



OFFICE OF THE DEAN & PRINCIPAL,  
MAHARAJA KRISHNA CHANDRA GAJAPATI MEDICAL COLLEGE,  
BRAHMAPUR.760 004, GANJAM, ORISSA.

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No. 2042 /MCB-2021/Welfare./Dated, Berhampur the 6<sup>th</sup> March, 2021

**TENDER CALL NOTICE**

Sealed Tenders are invited from the Registered firms for "Supply of Equipment/Instrument" for MRU MKCG Medical College, Berhampur in two bid system (Technical & Financial) so as to reach the office of the undersigned within Twenty One days from the date of publication of the advertisement till 5 P.M. The detailed Tender paper, Terms & Conditions, list of Equipment/Instrument, specifications can be obtained from the office of the undersigned on payment of Rs.5000/- cash (non-refundable) at the Accounts Section. The details are also available in the website [mkcgmch.org](http://mkcgmch.org). Those who will download the tender documents from Website should enclose a DD for Rs.5000/- towards cost of Tender paper in favour of Dean & Principal, MKCG Medical College, Berhampur payable at the S.B.I, MCC Branch, Berhampur.

The undersigned reserves the right to cancel of the Tender in full or parts at any time without assigning any reason thereof.

*P. P. Das*  
*6/3/21*  
Dean & Principal,  
MKCG Medical College,  
Berhampur  
M.K.C.G. Medical College  
Berhampur (GM)

**OFFICE OF THE DEAN & PRINCIPAL  
M.K.C.G. MEDICAL COLLEGE, BERHAMPUR (GM.)**

*Tel / Fax : 0680-2292746 / e-mail : [mkgmc.bam@gmail.com](mailto:mkgmc.bam@gmail.com)*



**TENDER DOCUMENT FOR SUPPLY &  
INSTALLATION OF *MEDICAL EQUIPMENTS*  
FOR MRU**

*[Handwritten Signature]*  
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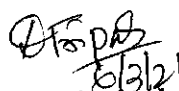
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Berhampur (GM)

## SECTION -I

### NOTICE INVITING TENDER

TENDERS ARE INVITED FROM ELIGIBLE BIDDERS AS PER THE ELIGIBILITY CRITERIA FOR MEDICAL EQUIPMENTS (MRU) FOR MKCG MEDICAL COLLEGE, BERHAMPUR

1	Period of Availability of Tender Document	From <u>10.3.21</u> to <u>30.3.21</u>  [Downloadable from website: <a href="http://www.mkcgmch.org">www.mkcgmch.org</a>  In case of any bid amendment and clarification, responsibility lies with the bidders to collect the same from the above mentioned website before last date of submission of tender document and the tender inviting authority shall have no responsibility for any delay / omission on part of the bidder.
2	Last date & time for submission of Tender	<b>Date:</b> <u>30.3.21</u> , <b>Time:</b> up to 5.00 pm Address of Submission of Bid: The Dean & Principal, MKCG Medical College and Hospital Berhampur, Odisha, India (Through Speed post / Registered post/ Courier Services only
3	Date, time and place of opening of Tender	a) <b>Technical Bid (Cover A) opening:</b> <u>3.4.21</u> , 5.00 P.M (time) at the address mentioned above. (Postponed in case of unavoidable Circumstances) b) <b>Financial Bid (Cover B):</b> <i>The date of opening of financial bid will be intimated to the firms found successful in the technical bid evaluation. (The Venue is mentioned above) (Bidders / authorized representative may remain present at the time of opening of bid)</i>

  
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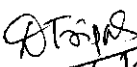
## SECTION -II

### IMPORTANT INSTRUCTIONS TO BE NOTED CAREFULLY BY THE TENDERERS

1.	Mode of Procurement	Through National Competitive Bidding Process. The O/o of Dean & Principal, MKCG Medical College & Hospital, Berhampur shall invite tender & evaluate the same by the technical expert. After finalization/approval of the supplier & the rate, the purchase order shall be placed by the Dean & Principal, MKCG Medical College Hospital
2.	Purchaser	Dean & Principal MKCG Medical College Berhampur, Odisha
3.	Consignee	Nodal Officer MRU, MKCG Medical College, Berhampur
4.	Delivery Period	Within 30 days from issue of the purchase order.
5.	Mode of Delivery	By Air / Road / Rail
6.	Guarantee / Warranty /CMC	Comprehensive warranty including all spares, maintenance etc. for a period 5 (five) years from the date of installation & commissioning and 5(five) years CMC after warranty period.
7.	Tender Document Cost	Rs.5000/-). The tender document cost is to be submitted in the shape of bank draft in favour of Dean & Principal, MKCG MEDICAL COLLEGE, BERHAMPUR from any Nationalized/Scheduled Bank payable at Berhampur or deposit of Rs.5000/- in Accounts Section of this college on all working days between the scheduled period.
8.	Earnest Money Deposit (EMD) (The no. of equipment is mentioned in the Schedule of requirement – Section IV)	<i>Note: The bidder may quote for any or all the equipment by submitting the required EMD 2% of the quoted value for that equipment.</i>  The Earnest Money Deposit will be paid in the shape of Demand Draft only in favour of DEAN & PRINCIPAL MKCG MEDICAL COLLEGE, BERHAMPUR from any Nationalized/Scheduled Bank and payable at Berhampur
9.	Performance Security	The selected firm should submit the performance security in shape of Bank Draft /Bank Guarantee, equal to the amount of 5 % of the purchase order value (excluding the tax & CMC cost) of the items within 21 days of issue of the purchase order & the same will be returned back after completion of warranty period. The performance security shall be furnished at the O/o the Dean & Principal after getting the purchase order from the Dean.

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<p>10. Pre-qualification (Eligibility Criteria)</p>	<p>A. Manufacturing units / Importers are eligible to participate in the tender provided, they have</p> <ul style="list-style-type: none"> <li>(i) Import License (In case of Importer only)</li> <li>(ii) Valid ISO certificate.</li> <li>(iii) Product must be ISI /CE / US FDA/IEC etc certified if specified in Technical Specification (Section IV)</li> <li>(iv) Tenderer (Manufacturer/Importer) should have proof of supply of <b>equipment(s) mentioned in the schedule of requirement</b> (executed directly by manufacturer or through distributor) of the equipment(s) /similar equipments mentioned in the schedule of requirement to any Govt. organization / Corporate Hospitals / PSU Hospitals / UN Agencies and purchase order copies in support of that in last 3years as per format at Annexure VII (Item wise)</li> <li>(v) Proof of annual average turnover of in the last three (3) financial years certified by the Chartered Accountant as per the format at <b>Annexure VI supported by audited balance sheet/Annual Report.</b></li> </ul> <p>B. Authorized distributors on behalf of the manufacturer are eligible to participate in the tender provided:</p> <ul style="list-style-type: none"> <li>(i) They should have proof of annual average turnover of the last three (3) financial years certified by the Chartered Accountant as per the format at <b>Annexure VI supported by audited balance sheet/Annual Report.</b></li> <li>(ii) They should submit <b>manufacturer's authorization</b> to transact business on behalf of the manufacturer as per the format at <b>Annexure - V.</b></li> <li>(iii) Proof of supply of the equipments in the schedule of requirement to any Govt. organization /Corporate Hospitals / PSU Hospitals / UN Agencies and purchase order copies in support of that in last 3years as per format at Annexure VII (Item wise)</li> <li>(iv) The authorized distributor will submit the following documents in support of the manufacturer along with the tender :</li> <li>(v) Valid ISO certificate Valid ISI / BIS European / CE / US FDA / IEC certificates of the manufacturer is specified in technical specification (Section V)</li> </ul> <p>C. The Manufacturer or the tenderer if blacklisted either by the Tender inviting authority or by any state Govt. or Central Govt. organization for the quoted item is not eligible to participate in the tender during the period of blacklisting.</p>
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**SECTION -III**  
**TERMS AND CONDITIONS FOR SUPPLY & INSTALLATION OF MEDICAL EQUIPMENTS FOR (MRU MKCG MCB)**

1.1 Sealed tenders will be received till 30.3.21 upto 5.00 pm by the office of the Dean & Principal, MKCG Medical College Berhampur. Any tender received after the due date & time will be rejected / returned to the sender unopened. **The tenders will be received through Regd. Post / Speed Post / Courier Services only.** The prospective bidders may attend and clarify any doubts on the terms and conditions of the bid document.

1.2 The bidder(s) are to submit their tenders in **separate** sealed covered envelopes for **technical bid** and **commercial bid** by super scribing **Cover "A" (Technical Bid) & Cover "B" (Price Bid)** and both the sealed covers should be put into a **third outer Cover**, which should be super scribed as **"Tender for Supply & Installation of Medical Instruments & Equipments for MKCG Medical College.**

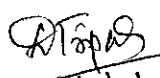
1.3 The Sealed tenders "Cover A" (Technical Bid) submitted by the tenderers will be opened at the office of the Dean & Principal,, MKCG Medical College, Berhampur on 3.4.2021 at 5.00 P.M.

The tenderer or their duly authorized representatives are allowed to be present during the opening of the tenders if they so like.

**ELIGIBILITY CRITERIA**

2.1 **Manufacturing units / Importers** are eligible to participate in the tender provided, they fulfill the following conditions:

- (i) Import License (In case of Importer only). In case of importers, they have to furnish the authorization from the manufacturer.
- (ii) Valid ISO certificate (of the Manufacturer)
- (iii) Product must be ISI/BIS European/CE / US FDA etc. (valid ISI/BIS /CE /US FDA certificate) certified (As per **Section VI** - technical specification).
- (iv) Tenderer (Manufacturer/Importer) should have proof of supply of equipments mentioned in the schedule of requirement (executed directly by manufacturer or through distributor) of the equipment(s) /similar equipments mentioned in the schedule of requirement to any Govt. organization / Corporate Hospitals / PSU Hospitals / UN Agencies and purchase order copies in support of that in last 3years as per format at Annexure VII (Item wise)
- (v) Proof of annual average turnover (Manufacturers/Importer) of in the last three (3) financial years certified by the Chartered Accountant as per the format at **Annexure VI.**

  
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(vi) Proof of compliance with IEC Certificate (As per **Section VI** - technical specification) -  
Medical Electrical Equipments: Particular requirement for Electrical Safety of the equipments.

(vii) Manufacturing unit who has been blacklisted either by the Tender inviting authority or by any state Govt. or Central Govt. organization is not eligible to participate in the tender for that item during the period of blacklisting. Copies of stay order(s) if any against the blacklisting and undertaking to the effect that, the unit has not blacklisted by any authority should be furnished along with the bid.

2.2 **Authorized distributors** are eligible to participate in the tender provided:

- (i) They should submit manufacturer's authorization from original equipment manufacturer (OEM) as per the format at **Annexure - V**.
- (ii) They should have proof of annual average turnover of in the last three (3) financial years certified by the Chartered Accountant as per the format at **Annexure VI**.
- (iii) Proof of supply of **the required equipment** (executed directly by manufacturer or through distributor) of the equipment(s) /similar equipments mentioned in the schedule of requirement to any Govt. organization /Corporate Hospitals / PSU Hospitals / UN Agencies inside the State/Country and purchase order copies in support of that in last 3years as per format at Annexure VII (Item wise).
- (iv) The authorized distributor will submit the following documents in support of the manufacturer along with the tender:

a) Valid ISO certificate / ISI / BIS

b) European CE / US FDA / IEC certificates of the manufacturer as per technical specification.

2.3 The tenderer have to submit the EMD(s) as mentioned in **Clause 8 of Section -II** & the Tender document cost.

2.4 Tenderer will submit the following documents along with the technical bid-

1. IT Return of last 3 financial years.
2. Pan card.
3. GST Certificate.

### **DOCUMENTS TO BE SUBMITTED**

The following documents should be enclosed in Cover "A" (Technical Bid) by the tenderer failing which the bid will liable to be rejected.

All the photocopies are to be attested / self attested.

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## **TECHNICAL BID :**

- 3.1 Checklist with detail of the documents enclosed in Cover "A" (as per Annexure - I) with page number. The documents should be *serially arranged* as per this Annexure - I and should be securely tied and bound.
- 3.2 List of Item (s) Quoted with name of the Make & Model of the item (s) (Annexure - II)
- 3.3 Tender document fee of Rs.5000/- in shape of Demand Draft .
- 3.4 Earnest Money Deposit(s) as mentioned in the Clause 8 of Section -II in shape of Demand Draft). Details of EMD and the name of the equipment quoted should be clearly mentioned. (IIA to be filled up)
- 3.5 Details name, address, telephone no., Fax, e-mail of the manufacturer / authorized distributor / service centre / contract person / office in Odisha (Annexure - III).
- 3.6 The declaration form in Annexure - IV duly signed by the tenderer before Notary Public / Executive Magistrate.
- 3.7 Manufacturer's Authorization Format in Annexure -V (In case the bidder is not the manufacturer). Importers are also required to furnish the authorization from the manufacturer.
- 3.8 Certificate duly filled by the Auditor / Chartered Accountant (as per Annexure - VI) that the annual average turnover of the firm in the last 3 financial years (In case of bidders who are authorized distributors of the manufacturer).
- 3.9 Performance Statement (Annexure - VII) (Item wise) during the last three years towards proof of supply of the equipment(s) /similar equipments mentioned in the schedule of requirement to any Govt. organization / Corporate Hospitals / PSU Hospitals / UN Agencies inside the State Country. The copy of Purchase orders should be furnished in support of the information provided in the performance statement.
- 3.10 Deviation/No Deviation Statement from Technical Specification & details of technical specification of the product (Annexure-VIIIA & B)
- 3.11 Leaflet/Technical Brochures of the product/item offered.
- 3.12 Copy of Import License by the Importer (in case of Importer).
- 3.13 Copy of Valid ISO certificate.
- 3.14 Copy of Valid ISI / BIS European / CE /US FDA certificate (as per Section VI - Technical Specification).
- 3.15 Copy of the up to date GST clearance certificate.
- 3.16 The Original Tender Booklet with Conditions and the schedules signed by the tenderer at the bottom of each page with his official seal duly affixed.



3.17 Certificate in support of service center in Odisha or undertaking to set up service center in Odisha within one month from the date of installation if approved (for those who have no service centers in Odisha).

**N.B:** Valid means the certificate should be valid on or beyond the date of opening of tender (Cover-A).

**COVER – B (PRICE BID)**

4. The price to be quoted for medical equipments should be sent in the prescribed price format in a separate sealed cover hereafter called **Cover “B” (Price Bid)**. Cover –B (Price Bid) of the tenderers who qualify in it’s Technical Bid (Cover – A) and complies to tender specification & found to be as per technical specification of the Product in demonstration (if required) will only be opened .

4.1 The tender format (Price Schedule) in duplicate in the prescribed form (as per Annexure – IX), must be submitted in Cover-B. The price of the item should be quoted inclusive of excise duty, insurance, packing, forwarding, freight (door delivery) and warranty for 5 years. The price of CMC for 5 years, turnkey job (accessories if any for installation including charges for installation/commissioning), sales tax / GST and entry tax charges (if any) should be quoted in a separate column. The rate should be quoted for *each item* both in figures and words. **In case of difference in words and figures, words will be taken into consideration for evaluation.**

4.2 The Cover “B” of tenderers who qualifies in their technical bid, will only be opened at the office of the Dean & Principal,, MKCG Medical College, Berhampur at a date & time which will be intimated to them.

**REJECTION OF TENDER**

5. The tender submitted by the bidder will be rejected, if any of the following documents are wanting / not submitted with the tender:

1	List of Item(s) – Annexure II
2	Tender document Fee
3	Earnest Money Deposit
4	Details of Manufacturing Unit / contact person Liaisoning agent / servicing centre (Annexure III)
5	Declaration form (Annexure – IV) signed by the Tenderer & affidavit before Notary Public / Executive Magistrate
6	Manufacturer’s Authorization Format (Annexure – V) (for distributor / Importer)
7	Proof of avg. Annual turnover of Rs.10 Crore or more for preceding 3 financial year (for Manufacturer / Importer) or Rs.10 Crores or more (for authorized distributors) Annexure – VI
8	Audited Account Statement (P&L Account) / Annual Report for the three financial years by highlighting the figure in it, which is mentioned in the annexure-VI
9	Performance Statement (Item Wise) during the last three year (Annexure-VII)
10	Copies of Purchase order (Item wise) in support of the performance statement
11	Deviation / No deviation Statement (item wise) & details of technical specification (Annexure – VIII A & B)
12	Leaflets / Technical Brochures of the Equipment offered (Item wise)

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 Deputy Principal  
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 Berhampur (GM)

13	Copy of Import license (In case of Importer)
14	Copy of Valid ISO certificate
15	Attested Photocopy of Up-to-date CE/US FDA / BIS Certificate (Item wise) (As per technical specification)
16	Attested Photocopy of Up-to-Date IEC Certificate (Item Wise as applicable) (As per technical specification)
17	Photocopy of PAN
18	Photocopy of GST certificate
19	Copy of original Tender and schedules, duly signed by the Tenderer
20	IT Return of last 3 financial year
21	An affidavit to the effect that the firm has not been black listed anywhere

### **EARNEST MONEY DEPOSIT**

6.1 The amount of Earnest Money Deposit required is mentioned in the Section-II.

The Earnest Money Deposit will be submitted in the shape of **demand Draft only** in favour of **DEAN & PRINCIPAL MKCG MEDICAL COLLEGE, BERHAMPUR** from any Nationalized/Scheduled Bank payable at **Berhampur**.

6.2 The EMD of the unsuccessful tenderers will be returned back without interest after placement of purchase order to the successful tenderer and EMD of successful tenderer will be returned after submission of performance security

6.3 The EMD will be forfeited if the tenderer withdraws its tender / furnish forged documents which is found during bid evaluation OR doesn't sign the contract / doesn't furnish performance security / doesn't supply the items (in case of successful bidder) within the stipulated time period.

### **PERFORMANCE SECURITY & AGREEMENT**

7.1 The performance Security should be submitted in shape of Bank Draft/Bank Guarantee from a Nationalized / Scheduled Bank in favour of Dean & Principal,, MKCG Medical College, Berhampur payable at Berhampur equal to the amount of 5% of the purchase order value of the item (excluding cost of CMC & taxes) within 21 days of issue of the purchase order.

7.2 The agreement (as per Annexure – X) will be signed between the supplier, manufacturer and the purchaser and will be kept by the purchaser.

7.3 The performance Security Money will be returned back to the tenderer without interest after the expiry of the warranty period i.e. five years after the date of installation & signing of the CMC agreement.

7.4 Security money will be forfeited if there is any violation of the tender terms and conditions.

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## **TENDER CONDITIONS :**

- 8.1 The details of the medical equipments with specifications are mentioned in Section VI. **The firm must clearly mention their specification, special features, upgraded version (if any), detail technical catalogue of the offered model in their tender.**
- 8.2 Tenders should be typewritten or computerized and every correction in the tender should invariably be attested with signature by the tenderer with date before submission, failing which the tender will be ineligible for further consideration.
- 8.3 Rates inclusive of excise duty / customs duty, packing, forwarding, insurance, transportation charges with **5 years onsite comprehensive warranty** and exclusive of Sales Tax/GST & Entry Tax should *be quoted for the medical equipments (Item wise) on door delivery basis. The turnkey job (cost of accessories if any required for Installation/Commissioning including installation/commissioning charges), 5 years CMC cost & Sales Tax/GST & Entry Tax should be mentioned in separate columns.* The rates quoted should be in **Indian Rupees only.** Rates quoted in any other currency will not be accepted.
- 8.4 The supplier shall be responsible for delivery and due verification, installation and commissioning of the equipment in the proper site.
- 8.5 The rate per unit shall not vary with the quantum of order placed for destination point.
- 8.6 If there is difference between figures & words, words will be taken into consideration.
- 8.7 In the event of the date being declared as a holiday by Govt. of Odisha, the due date of sale, submission of bids and opening of bids will be the following working day at the scheduled place & time.
- 8.8 The price quoted by the tenderers shall not in any case, exceed the controlled price, if any, fixed by the Central / State Government / DGS&D and the Maximum Retail Price (MRP). The purchaser, at his discretion, will in such case, exercise the right of revising the price at any stage so as to confirm to the controlled price or MRP as the case may be.
- 8.9 The rate quoted and accepted will be binding on the tenderer for a period of **three years** from the **date of approval of the rate contract** and on no account, any increase in the price will be entertained till the completion of this tender period.
- 8.10 No tenderer shall be allowed at any time on any ground whatsoever to claim revision of or modification in the rate quoted by him. Clerical error / typographical error, etc. committed by the tenderers in the tender forms shall not be considered after opening of tenders. Conditions such as **“ SUBJECT TO AVAILABILITY”**

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/ "SUPPLIES WILL BE MADE AS AND WHEN SUPPLIES ARE RECEIVED" etc., will not be considered under any circumstance and the tenders of those who have given such conditions shall be treated as incomplete and for that reason, shall be rejected.

- 8.11 If at any time during the period of rate contract, the price of tendered item is reduced or brought down by any law or act of the Central or State Government or the tenderer, the tenderer shall be morally and statutorily bound to inform the purchaser immediately about such reduction in the contracted price. The purchaser is empowered to unilaterally effect such reduction in rate, in case the tenderer fails to notify or fails to agree for such reduction of rate.
- 8.12 Approved rate with terms, conditions & the quoted price of the tender shall remain valid for a period of 36 months from the date of approval.
- 8.13 If the relevant documents / certificates which are required to be furnished along with the tender are written in language other than English, the tendering firm shall furnish English version of such documents / certificates duly attested by a Gazetted Officer / Notary with his seal and signature.
- 8.14 If any information or documents furnished by the tenderer with the tender papers are found to be misleading or incorrect at any stage the tender of the relevant items in the approved list shall be cancelled and steps will be taken to blacklist the said firm for three (3) years.
- 8.15 Rate should be quoted in Indian Currency, both in words and figures against each item as the payments will be made in Indian currencies only (Annexure-IX). The tenderer shall not quote his own rate for any item other than the item specified in the list. (Section V – Schedule of Requirement).
- 8.16 Both Cover-A and Cover-B should have an index and page number of all the documents submitted inside that cover.
- 8.17 The Tax will be charged as per the guidelines given by the Finance Dept., Govt. of Odisha from time to time. GST (as applicable) will be paid to the supplier. In case of Entry Tax, the supplier has to deposit the original receipt to claim it, if finished goods are brought from outside the State. The Sales Tax & entry tax components should be shown separately in the Price Schedule.
- 8.18 The requirement of items may increase or decrease depending on the situation.

**PACKAGING :**

- 9.1 All the packaging should be New. The supplier shall provide such packaging of the goods as is required to prevent their damage or deterioration during transit to their final destination. The packaging shall be sufficient to withstand without any limitation including rough handling during transit, exposure to extreme temperature, salt and precipitation during transit and upon storage.

**COMPREHENSIVE WARRANTY & CMC : (Undertaking as per Annexure – XI)**

- 11.1 The comprehensive warranty will remain valid for 5 years from the date of installation & commissioning of the equipment. The original copy of warranty documents will be submitted to the purchaser at the time installation.
- 11.2 The warranty will cover **all the parts of the machine or item and any replacement or repair required** within the warranty period and will be provided by the supplier free of cost at the destination point (installation point). The supplier will take back the replaced parts / goods at the time of their replacement. No claim whatsoever shall be on the purchaser for the replaced parts / goods thereafter. No traveling allowances or transportation cost will be paid by the purchaser during the warranty period.
- 11.3 The Supplier shall warrant that the Goods supplied under this contract are new, unused, of the most recent or current models and they incorporate all recent improvements in design and materials. The Supplier shall further warrant that all Goods supplied under this contract shall have no defect arising from design, materials or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in the place of final destination.
- 11.4 **CMC**: The tenderer shall also commit to provide offer for CMC (**Labour + all spare**) for the **next 5 (five) years after five (5) years of warranty**. No extra cost will be paid other than the CMC cost for functioning of the item during this period. The supplier will provide one (1) preventive maintenance in every six months in a year during the period of CMC.
- 11.5 **The selected firm should have a service centre in Odisha.**
- 11.6 All the warranty certificates must be handed over to the consignee at the time of installation.

**TRAINING & OPERATIONAL MANUAL:**

- 12.1 The firm / supplier will provide hands on training to two doctors and two technicians in his own cost for operating / handling the medical equipment(s) at the time of installation of equipment.
- 12.2 The supplier / firm will provide the operation / maintenance manuals of all equipments to the purchaser at the time of installation.

**UPTIME GUARANTEE:**

13.1 **UP-TIME BALANCE :**

The Supplier (s) shall provide guarantee 95% uptime during comprehensive warranty period, i.e., for 5 years from the date of installation & commissioning. Any uptime less than the specified period above will be compensated by the Supplier(s) by extending the

warranty period. The consignee shall maintain a logbook in the format provided by the Supplier(s) which will indicate usage of the equipment every day and for calculation of up-time.

**DOWNTIME PENALTY CLAUSE:**

- 14.1 During the Guarantee / warranty period, desired uptime of 95% of 365 days will be ensured (24 hour). If downtime exceeds 5%, penalty in the form of extended warranty, double the number of days for which the equipment goes out of service will be applied. The supplier must undertake to supply all spares for optimal upkeep of the equipment for **TEN YEARS** after installation. If accessories / other attachment of the system are procured from the third party, then the supplier must produce cost of the accessory / other attachment and the CMC from the third party separately along with the main offer and the third party will have to sign the CMC with the purchaser if required. In no case equipment should remain in non-working condition for more than 7 (seven) days from the date of complaint, beyond which a penalty will be applicable as per Rule.
- 14.2 The principals or their agents are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.

**SPARE PARTS:**

- 15.1 The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee / warranty period should be attached / enclosed along with the sealed quotation.
- 15.2 The tenderers are required to furnish the list of spares along with their cost in the financial Bid separately which will not be taken for evaluation.
- 15.3 Local agents / distributors quoting on behalf of the manufacturer / importer must attach the authority letter in their favour.

**LABELLING:**

- 16.1 The equipment supplied must be properly labelled with Sl. No., Model Name, Make, year of Manufacture & certifications (European CE, USFDA, BIS electrical & electronic Certificate).

**ACCEPTANCE OF TENDER AND SUPPLY CONDITIONS:**

- 17.1 The Purchaser reserves the right to reject the tenders or to accept the tenders for the supply of the item tendered without assigning any reason thereof.
- 17.2 The Purchaser will be at liberty to terminate the contract either wholly or in part without assigning any reasons thereof. The tenderers will not be entitled to any compensation whatsoever for such termination.

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M.K.C.S. Medical College  
Bertampur (GM)

17.3 The supply should be completed within 30 days from the date of issue of purchase order unless otherwise specified. If no supply is received even after 30 days with liquidated damage from the date of issue of the purchase orders , such orders will stand cancelled automatically without further notice. Penalties shall also thereafter be applied to the tenderer as specified in clause no. 21.1 to 21.2. The approved firm shall also suffer forfeiture of the EMD and Performance Security Deposit.

17.4 The tender inviting authority or his authorised representative (s) has the right to inspect the factory of those company who have quoted for the tender, before accepting the rate quoted by them or before releasing any purchase order (s) or at any point of time during the validity period of tender and has also the right to reject the tender or terminate / cancel the orders issued or not to reorder based on the facts brought out during such inspections.

**EVALUATION:**

18.1 The price bid of the tenders who qualify in the technical bid fulfilling the eligibility criteria and complying to the technical specification shall only be opened.

18.2 The tender inviting authority may ask for demonstration (where ever required) of the equipment by the bidders at the premises of the tender inviting authority as a part of the technical evaluation before opening of price bid in order to verify the compliance to technical specification.

18.3 The rates of the item quoted by the tenderer who qualify technically will be evaluated after aking the following points into consideration: -

a) Rate of the medical equipments will be taken after inclusion of the excise duty / customs duty, transportation, insurance, packing & forwarding & comprehensive warranty for (5) years, (cost of accessories if any for installation/commissioning and installation charges) & CMC for next seven years but excluding GST & Entry Tax (ET).

b) The cost of the medical equipments (excise duty / customs duty, transportation, insurance, packing & forwarding & comprehensive warranty for five(Five) years but excluding GST & ET ), next seven(7) years after warranty will be added for evaluation.

c) The circulars issued by the Finance Department, Govt. of Odisha from time to time regarding tax matters shall be taken into account for evaluation and shall be binding on the bidders. As per the Govt. of Odisha Finance Deptt. Order No. 48317(230)/F dt.23.11.2010, in comparing the cost of an article, if purchased from within the State with the price of similar article if purchased from outside the State, the amount of Odisha Sales Tax (OST) now GST shall be deducted from the total cost since it accrues back as revenue to the State. If after such deduction, the cost of articles to be purchased within the State is not more than the cost of including Central Sales Tax, transport and other charges of similar articles from outside the State, it would be economical to purchase articles within the State.

19.1 If the supplier fails to complete the supply within the extended period (if required), no further purchase order will be placed to the firm for the said item including forfeiture of the Performance security and the concerned firm will be blacklisted for two (2) years from the date of issue of letter for the said item.

*DTSPAS*  
6/3/21  
M.K.C.G. College  
G.M.

## **TERMS OF PAYMENT :**

- 20.1 No advance payments towards cost of medical equipments or turnkey job will be made to the tenderer.
- 20.2 Payments as mentioned above will only be made after keeping the performance security deposit from the supplier as per clause no. 7.1, if they have not deposited the same before. Payment will only be made after ensuring signing of the Agreement, undertaking and handing over of warranty papers of equipment and turnkey jobs by the supplier to the purchaser.
- 20.3 No claims shall be made against the purchaser in respect of interest on earnest money deposit or performance security deposit or any delayed payment or any other deposit.
- 20.4 Payments in shape of Draft / Pay Order will preferably be despatched to the supplier by Registered post with A.D or e-payment / on-line transfer.
- 20.5 The payment of CMC will be made on a six monthly basis, after completion of warranty period and signing of the CMC agreement.
- 20.6 The 90% payment will be released only after Installation / Commissioning of the equipment and rest 10% will be release after satisfactory report received from the consignee i.e. the Nodal Officer MRU.

## **PENALTIES :**

- 21.1 If the successful tenderer fails to deposit the required performance security within the time specified or withdraws his tender after acceptance of his tender owing to any other reasons or unable to undertake the contract, his contract will be cancelled and the earnest money deposit / performance security deposit submitted shall stand forfeited by the purchaser
- 21.2 Violating the tender terms and conditions & non supply / supply which is not as per technical specification will disqualify the firm to participate in the tender for a period of 3 (three) years from the date of issue of letter and his E.M.D & performance security deposit will be forfeited and no further purchase order will be placed to that firm for that item.
- 21.3 In the event of any dispute arising out of the tender, such disputes would be subject to the jurisdiction of the Berhampur Court.

## **INSPECTION/TESTING :**

- 22.1 The selected supplier shall have to arrange for demonstration of the equipment at the supply point. The purchaser or its nominated representative(s) shall inspect and test the equipments at the supply point to check their conformity to the technical specifications and other details incorporated in the contract.

*A. Topas*  
6/2/24  
M.K.C.C. Medical College  
Berhampur (GA)



**CHECK LIST**  
**(To be submitted in Cover A Technical Bid)**

**Note : The documents has to be arranged serially as per the order mentioned in the check list**

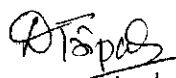
Please put  in the respective box

**COVER - A (TECHNICAL BID)      DOCUMENTS : SUBMITTED OR NOT**

		Page No	Yes	No
1	List of Item(s) – Annexure II	Page No	Yes	No
2	Tender document Fee	Page No	Yes	No
3	Earnest Money Deposit	Page No	Yes	No
4	Details of Manufacturing Unit / contact person Liaisoning agent / servicing centre (Annexure III)	Page No	Yes	No
5	Declaration form (Annexure – IV) signed by the Tenderer & affidavit before Notary Public / Executive Magistrate	Page No	Yes	No
6	Manufacturer's Authorization Format (Annexure – V) (for distributor / Importer)	Page No	Yes	No
7	Proof of avg. Annual turnover of Rs.10 Crore or more for preceding 3 financial year (for Manufacturer / Importer) or Rs.10 Crores or more (for authorized distributors) Annexure – VI	Page No	Yes	No
8	Audited Account Statement (P&L Account) / Annual Report for the three financial years by highlighting the figure in it, which is mentioned in the annexure-VI	Page No	Yes	No
9	Performance Statement (Item Wise) during the last three year (Annexure-VII)	Page No	Yes	No
10	Copies of Purchase order (Item wise) in support of the performance statement	Page No	Yes	No
11	Deviation / No deviation Statement (item wise) & details of technical specification (Annexure – VIII A & B)	Page No	Yes	No
12	Leaflets / Technical Brochures of the Equipment offered (Item wise)	Page No	Yes	No
13	Copy of Import license (In case of Importer)	Page No	Yes	No
14	Copy of Valid ISO certificate	Page No	Yes	No

*D. S. Das*  
Principal  
M.K.C.B. Medical College  
Bhubaneswar (OR)

15	Attested Photocopy of Up-to-date CE/US FDA / BIS Certificate (Item wise) (As per technical specification)	Page No	Yes	No
16	Attested Photocopy of Up-to-Date IEC Certificate (Item Wise as applicable) (As per technical specification) as applicable.	Page No	Yes	No
17	Photocopy of PAN	Page No	Yes	No
18	Photocopy of GST certificate	Page No	Yes	No
19	Copy of original Tender and schedules, duly signed by the Tenderer	Page No	Yes	No
20	IT Return of last 3 financial year	Page No	Yes	No
21	An affidavit to the effect that the firm has not been black listed anywhere	Page No	Yes	No

  
 6/3/21  
 M.K.C.G. Medical College  
 Berhampur (GM)

**Annexure II**  
(Refer Clause No. 3.2)

(To be submitted in *Cover A - Technical Bid*)

**LIST OF ITEM(S) QUOTED**

Sl.	Name of Item(s)	Name of Manufacturer	Make	Model Name	Details of offered product at Page No. (s)
1					
2					
3					

Signature of the Tenderer :

Date :

Official

Seal:

*DTSPAS*  
*6/3/21*  
Dean & Principal  
M.K.C.G. Medical College  
Berhampur (GM)

**Annexure IIA**  
(Refer Clause No. 8 of Section -II)

(To be submitted in *Cover A - Technical Bid*)

**DETAILS OF EMD(S) SUBMITTED**

Sl.	Name of Equipment	<i>EMD 2% of the quoted value Amount (Rs.)</i>
	<b>TOTAL (Rs.)</b>	

Signature of the Tenderer :

Date :

Official

Seal

*DT Spas*  
*6/3/21*  
Director, Hospital  
M.K.C.G. Medical College  
Berhampur (GA)

**Annexure III**  
 (Refer Clause No. 3.5)  
 (To be submitted in *Cover A - Technical Bid*)

**DETAILS OF THE TENDERER & LOCAL CONTACT PERSON**

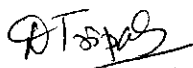
	<b>Corporate Office</b> (The address in which the purchase orders and payment details will be communicated)	<b>Local Contact Person / Branch Office / Zonal Office / Service Centre if any, in Odisha.</b>
Name & Full Address		
Telephone Nos., landline		
Mobile		
Fax		
E - Mail		
Date of Inception	(Copy of Certificate of incorporation of Manufacturer)	
Name of the issuing authority		
Import License (in case of Importer only)	(Furnish photocopy of Import License)	
GST validity	(Furnish photocopy of GST)	
PAN		
Details of the Service Centre Facilities in Odisha/Eastern India		

**Signature of the Tenderer :**  
with seal

**Date :**

**Official**

**Seal**

  
 Deputy Principal  
 M.K.C.G. Medical College  
 Cuttack (GM)

(To be submitted in *Cover A - Technical Bid*)

**DECLARATION FORM**

I / We .....having My /  
our .....office  
at.....do declare that I / We have carefully  
read all the terms & conditions of tender of the \_\_\_\_\_, Odisha for the supply of  
medical equipments. The approved rate will remain valid for a period of three year from the  
date of approval. I will abide with **all the terms & conditions** set forth in the **Tender**  
**Reference no.** \_\_\_\_\_

I/We do hereby declare I/We have not been de-recognized / black listed by any State  
Govt. / Union Territory / Govt. of India / Govt. Organization / Govt. Health Institutions for  
supply of Not of Standard Quality (NSQ) items / non-supply.

I/We agree that the Tender Inviting Authority can forfeit the Earnest Money Deposit and  
or Performance Security Deposit and blacklist me/us for a period of 3 years if, any information  
furnished by us proved to be false at the time of inspection / verification and not complying with  
the Tender terms & conditions.

I / We ..... do  
hereby declare that I / we will supply the ..... as per the terms, conditions  
& specifications of the tender document. I / we further declare that I / we have a service centre /  
will establish a service centre within one month of installation of the equipment in Odisha.

Signature of the bidder :

Seal

Date :

Name & Address of the Firm:

Affidavit before Executive Magistrate / Notary Public.

*S. Topal*  
Principal  
M.K.C.G. Medical College  
Borhanpur (G.M)

(To be submitted in *Cover A - Technical Bid*)  
**MANUFACTURER'S AUTHORISATION FORMAT**

To

The Dean & Principal,,  
MKCG Medical College,  
Berhampur -760004, Odisha

Ref: Tender No. \_\_\_\_\_ Dated \_\_\_\_\_ for \_\_\_\_\_.

Dear Sir,

We, \_\_\_\_\_ are the manufacturers of \_\_\_\_\_  
\_\_\_\_\_ (name of equipment(s) and have the manufacturing factory  
at \_\_\_\_\_.

1. Messrs \_\_\_\_\_ (name and address of the agent) is our authorized distributor for sale and service of \_\_\_\_\_ (name of equipment(s))
2. We confirm that no supplier or firm or individual other than Messrs \_\_\_\_\_ (name of the above distributor) is authorized to submit a tender and enter into a contract with you for the above goods manufactured by us.
3. We also extend our full warranty (5 years comprehensive warranty ) and also full back-up support for 5 years CMC after the warranty period as required by the purchaser.
4. We undertake that we have adequate infrastructure and spare part support to carry out the warranty and AMC/CMC services for 10 years and do accept to provide uptime guarantee of 95% as per this tender clause No. 13.1.

Yours faithfully,

\_\_\_\_\_  
\_\_\_\_\_

(Signature with date, name and designation)

For and on behalf of Messrs \_\_\_\_\_  
(Name & address of the manufacturers)

Seal

Note :

1. This letter should be on the *letterhead* of the *manufacturer (Item wise)* and should be signed by a person having the power of attorney to legally bind the manufacturer.
  2. Original letter shall be attached to the technical bid.
- (To be submitted in **Cover A - Technical Bid**)

*DT is pd*  
6/2/20  
Dean & Principal  
M.K.C.G. Medical College  
Berhampur (Odisha)

**ANNEXURE – VI**

(Refer Clause No. 3.8)

(To be furnished in the letter head of the Auditor/ Chartered Accountant)

**ANNUAL TURN OVER STATEMENT**

The Annual Turnover for the last three financial years of M/s \_\_\_\_\_ who is a Manufacturer /Distributor/Importer (Pl. tick whichever is applicable) are given below and certified that the statement is true and correct.

Sl.No.	Year	Turnover in (Rs.)
1.	2017-2018	-
2.	2018-2019	-
3.	2019-2020	-

Average Annual Turnover (for the above three years) in (Rs.) \_\_\_\_\_

Date:

Place:

(Name in Capital)

Seal

Signature of Auditor/  
Chartered Accountant

Membership No.-

Registration No. of Firm

**Note:**

- To be issued in the letter head of the Auditor/Chartered Accountant mentioning the Membership no.
- To be supported by the attested photocopies of audited account statement / P&L account/ Annual Report and the figure of turnover mentioned in the format (Annexure – VI) should be highlighted there.

*ATs pas*  
6/2/21  
Principal  
M.K.C.B. Medical College  
Bardhaman (WB)



(To be submitted in *Cover A - Technical Bid*)

## Annexure VII

(Refer Clause no. 3.9)

### PROFORMA FOR PERFORMANCE STATEMENT

(For the period of last **three years**)

**ITEM WISE** (Pl. Furnish separate performance statement itemwise if the bidder quote for more than one item & attach the order copies alongwith each performance statement)

Tender Reference No.:

Name of Tenderer :

Name of Manufacturer: \_\_\_\_\_ Name of the Item : \_\_\_\_\_

Sl.	Order placed by (Address of purchaser) (attach documentary proof)*	Order no & Date	Item Name	Make & Model	Qty	Value of Contract (Rs.)	Date of Completion		Reasons for delay if any	Have the goods been functional
							As per contract	Actual		
1										
2										
..										
..										
			Total Qty							

#### Signature and seal of the Tenderer

- \* The documentary proof will be copies of the purchase order (during the last 3 years) indicating Contract No. and date along with a notarized certification (by the bidder) authenticating the correctness of the information furnished.
- \*\* The documentary proof will be certificate from the consignee/end user indicating Contract No. and date along with a notarized certification (by the bidder) authenticating the correctness of the information furnished.

(To be submitted in *Cover A - Technical Bid*)

*Dr. P. S. S.*  
6/3/21  
Dean & Principal  
M.K.C.G. Medical College  
Berhampur (OR)

**Annexure VIII A**  
**(Refer Clause No. 3.10)**

**STATEMENT REGARDING DEVIATIONS FROM TECHNICAL SPECIFICATIONS (IF ANY)**

Following are the Technical deviations and variations from the purchaser's Technical Specifications.

Sl. No.	Item Name	Clause of Technical Specification	Statement of Deviations Variations if any
1			
2			
..			
..			
..			

In case there is no deviation from technical specification, Pl. Mention **No Deviation.**

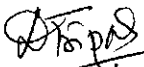
Signature of the Bidder

Name :

Date :

Place :

Seal

  
6/3/21  
Dean & Principal  
M.K.C.G. Medical College  
Berhampur (GM)

(To be submitted in *Cover A -Technical Bid*)  
**Annexure VIII B**  
(Refer Clause No. 3.10)

**DETAILS OF TECHNICAL SPECIFICATION OF THE PRODUCT (S) OFFERED BY  
THE BIDDER**

Sl. No.	Item Name	Make	Model	Detail Specification of the product(s) offered* (Pl. Describe the detail specification of the product offered) – Para wise compliance to the technical specification asked for.	**Page no. of the Catalogue / Leaflet where Para wise compliance information as per technical specification is available
1					

\* Leaflets/Technical Brocheures of the product offered must be attached in support of the information provided above.

\*\* It is mandatory to mention the page no(s) in the format as mentioned above.

Signature of the Bidder

Name :

Date :

Place :

Seal

*D. Tripathi*  
6/3/21  
Dean & Principal  
M.K.C.G. Medical College  
Barrampur (G.S.)

# ANNEXURES -IX

**(To be submitted in COVER B - PRICE BID)**

**Note :** Price schedule should be submitted in separate sheets for each item(s) quoted and sealed in separate envelops. Each envelop should be superscribed with the *Item Name (s) quoted* , i.e. (1) Decahead Teaching Microscope on turnkey basis (where necessary) (2) ..... (3) .....

## List of Enclosures to be submitted in Price Bid :

- 1) Price schedule format duly filled in and signed by the authorized signatory with company seal
- 2) Photocopy of GST registration certificate

*D. S. P. S.*  
06/10/21  
Principal  
M. K. C. S. Medical College  
Borhampur (GA)

**To be submitted in Cover B – Price Bid**  
(Refer Clause No. 4.1 & 8.15)

**FORMAT I - PRICE SCHEDULE**

Whether GST paid to Government of Odisha: Yes / No . If Yes, furnish the copy of Odisha GST registration certificate

Name of the Item (s) (Items mentioned in the schedule of requirement)	Make & Model	* Price of the items with all accessories which includes excise duty / customs duty, packing, insurance, forwarding / transportation (door delivery) with 5 (five) years onsite warranty, calibration charges if any & excludes GST/sales tax / entry tax Cost in Rupees (both in words & figures)	***Taxes CST/GST & ET (if any) on & above the item price mentioned in col. (3) (Mention whether CST / GST and ET, the % of tax & it's value in Rs.)	Total Cost (Including of CST / GST & ET) (In Rupees)	**Cost of Turn Key if any (all materials : for electrical, civil , air conditioning work etc.) for installation & commissioning and all charges towards installation/commissioning including all taxes for in Rs. (Door delivery & installation)	CMC for five years after expiry of five years warranty period (please mention on yearly basis)	Total
1	2	3	4	5=3+4	6	7	8=5+6+

\* Breakup of the price of individual items of the items mentioned at col. (3) above should be mentioned separately at Annexure IXA2

\*\* The cost of turnkey shall include any specific accessories/equipment required for installation/commissioning and . In case of turnkey, the details of accessories/equipment are to be mentioned.

\*\*\* CST/GST & ET which will be chargeable on the price (3) shall be mentioned separately in column 4 above.

Date :

Place :

- Rates should be quoted both in figures & words for each item and if there is any discrepancy, the quoted rates in words will be taken for evaluation.
- The tenderer has to mention the make / brand, specification, warranty of all the items in turn key.

*A. Tripathy*  
6/3/21  
Dean & Principal  
M.K.C.U. Medical College  
Berhampur (GA)

# ANNEXURES

## (Agreement, Warranty and CMC Undertaking)

*D. S. Das*  
6/3/21  
Dean & Principal  
M.K.C.G. Medical College  
Bardhaman (WB)

**AGREEMENT**

THIS AGREEMENT IS MADE AT \_\_\_\_\_ THIS THE DAY OF \_\_\_\_\_ 2014

BETWEEN

Name of the Supplier  
with full address

Here in after called the “Supplier(s) \_\_\_\_\_” as 1<sup>st</sup> Party

AND

Dean & Principal,, MKCG Medical College, Berhampur

herinafter called the “PURCHASER” \_\_\_\_\_ as 2<sup>nd</sup> Party.

Relying on the documents and representation of facts connected to the issue of aforesaid parties to undertake the responsibilities of sell and purchase of following equipment(s) etc. with the terms & conditions hereinafter laid down.

And whereas the 2<sup>nd</sup> party “Purchaser(s)” is willing to purchase

**Name of the Item:**

**Specifications:** As per specifications laid down in the Tender terms & conditions

The Supplier(s) has agreed to sell the equipment(s) completed in all respects according to the Tender requirements and their / his offer dtd. \_\_\_\_\_ and the Supplier(s) has also agreed to install to make them operative at the destination mentioned in the Tender document with the following descriptions and their cost mentioned against each.

<u>Description of goods</u>	<u>Qty</u>	<u>Price</u>	<u>Total</u>
-----------------------------	------------	--------------	--------------

The price / cost of the item also include the followings in addition to above.

1. Insurance
2. Freight
3. Transportation
4. Customs duty / Excise duty
5. Charges for documents, instructions manual, tools
6. F.O.R. at the destinations mentioned in the consignee list
7. Training to doctors & technicians.
1. Maintenance of the system includes all accessories supplied and their spare parts required during comprehensive warranty period of five year at free of cost from the date of successful installation and satisfactory functioning of the system at the site.
2. Installation and commissioning of the system by the Supplier’s engineer at site.
3. Any other charges including loading & unloading, packing & forwarding etc. will be paid by the Supplier(s) till the completion of the installation and turnkey job if any.

CMC cost for next 5(five) years after the warranty period shall be paid after completion of the warranty period (on a six monthly basis).

*DTOPAS*  
*6/3/21*  
Dean & Principal  
M.K.C.G. Medical College  
Berhampur (O-2)

**TERMS AND CONDITIONS:-**

**PRICE :**

Only the price quoted by the Supplier(s) in his / their financial proposal will be the price for payment and no other price escalation will be allowed at any circumstances.

**SUPPLY**

The supply should be completed within 60 days from the date of issue of purchase order unless otherwise specified. If no supply is received even after 60 days or extended period days with liquidated damage from the date of issue of the purchase orders , such orders will stand cancelled automatically without further notice. Penalties shall also thereafter be applied to the tenderer as specified under Penalty. The approved firm shall also suffer forfeiture of the EMD and Performance Security Deposit.

**LIQUIDATED DAMAGE :**

The Purchaser may allow extension for a maximum period of 4 (four) weeks (28 days), after the stipulated date of supply (i.e. 60 days) with a penalty of 0.5% which will be deducted from the purchase order value as "Liquidated Damage", for each week (7 days) of delay upto a maximum 2% on the value of the goods.

If the supplier fails to complete the supply within the extended period, i.e. 60 days after being allowed by the purchaser, no further purchase order will be placed to the firm for the said item including forfeiture of the Performance security and the concerned firm will be blacklisted for two (2) years from the date of issue of letter for the said item.

**TERMS FOR PAYMENT :-**

- A. The payment(s) shall be made by purchaser in Indian currencies. No advance payments towards cost of Instruments and Equipments etc. will be made to the tenderer. No payment will be made to the supplier if he has not deposited the unconditional performance security in shape of Bank draft/bank guarantee amounting to 5% of the purchase order value which will be deposited with the O/o of the concerned consignee.

90% of the cost of the equipment (excluding CMC Cost)+100% turnkey +100% tax shall be released to the supplier on receipt of stock entry certificate and installation certificate (that it is working satisfactory) from the consignee. The remaining ten percent (10%) will be released after satisfactory working certificate received from the consignee after 6 weeks of installation subject to submission of performance security (5% of P.O. Value). For this purpose the supplier will submit two bills, one 90% of the cost of the equipment+100% turnkey +100% tax and the other for the remaining ten percent (10%) of the cost of the equipment.

- B. Before release of payment the supplier has to submit the signed agreement, warranty documents of equipment and turnkey job to the consignee. The undertaking as per Annexure – XI & XII will also be submitted to the consignee with photocopies to the purchaser.
- C. The payment of CMC will be made on six monthly basis after expiry of the warranty period and signing of the CMC agreement.

**UP-TIME BALANCE :**

The Supplier (s) shall provide guarantee 95% uptime i.e. 41610 hours (95% of 43800 Hours) during comprehensive warranty period. The up time guarantee will be 95% as calculated here under i.e. 8322 hours per annum.

1 year – 365 days (24 working hours per day)

Total working time per annum – 365 days x 24 hrs = 8760 hrs.

R. Topal  
6/3/21

Dean & Principal  
M.K.C.S. Medical College  
Mysore (08)



Up time guarantee -  $0.95 \times 8760 \text{ hrs.} = 8322 \text{ hrs. per annum.}$

For 5 years warranty =  $8322 \times 3 \text{ hrs}$

Any uptime less that specified above will be compensated by the Supplier(s). The consignee shall maintain a log-book in the format provided by the Supplier(s) which will indicate usage of the equipment every day and for calculation of up-time.

**DOWNTIME PENALTY CLAUSE:**

During the Guarantee / warranty period, desired uptime will be 95% of 365 days (24 hour) if downtime exceeds 5%, penalty in the form of extended warranty, double the number of days for which the equipment goes out of service will be applied. The vendor must undertake to supply all spares for optimal upkeep of the equipment for TWO YEARS from the date of installation at the site. If accessories / other attachment of the system are procured from the third party, then the vendor must produce cost of accessory / other attachment and the CMC from the third party separately along with the main offer and the third party will have to sign the CMC with the consignee if required.

In no case equipment should remain in non-working condition for more than 7 working days.

The manufacturers or their agents are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.

**COMPREHENSIVE MAINTENANCE CONTRACT:**

The supplier will provide CMC for 7 (seven) years after the completion of 3 years comprehensive warranty period.

**INSTALLATION AND DEMONSTRATION :**

The installation and demonstration of the equipment shall be done by the Supplier(s) at free of cost at the installation site of the respective institutions.

**TRAINING :**

Supplier(s) shall impart adequate training to 2 doctors and 2 technicians at the site / his / their factory / workshop inside / outside India as the case may be at the Supplier(s) cost.

**INCIDENTAL SERVICES :**

The Supplier(s) shall abide by the terms and conditions under incidental services & the installation of Instrument / Equipment at the destination point (Door Delivery) of consignee and demonstrate the machine in working condition to the receiving authority.

Furnishing of tools required for assembly and / or maintenance of the supplied Instruments / Equipments.

Furnishing of detailed operations and maintenance manual literatures for each appropriate unit of supplied Goods.

Performance or supervision or maintenance and / or repair of the supplied Goods, for a period of five (5) years i.e. the warranty period, provided that this service shall not relieve the Supplier of any warranty obligations under this contract.

The successful supplier shall replace any part or whole system as may be necessary in the event of damage during transit or found damaged on arrival or during installation of the system or if found not in conformity to the specifications at his / their own cost.

RTOPAS  
6/3/21  
Dean & Principal  
M.K.C.G. Medical College  
Mangalore (K&A)

The tenderer should furnish an undertaking to the effect that he / they should take responsibility after sales service of the equipments / instruments to be supplied by him / them and to provide spare parts for up keeping the Equipments / Instruments for a minimum period of 10 years from the date of installation.

The price of the instruments / equipments is inclusive of warranty for a period of 5 (five) years commencing from the date of installation. The tenderers shall submit undertaking for C.M.C (Comprehensive Maintenance Cost) for a period of 5 (Five) years from 8<sup>th</sup> year onwards duly signed by authorised signatories for the execution at appropriate time (Annexure – X & XI).

**SPARE PARTS :**

The supplier will provide all the spare parts, repairing & maintenance by its trained personnel after the warranty period (5 years) during the CMC period.

**COMPREHENSIVE WARRANTY :**

This warranty shall remain valid for three (5) years from the date of installation & commissioning of the machine / item & must be submitted at the time of installation to the consignee with a photocopy to the purchaser.

The warranty will cover all the parts of the machine or item and any replacement or repair required within the warranty period will be provided by the supplier free of cost at the destination point (Installation point). The supplier will take back the replaced parts / goods at the time of their replacement. No claim whatsoever shall be on the purchaser for the replaced parts / goods thereafter. No traveling allowances or transportation cost will be paid by the purchaser during warranty period.

The Supplier warrants that the Goods supplied under this contract are new, unused, of the most recent or current models and they incorporate all recent improvements in design and materials (even if the advanced facilities are not mentioned in our product specification). The Supplier further warrants that all Goods supplied under this contract shall have no defect arising from design, materials or workmanship (except when the design and / or material is required by the Purchaser's Specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the place of final destination.

The Purchaser / consignee shall promptly notify the Supplier in writing / Fax / Telephone of any claims arising under this warranty.

Upon receipt of such notice, the Supplier shall with all responsible speed will repair or replace the defective goods or parts thereof without cost to the purchaser to maintain its UP TIME offered in the beginning of purchase otherwise penal provisions shall apply if the supplier fails to keep up its UP TIME.

If the Supplier, having been notified, fails to remedy the defect(s) within 10 days, the Purchaser may proceed to take such remedial action as may be necessary, like forfeiture of EMD or recovery from security deposit the amount of loss incurred by the purchaser.

**GOVERNING LANGUAGE :**

The contract shall be written in English language. English language version of the contract shall govern its interpretation. All correspondences and other documents pertaining to the contract which are exchanged by the parties shall be written in English.

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**DELIVERY OF DOCUMENT :**

Four (4) copies of the Supplier invoice / bills showing purchase order number, good's description, quantity, unit price, total amount with stock entry certificate by the consignee.

Photocopy of the Insurance Certificate if any (The Original Certificate is to be given to the Consignee).

Attested Photocopy of Manufacturer's / Supplier's warranty certificate. (The original warranty certificate is to be submitted to the consignee at installation point).

**INSURANCE :**

For delivery of goods at site, the insurance shall be obtained by the Supplier(s) in an amount equal to 110% of the value of goods from "Warehouse" (final destination) on "All Risks" basis including natural calamities.

**PACKAGING :**

The supplier shall provide such packaging of the goods as is required to prevent their damage or deterioration during transit to their final destination. The packaging shall be sufficient to withstand without limitation rough handling during transit and exposure to extreme temperature, salt and precipitation during transit and upon storage. All primary packaging containers which come in contact with the item should strictly protect the quality and integrity of the Instruments & Equipments. Packing case size and weights should be taken into consideration, in case of remoteness of final destination and the absence of heavy handling facilities at all points in transit.

The packaging marking shall show the description of quantity of contents, the name of the consignee and address, the gross weight of the packages, the name of the supplier with a distinctive number of mark sufficient for purposes of identification. Each package shall contain:

- i. a packaging note quoting the name of the purchaser
- ii. the number and date of order
- iii. nomenclature of the goods
- iv. schedule of parts for each complete equipment giving part number with reference to assembly.
- v. Name & address of the consignee
- vi. Name & address of the supplier.

**TERMS OF CONTRACT :**

The Dean & Principal, MKCG Medical College, Berhampur will be at liberty to terminate the contract either wholly or in part without assigning any reason. The tenderers will not entitled to any compensation whatsoever in such terminations.

**PENALTIES :**

If the successful tenderer fails to execute the agreement and / or deposit the required security within the time specified or withdraws his tender after acceptance of his tender owing to any other reasons, he is unable to undertake the contract, his contract will be cancelled and the Earnest Money Deposit deposited by him along with his tender shall stand forfeited and he will also be liable for all damages sustained by the Dean & Principal, MKCG Medical College, Berhampur by reasons of such breach, such as failure to supply / delayed supply including the liability to pay any difference between the prices accepted by

*[Handwritten Signature]*  
Principal  
MKCG Medical College  
(11)

him and those ultimately paid for the procurement of the articles concerned. Such damages shall be assessed by the Dean & Principal, MKCG Medical College, Berhampur whose decision is final & binding in the matter.

If any articles or things supplied by the tenderer have been partially or wholly used or consumed after supply and are subsequently found to be in bad order, unsound, inferior in quality or description or are otherwise faulty or unfit for consumption / use & rusted then the contract price or prices of such articles in full will be recovered from the tenderer, if payment had already been made to him or the tenderer will not be entitled to any payment for that item & no further order will be given to him. For infringement of the stipulations of the contract or for other justifiable reasons, the contract may be terminated by the Dean & Principal, MKCG Medical College, Berhampur and the tenderer shall be liable for all losses sustained by the Dean & Principal, MKCG Medical College, Berhampur in consequence of the termination, which may be recovered from the Security Deposit made by the tenderer or other money due or become due to him.

Supply of sub-standard items or non - performance of tender terms & conditions will disqualify a firm to participate in the tender for the next five years.

**ARBITRATIONS :**

In the event of any dispute out of the contract, such dispute should be subject to the Jurisdiction of the High Court, Odisha.

**CHANGE OF TERMS AND CONDITIONS :**

Any amendment to the terms & conditions and clauses of the agreement if required must be done in writing duly signed by the two parties.

IN WITNESS WHERE OF the parties herein to have set and subscribed their respective hands the day and year first herein above written.

Executed by Purchaser (s) / Consignee

Executed by Supplier(s)

In presence of (Witness)

In presence of (Witness)

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*6/3/21*  
Dean & Principal  
M.K.C.G Medical College  
Berhampur (OM)

**ANNEXURE – XI**

(Refer Clause No. 11.1 to 11.6 & 13.1)

**UNDERTAKING**

**(To be submitted on Rs.50/- stamp paper)**

Tender ref. No. \_\_\_\_\_

Name of the equipment:

Date of Installation:

Name of the Consignee:

Name of the purchaser:

Sir,

I / we \_\_\_\_\_

hereby declare that

1. I / we am / are the manufacturers / authorized agents / distributors of \_\_\_\_\_.
2. I / we do accept / agree for the all clauses including the warranty 5 years followed by 5 years CMC) and payment terms and conditions of this tender.
3. I / we do hereby confirm that the prices / rates quoted are fixed and are at par with the prices quoted by me / us to any other Govt. of India / Govt. of Odisha Hospitals / Medical Institutions. I / we also offer to supply the stores at the prices and rates not exceeding those mentioned in the price bid.
4. I / we agree to abide by my / our offer for a period of 365 days from the date of approval of the tender.
5. I / we have necessary infrastructure for the maintenance of the equipment and will provide all the accessories / spares as and when required.
6. I / we also declare that in case of change of Indian Agent or for any other change, merger, dissolution solvency etc. in the organization of our foreign principles, we would take care of the Guarantee / warranty / maintenance of the machinery / equipment and have provided written confirmation for the same.
7. I / we shall provide assistance to the consignee in clearance and delivery of store at consignee's stores / premises.

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M. K. G. S. Hospital, Bhubaneswar  
Odisha

8. The demurrage / storage charges, if any, payable to the customs department, due to non-receipt of required documents in time by the hospital / delay due to incorrect entries, mistakes to the documents etc. shall be borne by me / us.
9. I / we have carefully read and understood all the terms and conditions of the tender and shall abide by them.
10. I / we undertake to get the equipment's repaired within 48 hours of receiving of the complaint from the indenting hospital / consignee failing which a penalty @ 1% of the cost may be recovered from the performance security before releasing the same to us after 5 years warranty period.

Signature of the witness  
Name & address

Signature of the Tenderer  
Name & address

Dated

Seal of the firm.

**N.B:** 1. To be attested by Notary Public

2. Only to be submitted by the approved supplier / tenderer to the consignee and a copy to the purchaser before release of payment.

*DT/10/08*  
*06/13/21*  
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Berhampur (Odisha)

(SECTION-IV)

# SPECIFICATION

## SECTION

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M.K.C.G. Medical College  
Kancherappur (GM)

Sl. No.	Name of the Equipment	Technical Specification	Qty
1	Multimode Microplate Reader	<ul style="list-style-type: none"> <li>• The instrument should be an Open system and compatible to majorities of kit (brand) available in the market</li> <li>• Should be modular, upgradable system for customization to research needs.</li> <li>• The system should be a spectral scanning multimode microplate reader capable of doing photometry, fluorometric Intensity including FRET, luminescence including BRET, Time resolved fluorescence (TRF), AlphaScreen and AlphaLISA etc.</li> <li>• All specifications of the system should be tested and guaranteed. The specification should not be typical or relative values.</li> <li>• System should have two different PMT detectors one for fluorescence and another for luminescence detection.</li> <li>• There should be auto gain facility, not the default settings in software. Instrument should perform automatic calibration procedure for results with different gain settings to obtain single consistent measurement range.</li> <li>• Self diagnostic option and auto-calibration during the starting of the instrument as well as during longer kinetic assays.</li> <li>• Instrument has automatic dynamic range selection to adjust the photomultiplier tube sensitivity based on the signal strength of the sample well. Adjustment is done individually for every well and every measurement.</li> <li>• If ask for demonstration, demo unit should be made available to check the performance of the instruments of our assays</li> <li>• Dynamic range for the fluorescence and luminescence should be mentioned and approximately it should be more than 6 to 7 decades.</li> <li>• The system should have option for field upgradation of dispensers for flash luminescence reactions like Ca<sup>2+</sup> flux, ATP assays, reporter gene assays etc.</li> <li>• Option for upto 2 on-board dispensers, dispensing volume should be 2µl to 5000 µl with 1 µl increments.</li> <li>• Built-in incubator and shaker should be available. Incubation temperature should be upto 45<sup>0</sup>C and Orbital shaker with adjustable speed and diameter.</li> <li>• On-board incubator must function by preventing condensation on a microplate lid to enable reading through the lid even during long kinetic assays (at least 24 hours).</li> <li>• Orbital Shaking with adjustable timing, speed and diameter. Automatic safety control based on the shaking speed and plate format to avoid spilling of the liquid from wells.</li> <li>• There should not be any loss of already measured data even in case of power failure.</li> <li>• Should be compatible for low volume sample analysis using accessory plate, volumes down to 2 µL.</li> <li>• The measurement speed for a 96 well plate can be in 15 sec and a 384 well plate in 45 sec</li> <li>• Should have built-in Smart Safety controls to avoid mistakes that can harm the system likes Plate check, Prime check, Position sensors, Shaker check and dispensing volume check.</li> <li>• Instrument has automatic plate check mode and priming vessel check mode to prevent accidental dispensing of reagent inside the instrument.</li> </ul>	1

  
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- Ability to include multiple plates inside a measurement session, and combine data from all plates to the same data set
- System should be able to read 96 different wavelengths in one 96 well plate in one protocol.

**Optical System:**

- Instrument should have Quadruple Monochromator based, double excitation and double emission monochromators for fluorescence applications.
- Instrument should have double monochromators for photometric (UV and VIS) measurement.
- The instrument should have a single lamp source and separate detectors for Photometry, Fluorometry and optional module for TRF and Luminescence.

**Absorbance / Photometry**

- Measurement range in Photometry: 200-1000nm
- Linear measurement range in photometry:  
0-4 Abs at 450 nm,  $\pm 2\%$  (96-well plate) and 0-3 Abs at 450 nm,  $\pm 2\%$  (384-well plate).
- Instrument should have on-board pathlength correction for direct quantification. e.g. Nucleic acids and proteins.
- Plate type : 6 well to 384 well format , also low volume (2 $\mu$ l to 10 $\mu$ l) analysis plate for DNA/RNA estimation

**Fluorescence/Fluorometry:**

- Fluorometry wavelength selection: Excitation range: 200-1000nm, Emission range: 270-840nm.
- Fluorescence intensity sensitivity of 0.4 fmol fluorescein per well with 384 well black plates.
- Plate Type : 6 well to 1536 well format

**Luminometry:**

- Luminometric upgradation should be done at field / at Lab.
- Luminometric sensitivity of <7 amol ATP/well with 384 well white plate using flash ATP reaction. Should have spectral scanning option.
- Luminometry should have three measurements mode – Normal, Filter and Monochromator mode with excellent sensitivity.

**Data Analysis Software:**

- Data analysis Software should be supplied with the instrument with unlimited user
- Database based software to run backups of all data, restore back up data (in case of hardware failure of original computer)
- Single click option for data export to Microsoft Excel software. The data can be export to any location by both manually or automatically.
- There should be various Data export formats like .xlxs, .txt, .xml, .pdf
- Software should have option for area selection. i. e different protocols at different area of the same plate.
- Spectral scanning of all 96 samples or 384 samples should be able to view in single graph plot.
- Single software program should allow any number of measurement steps (different detection modes) within the program.

**Others:** System should be supplied with branded UPS of 30 minutes back-up.

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**REAL TIME**  
**PCR SYSTEM**

- The system should be automated integrated 96 well peltier based and open system
- System should be suitable for both real-time PCR and end-point PCR analysis with six independently controlled zones.
- It should have touch screen LCD for standalone operation
- Onboard memory for storage of at least 1500 - 2000 runs with 10 GB storage capacity.
- Both 0.1 and 0.2 mL tube can be used and can be run by individually, by 8 tubes strips and/or 96 well plate.
- The minimum reaction volume should be of 10–30  $\mu$ L/10–100  $\mu$ L for 0.1/0.2 mL block.
- The System should support the temperature range from 4<sup>o</sup>C to 100<sup>o</sup>C with block ramp more than 6<sup>o</sup>C/sec
- Thermal block should be  $\pm 0.1^{\circ}\text{C}$  temperature uniformity and  $\pm 0.2^{\circ}\text{C}$  temperature accuracy.
- Typical run time should be less than 40-60 minutes for 45 cycles.
- System should have six de-coupled excitation and emission filter sets to enable collection of up to 21 unique combinations of wavelengths during a single run for multiplexing five colors or above.
- No internal reference dye should be required. True 5 Color Multiplexing with use of 5 different flourophores without the need of addition of any internal reference dye
- The system should utilize a bright white LED source, excitation by LED light source with more than 5 years lifespan and detection by CMOS/CCD with whole plate imaging and detection.
- The system should be factory calibrated for different dyes i.e. FAM/SYBR Green, VIC/JOE/HEX/TET, ABY/NED/TAMRA/Cy3, JUN, ROX/Texas Red, Mustang Purple, Cy5/LIZ, Cy5.5dyes etc.
- The system should be able to do various qualitative and quantitative applications such as Gene Expression, Genotyping, Copy Number Variation, Pathogen Detection, Strain Typing, and Viral Load, Mutation Scanning, Methylation and other Epigenetic Applications, miRNA profiling, Protein analysis with proximity ligation assays and Protein Thermal Shift technology etc.
- Single-plate analysis can performed absolute and relative gene expression, SNP genotyping, presence/absence, high resolution melt, multiplate analysis gene expression studies etc.
- System should detect differences in target quantity as small as 1.5-fold in singleplex reactions, and should have a linear dynamic range up to 10<sup>10</sup> logs.
- There should be continuous display of readings for fluorescence, temperature changes and progression of amplification during the run
- Provision for protocol modifications during the run and after the run which can provide more flexibility to correct or modify the manual
- During the run, the operator can open other previously run for analysis.
- The system should be 21 CFR part 11 compatible, auditing and e-signature, CE, ISO, and MIQE compliant.
- The system can be connected to the online system and instrument data/status will be automatically uploaded, allow users to access and securely share result with colleague anywhere, anytime from any location

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		<ul style="list-style-type: none"> <li>with internet access</li> <li>• System should come with laptop with data analysis software (15" Laptop with 16GB RAM, Intel core i5 processor 2.6 GHZ 250 GB hDD, Windows 10 Professional SP1 64 bit)</li> <li>• System to operate at 220V /50Hz.</li> <li>• System should be supplied with branded UPS of 1 hour back-up.</li> </ul>	
3	<u>Refrigerated Centrifuge</u>	<ul style="list-style-type: none"> <li>• <b>High capacity refrigerated Centrifuge of Max speed: &gt;22,000 g</b></li> <li>• <b>Max Capacity: 6x250 mL/4x750 mL/ 4x5 MTP</b></li> <li>• <b>Temperature range: -11°C to 40°C, which is modifiable during the running</b></li> <li>• Centrifuge must have function for fast cooling</li> <li>• Acceleration &amp; Deceleration time should be in 10-12 sec</li> <li>• Must have automatic temperature start up at a specific time to automatically pre-prepare temperature before centrifugation.</li> <li>• The system should maintain at 4°C at maximum speed</li> <li>• Provision for 10-12 different rotors (both fixed and swing) should be available</li> <li>• SOFT breaking function should available</li> <li>• System should provided key for short spin with selectable rotational speed</li> <li>• Provision for automatic off of compressor for not using 8 hours</li> <li>• Run time: 10 sec to 99:00 hour and continuous run function</li> <li>• <b>Timer countdown should be started only when selected speed is achieved</b></li> <li>• Program memory: minimum of 75 programs</li> <li>• Accessed with 5 program keys for easy access to any routine programs</li> <li>• Display between RCF and RPM speed setting</li> <li>• Noise levels: ≤ 54 dB(A)</li> <li>• Automatic motorised lid locking</li> <li>• Stainless steel chamber</li> <li>• Condensation drain should be available to eliminate water accumulation from the chamber</li> <li>• Automatic rotor recognition, imbalance detection.</li> <li>• Rotor and lid should be made up of metal (not plastic)</li> <li>• Autoclavable rotors at 121°C for 20min</li> <li>• Power supply: 230 V, 50-60 Hz</li> <li>• Must follow safety standards set by IEC 1010-2-020</li> <li>• System should be ISO, CE, IVD and IEC certified.</li> </ul> <p><b><u>Basic Rotors</u></b></p> <ul style="list-style-type: none"> <li>• Fixed angle aerosol tight rotor, 48 x 1.5/2ml tubes</li> <li>• Fixed angle aerosol tight rotor for 24 places 15 ml tubes</li> <li>• Swing bucket plate rotor for MTP, DWP, 96 well plates, PCR plates</li> </ul>	1

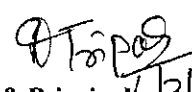
4	<b>Horizontal laminar air flow</b>	<ul style="list-style-type: none"> <li>• The Horizontal laminar air flow should be 4 feet length.</li> <li>• The standard work surface should be white, melamine-coated or Stainless steel 304</li> <li>• Front door should be transparent made up of UV insulating materials</li> <li>• Cabinet must use a pressure sensor to detect pressure drop.</li> <li>• Built in UV germicidal light</li> <li>• Cock of gas, air or vacuum line.</li> <li>• Cold rolled MS sheet body</li> <li>• The cabinet should be with stand, UV and Fluorescent light.</li> <li>• Interlock system for UV and fluorescent light. i.e. either UV tube will glow or fluorescent tube will glow.</li> <li>• Automatic device to switch of the air flow or motor when door is close</li> <li>• Clean bench should use Minipleat HEPA filters having efficiency rating as high as 99.99% with cold DOP and 99.97% with hot DOP, at the most penetrating particle size (MPPS) with no local penetration greater than 0.03%</li> <li>• Double filtered air blows in laminar flow through the work table at designed velocity of 0.45 m/s with deviation of +/- 20%</li> <li>• The clean bench must use duly balanced, direct drive motor blower system sized to provide adequate air flow volume over the entire surface of HEPA filter. There should be switch for controlling air velocity.</li> <li>• Motor should be from a reputed make and must operate with minimum noise level i.e. lower than 65 db on scale and vibration less than 2.5 um.</li> <li>• Work area properly illuminated by diffused, glare free fluorescent light. Fluorescent lighting tube intensity should be over 800 LUX</li> <li>• Port for Clean and safe routing for vacuum tubing and cables through the side of the clean bench improves organization and work efficiency.</li> <li>• The cabinet should be designed to meet class 100 (class I) requirements and CE certified.</li> </ul>	1
5	<b>Trinocular Microscope</b>	<p><b>Microscope Body:</b></p> <ul style="list-style-type: none"> <li>• Microscope for bright field, applications with LED illumination for transmitted light with 6000 K temp, 25 000 Hours life at full intensity or better suitable for bright field.</li> <li>• Revolving objective nosepiece with minimum 4 positions or better. 2 hour Auto Off provision should be available</li> <li>• Touch point of the microscope should be antimicrobial treated to reduce the growth of microorganism</li> </ul> <p><b>Focusing:</b> Built in coarse and fine focussing knobs with different focussing functions (coarse movement stroke 20mm). Fine focus graduation: 2.5 µm</p> <p><b>Condenser:</b> Condenser for Bright field Application</p> <p><b>Objectives:</b> Suitable for above mentioned bright field techniques and 2x, 4x, 10x , 40x and 100x (oil immersion)</p> <p><b>Eye piece:</b> Pair of eye piece 10x with 20 mm field number (anti-fungal) of view and dioptr adjustment for both eyes.</p> <p><b>Observation tube:</b> Trinocular tube</p> <p><b>Stage:</b> Mechanical XY stage with coaxial XY drive and with provision of both left and right hand operation</p> <p><b>Camera:</b> Scientific CCD/CMOS camera for scientific sample and slide imaging. Image resolution of 12 MP or more; High definition live image; Live resolution up to 60 fps. There should be option for file format of output like TIFF, .JPG, .Pdf etc.</p>	1

		<p><b>Software:</b> Licensed imaging software for image analysis and should be compatible for all windows. Various measurements can be performed like circle, line, square of area of interest etc.</p> <p><b>Others:</b> Valid European CE/FDA and ISO certifications of the quoted model should be submitted.</p>	
6	<b>Fluorescence Microscope with Camera and Imaging software</b>	<p><b>Microscope Body:</b></p> <ul style="list-style-type: none"> <li>Automated microscope for brightfield, and fluorescence applications with LED illumination for transmitted light with minimum lamp life of 50000 hours or better.</li> <li>Should have integrated compensation mechanism to eliminate any focus drift during long term observation to ensure consistent sharp image.</li> <li>Built in coarse and fine and medium focusing knobs, 3 step focusing.</li> </ul> <p><b>Nose Piece:</b> Automated objective nosepiece with minimum 6 positions or better</p> <p><b>Observation tube:</b> Wide field trinocular observational tube with 0/100 beam splitter for acquiring maximum signals</p> <p><b>Mechanical Stage:</b> Hard ceramic coated Mechanical XY stage with coaxial XY drive and provision for both right and left hand operation</p> <p><b>Condenser:</b> Automated Switchable condenser for observation from 2X to 100 X</p> <p><b>Eye piece:</b> Pair of eye piece 10X with 22-25 mm field of view and dioptre adjustment for both eyes.</p> <p><b>Objectives:</b> High Resolution Objectives: Plan2x/0.10, Plan4x/0.10, Plan10x/0.25, Plan 40x/0.65 FL and Plan 100x/1.32FL (oil immersion).</p> <p><b>Fluorescence Illumination:</b></p> <ul style="list-style-type: none"> <li>At least 14 watt LED based fluorescence illumination with minimum lamp life of 20000 hours or better.</li> <li>Fluorescence filter turret with minimum 5 positions or better.</li> <li>Light preset switch for constant voltage of light and light intensity LED indicator.</li> <li>The unit should be controlled by same imaging software,</li> <li>Should include LED Wavelength for UV, Blue, Green, Yellow and Red excitation.</li> <li>Pixel shift corrected fluorescence filters for DAPI/Hoechst, FITC/GFP and TRITC/Rhodamine/Cy3.</li> </ul> <p><b>Camera:</b></p> <ul style="list-style-type: none"> <li>Monochrome &amp; Color</li> <li>Resolution: 5 MP or more</li> <li>Resolution (HxV) – 2560px X 1920px.</li> <li>Peltier cooled scientific CCD</li> <li>Frame Rate: 18 fps or more</li> <li>Pixel bit depth: 12-bit.</li> <li>Pixel Size (HxV): 3.4µm X 3.4µm.</li> </ul> <p><b>Imaging Software:</b></p> <ul style="list-style-type: none"> <li>Should be licensed imaging software for fluorescence multichannel acquisition, image analysis, Intensity measurements, counting, line profile, spatial measurements such as length, width, area, perimeteretc.</li> <li>All images stored should be of conventional format: jpg and/or tiff and/or PDF</li> </ul> <p><b>Data Processing Unit:</b></p> <ul style="list-style-type: none"> <li>Branded PC with i5/i7 processor</li> </ul>	1

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		<ul style="list-style-type: none"> <li>• Minimum 8 GB RAM</li> <li>• Original Windows 10 Operating System 64 Bit ENG</li> <li>• NVIDIA graphics card with 2 GB, RAM 4GB</li> <li>• Hard drive 500GB 7200 RPM or higher,</li> <li>• DVD RW, at least 24" monitor, keyboard and optical mouse</li> <li>• Laser printer, compatible with Window 10 OS, Print quality for Black (1200x1200 dpi) and Print quality for color (1200x600 dpi)</li> </ul> <p><b>Others:</b></p> <ul style="list-style-type: none"> <li>• There should be valid European CE/FDA and ISO certifications of the quoted model</li> <li>• Should be supplied with branded UPS with backup of 30 minutes</li> <li>• After installation, the selected company/suppliers will provide minimum of 2 days training programme for handling of the equipments and image analysis.</li> </ul>	
7	<b><u>Vortex mixers</u></b>	<ul style="list-style-type: none"> <li>• An extremely sturdy and reliable unit - ideal for extended use in research and clinical labs, User friendly</li> <li>• System should provide with 3 attachments for shaking tubes, flasks and micro centrifuge tubes.</li> <li>• System should have speed regulator &amp; switch for constant on &amp; touch on.</li> <li>• Maximum speed up to 3000 RPM</li> <li>• Should have heavy metal base &amp; rubber feet for preventing movement of the shaker during use.</li> <li>• There should be valid CE and ISO certifications.</li> </ul>	2
8	<b>Digital Dry Bath with accessories</b>	<ul style="list-style-type: none"> <li>• Dry block for excellent mixing performance and excellent temperature control for better reproducibility</li> <li>• Should be user friendly and should be equipped with USB interface, short spin, temperature/time mode, pause function etc.</li> <li>• Interchangeable blocks for 1.5ml, 2.0ml tubes, 4 slides (for Hybridization experiments) MTP plates, test tubes, Falcon tubes and PCR tubes.</li> <li>• Thermoblocks should be varied and compatible to 24x0.5 mL, 24x1.5 mL, 24x2 mL, 8x15 mL falcon tubes, 4x50 mL falcon tubes, MTPs, Deep well Plates and PCR Plates etc.</li> <li>• Peltier element heating and counter-cooling facility.</li> <li>• System should have facility to set time, temperature and mixing frequency</li> <li>• Temp range: 15°C to 100°C,</li> <li>• The temperature can set from 1°C (lowest) to 100°C (highest)</li> <li>• Temp accuracy should be ±0.5°C at 20-45°C</li> <li>• Max Heating rate should be &gt; 6°C/min</li> <li>• Max cooling rate should be 2.5°C/min between 100°C to room temperature</li> <li>• Mixing speed: 300-1500 RPM</li> <li>• Timer: 15 sec to 99:30 hours, also continuous mode.</li> <li>• Mixing orbit: 3 mm</li> <li>• System should have provision for short mixing</li> <li>• System should be equipped with thermo top to avoid evaporation with heated lid.</li> <li>• System can stored a minimum of 20 programs.</li> <li>• Device control and documentation according to GLP over RS 232 Interface</li> <li>• Thermoblocks to be quoted as basic accessories of 24 x 1.5 mL block</li> <li>• There should be valid CE and ISO certifications.</li> </ul>	1

9	<b><u>Variable Micro Pipettes</u></b>	<ul style="list-style-type: none"> <li>• Should be ultralight weight mechanical pipette</li> <li>• Four-digit display with display window facing user with 2 button operations</li> <li>• Should have a provision to adjust the pipette for better accuracy for using difficult liquids or high-density liquids. Also, it should be adjusted back to factory setting without any calibration.</li> <li>• Should have quick connection clip to remove the lower part easily</li> <li>• Pipette Piston made of biopolymer Fotron which is highly resistant to heat, acids and alkalis, mildew, bleaches, aging, sunlight and abrasion</li> <li>• Should have very low tip ejection force – 3.6N</li> <li>• Spring loaded tip cone for minimal tip attachment forces to reduce the stress during pipetting.</li> <li>• There should be volume adjustment with few turnarounds from maximum to minimum volume.</li> <li>• Viable calibration seal to indicate factory calibration not changed</li> <li>• Whole pipette or the lower part only can be sterilized and can withstand the sterilization at 121°C for 20 min.</li> <li>• Upon UV irradiation, there should not be any discoloration of pipettes</li> <li>• Each pipette should be supplied with an autoclavable Tip Box and respective suitable 96 TIPS</li> <li>• TIPS Box and TIPS can be autoclaved at 121°C for 20 min</li> <li>• Ranges required : <ul style="list-style-type: none"> <li>○ 0.1-2.5 ul</li> <li>○ 0.5-10 ul</li> <li>○ 2-20 ul</li> <li>○ 10-100 ul</li> <li>○ 20-200 ul</li> <li>○ 100-1000 ul</li> </ul> </li> </ul>
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 Dean & Principal 6/3/21  
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 M.K.C.G. Medical College  
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