitting.</li> <li>• Digital camera attachments with CMOS sensor, S/W for micron bar, annotation &amp; point to point measurement. Camera should have; HD live image for operation with or without computer, full HD movie clips recorded directly to the SD memory card, direct control of all camera parameters via remote control. Pixel seize 3.34 X 3.34 <math>\mu</math>m, Exposure time 0.5 m sec-500m sec</li> <li>• Live image display on PC, software for Micron Bar, Point to Point measurement, Annotation, Shading Correction</li> <li>• Camera and microscope should be from same manufacturer.</li> </ul>	1	For Stem cell Laboratory setup at DHR-MRU

9	Table Top Mini centrifuge:	<ul style="list-style-type: none"> <li>• CE certified</li> <li>• Max. RPM: 12,000 or more</li> <li>• Max. RPF: 9,000xg or more</li> <li>• Fixed Angle (Autoclavable) rotor with 1.5/2.0ml ×12 with adapter for 0.2ml and 0.5ml tubes and 32 x 0.2ml rotor</li> <li>• Should have tool free, quick rotor exchange</li> <li>• Power consumption: AC 220V, 50/60Hz, Single Phase</li> <li>• Motor drive: Brush Less Motor (200W or less)</li> <li>• Time: 0-15 min.</li> <li>• Changeable RPM/RCF during operation</li> <li>• Pulse mode and Continuous run</li> <li>• Weight: Equal or less than 2 Kg</li> </ul>	1	For Molecular Biology /Stem cell Laboratory of DHR-MRU
10	Water purification	<ul style="list-style-type: none"> <li>• CE certified Water purification system having facility for auto calibration for water purity; hourly re-purification cycle, automatic re-purification cycle set by purity limit, set levels for filter change warning. System should have feed water specific purification pack before UV lamp consisting of mixed bed ion exchange resin/micro filter/ activated carbon to ensure better purification and longer life of the cartridges.</li> <li>• System should have a pretreatment kit with 5µm filter followed by a 3 stage pre-treatment cartridge consisting of Activated Carbon, Anti-scaling Agents and 0.5µm depth filter to protect downstream cartridge</li> <li>• Reverse Osmosis module should be made up of thin film composite polyamide RO membrane with rejection rate of 94 - 99% and recirculation loop for optimum utilization of feedwater</li> <li>• System's Cartridge should have RFID Tag which enables traceability of Mfg. Date, Lot No., Life of Cartridge no. of day's usage etc. and facilitates estimation of volumetric life of the cartridges.</li> <li>• System should have following features and specification.</li> <li>• Product flow rate (RO/UP) Max. not less than 8L/hr</li> <li>• Water quality display(online): Feed water: 0 to 999 µs/cm (Optional)</li> <li>• Pure water: 0.0 to 250.0 µs/cm</li> <li>• Ultra pure: 0.0 to 18.3 MΩ•cm</li> <li>• 0.2µm Final filter</li> <li>• TOC (ppb): not more than 5</li> <li>• Bacteria (cfu/m): &lt;0.1</li> <li>• Particles (&gt;0.22µm/m) : &lt;1 ml</li> <li>• Flow Rate : Adjustable between 50ml/min to 2000ml/min</li> <li>• Self test for ensuring correct functionality and Auto cleaning functions.</li> <li>• Power on-Up: 30 sec to 5 min</li> <li>• 50 litres PE tank with auto cutoff level sensors</li> <li>• On Ready Status: Automatic cleaning at regular intervals</li> <li>• On Standby Status: Automatic cleaning based on low purity level setting</li> <li>• Built-in automatic sensor calibration and automatic reset function</li> </ul>	1	For Laboratory of DHR-MRU
11	Refrigerated Micro Centrifuge	<ul style="list-style-type: none"> <li>• CE Certified</li> <li>• Max. RPM: 14,000 or more</li> <li>• Max. RCF: 21,000xg or more</li> <li>• Max. Capacity: 1.5/2ml x24</li> </ul>	1	For Molecular Biology Laboratory of DHR-MRU

		<ul style="list-style-type: none"> <li>• Time: 99 min 59 sec</li> <li>• Temp: -9 deg C to 40 deg C</li> <li>• Display: LCD Graphical Display for RPM, RCF, Time, Temperature, Prog, Accel./Decel.</li> <li>• Motor: AC Induction motor</li> <li>• Memory function: 10 or more</li> <li>• Fast cooling function</li> <li>• Safety Features:</li> <li>• Detection of over speed, over heat, system error and door opening</li> <li>• Door lock, emergency lid lock release, Imbalance recognition &amp; Automatic alarming system</li> <li>• Manufacturer should be ISO 9001:2008 Certified or better.</li> <li>• Should be IVD approved. CE/UL US Listed</li> <li>• <b>Rotors Required:</b> Autoclavable Fixed Angle rotor: 1.5/2.0ml ×24 with adapter for 0.2ml and 0.5ml tubes with 15,000 rpm or more// The system should have the provision of a 24 x 1.5/2ml rotor with rotor sealing lids certified for bio-contaminant by a 3rd party lab of world wide recognition with an adapter for spinning 0.5ml tubes at the same time.</li> </ul>		
12	Electrophoresis Power Supply, Vertical And Horizontal Unit	<p><b>Power supply :</b>  Voltage: 0-500 V  Current: 0-500ma  Power : 300w  Output : 4 Output Terminal</p> <p><b>Vertial Gel electrophoresis:</b></p> <p>Mini Vertical electrophoresis having 10x10 cm dual, 2 sets of Glass Plates, 1mm thick bonded spacers, 2x12 samples, 1mm thick combs including casters, Clamp Version, External Casting Upstand</p> <p><b>Horizontal Electrophoresis:</b></p> <p>Gel dimension : 10x6 cm and 10x10cm  Unit dimension : 22x12.5x9 cm  Max sample capacity : 10x7sm ( 50 samples)  10x10cm ( 100 samples)  Buffer volume : 300ml  Combs available : no of samples  1,2,4,8,10MC,12,16,20MC,25  Thickness : 0.75mm, 1, 1.5, 2 mm</p>	1	For Molecular Biology Laboratory of DHR-MRU
13	Table Top Refrigerated Centrifuge:	<ul style="list-style-type: none"> <li>• The centrifuge must offer swinging bucket, fixed angle and microplate rotors to meet current and future sample processing needs of the lab.</li> <li>• RPM 17,000- 18,000 and RCF at least 30,000xg</li> <li>• CE marked, IVD compliant, UL listed- for safety containment.</li> <li>• Temp range -10°C to 40°C</li> <li>• The buckets and rotor sealing lids must be certified for bio-containment by a 3<sup>rd</sup> party lab of worldwide recognition.</li> <li>• Rotor exchange should be in less than 5 seconds without tool with auto lock technology to changeover number of rotors easily.</li> <li>• The centrifuge must have a minimum of 4 “direct recall” program keys</li> <li>• The centrifuge must be capable of running 4 standard or 2 deep well microplates, PCR strips and hematocrit capillaries for future needs.</li> </ul>	1	For Molecular Biology /Stem Cell Laboratory of DHR-MRU

		<ul style="list-style-type: none"> <li>The centrifuge must have the options of Swing out rotor for future needs.</li> </ul> <p>Rotors Required:</p> <ol style="list-style-type: none"> <li>Fixed Angle Rotor for at least 24 x1.5 ml at RPM: 17500 &amp; RCF at least 30,000g.</li> <li>Fixed angle rotor 6x50 &amp; adapter for 6x15 ml with RPM approx 9,500 &amp; RCF approx 12,000 g or more for cell culture application.</li> <li>Micro plate rotor for 4 standard micro plate with carriers RPM: &gt;4300 and RCF &gt;2500g.</li> <li>Swinging bucket Rotor for 8 x 50ml &amp; 15 ml conical tubes. With RPM: 4500 and RCF 3200xg or better</li> <li>The machine should be supplied with a compatible servo voltage stabilizer.</li> </ol>		
14	Deep Freezer (-80° C)	<ul style="list-style-type: none"> <li>System should have a capacity of not less than 490 litres</li> <li>Cryobox Capacity: Not less than approx 320 boxes</li> <li>Cryovial Capacity: Not less than approx 32,000 cryovials</li> <li>Vial to Footprint: 3600 vials/ft2.</li> <li>System should have an External Lockable door with separate inner compartments.</li> <li>System should have vacuum relief port to be able to facilitate fast door recovery times so that sample integrity isn't compromised</li> <li>Should be upright type.</li> <li>Should be foamed in place polyurethane insulation.</li> <li>System should have microprocessor control and central monitoring system</li> <li>System should have Power management system with low voltage surge protection</li> <li>System should have Easy-to-remove, washable filter so as to Provide protection against dust on the condenser, which can cause reduced refrigeration performance and increased risk to samples</li> <li>System should have Outer door gaskets</li> <li>System should have Inner polystyrene insulated inner doors to help maintain cabinet temperature during openings</li> <li>System should be provided with a suitable voltage stabilizer</li> </ul>	1	For Sample Storage under Laboratory of DHR-MRU
15	Nano Spectrophotometer	<ul style="list-style-type: none"> <li>Wavelength Range: 190-840 nm or better</li> <li>Minimum Sample Size: 0.5 µL</li> <li>Path length: 1 mm (auto-ranging to 0.05 mm)</li> <li>Light Source: Xenon flash lamp</li> <li>Detector Type: 2048-element linear silicon CCD array</li> <li>Wavelength Accuracy: +1 nm</li> <li>Spectral Resolution: &lt;1.8 nm (FWHM @Hg 253.7 nm)</li> <li>Absorbance Precision: 0.002 absorbance (1 mm path)</li> <li>Absorbance Accuracy: ± 2% (at 0.76 absorbance at 257 nm)</li> <li>Absorbance Range: 0.02 -300 (10 mm equivalent)</li> <li>Detection limit: 2 ng/µL dsDNA</li> <li>Maximum Concentration: 15,000 ng/µL (dsDNA)</li> <li>Measurement Time: &lt; 5 seconds</li> <li>Sample pedestal Material of Construction: 303 stainless steel and quartz fiber</li> <li>Windows based software shall be offered to display data in graphical form and numerical form.</li> <li>Powerful, user-friendly software with ten</li> </ul>	1	For Molecular Biology Laboratory of DHR-MRU

		preconfigured modules and method editor. • System should be supplied with a compatible PC with printer.		
16	pH Meter	• Should have Graphics display with adjustable backlight • Should be able to Calibrate with custom pH buffer values • Should show Date and Time to meet GLP • Should be Password Protection • Should have the provision of Optional calibration reminder & high/low alarm • Should have 500 point memory –log manually or at intervals • 0.001pH resolution and $\pm 0.002$ pH accuracy! <b>pH mode</b> • Range-2.000 to 20.000pH • Resolution-0.1/0.01/0.001pH • Accuracy- $\pm 0.002$ pH + 1 LSD • Slope Display- up to 5 different slopes with offset • Temp Compensation-Automatic or Manual (0 to 100oC/31 to 212oF) <b>mV Mode</b> • Range- $\pm 2000.0$ Mv/Rel.mV • Resolution-0.1mV • Accuracy- $\pm 0.2$ mV or $\pm 0.05\%$ whichever is greater • Offset Adjustment- up to $\pm 150$ mV <b>Temperature Mode</b> • Resolution-0.1oC/0.1oF • Accuracy- $\pm 0.3$ oC/ $\pm 0.5$ oF • Calibration-Offset in 0.1oincrements offset range : $\pm 5$ oC/9oF • Output-RS-232 (phono plug) ,mini –B USB, stirrer • Memory-500 data sets viewable • Data logging-Manual ,Timed (selectable every 3 to 3600 seconds printer or CSV format) • Cal Due Alarm-Yes ,User selectable from 8 hrs ,16 hrs & 1-31 days • High/Low Alarms – User selectable ,Visual & audible alarms	1	For Laboratory of DHR-MRU
17	Analytical balance	• Weighing capacity : Approx 220 gm • Readability mg :0.1 mg • Repeatability :0.1 mg • Linearity :0.2 mg • Sensitivity drift between +10°C and +30 °C $\pm$ ppm/K : $3 \pm$ ppm/K • Typical stabilization time s :2 Sec • Weighing pan size mm d :90 mm • Net weight, approx. kg :4.5kg • Dimensions, D + W + H mm :360 + 216 + 320 • Adaptation to Ambient conditions: By selection of 1 of 4 Optimized filter levels • System should have the following essential features : • Touch screen with graphical user interface display • Built-in automatic calibration with external calibration • Application programs • Weighing, Density, Percentage, Check weighing, Peak Hold, Counting, Unstable Conditions Counting • Mass unit conversion by toggling between two weight units from a choice of twenty • Monolithic Weighing Technology • Overload protection & shock prof	1	For Laboratory of DHR-MRU

		<ul style="list-style-type: none"> <li>• Safety of electrical equipment in accordance with EN 61010-1/IEC 610101</li> <li>• Electromagnetic compatibility in accordance with EN 61326-1/IEC 61326-1</li> <li>• Password protection Supervisor lock for protection against unintentional changes</li> <li>• Interface mini USB – Direct data transfer to Microsoft® Windows programs without any additional software</li> <li>• Data transfer protocols SBI, xBPI, table format, text format</li> <li>• ISO/GLP compliant printing capability</li> <li>• ISO 9001 certified</li> </ul>		
<b>18</b>	Liquid nitrogen container (for cryovials)	<ul style="list-style-type: none"> <li>• The system should include six stainless steel manual filled canisters of 34 litres capacity to accommodate 1.2/2/5ml vials.</li> <li>• Canisters should be color coded to simplify sample identification.</li> <li>• Durable aluminium construction and vacuum insulation.</li> <li>• System should have narrow mouth design to minimize LN2 evaporation</li> <li>• System should have Secure locking clasp</li> <li>• Static Evaporation Rate should not be more than: 0.18 litres/day</li> <li>• Static holding time should be approx:193 days.</li> <li>• Neck Diameter approx: 3.5 inch/8.8 cm</li> <li>• CE Certified.</li> </ul>	1	For all laboratory of DHR-MRU
<b>19</b>	Micropipette Kits	<ul style="list-style-type: none"> <li>• Should have Volume gearing mechanism for accuracy and precision</li> <li>• Should be Fully Autoclavable for dependable protection</li> <li>• Should have Soft-Touch tip ejection that enables light tip ejection</li> <li>• Should have Large Display to prevent eye strain</li> <li>• Should have very light pipetting forces for greater accuracy with less fatigue.</li> <li>• Should be a complete kit of 4 pipettes consisting of the following: <ul style="list-style-type: none"> <li>• Micropipette of variable volume :0.2-2 µl</li> <li>• Micropipette of variable volume :2-20-µl</li> <li>• Micropipette of variable volume :20-200 µl</li> <li>• Micropipette of variable volume :100-1000 µl</li> </ul> </li> <li>• Flex Tips:10,1x96;200,1x96;1000, 1x96</li> <li>• Pipette Stand</li> <li>• Good laboratory pipetting guide</li> </ul>	3 Set	For all Laboratory of DHR-MRU

**List of equipment to be provided Free of Cost from the firm applying for the tender advertisement towards setting of Laboratory under the DHR-MRU Scheme**

1. Vortex Mixture
2. Magnetic Stirrer
3. Laboratory Autoclave
4. Serological Water Bath
5. Hot Air Oven
6. Microwave Oven
7. Tissue Homogenizer
8. Rocking Shaker
9. Cell Counter
10. -20<sup>0</sup> C Deep Freezer
11. Lab Refrigerator
10. Two Computer System with Intel core i5 processor/4 GB RAM/1 TB HD/Graphic card
11. Chemicals, Glassware, Plastic ware for initial functioning of the laboratory as per the requirement.

**Note:**

1. All equipment to be provided with 5 years warranty.
2. The Firm will be responsible for setting the workstations/Working bench in the Lab.
3. Will take care of the Wi-fi/LAN networking of the Laboratory.
4. Air curtains and Positive pressure/Negative Pressure as directed by the in-charge to be set up at no extra cost by the firm.
5. All the online UPS/Battery backup/Generator as per necessary specification of the Equipment to be provided with the equipment at no extra cost.

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