

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



SECTION -I

NOTICE INVITING TENDER

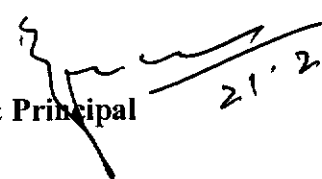
Tender Reference No. MKCG/2018-19/WELFARE

Dated:

TENDERS ARE INVITED FROM ELIGIBLE BIDDERS AS PER THE ELIGIBILITY CRITERIA FOR MEDICAL EQUIPMENTS FOR MDRU

1	Period of Availability of Tender Document	From <u>23.2.2019</u> (date) to <u>15.3.19</u> (date) [Downloadable from website: www.mkcgmch.org 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	Date: <u>15.3.19</u> , Time: up to 5 pm Address of Submission of Bid: The Dean & Principal, MKCG Medical College Berhampur, Odisha, India (Through Speed post / Registered post only)
3	Date, time and place of opening of Tender	a) Technical Bid (Cover A) opening: <u>15.3.19</u> , 5 P.M (time) at the address mentioned above. (Postponed incase of unavoidable Circumstances) b) Financial Bid (Cover B): <i>The date of opening of financial bid will be intimated to the firms found successful in the technical bid evaluation.</i> (The Venue is mentioned above) (Bidders / authorized representative may remain present at the time of opening of bid)

Dean & Principal


21.2.19

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 MDRU.
4.	Delivery Period	Within 60 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) <i>years</i> 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)	Note: The bidder may quote for any or all the equipment by submitting the required EMD 2% for that equipment. 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.



10.	Pre-qualification (Eligibility Criteria)	<p>A. Manufacturing units / Importers are eligible to participate in the tender provided, they have</p> <ul style="list-style-type: none"> (i) Import License (In case of Importer only) (ii) Valid ISO certificate. (iii) Product must be ISI /CE / US FDA/IEC etc certified if specified in Technical Specification (Section IV) (iv) Tenderer (Manufacturer/Importer) should have proof of supply of equipment(s) 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 supported by audited balance sheet/Annual Report. <p>B. Authorized distributors on behalf of the manufacturer are eligible to participate in the tender provided:</p> <ul style="list-style-type: none"> (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 Annexure VI supported by audited balance sheet/Annual Report. (ii) In addition to this, the distributor shall also submit the average annual turnover of the manufacturer/importer of the item (s) as mentioned in A (v) above. (iii) They should submit manufacturer's authorization to transact business on behalf of the manufacturer as per the format at Annexure - V. (iv) 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) (v) The authorized distributor will submit the following documents in support of the manufacturer along with the tender : (vi) Valid ISO certificate Valid ISI / BIS European / CE / US FDA / IEC certificates of the manufacturer is specified in technical specification (Section V) <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 DIFFERENT DEPARTMENT

- 1.1 Sealed tenders will be received till 15.3.19 (date) upto 5pm (time) 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 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 envelops 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 MDRU.**"
- 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 15.3.19 (date) at 5 P.M (time). 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.**



- (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 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) In addition to this, the distributor shall also submit the average annual turnover of the **manufacturer/importer** of the item (s) as mentioned in 2.1 (v) & (vi) above.
- (iv) 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).
- (v) 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.
All the photocopies are to be attested by a Notary Public / Gazetted Officer



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 Rs2000/- 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 filledup)
- 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). In case of authorized distributor, they will also have to submit the average annual turnover the manufacturer/importer of the item(s).
- 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 and certificate from the user 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.1 Crore or more for preceding 3 financial year (for Manufacturer / Importer) or Rs.1 Crore 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)
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 per technical specification)
17	Photocopy of PAN
18	Photocopy of GST clearance 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 (ies)
- 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.

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” / “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 & XII)

- 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.
- 17.3 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 88 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 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 taking 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.

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 HOD of corresponding department



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.

CONDITIONS APPLICABLE TO LOCAL MSEs / SSI OF ODISHA:

The MSE / SSI Units of the State of Odisha will be given the following preferences in the tenders provided they produce the following documents as per MSME Development Policy-2009 and IRP - 2007:

- 23.1 Attested copy of valid manufacturing licence.
- 23.2 P.M.T Certificate from the Director of Industries, Odisha or General Manager District Industries Centre that it is a MSE / SSI Units of the State of Odisha, provided that MSE / SSI units has not been derecognised by the Govt. for that specified period.
- 23.3 Local Micro & Small Scale Enterprises (MSE) and Khadi & Village industrial units including handloom and handicrafts will enjoy a price preference of 10% vis- à-vis over local medium and large industries as well as industries outside the State. Local Micro & Small Scale Enterprises having ISO, ISI Certification for their product shall get an additional price preference of 3% as per provision of IPR-2007.
- 23.4 Local MSEs registered with respective DICs, Khadi, Village, Cottage and Handicraft Industries, OSIC, NSIC shall be exempted from payment of earnest money and shall pay 25% of the prescribed performance security deposit.
- 23.5 Clause number 1 to 22 is also applicable to the Small Scale Industry Units of the State of Odisha



(Refer Clause No. 3.1)

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**

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.1 Crore or more for preceding 3 financial year (for Manufacturer / Importer) or Rs.1 Crore 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	
15	Attested Photocopy of Up-to-date CE/US FDA / BIS	Page		Yes		No	

	Certificate (Item wise) (As per technical specification)	No				
16	Attested Photocopy of Up-to-Date IEC Certificate (Item Wise) (As per technical specification)	Page No		Yes		No
17	Photocopy of PAN	Page No		Yes		No
18	Photocopy of GST clearance 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



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:



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	EMD 2 % Amount (Rs.)
	TOTAL (Rs.)	

Signature of the Tenderer :

Date :

Official Seal:



Annexure III

(Refer Clause No. 3.5)

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

DETAILS OF THE TENDERER & LOCAL CONTACT PERSON

	Corporate Office (The address in which the purchase orders and payment details will be communicated)	Local Contact Person / Branch Office / Zonal Office / Service Centre if any, in Odisha.
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 :



ANNEXURE – IV

(Refer Clause No. 3.6)

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

DECLARATION FORM

I / Wehaving My /
ouroffice
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.



ANNEXURE – V

(Refer Clause No. 2.2(i))

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)



ANNEXURE – V

(Refer Clause No. 2.2(i))

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**)



ANNEXURE – VI

(Refer Clause No. 3.8)

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

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.	2015-2016	
2.	2016-2017	-
3.	2017-2018	-

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

Date:

Signature of Auditor/

Place:

Chartered Accountant

(Name in Capital)

Seal



ANNEXURE – VI

Membership No.-

Registration No. of Firm

Note:

- a) *To be issued in the letter head of the Auditor/Chartered Accountant mentioning the Membership no.*

- b) *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. The authorized distributor has also to furnish his turnover statement in the above format.*



(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*)

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



(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					
2					
..					
..					

* 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



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) Liquid Nitrogen Storage System on turnkey basis (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**



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)	CMC (excluding Service Tax) for five years after expiry of five years warranty period (please mention on yearly basis)	**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)	Total Cost with CMC (Exclusive of CST/GST & ET) (In Rupees)	***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.)	In Case of GST, pl. Mention whether GST is payable to Govt. of Odisha (Yes/No)
1	2	3	4	5	6=3+4+5	7	8

* 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 7 above.

Date :

Place :

1. 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.
2. The tenderer has to mention the make / brand, specification, warranty of all the items in turn key.

ANNEXURES

**(Agreement, Warranty and CMC
Undertaking)**

A handwritten signature or mark, possibly a stylized 'Z' or 'S', located at the bottom center of the page.

ANNEXURE – X

(Refer clause no. 7.1.2)

AGREEMENT

THIS AGREEMENT IS MADE AT _____ THIS THE DAY OF _____ 2019

BETWEEN

Name of the
Supplier with full
address

Here in after called the “Supplier(s) _____” as 1st Party

AND

Dean & Principal,, MKCG Medical College, Berhampur

herinafter called the “PURCHASER” _____ as 2nd 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 2nd 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.

Description of goods

Qty

Price

Total



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).



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.

Up time guarantee - $0.95 \times 8760 \text{ hrs.} = 8322 \text{ hrs.}$ per annum. For 5 years warranty = 8322 x 3 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 FIVE 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.

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 8th 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.

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 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
In presence of (Witness)

Executed by Supplier(s)
In presence of (Witness)



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

Dear 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.
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

Signature of the Tenderer

Name & address

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.



(SECTION-IV)

SPECIFICATION


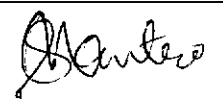
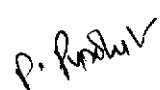
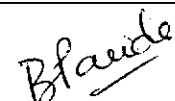
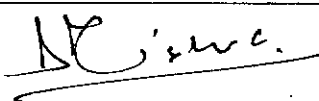
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Professor & Head
Dept. of Pathology
M.K.C.G. Medical College
Berhampur-Gm.

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SN	NAME OF EQUIPMENT	QTY	Specification
1	Thermocycler	1	<p><u>Thermocycler :</u> <u>Specifications</u> 1. System should have with Dual 48 well block to run 2 different protocols same time. 2. System should have interchangeable block 96 well block with 0.2ml tubes, Strips and 96 Well PCR Plate. 3. Heating Rate: 5°C/s & Cooling Rate: 4°C/s with temp. Accuracy: ± 0.1°C; Temp. Uniformity : ±0.2(30-72°C,10s)/±0.3(90°C,10s); Temperature range : 0-100°C with 0.1°C min increment 4. Heating Rate: 5°C/Sec & Cooling Rate: 4°C/s 5. System should have Gradient Temp. Range 1-30°C in each block without sacrificing uniformity in each block with temperature range 30-100°C. 6. System should have adjustable hot lid technology to reduce evaporation. Hot Lid temp. range 30-110°C (Adjustable Default 105°C) 7. The System should have a Display Size 8 inches with Display Type Full Touch LCD. 8. Sample Volume should be 5-100 µL. 9. System should have On board Tm calculator facility to approximate the optimal annealing temperature. 10. System should have Built-in standard program file templates; can quickly edit the required files. 11. System should have Choice of saving the methods up to 10000 to the instrument or unlimited to a USB memory stick. 12. The system should have the ability to store methods on a memory stick. 13. System should have capability to interlink up to 11 PCR systems via single Ethernet hub. 14. The system should have a USB port to transfer methods from one machine to another. 15. The system should allow easy product updates via USB port. 16. The system should have Auto restart option in event of Power failures. 17. Other Features: Gradient Calculator, Tm Calculator, Log Book, Email Notifications, Login facility</p>
2	Gel Documentation System	1	<p><u>Systems</u> Gel Documentation System ; a wide front door ; slide-in/out tray for easy handling of gels ; high intensity UV source (mid range) ; cool white LED for high performance Camera : Basic Specifications Camera model Digital Camera, Preferably name: Nikon Coolpix Resolution: More than 16 Megapixels Sensor size: 1/2.3 inch (6.2mm x 4.6mm) Lens: Pl. Refer camera manual for more information.) (Note: If customer prefers any other SLR model, extra charges will be added to the price) Work Station :</p>

SN	NAME OF EQUIPMENT	QTY	Specification
			<p>Sturdy MS Cabinet - housing the following, Dimensions (LBH in cm) : 40 x 39 x 40 Weight : 21 kg. Sliding Tray : for easy handling of gels Transillumination, (UV) Filter area (Quartz) : 20 x 20 cm UV source – Eight - 8W - 302 nm) UV blocking cover for UV Protection. White Light - Foldable :- for Uniform –Cool light, capturing images of all stained gels Source – LED Area – 20 x 20 cm Watt – 24, 6500K ID Gel Analysis software (Basic) Image acquisition Image refinement – crop – rotate – smooth – brightness – contrast Lane formation – Auto – manual Band detection – Auto – Manual Rf, MW, BP determination Quantitative analysis Report generation and presentation. Advance options : Image acquisition Image refinement – crop – rotate – smooth – brightness – contrast Lane formation – Auto – manual Band detection – Auto – Manual Rf, MW, BP determination Quantitative analysis Report generation and presentation. With additional features like, Dendrogram / Phylogenetic tree. Similarity – dissimilarity Jacard / UPGMA analysis.</p>
3	Sub-marine gel electrophoresis with Gel casting tray 9diff size)	1	<p>Specifications:-. The unit includes buffer chamber, safety lid with cables. UV transparent tray and one each of 1.5 mm thick 8 and 15 well comb, casting tray size 7x10cm Midi Submarine Gel Electrophoresis Unit Specifications:-. The unit includes buffer chamber, safety lid with cables. UV transparent tray and one each of 1.5 mm thick 15 and 20 well comb. Casting Tray size 15x10cm Electrophoresis Power Supply Unit Specifications:-. This unit can be used with submarine and mini vertical electrophoresis unit. It can run two units at constant voltage or constant current with maximum output of 300V, 400 mA and 80 Watts. Time can be set in 1 minute increment or continuous mode</p>

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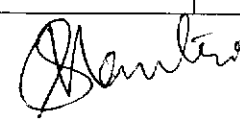
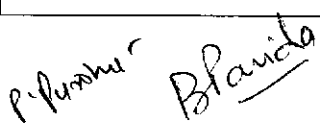
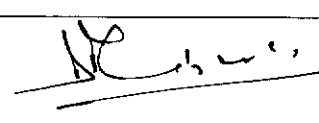
SN	NAME OF EQUIPMENT	QTY	Specification																								
4	Spectrophotometer (Nano Drop)	1	Optical System Double beam Wavelength Range 190 – 1100 nm Spectral Bandwidth 1 nm Wavelength Accuracy + 0.3 nm Wavelength Repeatability < 0.1 nm Photometric Range 0 – 200 %T ; -3 to 3 Abs. Operating Mode %T, Abs., Conc. & Energy Scanning Speed Fast, Medium & Slow Wavelength Setting Auto Display 10.1" TFT Colored Capacitive Touch Screen Light Source Imported Deuterium Lamp & Tungsten Lamp Detector Silicon Photodiode Output USB Host / USB Drive / RS 232 / SD Card Power AC 220V/50Hz																								
5	Microcentrifuse (40C) 36 Places	1	Technical Specifications Maximum RPM 15,000 Maximum RCF 21,124g Maximum capacity 30 x 1.5 / 2.0 ml, Time control Pulse, timed < 100 min or continuous RPM to RCF conversion Yes Noise level (dB) ≤ 56 dB Acceleration/ Declaration (Sec) 5/6 steps Program memory 100 Imbalance cut off Yes Display Blue LCD Safety lid Lock Yes Lid drop protection Yes Automatic door release at completion Yes Power supply (V/Hz) 220V/50-60 Hz(110V optional) Power requirement (VA) 2.0 Dimension (W x D x H, mm) 310 x 620 x 265 Weight without rotor (Kg) 43kg CE mark Yes Temperature range (°C) -20 to +40 Fast Cool Button Yes Rotor Identification Automation Rotor & Accessories: Fixed angle rotor, 30 x 1.5/ 2.0 ml 45 degree Whole diameter 11.1mm. Max. height of tube fit 56mm Supply with aerosol tight O-ring. <table border="0"> <tr> <td>Tube capacity</td> <td>0.2ml</td> <td>0.5ml</td> <td>1.5/2.0ml</td> </tr> <tr> <td>Adopter</td> <td>Yes</td> <td>Yes</td> <td>None</td> </tr> <tr> <td>Adopter Bore(Φ x L, mm)</td> <td>6.5 x 23 mm</td> <td>8 x31 mm</td> <td>none</td> </tr> <tr> <td>Radius</td> <td>67/79mm</td> <td>73/86mm</td> <td>84.3/96.4mm</td> </tr> <tr> <td>Max. RPM</td> <td>17,000/14,000</td> <td></td> <td></td> </tr> <tr> <td>Max. RCF</td> <td>21,648/17,311</td> <td>23,910/18,845</td> <td>27,237/21,124</td> </tr> </table>	Tube capacity	0.2ml	0.5ml	1.5/2.0ml	Adopter	Yes	Yes	None	Adopter Bore(Φ x L, mm)	6.5 x 23 mm	8 x31 mm	none	Radius	67/79mm	73/86mm	84.3/96.4mm	Max. RPM	17,000/14,000			Max. RCF	21,648/17,311	23,910/18,845	27,237/21,124
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6	Vertex Mixture	1	Compact, Rugged Construction. Heavy metal base & rubber feet prevents movement of the shaker during use Choice of continuous & touch mode Variable speed control Maximum speed 3000 RPM Includes one hand insert, micro tube insert & cup attachment																								

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SN	NAME OF EQUIPMENT	QTY	Specification
7	pH meter	1	Bench Top pH meter : pH Meter with pH electrode integral electrode and 100/240 VAC adapter pH Range : -2.00 to 16.00 pH Resolution : 0.01pH Accuracy : ± 0.01 pH Cal. Point : upto 5
8	Microcentrifuse for 0.2 to 0.5 ml tube	1	Specifications:- Max.RPM/RCF 13500 / 12,300 x g Max. Capacity 12 x 1.5/2.0 ml, 4 x 8 tube PCR Strips or 32x0.2ml PCR tubes. Time Control Pulse or timer < 30 mins RPM/RCF conversion yes Noise level (DB) < 56 Acc/Dec (sec) < 12 / <16 Display Blue LCD Safety Lid Lock Yes Lid Drop Protection Yes Automatic door release at completion Yes Power Supply (V/Hz) 220/50 Power requirement (VA) 110 Dimension (W x D x H) 208 x 245 x 145 mm Weight without rotor 4.4 kg
9	Waterbath	1	At Medica Instrument, laboratory water bath are manufactured in India with high-quality stainless steel that provides excellent durability and easy maintenance. We make use of an internal element submerged under the RTD sensor connected to a digital temperature controller that can be set to 0.1 degrees Celcius. Our water baths are supplied along with a perforated tray which covers the elements and even allows circulation of the content of the bath Features of our Unstirred Water Bath: <ul style="list-style-type: none"> • Dual display for reading actual and set temperature • Microprocessor based PID controller • Easy to install and operate • Precisely stable temperature for repeatable results • Compact space saving design for minimal space usage Applications of Stirred Water Bath: Our build water baths are ideal for constant temperature application in Polarimetry, Refractometry, and Rotational Viscometry. <ul style="list-style-type: none"> • Suitable for biotechnological laboratories for culture applications and general lab works • Calibration • Incubation • Sample Thawing • Freezing of samples for Impact testing • Warming reagents Our company is engaged in the sphere of manufacturing an unending range of water bath that has been manufactured with the latest technology and innovations. We are being appreciated in Indian as well as the International market. Our products are used in various laboratory research and experiments. Our wide range of products includes constant temperature water bath, serological water bath, low-temperature water bath, stirred water bath and others.

SN	NAME OF EQUIPMENT	QTY	Specification
10	Magnetic Stirrers with Hotplate	1	Specifications:-Dimension 18x18 cm acid and alkali resistant ceramic top,heating range 50-500 degree C,max withstanding load 11kg,Stirring speed range 100-1200 RPM,max stirring capacity 5ltr.Having overall dimension 32x24x12cm and power of 240V,50Hz,4.7Amp and 1115 watt
11	Microoven	1	Features : - 54 standard cook menu, Digital Clock, 5 power level, child safety lock, Gril with combitech (2 options (Conversion with combitech, double grill function, weight defrost, auto reheat, quick start, multistage cooking, overheating protection, delay start. Sensor :- Mall function protection, Cooking features :- Capacity : 25 Ltr. Colour :Mattlic Silver Outer diamention : 294x483x440 mm (HxWxD)
12	Hemoglobin Gel electrophoresis system with tank	1	Specifications:- . The unit includes buffer chamber, safety lid with cables. UV transparent tray and one each of 1.5 mm thick 15 and 20 well comb. Casting Tray size 15x10cm The power supply unit can run two units at constant voltage or constant current with maximum output of 300V, 400 mA and 80 Watts. Time can be set in 1 minute increment or continuous mode
13	a) Minicold lab, - Freezer (-20 Deg)	1	Freezer (-20⁰C) <ol style="list-style-type: none"> 1. Upright freeze 2. Capacity 340-350L 3. Suitable for routine laboratory works in non-regulated environments 4. Double wall, steel with powered coated, rust free 5. Inner with non-corrosive materials 6. Temperature: -18⁰C to -22⁰C, easily changeable by authorized personnel. 7. Fastest temperature recovery time (within 5 minutes) following opening and closing of door 8. Hermetically sealed noise less compressor, CFC free refrigeration system, 9. High and low visual temperature and audio alarms 10. Lock and Key for door for unauthorized opening. 11. Excellent Temperature holding time during power Failure 12. Defrost facilities 13. Air-tight door gasket 14. At least 8 compartments or more. Feasibility of both shelves and draw, Washable 15. Dimension: Approximately of 75Hx25Wx25D 16. Power supply: 220-230V; 50Hz, single phase 17. Others: with 1KVA stabilizer

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SN	NAME OF EQUIPMENT	QTY	Specification
	b) Deep Freezer-86 Deg C	2	<p><u>Insulated Deep Freezer (600 L Capacity) -86°C</u></p> <ol style="list-style-type: none"> 1. Upright ultralow freezer 2. Capacity of 600 litres, 3. Dimension : 1300Hx600Wx700D interior and 2000Hx 800W x1000D of external dimension 4. Can be use for laboratory freezing of enzymes, chemicals reagents, nucleic acids etc 5. Made up of scratch and corrosion-resistant, high grade, polished stainless steel 6. Air Filter: Front-mounted; to be easily accessed by 1/4 turn screws 7. Temperature: Microprocessor-controlled temperature with alarms, non-volatile memory programmable, -30 to-86°C (input range -20 to -100°C) in 1°C increments at ambient temperature of 30°C. 8. Display: Large, bright, digital LED characters, easy viewing 9. Remote Monitoring system 10. Dual Gasket sustem, pressure equilizating door locking and opening, Lock and Key for outer doors/lids 11. Security features: 4-6-Digit Password for temperature set point and alarms, to prevent unauthorized changes, 12. Battery Back-up for activating alarms and to display temperature during power failure. 13. Separate switching system for cleaning, servicing, thawing of freezer. 14. Compressor: CFC-free and HCFC-free, Low-noise, heavy-duty, Reduced power consumption, 15. Compressor Lubricants: Biodegradable and commercially available, high-performance, synthetic polyolester oil. 16. Auto air filters 17. At least five compartments with at least 10 adjustable-heights, stainless-steel shelves, washable, 18. Defrost: Activates alarms and displays temperature 19. Accessories: Rack, box , divider & CO2 back up system should be quoted optionally. 20. Power requirement: 220-230 V , 50 Hz , single phase.

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SN	NAME OF EQUIPMENT	QTY	Specification
	c) 4Deg Refrigerator (1000 Ltrs)	1	4°C REFRIGERATOR (1000lts) <ol style="list-style-type: none"> 1. Capacity: 950-1000 liters 2. Upright Freezer 3. Temp. Range: 0°C to 10°C 4. Suitable for routine laboratory works in non-regulated environments 5. Double wall (glass or steel), steel with powered coated, rust free 6. Forced Air cooling facilities 7. LED display 8. Puff insulation 9. Digital Display of temperature 10. Dimension: Approximately 45W x 30 D x 75 H 11. At least 10 shelves, easily removable, washable 12. Door Lock facility for unauthorized handling. 13. Air tight gasket 14. Defrost system 15. Wheels for easy transfer 16. Power supply: 220-230V; 50Hz, single phase 17. Others: with 1KVA stabilizer
	d) 4Deg Refrigerator (400 Ltrs)	1	4°C REFRIGERATOR (400lts) <ol style="list-style-type: none"> 1. Capacity: 400 liters 2. Upright Freezer 3. Temp. Range: 0°C to 10° C 4. Suitable for routine laboratory works in non-regulated environments. 5. Steel with powered coated, rust free 6. Forced Air cooling facilities 7. Digital Display of temperature 8. Dimension: Approximately 25W x 25 D x 75 H 9. At least 4 shelves, easily removable, washable 10. Door Lock facility for unauthorized handling. 11. Air tight gasket 12. Defrost system 13. Wheels for easy transfer 14. Power supply: 220-230V; 50Hz, single phase
14	Water purification System (millipore with pre purification &softener	1	<ol style="list-style-type: none"> 1. System should produce [ASTM Type 1] and analytical grade (ASTM D1193 - 06) water directly from tap water feed. 2. System feed water: Potable (as per WHO, EC, EPA and ISO) tap water- <ol style="list-style-type: none"> a. Conductivity: 10- 2000 μS/cm @ 25°C b. Hardness: < 300 ppm (as CaCO3) c. pH: 4 to 10 d. Fouling Index: upto 12 e. Temperature: 2 to 35 °C f. Free Chlorine: upto 3 ppm

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SN	NAME OF EQUIPMENT	QTY	Specification
			<ol style="list-style-type: none"> 3. System should include a OEM made pre-filter to take care feed water with TDS as high as 5000 ppm & SDI up to 50. 4. Iron Removal Filter must be from OEM and having the backwash and rinse facility, capacity should be upto 400 L/Hr and which can take care up-to 4 ppm of Iron contamination. 5. Main System should contain three Stage pre-treatment cartridge, include silver imprinted activated carbon which prevents the proliferation of Bacteria present in tap water and anti-scaling compound compounds must to eliminate hardness and protect the RO membrane against oxidation, scaling and plugging. 6. High flux thin film composite polyamide RO membrane (MW>200 Dalton) with 95- 99% rejection 7. RO pressure, RO water quality, RO membrane efficiency (% ion rejection) should be seen on display 8. Conductivity cells before and after the RO Membrane and should have high recovery loop with capillary tube and diaphragm valve to reduce the wastage of feed water. 9. Auto regenerated Electro deionization module with Carbon beads at cathode. 10. EDI (Electro-deionisation) module should not require softening pre-treatment. 11. Coaxial resistivity cell with 0.01cm⁻¹ cell constant for optimum measurement accuracy as required by ASTM® D 1125-95 and comply USP <645> 12. To avoid maintenance errors and to improve traceability, the internal water purification cartridges should have a built-in RFID [Radio Frequency identification] tag. 13. Large built-in display with Auto diagnostic facility ensure real time various Error Number and Alarm Code for complete traceability. 14. 50L reservoir with air sanitization kit to store product ensuring the water quality 15. Optional data management and monitoring software ensure real time data reliability, traceability, and access to system history, needed for various world class accreditation. 16. To ensure water quality minimum 3 Nos of conductivity and resistivity cell 17. Application Specific cartridges to remove ionic and organic contaminants to trace levels 18. Cartridge must attach to the water system without treaded fittings, screws, clamps, or locking tabs 19. Optional 17watt, low pressure mercury vapor lamp made of ultrapure quartz with dual wavelength (185 and 254nm). The lamp has an electro polished 316L ss housing 20. To prevent deterioration of water quality during periods of non-use, the ultrapure water system will be able to recirculate water to maintain high water quality. 21. Auto regenerated Electro deionization module with Carbon beads at cathode. 22. Optional point of delivery unit with <ol style="list-style-type: none"> a. Adjustable height and rotating arm-adjustable to any

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SN	NAME OF EQUIPMENT	QTY	Specification
			<p>glassware.</p> <p>b. Multi-color monitor displaying: resistivity, level of water in reservoir, volume dispensed and other alarms, to be directly accessible from the point of delivery unit</p> <p>23. Point of delivery unit with the polishing filters at the point of use. Final Filters Options:</p> <p>a. Pharmaceutical grade, final filter with 0.22micron membrane filter in stack disc configuration,</p> <p>b. UF cartridge at the collection end with LRV is between 5.6 and 7.65 over challenge range of 220 and 22000 Eu / mL.</p> <p>c. Specific filter to remove volatile organics.</p> <p>d. Specific filter for trace organic applications.</p> <p>24. Product water quality [TYPE II] (Analytical Grade): Resistivity : 10-15 MΩ·cm @ 25° C TOC : <30 PPb Product water delivery : 3L/hr Silica Rejection : > 99.9%</p> <p>25. Product water quality [ASTM Type I] Resistivity : 18.2 MΩ·cm @ 25° C TOC : <10 PPb Bacteria : < 0.1cfu/ml Product water delivery : >1.5 L/min Pyrogen Levels (EU/mL) : <0.001 RNase Level (ng/mL) : < 0.01 DNase Level (pg/μL) : < 4</p> <p>26. Mandatory Requirement:</p> <p>a. Minimum 50 Installation in the Same State</p> <p>b. Minimum 10 appreciation letters from any government organization in India.</p> <p>c. Service should be directly from the manufacturer's engineer, provide contact details.</p> <p>d. Warranty – One Year.</p> <p>27. Quality Certifications- The system is designed to produce ultrapure water in agreement with the quantitative specifications of Type I water as described in- ISO 3696, ASTM D1193, and of EP and USP Purified Water, as well as the CLSI® - CLRW. ISO 9001 v. 2000- and ISO 14001-registered manufacturing site - Certificates are available upon request.</p> <p>CE, cUL, FCC - To ensure efficiency and safety of operation, the system is certified for safety and electromagnetic compatibility</p>
15	Autoclave	3	<p><u>Autoclave SLEFA Series</u></p> <p>The EQUSTRON SLEFA series, fully automatic autoclaves are offered with unique single lever lock for lid. SLEFA series autoclaves are offered in 5 different sizes from 35 to 180 liters. These Fully Automatic Autoclaves have customized microprocessor based control system which ensure required sterilization accuracy, repeatability & safety.</p> <p>Applications:</p> <ul style="list-style-type: none"> The SLE-FA series Autoclaves are suitable for a wide range of applications wherein fast and assured sterilisation is

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SN	NAME OF EQUIPMENT	QTY	Specification																																				
			<p>required.</p> <ul style="list-style-type: none"> • Ideal for Pharma QC, QA, Micro, R&D, Chemical Plants, Bio-Labs, Water & Air Pollution Labs, Fisheries, Mineral Water Plants, Food, Beverage & Distilleries, Flight Kitchens, Mass Kitchens, Five Star Hotels, Hospitals, Nursing Homes & Specialty Doctors. <p>Advantages:</p> <ul style="list-style-type: none"> • CE Certified • Unique single lever lock for lid with single hand opening. • Microprocessor Based Control ensures repeatability & a high accuracy. • Conformance to National & International Standards. • Low water detection. • Spring loaded safety valve for over pressure. • Pressure interlock on door. <p>SPECIFICATION & ORDERING DETAILS</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Working Chamber Size (Ø x D) / Capacity</th> <th>Carrier (Ø x D)</th> <th>Gross Dimension / Weight</th> </tr> </thead> <tbody> <tr> <td>#7421SLEFA</td> <td>300 x 500 mm / 35 L</td> <td>1 of 250 x 450 mm</td> <td>820 x 620 x 1170 mm / 71 kg</td> </tr> <tr> <td>#7431SLEFA</td> <td>350 x 550 mm / 53 L</td> <td>1 of 300 x 500 mm</td> <td>870 x 670 x 1230 mm / 81 kg</td> </tr> <tr> <td>#7440SLEFA</td> <td>400 x 600 mm / 75 L</td> <td>1 of 350 x 550 mm</td> <td>970 x 720 x 1290 mm / 97 kg</td> </tr> <tr> <td>#7441SLEFA</td> <td>450 x 710mm / 113 L</td> <td>2 of 400 x 330 mm</td> <td>1020 x 770 x 1350 mm / 121 kg</td> </tr> <tr> <td>#7451SLEFA</td> <td>550 x 760 mm / 180 L</td> <td>2 of 500 x 350 mm</td> <td>1150 x 890 x 1420 mm / 150 kg</td> </tr> <tr> <td>#7423SLEFA</td> <td>300 x 500 mm / 35 L</td> <td>1 of 250 x 450 mm</td> <td>820 x 620 x 1170 mm / 72 kg</td> </tr> <tr> <td>#7433SLEFA</td> <td>350 x 550 mm / 53 L</td> <td>1 of 300 x 500 mm</td> <td>870 x 670 x 1230 mm / 81 kg</td> </tr> <tr> <td>#74403SLEFA</td> <td>400 x 600 mm / 75 L</td> <td>1 of 350 x 550 mm</td> <td>970 x 720 x 1290 mm / 101 kg</td> </tr> </tbody> </table> <p><u>Fully Automatic Autoclave</u></p> <p>Applications:</p> <ul style="list-style-type: none"> • EQUITRON Fully Automatic Vertical Autoclaves are ideal for all critical applications requiring assured and reliable total destruction of all living microorganisms. • Ideal for Pharma QC / QA / Micro / R & D, Chemical Plants, Bio-Labs, Waste treatment, Water & Air Pollution Labs, Fisheries, Mineral Water, Food, Beverage & Distillery Plants, Flight Kitchens, Hotels, Hospitals, Nursing Homes, Polyclinics, specialty Doctors and all applications requiring assured sterilization. 	Model	Working Chamber Size (Ø x D) / Capacity	Carrier (Ø x D)	Gross Dimension / Weight	#7421SLEFA	300 x 500 mm / 35 L	1 of 250 x 450 mm	820 x 620 x 1170 mm / 71 kg	#7431SLEFA	350 x 550 mm / 53 L	1 of 300 x 500 mm	870 x 670 x 1230 mm / 81 kg	#7440SLEFA	400 x 600 mm / 75 L	1 of 350 x 550 mm	970 x 720 x 1290 mm / 97 kg	#7441SLEFA	450 x 710mm / 113 L	2 of 400 x 330 mm	1020 x 770 x 1350 mm / 121 kg	#7451SLEFA	550 x 760 mm / 180 L	2 of 500 x 350 mm	1150 x 890 x 1420 mm / 150 kg	#7423SLEFA	300 x 500 mm / 35 L	1 of 250 x 450 mm	820 x 620 x 1170 mm / 72 kg	#7433SLEFA	350 x 550 mm / 53 L	1 of 300 x 500 mm	870 x 670 x 1230 mm / 81 kg	#74403SLEFA	400 x 600 mm / 75 L	1 of 350 x 550 mm	970 x 720 x 1290 mm / 101 kg
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#7441SLEFA	450 x 710mm / 113 L	2 of 400 x 330 mm	1020 x 770 x 1350 mm / 121 kg																																				
#7451SLEFA	550 x 760 mm / 180 L	2 of 500 x 350 mm	1150 x 890 x 1420 mm / 150 kg																																				
#7423SLEFA	300 x 500 mm / 35 L	1 of 250 x 450 mm	820 x 620 x 1170 mm / 72 kg																																				
#7433SLEFA	350 x 550 mm / 53 L	1 of 300 x 500 mm	870 x 670 x 1230 mm / 81 kg																																				
#74403SLEFA	400 x 600 mm / 75 L	1 of 350 x 550 mm	970 x 720 x 1290 mm / 101 kg																																				

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SN	NAME OF EQUIPMENT	QTY	Specification																																													
	Autoclave		<p>EQUITRON Advantages:</p> <ul style="list-style-type: none"> • Enables reproducibility of results as full cycle including purging of stale air, sterilizing hold time, cycle end with exhaust of pressure is automatic, requiring no human intervention. • Widest options for documenting available: <ul style="list-style-type: none"> - Independent scanning, displaying and printing to inbuilt printer - Independent Chart Recorder • Supplied with Test Certificates & calibration reports along with traceabilities for Temperature Controller and Pressure Gauge. • μProcessor based Controller with time and temperature programmable by user. • A backlit alphanumeric two line 32 characters LCD display, displays all information including process and set values at a glance, eliminating guesswork. • Operating and Display range up to 122°C (135°C for models #7423 & #7433) in 0.1°C resolution. • Pt100 sensor, enabling precise monitoring. • Low water level alarm and cut off. <table border="1"> <thead> <tr> <th>Model</th> <th>Working</th> <th>PSI</th> <th>Carrier</th> <th>Gross Dimension</th> </tr> </thead> <tbody> <tr> <td>#7421FA-</td> <td>300 x 500 mm (12x20") / 35</td> <td>15</td> <td>1 of 250 x 450 mm</td> <td>820 x 620 x 1170 mm / 54 kg</td> </tr> <tr> <td>#7431FA-</td> <td>350 x 550 mm (14x22") / 53</td> <td>15</td> <td>1 of 300 x 500 mm</td> <td>870 x 670 x 1230 mm / 63 kg</td> </tr> <tr> <td>#7440FA-</td> <td>400 x 600mm (16x24") / 75</td> <td>15</td> <td>1 of 350 x 550 mm</td> <td>970 x 720 x 1290 mm / 75 kg</td> </tr> <tr> <td>#7441FA-</td> <td>450 x 710 mm (18x28") / 113</td> <td>15</td> <td>2 of 400 x 330 mm</td> <td>1020 x 770 x 1350 mm / 90 kg</td> </tr> <tr> <td>#7451FA-</td> <td>550 x 760mm (22x30") / 180</td> <td>15</td> <td>2 of 500 x 350 mm</td> <td>1150 x 890 x 1420 mm / 124 kg</td> </tr> <tr> <td>#7423FA-</td> <td>300 x 500 mm (12x20") / 35</td> <td>30</td> <td>1 of 250 x 450 mm</td> <td>820 x 620 x 1170 mm / 55 kg</td> </tr> <tr> <td>#7433FA-</td> <td>350 x 550mm (14x22") / 53</td> <td>30</td> <td>1 of 300 x 500 mm</td> <td>870 x 670 x 1230 mm / 65 kg</td> </tr> <tr> <td>#74403FA-</td> <td>400 x 600 mm (16x24") / 75</td> <td>30</td> <td>1 of 350 x 550 mm</td> <td>970 x 720 x 1290 mm / 79 kg</td> </tr> </tbody> </table> <p>Accessories :</p> <p>Independent online plotting of one temperature sensor.</p> <ul style="list-style-type: none"> • At-a-glance - easy & quick readability. • Small 150mm - easy to handle circular chart size. • Plotting temperature range 90 to 140°C - enables 1°C readability & eliminates ambiguity. <p>Fast motor of 4 hours / 1 revolution enables a meaningful plot length, while at the same time is sufficient to accommodate at least red.</p>	Model	Working	PSI	Carrier	Gross Dimension	#7421FA-	300 x 500 mm (12x20") / 35	15	1 of 250 x 450 mm	820 x 620 x 1170 mm / 54 kg	#7431FA-	350 x 550 mm (14x22") / 53	15	1 of 300 x 500 mm	870 x 670 x 1230 mm / 63 kg	#7440FA-	400 x 600mm (16x24") / 75	15	1 of 350 x 550 mm	970 x 720 x 1290 mm / 75 kg	#7441FA-	450 x 710 mm (18x28") / 113	15	2 of 400 x 330 mm	1020 x 770 x 1350 mm / 90 kg	#7451FA-	550 x 760mm (22x30") / 180	15	2 of 500 x 350 mm	1150 x 890 x 1420 mm / 124 kg	#7423FA-	300 x 500 mm (12x20") / 35	30	1 of 250 x 450 mm	820 x 620 x 1170 mm / 55 kg	#7433FA-	350 x 550mm (14x22") / 53	30	1 of 300 x 500 mm	870 x 670 x 1230 mm / 65 kg	#74403FA-	400 x 600 mm (16x24") / 75	30	1 of 350 x 550 mm	970 x 720 x 1290 mm / 79 kg
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R, *Banla* P. *Banla*

SN	NAME OF EQUIPMENT	QTY	Specification																														
16	Hot air oven	2	<p>Hot Air Oven (Ecogain Series)</p> <p>Applications:</p> <ul style="list-style-type: none"> Ecogain Series Ovens are suitable for any laboratory application requiring controlled temperature environment of 50~180°C. <p>EQUITRON Advantages:</p> <ul style="list-style-type: none"> Safe operation in case of dropped items within the Incubator as heaters are SS tubular Abrasion resistance and durable finish by heat cured epoxy coating on steel exterior Rust proof and efficient stainless steel wire mesh shelves Good control accuracy with the PID temperature Controller cum Timer High quality non rusting hinges Temperature range 50 to 180°C <table border="1"> <thead> <tr> <th>Model</th> <th>Capacity</th> <th>Inner Dimensions (WxDxH)</th> <th>Shelves</th> <th>Gross Dimension / Weight</th> </tr> </thead> <tbody> <tr> <td>#7047DT-043</td> <td>043 L</td> <td>350 x 350 x 350 mm</td> <td>2</td> <td>670 x 660 x 940 mm / 55 kg</td> </tr> <tr> <td>#7047DT-091</td> <td>091 L</td> <td>450 x 450 x 450 mm</td> <td>3</td> <td>770 x 760 x 1040 mm / 75 kg</td> </tr> </tbody> </table> <p>Hot Air Oven (Stream Series)</p> <p>Applications:</p> <ul style="list-style-type: none"> EQUITRON Forced Convection Oven is ideally suitable for any laboratory application requiring a controlled temperature environment upto 200°C. <p>EQUITRON Advantages:</p> <ul style="list-style-type: none"> Glass window in-built into the door. Forced convection design ensures a high level of control accuracy and uniformity. Automatic cut off of heater & blower when door opened. Digital PID temperature controller with timer, alarms and auto tuning. Non contact type door switch. Aero dynamic internal design for achieving horizontal air circulation. Solid and plain bottom without electricals. Seamless round cornered edge of internal chamber ensures easy cleaning & prevents any leakage. Supplied with stainless steel wire mesh shelves. Shelf height adjustable in 25mm steps. Temp range: +50°C to 200°C. Control accuracy: ±0.2°C. CE certified. <table border="1"> <thead> <tr> <th>Model</th> <th>Inner dimensions (WxDxH)/ Capacity</th> <th>Outer Dimension (WxDxH)</th> <th>Shelves</th> <th>Packing Dimensions (WxDxH) / Gr weight</th> </tr> </thead> <tbody> <tr> <td>#7051-091</td> <td>450 x 450 x 450 mm / 91 L</td> <td>640 x 780 x 800 mm</td> <td>2</td> <td>970 x 810 x 990 mm / 89 kg</td> </tr> <tr> <td>#7051-150</td> <td>500 x 500 x 600 mm / 150</td> <td>690 x 830 x 950 mm</td> <td>2</td> <td>1020 x 890 x 1130 mm /</td> </tr> </tbody> </table>	Model	Capacity	Inner Dimensions (WxDxH)	Shelves	Gross Dimension / Weight	#7047DT-043	043 L	350 x 350 x 350 mm	2	670 x 660 x 940 mm / 55 kg	#7047DT-091	091 L	450 x 450 x 450 mm	3	770 x 760 x 1040 mm / 75 kg	Model	Inner dimensions (WxDxH)/ Capacity	Outer Dimension (WxDxH)	Shelves	Packing Dimensions (WxDxH) / Gr weight	#7051-091	450 x 450 x 450 mm / 91 L	640 x 780 x 800 mm	2	970 x 810 x 990 mm / 89 kg	#7051-150	500 x 500 x 600 mm / 150	690 x 830 x 950 mm	2	1020 x 890 x 1130 mm /
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SN	NAME OF EQUIPMENT	QTY	Specification
			L #7051- 600 x 600 x 790 x 930 x 3 115 kg 250 700 mm / 250 1050 mm 1120 x 970 x L 1220 mm / 145 kg
17	Electronic weighing balance	2	<p>The AS.R series represents a new standard level for analytical balances. It features modern, readable LCD display which allows a clearer presentation of the weighing result. The display has a new text information line presenting additional messages and data, e.g. product name or tare value. Additionally, the new R series balance uses great number of pictograms to signal the active working mode, connection with the Internet, the battery charge level, balance service functions. Measuring units number has also been increased. The balance precision and the measurement accuracy is assured by automatic adjustment, which analyses temperature changes and time flow.</p> <p>The data is registered in 5 databases:</p> <ul style="list-style-type: none"> • users (up to 10 users), • products (up to 1000 products), • weighments (up to 1000 weighments), • tares (up to 10 tares), ▪ ALIBI memory (up to 100 000 weighments). <p>There is two-direction data exchange within the system thanks to a quick USB interface. New balance allows to import and export databases using USB pen drives.</p> <p>Model AS 220/R2 Max Capacity 220 g Readability 0.1 mg [0.0001g] Linearity ± 0.2 mg Tare Range Full Capacity [-220 g] Repeatability ± 0.1 mg Pan Size 100 mm Dia. Weighing Unit G, kg, ct, lb, oz, ozt, tlh, tls, tlt, Gn, dwt, mg, /lb, tlc, mom, k tol, bat, and MS.</p> <p>Weighing Mode Weighing, Parts Counting, Check weighing, Percent setup, Formulation, Dosing, , Peak hold, Statistics, Animal Weighing, Density, under hook weighing, Autotest, totalizing , alibi memory, Ambient Conditions Measurement</p> <p>Calibration <u>Internal [automatic]</u> Stabilization 3.5 Seconds Time Working +10 ÷ +40 °C Temperature Power Supply 110 ÷ 230 V AC / 50 ÷ 60 Hz Display LCD with Back Light</p> <p><u>Stander Features:</u> Databases 10 users, 1,000 Products, 1,000,000 weighing records can be stored in memory. Inter face 2 × RS 232, USB-A, USB-B, wifi (optional), 4 input & 4 output Draft Shield 3 Side removable draft shields GLP/GMP Yes GLP/GMP Complies complies</p>

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SN	NAME OF EQUIPMENT	QTY	Specification																																				
18	Biosafety (laminar hood) cabinet	1	<p>Laminar Air Flow</p> <p>(i) Laminar Air Flow (Horizontal): “ Supplied complete with SS table top full body made in cold rolled steel powder coated HEPA Filters, Pre-Filters fully tested for PARTICLE COUNT WITH STANDARD Accessories as well as with following salient features :-</p> <ol style="list-style-type: none"> 1. Automatic Device to switch off the air flow/Motor when door is closed 2. Stand by mode (Idling) Increases filter life, avoids re-cleaning of working table 3. UV/Fluorescent Light Inter Lock : either UV Tube will glow or fluorescent tube will glow for the users safety <table border="0" style="width: 100%;"> <tr> <td>Model</td> <td>HL-22</td> <td>HL-32</td> </tr> <tr> <td>Work Area</td> <td>2'x2'x2'</td> <td>3'x2'x2'</td> </tr> <tr> <td>Size of HEPA Filter</td> <td>2'x2'x3”</td> <td>3'x2'x3”</td> </tr> <tr> <td>No. of HEPA Filters</td> <td>1</td> <td>1</td> </tr> <tr> <td>No. of Pre-Filters</td> <td>1</td> <td>2</td> </tr> <tr> <td>Illumination</td> <td>1x20W</td> <td>1x20W</td> </tr> </table> <p>Accessories :-</p> <ol style="list-style-type: none"> a) Transparent front door b) Oil free filter pressure manometer c) Built in UV Germicidal light d) Cock for gas, air or vacuum line <p>(ii) Laminar Air Flow (Vertical): “ Supplied complete with SS Table full body made in cold rolled steel powder coated in pleasing colours. HEPA Filters, Pre-Filters fully factory tested for PARTICLE COUNT with standard Accessories as well as with following salient features:-</p> <ol style="list-style-type: none"> 1. Automatic device to switch off the air flow/Motor when door is closed 2. Stand by mode (Idling) Increases filter life avoids re-cleaning of working table 3. UV/Fluorescent Light Inter Lock : either UV Tube will glow or Fluorescent tube will glow for the users safety. 4. Front arm rest, made of SS 304 suitable for increasing efficiency and convenience for the user while working. <table border="0" style="width: 100%;"> <tr> <td>Model</td> <td>VL-22</td> <td>VL-32</td> </tr> <tr> <td>Work Area</td> <td>2'x2'x2'</td> <td>3'x2'x2'</td> </tr> <tr> <td>Size of HEPA Filter</td> <td>2'x1(1/2)'x3”</td> <td>3'x1(1/2)'x3”</td> </tr> <tr> <td>No. of HEPA Filters</td> <td>1</td> <td>1</td> </tr> <tr> <td>No. of Pre-Filters</td> <td>1</td> <td>2</td> </tr> <tr> <td>Illumination</td> <td>1x20W</td> <td>1x20W</td> </tr> </table>	Model	HL-22	HL-32	Work Area	2'x2'x2'	3'x2'x2'	Size of HEPA Filter	2'x2'x3”	3'x2'x3”	No. of HEPA Filters	1	1	No. of Pre-Filters	1	2	Illumination	1x20W	1x20W	Model	VL-22	VL-32	Work Area	2'x2'x2'	3'x2'x2'	Size of HEPA Filter	2'x1(1/2)'x3”	3'x1(1/2)'x3”	No. of HEPA Filters	1	1	No. of Pre-Filters	1	2	Illumination	1x20W	1x20W
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19	Automatic pipettes	15	<ul style="list-style-type: none"> • VARIABLE VOLUME MICRO PIPETTE • Rugged Construction • Extremely smooth piston movement • Autoclavable tip ejector & tip holder • Easy to maintain • Individual factory calibration certificate with Micropipette 																																				

R / *Sanjay*
P. Anand
B. Prasad
M. S. S. S.

SN	NAME OF EQUIPMENT	QTY	Specification																									
			<p>Capacity</p> <ul style="list-style-type: none"> 0.5-2 ul 1-10 ul 2-20 ul 10-100ul 20-200 ul 100-1000 ul 1000-5000 ul 1000-10000 ul 																									
20	Incubator	2	<p>Applications:</p> <ul style="list-style-type: none"> • EQUITRON General Incubator is ideally suitable for any laboratory for application requiring a controlled temperature environment upto 70°C. <p>EQUITRON Advantages:</p> <ul style="list-style-type: none"> • Digital PID Temperature Controller with Timer, alarms and auto tuning. • Eye level door mounted Controller for easy access and monitoring. • Over temperature safety protection. • Solid and plain bottom without electricals. • Seamless round cornered edge of internal chamber ensures easy cleaning & prevents any leakage. • Transparent safety glass door. • Supplied with wire mesh shelves. Shelf height adjustable in 25mm steps. • Temp range: ambient +5°C to 70°C. • Control accuracy: ±0.1°C. • CE certified. <table border="1" data-bbox="662 1272 1508 1843"> <thead> <tr> <th>Model</th> <th>Size (WxDxH) / Capacity</th> <th>Outer Dimension (WxDxH) in mm</th> <th>Shelves</th> <th>Packing Dimensions (WxDxH) / Gr. Weight</th> </tr> </thead> <tbody> <tr> <td>#7251-091</td> <td>450 x 450 x 450 mm / 91 L</td> <td>650 x 690 x 800</td> <td>2</td> <td>970 x 810 x 990 mm / 75 kg</td> </tr> <tr> <td>#7251-150</td> <td>500 x 500 x 600 mm / 150 L</td> <td>690 x 740 x 950</td> <td>2</td> <td>1020 x 890 x 1130 mm / 101 kg</td> </tr> <tr> <td>#7251-250</td> <td>600 x 600 x 700 mm / 250 L</td> <td>790 x 840 x 1050</td> <td>3</td> <td>1120 x 970 x 1220 mm / 129 kg</td> </tr> <tr> <td>#7251-400</td> <td>600 x 600 x 1110 mm / 400 L</td> <td>790 x 880 x 1470</td> <td>3</td> <td>1120 x 970 x 1650 mm / 150 kg</td> </tr> </tbody> </table>	Model	Size (WxDxH) / Capacity	Outer Dimension (WxDxH) in mm	Shelves	Packing Dimensions (WxDxH) / Gr. Weight	#7251-091	450 x 450 x 450 mm / 91 L	650 x 690 x 800	2	970 x 810 x 990 mm / 75 kg	#7251-150	500 x 500 x 600 mm / 150 L	690 x 740 x 950	2	1020 x 890 x 1130 mm / 101 kg	#7251-250	600 x 600 x 700 mm / 250 L	790 x 840 x 1050	3	1120 x 970 x 1220 mm / 129 kg	#7251-400	600 x 600 x 1110 mm / 400 L	790 x 880 x 1470	3	1120 x 970 x 1650 mm / 150 kg
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21	Shaker incubator	1	<p><u>(i) Orbital Shaking incubator :''''</u></p> <p>Salient Features</p> <ul style="list-style-type: none"> • Brushless induction Motor with variable frequency drive suitable for continuous operations • Step less variable frequency drive ensures gentle shaking start and maintains set speed 																									

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Blanton

P. P. P. Blanton

SN	NAME OF EQUIPMENT	QTY	Specification																																				
			<ul style="list-style-type: none"> • Counter balanced mechanism for high stability in uneven load of different sized flasks • Universal Shaking Platform to accommodate different sized assorted flasks • Maximum shaking capacity “ 9 Flasks x 2000 ml • Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber • Machine filled PUF insulation to eliminate void pockets • Unique design of thermal barrier for better energy efficiency • Heating by long SS tubular heaters • Additional tray to store samples • Chamber calibration port on side • Hermetically sealed Compressor with CFC free refrigerant (CIS“24 Plus) • Microprocessor controller with 4 LCD display for display of shaking speed & temperature • 9 programs memory • Power failure and resumption recorded with data and time. • High temperature safety cut off & alarms for high / low set temperature • Electrical circuit breaker • Time delay for compressor switch on (CIS“24 Plus) • Overload cut off relay for compressor (CIS“24 Plus) • Rounded inner chamber for easy cleaning • Attractive door profile • Optional <ul style="list-style-type: none"> ◦ Touch screen display (TFT) with additional features(Details overleaf) ◦ Validation protocol with IQ, OQ, PQ Documentation <p>Technical Data</p> <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;">CIS-24 Plus</td> <td style="text-align: center;">RIS-24 Plus</td> </tr> <tr> <td>Temperature Range & Accuracy</td> <td>5°C to 60°C, ± 0.5°C</td> <td>to 5°C above ambient to ± 60°C, ± 0.5°C</td> </tr> <tr> <td>Internal Volume (Liters)</td> <td colspan="2">215</td> </tr> <tr> <td>Platform Size</td> <td colspan="2">580mm x 600mm</td> </tr> <tr> <td>Maximum Shaking Capacity (Volume x No. of flasks)*</td> <td colspan="2">100ml x 49, 150ml x 49, 250ml x 33, 500ml x 24, 1000ml x 15, 2000 ml x 9</td> </tr> <tr> <td>Shaking Speed range (RPM)</td> <td colspan="2">20 to 250</td> </tr> <tr> <td>Shaking Amplitude</td> <td colspan="2">25 mm</td> </tr> <tr> <td>Internal Dimensions W x D x H (mm)</td> <td colspan="2">660 x 765 x 650</td> </tr> <tr> <td>External Dimensions W x D x H (mm)</td> <td colspan="2">800 x 1150 x 1300</td> </tr> <tr> <td>Temperature control</td> <td colspan="2">Microprocessor with PT-100 sensor</td> </tr> <tr> <td>Display</td> <td colspan="2">4" LCD Screen, Large size Display for ease of reading</td> </tr> <tr> <td>Power Failure Alarm</td> <td colspan="2">Audio Visual Alarm</td> </tr> </table>		CIS-24 Plus	RIS-24 Plus	Temperature Range & Accuracy	5°C to 60°C, ± 0.5°C	to 5°C above ambient to ± 60°C, ± 0.5°C	Internal Volume (Liters)	215		Platform Size	580mm x 600mm		Maximum Shaking Capacity (Volume x No. of flasks)*	100ml x 49, 150ml x 49, 250ml x 33, 500ml x 24, 1000ml x 15, 2000 ml x 9		Shaking Speed range (RPM)	20 to 250		Shaking Amplitude	25 mm		Internal Dimensions W x D x H (mm)	660 x 765 x 650		External Dimensions W x D x H (mm)	800 x 1150 x 1300		Temperature control	Microprocessor with PT-100 sensor		Display	4" LCD Screen, Large size Display for ease of reading		Power Failure Alarm	Audio Visual Alarm	
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A/ *Sanjay* *P. P. Patel* *B. Parikh* *M. S. ...*

SN	NAME OF EQUIPMENT	QTY	Specification
			<p>Door Open Alarm Audio Alarm in case door open for over one minute</p> <p>Temperature Variation Alarm Set Temperature $\pm 2^{\circ}\text{C}$, Audio Visual Alarm</p> <p>Illumination 8 Watts Fluorescent Tube</p> <p>Internal Material Body Stainless Steel – 304 grade (Standard Models), Stainless Steel – 316 grade (GMP Models)</p> <p>External Material Body Powder Coated CRCA Steel (Standard Models), Stainless Steel – 304 grade (GMP Models)</p> <p>Insulation (CFC free polyurethane foam) 70 mm minimum for Body & 80 mm for Door</p> <p>Noise Level Less Than 65 db (A)</p> <p>Recommended Voltage Stabilizer VS-02 X</p>
22	Ice flaking machine	1	<p>Fully Automatic microprocessor control</p> <ul style="list-style-type: none"> • Compact Design and low maintenance • Stainless Steel construction • Continuous Ice Flakes output • CFC free compressor • Noiseless operation • Overload protection • Low water level detection • Wheels for easy mobility • Capacity of Ice Flakes kg per 24 hr. : 30,50,85,100 kgs
23	CO ₂ incubator	1	<ul style="list-style-type: none"> • Microprocessor control & programmable • Temperature range amb+5° C to 80° C • Temperature accuracy : heating +0.1° C • Capacity 150 Ltr. • Stainless steel interior • Single door • CO₂ sensor : IR • CO₂ range : 0-20% • CO₂ recovery : < 5 minutes • Humidity : 95% @37°C • Audible & visible alarm for temperature program abnormality on operation etc., • Shelves : Stainless steels shelves sare provided • Weight -20 kgs • Provided with CO₂ intra red sensor for the measurement of CO₂ concentration and temperature controller with PID controller for CO₂ and temperature control • Suitable to work on 220-230 V AC 50Hz. Single phase • Inner chamber SS : 470 x 605 x 530 mm (W x H x D)
24	CO ₂ cylinder & regulator	1	Optional along with CO ₂ incubator

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Banter

*R. Kumar
B. Panigrahi*

H. Kumar

SN	NAME OF EQUIPMENT	QTY	Specification
25	Inverted microscope with micro imaging	1	<p>Viewing Head: Trinocular Head with 30° inclination of head with interpupillary distance 48-75 mm.</p> <p>Eyepiece: High point extra wide field eyepiece EW10x/22</p> <p>Objectives: Long working distance (LWD) infinity plan objectives 4x, 10x(phase), 20x(phase), 40x(phase)</p> <p>Nose piece: Quintuple nose piece</p> <p>Condenser: ELWD condenser N.A. 0.3, LWD 72 mm, (without condenser 150mm)</p> <p>Phase Annulus: 10x-20x phase annulus plate and 40x phase annulus plate.</p> <p>Stage: Plan stage 160 X 250 mm, Glass insert and auxiliary stage 70 X 180 mm, attachable mechanical stage, X-Y co-axial control, Moving range 120 X 78, terasaki holder, 38 mm diapetridish holder, 54 mm dia slide glass holder.</p> <p>Focusing: Co-axial coarse & fine focusing, co-axial stroke 37.7mm per rotation, fine stroke 0.2 mm per rotation.</p> <p>Illumination: halogen(6v30w)</p> <p>Filter: Blue, green and frosted glass, 45 mm dia</p> <p>Camera: 5.1 MP , Maximum resolution 2592 X 1944 pixels, frame rate – 5@2592X1944, 18@1280 X 960, 6@640X480, sensor size 1/2.5", 2.2 X 2.2 micron, dynamic range 66.5 db, signal to noise ration 40.5 db, binning 2x2, 4x4, Exposure time- 0.29ms to 2000ms, spectral range- 38—650nm IR filter.</p> <p>Camera will be connected to external pc with USB cable and live image can be show in PC. Image analysis software should be including with camera software.</p>

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Professor & Head
Dept. of Pathology
M.K.C.G. Medical College
Berhampur-Gm.