

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

No. 8053 /MCB-2018/Welfare./Dated, Berhampur the

December,2018 راجع

### TENDER CALL NOTICE

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

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

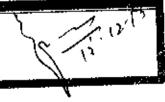
Dean & Principal, MKCG Medical College, Berhampur

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

Tel / Fax: 0680-2292746 / e-mail: mkcgmc.bank@gmail.ocm



TENDER DOCUMENT FOR SUPPLY & INSTALLATION OF MEDICAL EQUIPMENTS



### 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 THE DEPARTMENT OF ANESTHESIOLOGY, O&G, PATHOLOGY, COMMUNITY MEDICINE, PHARMACOLOGY, PHYSIOLOGY & ANATOMY

1		From 18-12-2018 (date) to 07-01-2019 (date)
	Tender Document	[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	Address of Submission of Bid:
1		The Dean & Principal,
		MKCG Medical College and Hospital Berhampur,
1		Odisha, India (Through Speed post / Registered post only
3	Date, time and place of	a) Technical Bid (Cover A) opening: 08-01-2019.4 P.M
-	opening of Tender	(time) at the address mentioned above. (rostponed incase of
]	[	unavoidable Circumstances) b)Financial Bid (Cover B):
		The date of opening of financial bid will be intimated to the firms found successful in the technical bid evaluation.
		(The Venue is mentioned above) (Bidders / authorized representative may remain present at
		the time of opening of bid)

Dean & Principal

### 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	Department of Anesthesiology, O&G, Pathology, Community Medicine, Physiology, Pharmacology & Anatomy.
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) years from the date of installation & commissioning and 5(five) years CMC after warranty period.
7.	Tender Document Cost	Rs.5000/-). The tender document cost is to be submitted in the shape of bank draft in favour of Dean & Principal, MKCG MEDICAL COLLEGE, BERHAMPUR from any Nationalized/Scheduled Bank payable at Berhampur or deposit of Rs.5000/- in Accounts Section of this college on all working days between the scheduled period.
8.	Earnest Money Deposit (EMD) (The no. of equipment is mentioned in the Schedule of requirement – Section 1V)	The Earnest Moncy 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) A. Manufacturing units / Importers are eligible to participate in the tender provided, they have (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 3 years as per format at Annexure VII (Item wise)
- (v) 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 supported by audited balance sheet/Annual Report.
- B. Authorized distributors on behalf of the manufacturer are eligible to participate in the tender provided:
  - (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) They should submit manufacturer's authorization to transact business on behalf of the manufacturer as per the format at Appearer - V.
  - (iii) Proof of supply of the equipments in the schedule of requirement to any Govt. organization /Corporate Hospitals / PSU Hospitals / UN Agencies and purchase order copies in support of that in last 3 years as per format at Annexure VII (Item wise)
  - (iv) The authorized distributor will submit the following documents in support of the manufacturer along with the tender:
  - (v) Valid ISO certificate Valid IS1 / BIS European / CE / US FDA / IEC certificates of the manufacturer is specified in technical specification (Section V)
  - 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.

### SECTION-III

### TERMS AND CONDITIONS FOR SUPPLY & INSTALLATION OF MEDICAL EQUIPMENTS FOR DIFFERENT DEPARTMENT

- 1.1 Sealed tenders will be received till <u>07-01-2019</u>(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
- 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 <u>08-01-2019</u> (date) at 4 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 3 years as per format at Annexure VII (Item wise)

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- (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 and undertaking to the effect that, the unit has not blacklisted by any authority should be furnished along with the bid.
- 2.2 Authorized distributors are eligible to participate in the tender provided:
  - (i) They should submit manufacturer's authorization from original equipment manufacturer
     (OEM) as per the format at Annexure V.
  - (ii) They should have proof of annual average turnover of in the last three (3)financial years certified by the Chartered Accountant as per the format at Annexure VI.
  - (iii) Proof of supply of the required equipment (executed directly by manufacturer or through distributor) of the equipment(s) /similar equipments mentioned in the schedule of requirement to any Govt. organization /Corporate Hospitals / PSU Hospitals / UN Agencies inside the State/Country and purchase order copies in support of that in last 3 years as per format at Annexure VII (Item wise).
  - (iv) The authorized distributor will submit the following documents in support of the manufacturer along with the tender:
    - a) Valid ISO certificate / ISI / BIS
    - b) European CE / US FDA / IEC certificates of the manufacturer as per technical specification.
- 2.3 The tenderer have to submit the EMD(s) as mentioned in Clause 8 of Section –II & the Tender document cost.
- 2.4 Tenderer will submit the following documents along with the technical bid-
  - 1. IT Return of last 3 financial years.
  - 2. Pan card.
  - 3. GST Certificate.

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### 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 Rs5000/- 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).
- 3.9 Performance Statement (Annexure VII) (Item wise) during the last three years towards proof of supply of the equipment(s) /similar equipments mentioned in the schedule of requirement to any Govt. organization / Corporate Hospitals / PSU Hospitals / UN Agencies inside the State Country. The copy of Purchase orders should be furnished in support of the information provided in the performance statement.
- 3.10 Deviation/No Deviation Statement from Technical Specification & details of technical specification of the product (Annexure-VIIIA & B)
- 3.11 Leaflet/Technical Brochures of the product/item offered.
- 3.12 Copy of Import License by the Importer (in case of Importer).

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- 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 <a href="Cover">Cover "B" (Price Bid)</a>. 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.

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### 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:

numue	d 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 Liaisioning agent / servicing centre (Annexure III)			
5	Declaration form (Annexure – IV) singed by the Tenerer & affidavit before Notary Public / Executive Magistrate			
6	Manufacturer's Authorization Format (Annexure - V) (for distributor / Importer)			
7	Proof of avg. Annual turnover of Rs.10 Crore or more for preceding 3 financial year (for Manufacturer / Importer) or Rs.10 Crores or more (for authorized distributors) Annexure – VI			
8	Audited Account Statement (P&L Account) / Annual Report for the three financial years by highlighting the figure in it, which is mentioned in the annexure-VI			
9	Performance Statement (Item Wise) during the last three year (Annexure-VII)			
10	Copies of Purchase order (Item wise) in support of the performance statement			
11	Deviation / No deviation Statement (item wise) & details of technical specification (Annexure - VIII A & B)			
12	Leaflets / Technical Brochures of the Equipment offered (Item wise)			
13	Copy of Import license (In case of Importer)			
14	Copy of Valid ISO certificate			
15	Attested Photocopy of Up-to-date CE/US FDA / BIS Certificate (Item wise) (As per technical specification)			
16	Attested Photocopy of Up-to-Date IEC Certificate (Item Wise as applicable) (As per technical specification)			
17	Photocopy of PAN			
18	Photocopy of GST certificate			
19	Copy of original Tender and schedules, duly singed 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.

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### 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.
- 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.

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- 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.

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- 8.15 Rate should be quoted in Indian Currency, both in words and figures against each item as the payments will be made in Indian currencies only (Annexure-IX). The tenderer shall not quote his own rate for any item other than the item specified in the list. (Section V Schedule of Requirement).
- 8.16 Both Cover-A and Cover-B should have an index and page number of all the documents submitted inside that cover.
- 8.17 The Tax will be charged as per the guidelines given by the Finance Dept., Govt. of Odisha from time to time. GST (as applicable) will be paid to the supplier. In case of Entry Tax, the supplier has to deposit the original receipt to claim it, if finished goods are brought from outside the State. The Sales Tax & entry tax components should be shown separately in the Price Schedule.
- 8.18 The requirement of items may increase or decrease depending on the situation.

### PACKAGING:

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

### COMPREHENSIVE WARRANTY & CMC: (Undertaking as per Annexure - XI)

- 11.1 The comprehensive warranty will remain valid for 5 years from the date of installation & commissioning of the equipment. The original copy of warranty documents will be submitted to the purchaser at the time installation.
- 11.2 The warranty will cover all the parts of the machine or item and any replacement or repair required within the warranty period and will be provided by the supplier free of cost at the destination point (installation point). The supplier will take back the replaced parts / goods at the time of their replacement. No claim whatsoever shall be on the purchaser for the replaced parts / goods thereafter. No traveling allowances or transportation cost will be paid by the purchaser during the warranty period.
- 11.3 The Supplier shall warrant that the Goods supplied under this contract are new, unused, of the most recent or current models and they incorporate all recent improvements in design and materials. The Supplier shall further warrant that all Goods supplied under this contract shall have no defect arising from design, materials or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in the place of final destination.

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- 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.

### TRANINING & 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.

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### SPARE PARTS:

- 15.1 The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee / warrantee 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.

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### **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.
  - 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.

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### 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.
- 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 / SSIs 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



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

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			_	
15	Attested Photocopy of Up-to-date CE/US FDA / BIS Certificate (Item wise) (As per technical specification)	Page No	Yes	No
16	Attested Photocopy of Up-to-Date IEC Certificate (Item Wise as applicable) (As per technical specification) as applicable.	Page No	Yes	No
17	Photocopy of PAN	Page No	Yes	No
18	Photocopy of GST certificate	Page No	Yes	No
19	Copy of original Tender and schedules, duly singed 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

7

Annexure II (Refer Clause No. 3.2)

(To be submitted in Cover A -Technical Bid)

### LIST OF ITEM(S) OUOTED

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

SI.	Name of Equipment	EMD 2% Amount (Rs.)
		l l
<u> </u>	-	
	TOTAL (Pa)	
	TOTAL (Rs.)	j

Signature of the Tenderer :	
Date :	
Official	Seal

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Annexure III (Refer Clause No. 3.5)

(To be submitted in Cover A -Technical Bid)

### DETAILS OF THE TENDERER & LOCAL CONTACT PERSON

·	Clausanata Offica	Local Contact Person / Branch
	Corporate Office (The address in which the purchase	Office / Zonal Office /
	orders and payment details will be	-
	orders and payment details will be	I - I
	communicated)	Odisha
Name & Full Address		•
		<u></u>
Telephone Nos., landline	<u> </u>	
t clephone 1 toos, tandanie		
2611		<del>-</del>
Mobile		]
	<u> </u>	
Fax		
<u></u> .	<u> </u>	<u> </u>
E – Mail		
Date of Inception	Commencian of	
	(Copy of Certificate of incorporation of	
	Manufacturer)	<u> </u>
Name of the issuing		
authority		1
		<u></u>
Import License (in case of	(Furnish photocopy of Import License)	
Importer only)	(2 222222	
GST validity		
OS) vandity	(Furnish photocopy of GST)	
	(turnan photocopy of cost)	
PAN		
	<del> </del>	<del>-</del>
Details of the Service	1	
Centre Facilities in		
Odisha/Eastern India		
		1

Signature of the Tenderer :	
with seal	

-	-4-	_
	ata	-
,	atc	

Official

Seal

Page 23 of 88

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

### DECLARATION FORM

I / We						
our						
		ons of tender of t				
		oproved rate will				
		bide with all the				
Reference no.	di. 1 77112 4	V				
	_					
I/We do	hereby deci	lare I/We have no	ot been de-recogn	ized / bl	ack listed by	any State
		Govt. of India / C				
		Quality (NSQ) iter				
зирріў Сі 1100 с		( ()	11 7			
		Fender Inviting Au				
		posit and blacklis				
furnished by us	proved to be	e false at the time	of inspection / ver	ification	and not comp	lying with
the Tender term	ıs & conditio	ns.				
T / T	ī_					<b>d</b> o
		ill supply the				
		ter document. I / v				
		re within one mont				
will establish a	service cenu	is within one mon	in of misumation o	r and esqu	· · · · · · · · · · · · · · · · · · ·	
Signature of the	ne bidder	:				
_		1	Date:			
Seal		,	Jaco .			
Name & Add	ress of the F	irm:				
Affidavit	before	Executive	Magistrate	/	Notary	Public.
	-				/	

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

To

	MKCC	ean & Princ 6 Medical ( 1900–7600	•						
	Ref:	Tender	No	Date	ed		for		
Dear	Sir,								
				(na:	ne of equ	the manuf iipment(s)	acturers of and have t	he manufacturin	g factory
<ul><li>2.</li><li>3.</li><li>4.</li></ul>	distribu We con (name of with you We also support We und warrant of 95%	tor for salufirm that of the about the control of t	le and servi t no supplove distributed above good our full wants CMC aft tat we have MC/CMC so is tender cla	ce of ier or fir itor) is an is manufa irranty (5 ier the wa e adequat ervices fo	m or incuthorized by years contranty pe infrastror 10 years	dividual of to submit us. mprehensi riod as req ucture and	(name of ther than M t a tender a ive warrant uired by the I spare part	agent) is our au equipment(s)) Messrs and enter into a sy) and also full e purchaser. It support to carry rovide uptime g	contract back-up
	For a	nature wit	h date, nan	e and des			-		
	(Nar Seal Note		ress of the 1	nanutach	irers)				
	si	ened by a	should be o person hav tter shall be	ving the p	ower of a	ittorney to	legally bin	Item wise) and a dithe manufacture	should be rer.
	(To	riginal le be		nitted	in	Cover	<b>A</b>	-Technical	Bid)

Zr.

(Refer	Clause	Nο.	3.8	١
UVOIVI	~ Jause	110+	J. O	,

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

ANNUAL TURN OVER STATEMEN	ANNUAL	. TURN	OVER	STATE	MENT
---------------------------	--------	--------	------	-------	------

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.

SI.No.	Year	Turnover in (Rs.)	
1.	2015-2016	<u>-</u>	
2.	2016-2017	-	
3.	2017-2018	-	

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

Date:

Signature of Auditor/ Chartered Accountant

Place: (Name in Capital)

Seal

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.

Annexure VII (Refer Clause no. 3.9)

Tender Reference No.:

Name of Tenderer:

### 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)

	Nar	ne of Manufa	.cturer:				Name	of '	the It <del>e</del> m	<b>:</b>	-	
	Order	placed by					Value	of	Date of Complet	ion	Reason:	Have
SI	(Address ( (attach proof)*	of purchaser) documentary	Order no & Date	Item Name	Make & Model	Qty	Value Contract (Rs.)		As per contract	Actual	delay	the goods been functional
1												<u> </u>
2										·		_
<b> </b>												
	·						<u> </u>					
ľ				Total Qty			_					
	Sig *	nature and s The docume years) indic	entary pro ating Cor	oof will latract No.	be <b>cop</b> and d	ate	along wi	ith	a notariz	zed cer	tificati	the last 3 on (by the
	**	bidder) auth The docum	enticatin entary n	g the com	rectnes: be cer	s of tific	the infor	rma th	tion furn e consig	iished. nee/en	ıd user	indicating
		Contract N	io. and	date alc	ng w	ith	a notar	ize	d certif	ication	(by th	ie bidder)
	(To	be	submit		in		Cover		Á	-Tec	hnical	Bid

7

### Annexure VIIIA

(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
l			
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 Nam	e	Make	Model	product( (Pl. De specifica offered) complian	pecification (s) offered (scribe the tion of the Panace to the tion asked	e detail e product ra wise technical	where complia	ue / Para nce in	of the Leaflet a wise formation technical available
1										
2										
					 		_		_	

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

Signature of the Bidder	
Name:	
Date:	
Place:	
Seal	

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

### **ANNEXURES-IX**

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

### 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)	CST/GST & ET (if any) on & above the item price mentioned in col. (3) (Mention whether CST / GST and Ef, 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

  1XA2
- \*\* 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:

- 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



### **ANNEXURES**

# (Agreement, Warranty and CMC Undertaking)



### **AGREEMENT**

THIS AC	REEMENT IS MAI	DE AT TE	IIS THE DAY OF	2014	
		<u>B</u>	<u>ETWEEN</u>		
Name of with full	the Supplier address				
	Here in after called	the "Supplier(s)	" as 1 <sup>at</sup> Party	,	
<u>AND</u>					
	-	G Medical College, B			
herinafte	er called the "PURCI	HASER"	as 2 <sup>nd</sup> Party.		
hereinaf	te the responsibilition ter laid down.	es of sell and purchase	of following equipment	to the issue of aforesaid parties (s) etc. with the terms & condition	to ons
	And whereas the 2 <sup>nd</sup>	party "Purchaser(s)" is	willing to purchase		
	f the Item;				
Specific	ations: As per speci	fications laid down in the	e Tender terms & condition	ns	
them op	المؤمل كالمتحالة المسام المساء	- Con ded	and the Supplie	all respects according to the Ten r(s) has also agreed to install to me following descriptions and their of	MAC.
	tion of goods	<u>Oty</u>	<u>Price</u>	<u>Total</u>	
	a contract	.l : tudo tha fallowin	os in addition to above		
	ce / cost of the item a finsurance	dso include the following	gs III dadition to accre.		
	Freight				
3.	Transportation				
4.	Charges for docum	erse duty lents, instructions manua	l. tools		
5. 6.	F.O.R. at the destin	nations mentioned in the	consignee list		
7.	Talulanes doctors	er tachnicians		ad their chare parts required du	rine
1.	comprehensive wa	granty period of five you	ear at free of cost from t e site.	nd their spare parts required du he date of successful installation	and
2,	Lorentzer and an	mmissioning of the custe	m, by the Supplier's enging	er at site.	+ha
3.	Any other charge	s including loading &	unloading, packing & t ation and turnkey job if an	orwarding etc. will be paid of	ше
	CMC cost for nex	t 5(five) years after the (on a	warranty period shall be six	paid after completion of the warr monthly ba	anty sis).

7//

### 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 bours per day)

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

7

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

For 5 years warranty =  $8322 \times 3$  bts

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

### DOWNTIME PENALTY CLAUSE:

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

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

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

### COMPREHENSSIVE 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 roanual 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.

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

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

### **SPARE PARTS:**

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

### COMPREHENSIVE WARRANTY:

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

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

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

The Purchaser / consignee shall promptly notify the Supplier in writing / Pax / 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).

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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

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

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

#### ARBITRATIONS :

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

#### CHANGE OF TERMS AND CONDITIONS:

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

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

Executed by Purchaser (s) / Consignee

Executed by Supplier(s)

In presence of (Witness)

In presence of (Witness)

7-

<u>ANNEXURE – XI</u> (Refer Clause No. 11.1 to 11.6 & 13.1)

### **UNDERTAKING**

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

	Tender ref. No.
	Name of the equipment:
	Date of Installation:
	Name of the Consignee:
	Name of the purchaser:
Sir,	
	I / we
hereby	y 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.	و من الله الله الله الله الله الله الله الل
	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.
- I / we have carefully read and understood all the terms and conditions of the tender and shall abide by them.
- I / we undertake to get the equipment's repaired within 48 hours of receiving of the complaint from the indenting hospital / consignee failing which a penalty
  @ 1% of the cost may be recovered from the performance security before releasing the same to us after 5 years warranty period.

Signature of the witness Name & address

Signature of the Tenderer Name & address

Dated

Seal

of

the

firm.

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

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

(SECTION-IV)

# **SPECIFICATION SECTION**

_	_		
SL.N	NAME OF	QT	SPECIFICATIONS
0.	THE	Y.	]
	EQUIPME   NT		
			PATHOLOGY
1	Decahead	2	Optical system: Infinity corrected system.
	Teaching		2. Focus: Vertical stage movement 25mm per coarse stroke.
	Microscope		Vertical stage movement Imicron per fine stroke. Stage rotation of
			270 degrees with Stage Lock and Stage Tension adjustment.
	1		3. Illuminator: Built-in-Koehler illumination for transmitted
l			light LED bulb (pre-centered). Light Intensity adjustment centrally
			located so both hands can be used to increase and decrease light, New Eco Switch for Energy saving to
	ļ		switch off the Light when user moves
ļ			away from the microscope, Light preset switch for photography.
			Blue Built-in filters, Neutral density filter 6 and Neutral Filter 25.
	1		4. Revolving nosepiece: Interchangeable Reversed Septuple
]			Nosepiece with DIC slot.
		1	5. Objectives: Plan 2x,4x, 10x, 20x, 40x, & Plan Fluor 100x Oil.
			6. ObserGSTion tube: Wide field Trinocular head with Field no. 22 mm or more with three Light path selection of 100:0, 20:80 and
1			0:100.
			7. Stage: Ceramic-coated coaxial stage with right hand low drive
	İ		Control with X and Y axis Tension adjustment.
			8. Condenser: Swing out condenser (N.A 1.1), for 2x -100x.
			Teaching Attachment: For 1+ 9 persons Head with eyepiece of
		1	Field no. 22 or more, LED arrow pointer with variable intensity and
ļ			with Green / Red colour selection.
			10. The equipment should be USA-FDA/European- CE approved.
	1	1	11. The instalment should be on a turn-key basis.
ļ			12. The cost for AMC / CMC for 5 years after the warranty period
	<del> </del>	<del>                                     </del>	must be quoted separately.  1. The equipment should be a floor mounted model.
2	Grossing Station	1	and a state of the control and a second and
\	Station		2. There should be facility for video, audio recording and photography attachment. The photography attachment should have
			facility for enlargement.
	•		3. There should be facility for digital measurement of grossing
			specimens.
			4. There should be IT support for storage andretrieval of data
		1	recorded with TFT display and recording system.
	1		5. There should be a formalin tank on top of the station with
1			direct supply system to the work area.  6. Both water and formalin faucets should beavailable in the
			6. Both water and formalin faucets should beavariable in the work area.
			7. The station should be made of noncorrosivehigh grade
			stainless steel.
			8. Exhaust with filters for formalin vapours should be available.
			9. Sink should have removable filters on drain to trap
			debris/tissue bits.
		<u> </u>	

for grossing.  12. Approximate size should be- breadth 6ft, depth 3ft, varea height 3ft.  13. Sink with drain board would be preferred.  14. The equipment should be USA-FDA/European-CE appl 15. The instalment should be us a turn-key basis.  16. The cost for AMC / CMC for 5 years after the warranty must be quoted separately.  1		NAME OF	QT	SPECIFICATIONS
10. Working area should have good illumination.  11. Magnetic front board should be available to stick instror grossing.  12. Approximate size should be- breadth 6ft, depth 3ft, varea height 3ft.  13. Sink with drain board would be preferred.  14. The equipment should be USA-FDA/European-CE apples of the control page of the control page of the control page of the capable of thin-lay preparation for retrieving cells from various body fluids espacienens.  2. The equipment should be capable of thin-lay preparation for retrieving cells from various body fluids espaciciellular fluids and preserving their morphology.  3. Should be capable of processing up to 12 specimen time.  4. Should be equipped with Biological safety cabinet for the operator.  5. Auto-lid lock during rotation with a special lid mechanism should be available.  6. Should be designed for easy disinfection and also wipe-clean control panel.  7. Should be resistant to fluid spillage on the ecomponents with capped disposable sample compartments/ of for elimination of aerosol.  8. May have different sizes of disposable chambers.  9. Safety alarms during all stages of operation shavilable.  10. Microprocessor based controls and programming for speed with pull-out program card for fast retrieval.  11. Should be compliant with international standards for equipment requirements for laboratory use 220 V, 50Hz.  12. Speed 100 to 4,000 rpm  13. Noise levels < 50 Db  14. The equipment should be an automated slide processing shouldremove obscuring blood, mucus, debris and alsoft mix the sample.  15. Processes about 80 samples per cycle withautomatic custody verification of patientsamples.  16. Should be US FDA / CE certified.	]	EQUIPME	<b>Y.</b>	
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16. The cost for AMC / CMC for 5 years after the warranty must be quoted separately.  1				CE approved
must be quoted separately.  1. The equipment should be a Bench-top centrifuge for a specimens.  2. The equipment should be capable of thin-lay preparation for retrieving cells from various body fluids est paucicellular fluids and preserving their morphology  3. Should be capable of processing up to 12 speciment time.  4. Should be equipped with Biological safety cabinet for the operator.  5. Auto-lid lock during rotation with a special lid mechanism should be available.  6. Should be designed for easy disinfection and also wipe-clean control panel.  7. Should be resistant to fluid spillage on the ecomponents with capped disposable sample compartments/of for elimination of acrosol.  8. May have different sizes of disposable chambers.  9. Safety alarms during all stages of operation shavailable.  10. Microprocessor based controls and programming for speed with pull-out program card for fast retrieval.  11. Should be compliant with international standards for equipment requirements for laboratory use 220 V, 50Hz.  12. Speed 100 to 4,000 rpm  13. Noise levels < 50 Db  14. The equipment should be an automated slide processing shouldremove obscuring blood, mucus, debris and alsoth mix the sample.  15. Processes about 80 samples per cycle withautomatic custody verification of patientsamples.  16. Should be US FDA / CE certified.				15. The instalment should be on a turn-key basis.
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14. The equipment should be an automated slide prosystem that produces uniform thinlayerslides for gynecologicandnongynaecologicalsample processing shouldremove obscuring blood, mucus, debris and alsoth mix the sample.  15. Processes about 80 samples per cycle withautomatic custody verification of patientsamples.  16. Should be US FDA / CE certified.				12. Speed 100 to 4,000 rpm
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mix the sample.  15. Processes about 80 samples per cycle withautomatic custody verification of patientsamples.  16. Should be US FDA / CE certified.				shouldremove obscuring blood, mucus, debris and alsothoroughly
custody verification of patientsamples.  16 Should be US FDA / CE certified.	1			mix the sample.
16 Should be US FDA / CE certified.			1	custody verification of patientsamples.
				16 Should be US FDA / CE certified.
17. The equipment should be USA- FDA/European- CE a				
18. The instalment should be on a turn-key basis.				18. The instalment should be on a turn-key basis.

SL.N O.	NAME OF THE EQUIPME NT	QT Y.	SPECIFICATIONS
			must be quoted separately.
4	Fully automated urine analyzer	2	19. The cost for AMC / CMC for 5 years after the warranty period must be quoted separately.  1. The analyser should be compact benchtop, fully automated integrated urine analyzer, integrating urine chemistry and urine sediment analysis.  2. Chemistry parameters required to be provided should be glucose, protein, blood, bilirubin, urobilinogen, ph, ketones, nitrate, leuokocyte, creatinine, albumin, alb/ cre ratio, pro/cre ratio.  3. Additional instrument parameters should have specific gravity, turbidity & colour.  4. The analyser should be based on fluorescence flowcytometry for accurate measurement of urine parameters such as rbc, wbc, epithelial cells, cast and bacteria.  5. The instrument should provide scattergrams and histograms for easy interpretation.  6. The analyser should provide additional rbc information, UTI information and conductivity.  7. The analyser should have user friendly software with cross check function.  8. The analyser should have a throughput 100 samples / hour (chemistry) & 50 samples / hour (sediment analysis).  9. The equipment should have a storage of 200 test strips at a time with continuous loading for true walkaway analysis.  10. The equipment should have the capability to load two different types of strips for better flexibility in analysis.  11. The equipment should have the capability to load two different types of strips for better flexibility in analysis.  12. Sampler should have the capacity of 60 sample tubes and internal barcode for sample identification.  13. Controls should be available for both chemistry and sediment analysis.
		İ	15. The equipment should have interface for output to printer or transmitted to LIS / HIS and it would the responsibility of the sumplier to do the interfacing.
			16. The equipment should be USA- FDA/European- CE approved.
			17. The instalment should be on a turn-key basis.
			18. The cost for AMC / CMC for 5 years after the warranty period must be quoted separately.

SL.N	NAME OF	QT	SPECIFICATIONS
О.	THE	Y.	
	EQUIPME		
5	NT Trinocular	25	Aluminium die-cast body with all critical movements based on
3	microscope	25	ball bearing & wire guides thereby ensuring smooth & precise
	with		manipulation.
	projection		2. Co-axial low drive mechanical stage (125mm x 145mm)(+/-5
	system		mm) with traverse area of 50 mm x 76 mm (+/-5mm) with dual side holder.
			3. Co-axial coarse & fine controls with a focus adjustment and fine adjustment knobs, Coarse Focus range 20 mm. Fine focus range
		1	0.2 mm.
			4. Rack & pinion mounted condenser holder.
			5. Centerable abbe condenser with aperture iris diaphragm (N.A.
			1.25) focusable with rack & pinion through 20 mm and a
			continuously variable iris diaphragm with a removable blue filter for
			daylight obserGSTion.
			6. LED light source (with battery back-up) High brightness, long
			life (30,000). Battery back-up in-built NiMH Rechargeable batteries
			provide 6 to 8 hrs back-up on full charge.  7. Quadruple revolving inward nosepiece based on precision
		!	7. Quadruple revolving inward nosepiece based on precision ball-bearing mechanism with positive click stop.
			8. Objectives: 4x (N.A 0.10 W.D 25 mm), 10x (N.A 0.25 W.D 5
			mm), 40x (spring loaded) (N.A 0.65 W.D 0.5 mm), 100x
			(oil, spring loaded) (N.A 1.25 W.D 0.14 mm).
			9. Infinity corrected plan optics, Uniformlycentered,
1			Interchangeable &Parfocal, Anti-fungus treated, Tropicalized anti
			fungus treatment ensures image excellence for long periods in
			conditions, favouring to fungus growth.
		ļ	10. Binocular (30 deg inclined seidentopf), 360 deg rotatable,
		1	dioptre adjustment.
			11. WF 10x (F.N 20 mm) paired eyepiece. The unique optical
	•		design of the compensating eyepiece provides relief from eye fatigue
	1		and renders color- compensated wide-field images of utmost clarity.
			Compatible with optionally available eyepiece micrometer.
1			12. Certification: ISO 9001:2008, CE
			13. Camera & Software: Digital Cooled CCD Camera approx 5 MP pixel size 4.65 mm x 4.65 mm, with 12 bit digitization, Fire wire
			port. Software to capture and image processing.
			14. Computer system: i5 processor,4GB RAM 500 GB HDD, DVR
	!		R/W, TFT 21".
			15. The system should be upgradeable to Fluorescence attachment
]			with multicolour more than 6 filters positions on turret at a time.  16. The Microscope and camera should be from same manufacturer.
			17. The microscope should be provided with digital 40" HD LED
			projection panel.  18. Face to Face second observer attachment with binocular head
			and eyepiece 10x/20mm with LED Pointer, the head should be 360°
			rotatable.
<u> </u>	<u> </u>	1	

SL,N O.	NAME OF THE EQUIPME NT	QT Y.	SPECIFICATIONS
			<ol> <li>There should be provision for simultaneous viewing at projector as well as microscope.</li> <li>There should be provision for split screen display for simultaneous viewing of acquired as well as image.</li> <li>Document supporting track record and satisfactory performance from institutes of national importance (minimum one) should be provided.</li> <li>Appropriate work bench/ stand should be provided with the instrument.</li> <li>UPS backup for the duration of one hour to be provided.</li> <li>The equipment should be USA- FDA/European- CE approved.</li> <li>The instalment should be on a turn-key basis.</li> </ol>
	Binoccular	20	<ul> <li>26. The cost for AMC / CMC for 5 years after the warranty period must be quoted separately.</li> <li>1. Optical system: Infinity corrected system</li> </ul>
6	Research microscope	20	<ol> <li>Focus: Vertical stage movement 25mm or more per coarse Stroke, Vertical stage movement Imicron or less per Fine stroke.</li> <li>Illuminator: Lamp House for LED with connecting cable having life Span of 20,000 hrsapprox.</li> <li>Revolving nosepiece: Reversed Sextuple revolving nosepiece.</li> <li>Objectives: Plan Achromat 2X,4X,10X, 20X,40X,100X.</li> <li>ObserGSTion tube: Wide field Trinocular Eyepiece Tube with 10X eyepieces of 25mm F.O.V</li> <li>Stage: Ceramic coated surface mechanical stage with right/left hand</li> <li>Low drive control with left hand for two specimens</li> <li>Condenser: Swing out condenser usable for 2X-100X</li> <li>The equipment should be USA-FDA/European-CE approved.</li> <li>The instalment should be on a turn-key basis.</li> <li>The cost for AMC / CMC for 5 years after the warranty period must be quoted separately.</li> </ol>
7	Automated clinical electrophore sis system	1	<ol> <li>The instrument should be bench-top automatedagarose-gelbased electrophoresis system with sequential processing of each electrophoresis step from application, migration, incubation, staining, destaining, drying, scanning and quantification to allowwalk-away operation.</li> <li>It should be able to perform electrophoretic analysis of Acid &amp; Alkaline Haemoglobin(Hb), serum/ urine Proteins, Bence Jones proteins, Isoenzymes and Lipoproteins. Itshould be capable of performing serum/ urine Immunofixations and Haemoglobin/CSF/Transferrin Isoelectric Focusing.</li> </ol>

SL.N O.	NAME OF THE EQUIPME	QT Y.	SPECIFICATIONS
	NT		3. It should have a wide Test Menu which include: Alkaline Hemoglobin electrophoresis; Acid Hemoglobin electrophoresis; Serum Protein electrophoresis; ImmunofixationViolet; Immunofixation Blue; Bence-Jones protein electrophoresis and Immunofixation; PentavalentImmunofixation; Hb/ CSF/ Transferrin Isoelectric Focusing; Highresolution (H.R). and Split Beta serum Protein electrophoresis; SDS Urine Proteinelectrophoresis; Lipoproteins; Cholesterols, LDH Isoenzymes; CK Isoenzymes; ALP Isoenzymes.  4. It should be able to perform tests on urine and CSF without concentration.
!			5. The system should have capacity to run at least 20 protein samples, 12 haemoglobinsamples and 6 immunofixations simultaneously on one gel.
			6. The system should have option for simultaneous run of blood, urine and CSF samples.
			<ul> <li>7. The system should have automatic sampling station and use disposable applicators for sample application.</li> <li>8. The system should work on No-carryover technology.</li> </ul>
   			9. The system should have automatic regulation of voltage, current, power and volt hour.
			10. The temperature control on the instrument should be precise, Peltier effect driven.
	ļ		11. The system should have facility for on-board reagents.  12. The system should be compatible with ready to use, pre-
			standardized reagent kits.  13. The system should have capacity for user defined programming for at least 15 methods.
			14. The drying in the system should be by convection heater with laminar air flow.
			15. The staining compartment of the system should be able to operate at least 6-8 differentreagents/ stains.
			16. The system should be supplied with compatible gel scanner/densitometer and easy touse intuitive software for gel quantification and analysis.
			17. The instrument should have optimal patient data storage facility.  18. The instrument should allow customizable reporting formats and print outs of graphical reports including results, images, traces,
			demographics and logos.  19. The instrument should have compact foot print.
			20. The instrument should have voltage range of 3.5 to 350 V, current range of 3.5 to 200mA and power range of 0 to 30 W.
		•	21. The instrument should be capable of quality control measures such as automatic LeveyJenningsanalysis,standarddeviationsandflaggingofnormalandab normalresults.
			Livi man osamo.

SL.N	NAME OF	QT	SPECIFICATIONS
О.	THE EQUIPME NT	Y.	
			<ol> <li>Document supporting track record and satisfactory performance from institutes ofnational importance (minimum one) should be provided.</li> <li>Appropriate work bench/ stand should be provided with the instrument.</li> <li>To be supplied with computer (minimum i5 processor, 500 GB HDD and 4 GB RAM), A4 size printer and appropriate bar code reader.</li> <li>Start-up kit for at least 100 tests should be provided free of cost.</li> <li>UPS backup for the duration of one cycle of processing to be provided.</li> <li>Support for induction and follow up training of technical staff, on-site standardizationand troubleshooting of procedures/ tests to be provided by the company.</li> <li>The equipment should be USA-FDA/European-CE approved.</li> <li>The instalment should be on a turn-key basis.</li> <li>The cost for AMC / CMC for 5 years after the warranty period</li> </ol>
8	Sperm quality analyzers (SQA) are used for assessing male fertility		must be quoted separately.  1. System complete with printer and necessary software should run on fresh, frozen and washed semen samples. Should not require any sample dilution.  2. Fully automatic numerical readouts of separate integrated and totalized semen parameters.  3. Results to be calculated and displayed within 50-75 seconds  4. Must have self testing and self calibrating facility  5. Built-in printer.  6. RS232/USB output for Printer, PC connectivity and Data acquisition should be there.  7. Should report sperm count, motility, normal morphology and additional semen parameters.  8. A built-in memory capable of storing up to 1000 test results.  9. All consumables required for installation and standardization of system to be given free of cost.  10. Cost of capillaries for 1000 tests should be quoted.  11. Cost of quality control reagents required for 1000 tests.  12. Cost of other reagents required for 1000 tests.  13. The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%  14. The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%.  15. Power input to be 220-240VAC, 50Hz fitted with Indian plug  16. UPS of suitable rating shall be supplied for minimum 1 hour backup for the entire system.  17. Should be FDA or CE or ISI approved product

SL.N O.	NAME OF THE EQUIPME NT	QT Y.	SPECIFICATIONS
			18. Manufacturer should be ISO certfied for quality standards.
			19. Comprehensive warranty & AMC/CMC as per TC
			20. User/Technical/Maintenance manuals to be supplied
			21. Certificate of calibration and inspection from factory.
			22. Inspection Certificate from manaufacturer to be complying with WHO specification as specified above.
		ļ !	23. List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.

15.12.18

SL.NO.	NAME OF	QTY.	SPECIFICATIONS
	THE		
	EQUIPMENT		O & G
1	CTG Machine	6	FHR (Fetal Heart Rate), UC (Uterine construction) and FM
	(labour Room)		(Fetal Movement) Twin Capability, Automatic fetal movement detection, Alarm on abnormal FHR, High speed printout of stored data, Durable water tight probes, Atleast 6 hours of memory capacity, High Sensitivity, Uterine contraction:  Input source External transducer with strain guage, Reference (zero) control: One toch switch, Measurement range: 0–99 units,  Fetal Movement measurement:  Detection source: Ultrasound pulsed Doppler, Recording method Spike like 2 waveforms on uterine activity sector denote relative intensity & duration of fetal movement.  Make: Preferably Emco Huntleigh type of equivalent.  Must be FDA / CE Certification.  Technical Specifications:  These units should monitor FHR ranges of at least 50 to 210 bpm, Probe frequency between 2 to 3 MHz & diameter between 20 to 35 mm, Outputs typically generated using a speaker or headphones allowing priGSTe or shared listening, The controls on ultrasonic fetal heart detectors should include power on/off and volume., The unit should operate on line &battery power, the batteries should be rechargeable to save on the cost of constantly replacing batteries.  System Configuration Accessories, spares and consumables:  1 System as specified should have accessories like one obstetric probe, coupling gel a carrying case, and an instruction manual.  Environmental factors:  1 Shall meet IEC-60601-1-2:2001 (OR Equivalent BIS) General Requirements of Safety.
2	IUI setup	1	microscope,centrifuge machine,pippette,media,syringe,laminar flow system
3	Multipara monitor (labour Room	8	with ECG,Gain: 2.5mm/mV, 5.0mm/mV, 10mm/mV, 20mm/mV, auto Adult: 15 ~ 300 bpm, Neo/Ped: 15 ~ 350 bpm, Resolution: 1 bpm  ✓ Multi Parameter bedside monitor should have capability for the measurement of ECG, Resp, Spo2, NIBP, Continuous Temp, Single Channel Invasive Blood Pressure (IBP)  ✓ Should have Adult, Pediatric and Neonate application mode. Monitor should be ready for transport use for emergency with minimum 4 hrs. Lithium ion battery backup and integrated bed rail hanger.  ✓ The monitor should have bright, highly visible, minimum 8.4" color display with resolution of 800X

SL.NO.	NAME OF	QTY.	SPECIFICATIONS
	THE		
	EQUIPMENT		
	EQUIT WIENT		<ul> <li>600 pixel for easy viewing from a distance.</li> <li>✓ Should have the capability to display 4 real real-time waveforms along with related numerical parameters on a single screen. Monitor should have flexible Display format with large numeric</li> <li>✓ Monitor should display the value of Spo2 with Pleth, Perfusion Bar and Peripheral Perfusion Index (PI)</li> <li>✓ Monitor should have 96 hrs. Graphical &amp; tabular trends.</li> <li>✓ Monitor should have audio &amp; visual alarm facility.</li> <li>✓ Monitor should have selectable 3 or 5 Lead ECG with Pacemaker detection, ECG freeze facility and Basic arrhythmia facility.</li> <li>✓ Monitor should have ECG signal output for Defibrillation, Alarm output for nurse call system and data output in HL7 format.</li> <li>✓ Monitor should be CE and USA FDA approved.</li> </ul>
			Wontor should be CE and OSA FDA approved.
4	Multi para monitor (ward)	6	with ECG,Gain: 2.5mm/mV, 5.0mm/mV, 10mm/mV, 20mm/mV, auto Adult: 15 ~ 300 bpm, Neo/Ped: 15 ~ 350 bpm, Resolution: 1 bpm  / Multi Parameter bedside monitor should have capability for the measurement of ECG, Resp, Spo2, NIBP, Continuous Temp, Single Channel Invasive Blood Pressure (IBP)  / Should have Adult, Pediatric and Neonate application mode. Monitor should be ready for transport use for emergency with minimum 4 hrs. Lithium ion battery backup and integrated bed rail hanger.  / The monitor should have bright, highly visible, minimum 8.4" color display with resolution of 800X 600 pixel for easy viewing from a distance.  / Should have the capability to display 4 real real-time waveforms along with related numerical parameters on a single screen. Monitor should have flexible Display format with large numeric  / Monitor should display the value of Spo2 with Pleth, Perfusion Bar and Peripheral Perfusion Index (PI)  / Monitor should have 96 hrs. Graphical & tabular trends.  / Monitor should have selectable 3 or 5 Lead ECG with Pacemaker detection, ECG freeze facility and Basic arrhythmia facility.  / Monitor should have ECG signal output for Defibrillation, Alarm output for nurse call system and

SL.NO.	NAME OF THE	QTY.	SPECIFICATIONS
	EQUIPMENT		<u> </u>
5	Digital Colposcope	1	More Than 1200000 pixels, Auto focus, Wide Zoom range 1-48 X., Super White LED light, Sony CCD camera inside with Electronic Green Filter and digital signal processor
6	Office Hysteroscope	1	Sensor:CCD 1/4' high sensitivity, Resolution (752 x 582) PAL - (768 x 494) NTSC, Definition: 470 lines, Sensitivity: 2 lux, Automatic White balancing
7	Operating Hysteroscope	1	<ul> <li>30° wide angled 4 mmand 2.7 mm, WL 302</li> <li>Autoclavable, High Definition.</li> <li>Diagnostic Hysteroscopy Sheath Outer Dia. 5mm, working length 281mm with marking / distance holder including obturator to use with 4 mm 30 degree telescope</li> <li>Operative Continues Flow Inner/Outer Sheath with one instrument channel, outer sheath dia. 4.3mm, inner sheath should have working channel of 5 Fr., inner / outer sheath should be detachatable for continues flow to use with 2.7mm telescope.</li> <li>Flexible grasping forcep 5 Fr., working length 400mm.</li> <li>Flexible biopsy forcep 5 Fr., working length 400mm.</li> <li>Irrigation pump</li> <li>Digital Display for preset and actual pressure Digital display for flow rate Setting for small cavity</li> <li>Roller pump technique</li> </ul>
8	Bowels sterilzer	4	Vacuum: -800mBar, Working Pressure: 1.2Bar ~ 2.4BAr, Steam Source Pressure: 0.4 - 0.6 Mpa
9	LCD Projector with screen	3	Display Type: LCD Light Output: 3200 Lumens Warranty: 5 Years Feathers: Digital Keystone Correction, HDMI Input, Speakers Audio: Mono Life of Lamp – full Usage: 3000 Hours Life of Lamp – Standard usage: 5000 hours Life of Lamp – Eco Usage: 7000 Hours Screen Coverage: 30 to 300 Inches Contrast Ratio: 2500:1 Throw Ratio: 1:37 to 1.80:1 Aspect Ratio: 4:3 Resolution: XGA (1024 x 768) Audio Output: 1 Watts Projector Lens: 1.3 x Manual Zoom / Manual Focus.
10	Laparoscope Set	1	Telescope 30 <sup>0</sup> Straight forward enlarged view, diameter 10 mm, length 32 to 35 cm, autoclavable, fiber optic light

SL.NO.	NAME	<b>OF</b>	QTY.	SPECIFICATIONS
1	Т <u>НЕ</u>	n.YOF		
<u> </u>	EQUIPME	NI		transmission incorporated - 3 nos
				<ul> <li>Complete rigid telescope with variable angle of vision from 0 degree to 120 degree, should be controllable via a rotary nob diameter 10 mm, length 31 cm, autoclavable, fiber optic light transmission incorporated - 3 nos.</li> <li>Veress needle with spring loaded blunt stylet, lock, length 13 cm - 3 nos.</li> <li>Veress needle with spring loaded blunt stylet, lock, length 13 cm - 3 nos.</li> <li>Trocar, size 11 mm, with pyramidal tip, cannula without valve, with insufflations stop - cock, length 10.5 cm Multifunctional valve - 3 nos.</li> <li>Trocar, size 6 mm, with pyramidal tip cannula without</li> </ul>
	•			valve, with insufflations stop cock, length 10.5 cm multifunctional valve – 4 nos.
				Safety trocar endoscopic threaded imaging port cannula, size 11 mm, Multifunctional valve.
				• Trocar, size 6 mm, with pyramidal tip Cannula without valve, with insufflation stop- cock, length 10.5 cm Multifunctional Valve -4 no
	<u> </u>			Safety trocar endoscopic threaded imaging port Cannula, size 11 mm, Multifunctional Valve Cannula with thread, with rotational insufflation stopcock, length 10.5 cm -3 no
				Trocar, size 11 mm, with blunt tip Cannula without valve, with insufflations stop cock, with 2 flanges for fixation of sutures length 13 cm Automatic valve Sliding Cone -4no
				Reduction Sleeve, 11 /5 mm -3 no
				Reduction Sieeve, reusable, Instrument-Diameter8 mm, trocar cannula O.D. 11 mm -3 no
				<ul> <li>Mary land Dissecting and Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, double action jaws, consisting of: Plastic Handle without ratchet, Outer Tube, insulated Forceps Insert-2 No.</li> </ul>
				<ul> <li>Bowel Grasper Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, atrau-matic, fenestrated, curved, single action jaws, consisting of: Plastic Handle with ratchet Outer Tube, insulated Forceps Insert- 3 nos</li> </ul>
				<ul> <li>Forceps Insert, BABCOCK Grasping Forceps, atraumatic, jaws with multiple teeth, fenestrated, single action jaws, size 5 mm, length 36 cm-3 nos</li> </ul>
				<ul> <li>Claw Forceps, rotating, size 10 mm, length 36 cm, 2x3 teeth, single action jaws, consisting of: Metal Handle, without ratchet Outer Tube, insulated Forceps Insert- 3 nos</li> </ul>
		_		Dissecting and Grasping Forceps, rotating, with connector     Page 52 of 88

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SL.NO.	NAME OF	QTY.	SPECIFICATIONS
	THE EQUIPMENT		
	EQUITALENT		pin for unipolar coagulation, size 5 mm, length 36 cm, -3
	·		nos  Right angled Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, double action jaws, -3 nos
			<ul> <li>Grasping Forceps, with insulation, size 5 mm, length 36 cm, Handle spring loaded Insert -3 nos</li> </ul>
			• Scissors, rotating, with HF-Connector-Pin, size 5 mm, length 36 cm, single action jaws, slim, serrated, Insulated Handle – 3 nos.
			Biopsy Punch Forceps, rotating, size 5 mm, length 36 cm with 2 teeth, single action jaws, •Metal Handle, without ratchet Outer Tube, insulated - 3 nos
			• Grasping Forceps, 2 x 4 teeth, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, double action jaws, consisting of: Plastic Handle with
			<ul> <li>ratchet Outer Tube, insulated Forceps Insert- 3 nos</li> <li>Needle Holder Parrot -Jaw straight handle, with ratchet, size 5 mm, length 33 cm, for use with suture material 4/0-6/0, needle sizes -3 nos</li> </ul>
			• Macro Needle Holder, ergonomic handle with ratchet, left curved jaws, with tungsten carbide inserts, 5 mm, length 33 cm for use with suture material 0/0-710-3 nos
	•		• Myoma Fixation Instrument, with spiral tip, 5 mm - 2 no
•			Coagulating Suction-/ Irrigation Cannula, bipolar, 0 5mm, length 30cm, for use with suction and irrigation handles -2no
			Clip Applicator, for use with Pilling-Weck Titanium- Clips dismantling, rotating, with ratchet to lock the jaw part holding the clip, size 10 mm, length 36 cm, should consists of Metal Handle, with ratchet Metal Outer - 3 nos
			• Tube Insert -1. It should also consist of Inserts for holding Ethicon Clips - 300 & 400.
			<ul> <li>Rotating Bipolar Dissecting and Grasping Forceps, rotational, with connector pin for bipolar coagulation, size 5 mm, length 36 cm, wide jaws, for dissection and grasping of large vessels and tissue layers, single-action jaws, consisting of: Ring Handle, Outer Sheath Forceps</li> </ul>
			Insert- 3 nos
			• Rotational Bipolar instruments 5mm and 36 cm wide jaws for dissection, grasping and bipolar Coagulation of large vessels and tissue layers. Mary Land type - 3 nos.
			• Rotational Bipolar instruments Type 5mm and 36 cm wide jaws for dissection, grasping and bipolar - 3 nos Hook Scissors, rotating, with connector pin for unipolar
			coagulation, size 5 mm, length 36 cm, single action jaws, consisting of: Plastic Handle, without ratchet Outer

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SL.NO.	NAME OF	QTY.	SPECIFICATIONS
	THE EQUIPMENT		
			Tube, insulated Scissors Insert- 3 nos
			<ul> <li>Suction and Irrigation Tube, anti-reflex surface with two-way stopcock, for single hand, control, size 5 mm, length 36 cm- 3 nos</li> <li>Fascia! Closure Instrument for subcutaneous ligature</li> </ul>
			<ul> <li>of trocar incisions, size 2.8 mm, length 17 cm-3 nos</li> <li>Endo-Loop Ligature, with ROEDER- knot, for bleeding stumps, with absorbable synthetic thread, sterile, package of 12, - 3 nos</li> <li>Distendable fan retractor 5mm length 36 cm which should have simple opening of the fan by axial movement</li> </ul>
			of the outer sheath 3 nos  • Telescope 30° Straight Forward enlarged view, diameter 5mm, length 31 cm, autoclavable. Fiber optic
			light transmission incorporated -3 nos  • High frequency needle for spilling and coagulation insulated, retractable with connector pin for unipolar coagulation length 31 cm - 3 nos
i			Spare needle electrode autoclavable diameter 1.1 mm package of 5 - 2 no
			Ring applicator may be fitted with 2 silastic ring for double puncture laproscopy - 2no
			<ul> <li>Trocar, size 7 mm, consisting of Trocar only, with pyramidal Cannula without valve, with insufflation stop-cock, length 10.5 cm Multifunctional Valve, size 7 mm-3 nos</li> </ul>
			<ul> <li>Coagulation and dissection electrode L type - 2 no</li> <li>Coagulation and dissection electrode Spatula type - 2 no</li> <li>Monopolar Cable - 4</li> </ul>
i			<ul> <li>Bipolar cable – 4</li> <li>Utrine Manipulator – For mobilization of the utres</li> </ul>
			identification of vaginal fornices and sealing of the vagina during hysterectomy the manipulator should include manipulator handle with fixing screw, manipulator rod, sealing cylinder, manipulator sheath, manipulator insert conical, manipulator insert
			<ul> <li>cylindrical, anatomical blade short - 3 nos</li> <li>Fiber Optic Light Cable, size 3.5 mm, length 180 cm - 3 nos</li> </ul>
			✓ Additional Accessories for LAP Set
			<ul> <li>Sterilization Tray - 1 no</li> <li>Co2 Cylinder - 1 no</li> <li>Co2 connector Set - 1 no</li> </ul>
			<ul> <li>10 Minute Instrument Sterilant- 6 bottles</li> <li>Formalin Chamber - 1 no</li> </ul>
		<u></u>	Terms & Condition  ❖ All the above items under category (A,B) should be
			Page 54 of 88

SL.NO.	NAME OF THE	QTY.	SPECIFICATIONS
	EQUIPMENT		
			of same manufacturer of International repute only,  Demonstration Set should be available.  The equipment's must be CE & US FDA Approved  Installation base of Orrisa must be provided  Original manufacturer Service person should be based in Orrisa  Principle manufacturer must have registered service center in India
11	Patient examination table	8	Overall approximate dimension 1890 mm x 560 mm, 74"x 22"x33"(L x W x H), Fixed Upholstered top in two peices of 560 m, 22"(w), Headrest adjustable on gas spring, Upper section of box with three drawers, Lower section comprises of three cabinets with separate doors and lock on two side doors., BP apparatus tray prvided near headrest, Inbuilt sliding step stool, Pre treated and powder coated, Safe working load of 170 kgs and patient load bearing capacity of 135 kgs, Supplied in Semi Knocked Down condition (SKD)
12	Vessel sealer		1. The unit Should be a Microprocessor controlled 350 KHz output, up to 400 Watts class Electrosurgery unit with TFT single display having Touch key Screen  2. Visual indicator for the actual power being delivered through Bar Graph along with audio indicator  3. The unit should multifunctional socket for Vessel sealing based on plug & operate mechanism, also having the facility to upgrade to additional socket if required.  4. The Unit should have heat dissipation without external air passing inside the unit i.e. Internal Cooling system (no conventional external air cooling system)  5. Automatic control of output power according to all currently available electrosurgical regulative technologies to prevent the tissue damage and charring (The output voltage should be regulated in various levels)  6. Should have the facility for preview function to show the expected target tissue effect on display even prior to actiGSTion.  7. Unit should have plug and operate facility.  8. Should have facility to program 99 with procedure or surgeon's name  9. Should have facility of self check of the unit after every On & Off of the unit  10. Unit should have CE and FDA approved  11. Reusable Vessel Sealing instruments for Open Surgery & Laparoscopic surgery - FDA approved instruments for 7mm Vessel Sealing more than 3-times brust pressure with disposable laparoscopic hand accessories for vessel sealing with sealing & cutting.  12. The unit should have special solution for changing the
			Lan.

SL.NO.	NAME OF THE	QTY.	SPECIFICATIONS
	EQUIPMENT		
			power settings without touching the equipment. Also having the initial arc required for cutting has to be automatic depending on the type of tissue and during this time the unit has to be capable to generate up to 400 watts (power peak system).  13. The unit should be supplied with all standard accessories to make the system to work full functional includes (All accessories should be from same manufacturer):  > Reusable Vessel Sealing for Open Surgery – 1 No. OR disposable Vessel Sealing for Open Surgery – 20Nos.  > Reusable Vessel Sealing complete set for Lap Surgery Full Set – 1 Set OR Disposable Vessel Sealing for Lap Surgery – 20 Nos.
13	Electro Cautery	4	<ol> <li>Microprocessor controlled Electrosurgery unit</li> <li>TFT Display with focused view of current active mode</li> <li>Visual and audible alarms during actiGSTion</li> <li>Facility to store programs</li> <li>Power output</li> <li>Maximum cut output 200 Watt for 500 Ohm</li> <li>Maximum Coag output upto 120 Watt</li> <li>Should be upgradable with Argon Plasma Coagulation system</li> <li>Two different Endo Cut modes (Endo Cut I &amp; Q or equivalent) – one for Polypectomy and another one for Papillotomy, this modes should have facility of the cutting duration, coagulation duration and intervals (Preset and reset)</li> <li>Should have two Monopolar and Bipolar outputs</li> <li>Should have Universal Socket for Monopolar, Bipolar and Neutral Electrodes</li> <li>Should have continuous patient monitoring for neutral electrode</li> <li>Should be supplied with Universal adaptor for connecting</li> </ol>
			endoscopi accessories from major manufacturers  The unit should be CE & FDA certified  Should be supplied with following accessories  Patient plate disposable – 500 nos. / Reusable 5 Nos.  Monopolar Bovie Cable – 5 Nos. (compatible to all types of Olympus and Boston Scientific Snare or equivalent)  Electro surgery pencil – 500 nos. / reusable pencil – 5 nos.  Bipolar connecting cable – 2 nos.  Bipolar forceps (non stick) - 2 Nos.  All accessories should be from same manufacturer.
14	Ventouse (Sylastic)	6	<ul> <li>Silicon vacuum cup (ventouse cup)</li> <li>Easy insertion</li> <li>Excellent vacuum seal</li> <li>Minimizes risk of traumas in forcep delivery</li> </ul>



SL.NO.	NAME OF	QTY.	SPECIFICATIONS
	THE	_	
	EQUIPMENT		
15	Ventouse	6	Vacuum Extractor Set, Malmstorm type, manual operated.
	(metalic )		Complete with 3 S.S. Cups, (40, 50, 60 mm)
			PVC pressure tube
			Traction Handle
			Suction Pump
16	Patient Beds	50	Size: 2030 x 900 x 500 mm.
			Epoxy coated mild steel framework
			Mounted on protective stumps
			Provision for I.V. Rod
			Freight saving knock-down construction
17	Suction machine	10	1. Volt-230 Vac
			2. Rating of Motor –continuous
			3. Suction Bottle Capacity – 2 x 2000 ml minimum (with
	1		safety valve)
			4. Guage – 0 to 760 mm Hg
			5. Pump – Oil lubricates rotary pump
			6. Suction Tubings – ID 7 mm, 5m long and non-collapsible
			7. Should have air tight lids
			8. Should have noiseless operation
			9. Should provide filter to absorb moisture and water
			particles entering into the rotor
		ŀ	10. Should have an external provision of topping up of lubricant
		j	11. Should be well designed, cabinet made of mild steel
			powder coated
			12. Should bear ISI Mark
18	USG machine	1	SHOULD BE OF LATEST DIGITAL TECHNOLOGY
10	with colour	-	WITH 12 BIT DIGITAL CONVERTER
	Doppler		• SHOULD HAVE AT LEAST 17" LCD/TFT COLOR
			DISPLAY
			• SHOULD SUPPORT B,M,COLOR,PW,POWER,
Í			DOPPLER MODES
			• Directional power Doppler and advance dynamic flow/e
			flow MUST BE PRESENT For small flow detection
			• SHOULD HAVE 3 ACTIVE PORT
			• SHOULD HAVE HIGH FRAME RATES MORE THAN
			700 FPS
			SHOULD HAVE TISSUE HARMONIC IMAGING     THE PROPERTY OF T
			CAPABILITY IN ALL PROBES  • SHOULD HAVE REAL TIME COMPOUND IMAGING
			TECHNOLOGY
			• BOTH REAL TIME AND FROZEN ZOOM UPTO 16
}			TIMES
İ			• HEMISPHERIC SOUND TCHNOLOGY OR MATRIX
			PROBE AT LEAST IN CONVEX PROBE SHOULD BE
			AVAILABLE TO GET THE BEST POSSIBLE
			PENETRATION AND RESOLUTION TOO
			THE TECHNLOGY SHOULD PROVIDE THE MOST



SL.NO.	NAME OF	QTY.	SPECIFICATIONS
	THE		
<u> </u>	EQUIPMENT		Y A OTHER CUTT MOUNT AND THE PROPERTY OF A TIMAY
			LIGT WEIGHT VOULUME PROBE 200 GMS AT MAX
			• 3D SHADING , STIC , MULTI- SLICE IMAGING
			SHOULD BE AVAILABLE
		Ĺ	• REAL TIME QUANTIFICATION OF DOPPLER
			PARAMETERS WITH SMART TRACE  • FACILITY OF MULTI LEVEL AND USER
		]	
			CONFIGURABLE SPECKLE REDUCION TECHNOLOGY
			AS IN BUITLT
			SPECIAL SOFTWARE FOR INTIMA MEDIA  THIS CALL OF TERROR OF THE PAGE A CENTER OF THE PAGE
]			THICKNESS CALC(IMT PACKAGE)
			ADVANCED FEATURES LIKE ECHO TRACKING
			MUST BE OFFERED AS
			FEUTURE UPGRADE
			ADVANCED CONTRAST IMAGING MUST BE
			OFFERED AS FEUTURE
			UPRADE
			• ALL PROBES SHOULD BE MULTIFREQUENCY WITH
	1		MINIMUM 5 FREQUENCY SELECTIONS  • CINE LOOP MEMORY OF MORE THAN 15000
(			1
			FRAMES AND 60 SEC M/D
			SCROLL  GGANDING DEPTH MINIMAN 24 CMS
			• SCANNING DEPTH MINIMUM 34 CMS
			• EXHAUSTIVE SOFTWARE FOR WHOLEBODY
			APPLICATIONS WITH
			REPORT FORMATS  • 1000 PATIENT DATA MEMORY SHOULD BE
	-		
			AVAILABLE  • SHOULD HAVE INTEGRATED HARD DISK FOR
j			IMAGE
			STORAGE/RECALL WITH COMPLETE IMAGE
			MANAGEMENT WITH COMPLETE MARKE
			• DIRECT COMPATIBILITY TO ATTACH
		i	INKJET/LASERJET PRINTER
		-	ALONG ITH A CD-RW MUST BE AVAILABLE
			• THE SYSTEM MUST HAVE FACILITY FOR
			UPGRADATION TO REAL
			TIME 4D IMAGING USING ABDOMINAL &
1			TRANSVAGINAL VOLUME
			PROBE(PRICES TO BE OFFERED OPTIONALLY)
			TISSUE DOPPLER IMAGING SHOULD BE
			AVAILABLE AS OPTION
			ANGULAR M-MODE/ANATOMICAL M-MODE
		1	OPTION SHOULD BE
			AVAILABLE
			• SYSTEM TO BE OFFERED WITH MULTIFREQUENCY
1			CONVEX, LINEAR
			ENDOCAVITARY PROBES AND 4D ABDOMINAL AND
			VAGINAL 4D
			PROBES
		1	Page 58 of 88

accessories: All probes should be wide band frequency probes for Convex, TV, Linear, Tissue Harmonic Imaging should be available in all the above probes, and Biopsy should be available with Convex & TV / TR Probe.  • Should have multi frequency convex array probe 2-6 MHz for abdominal imaging.  • Should have 5-16 MHz broadband Linear Array probe for vascular imaging.  • Should have multi frequency TV/TR probe 5-9 MHz  • 2-4 MHz broadband phased array sector probe for adult cardiac imaging must be offered as option.  19 Pelvic Maniquine  19 Pelvic maniquin: Pelvic Manikin the manimin should resemble female pelvic model. Pubic bone should model should withstand the pressure. Baby movement of the baby should be easier and to be controlled by a trainer. Should allow teaching  • Normal delivery  • Shoulder dystocia  • Cord prolapsed  • Breech delivery  • Delivery of the placenta  • PPH management the manikin should be provided with  • A fetus  • Umbilical cords  • Placenta  20 Dummy Pelvis 5 Made of PVC plastic	SL.NO.	NAME OF	QTY.	SPECIFICATIONS
PHASED ARRAY ADULT CARDIAC PROBE WITH CARDIAC APPLICATION SOFTWARE TO BE OFFERED AS OPTION WITH STEERABLE CWD  • THE UNIT SHOULD BE DICOM READY FOR CONNECTING TO REMOTE SERVER/LASER CAMERA System should be offered with the following probes and accessories: All probes should be wide band frequency probes for Convex, TV, Linear, Tissue Harmonic Imaging should be available in all the above probes, and Biopsy should be available in all the above probes, and Biopsy should be available with Convex & TV / TR Probe.  • Should have multi frequency convex array probe 2-6 MHz for abdominal imaging. • Should have multi frequency TV/TR probe 5-9 MHz • 2-4 MHz broadband phased array sector probe for vascular imaging must be offered as option.  19 Pelvic Maniquine  19 Pelvic 2 Pelvic maniquin: Pelvic Manikin the manimin should resemble female pelvic model. Pubic bone should model should withstand the pressure. Baby movement of the baby should be easier and to be controlled by a trainer. Should allow teaching  • Normal delivery • Shoulder dystocia • Cord prolapsed • Breech delivery • Delivery of the placenta • PPH management the manikin should be provided with • A fetus • Umbilical cords • Placenta  20 Dummy Pelvis  5 Made of PVC plastic				
CARDIAC APPLICATION SOFTWARE TO BE OFFERED AS OPTION WITH STEERABLE CWD THE UNIT SHOULD BE DICOM READY FOR CONNECTING TO REMOTE SERVER/LASER CAMERA System should be offered with the following probes and accessories: All probes should be wide band frequency probes for Convex, TV, Linear, Tissue Harmonic Imaging should be available in all the above probes, and Biopsy should be available in all the above probes, and Biops		EQUIPMENT		
Maniquine  resemble female pelvic model. Pubic bone should model should withstand the pressure. Baby movement of the baby should be easier and to be controlled by a trainer. Should allow teaching  Normal delivery Shoulder dystocia Cord prolapsed Breech delivery Delivery of the placenta PPH management the manikin should be provided with A fetus Umbilical cords Placenta  Dummy Pelvis  Made of PVC plastic		EQUIPMENT		CARDIAC APPLICATION SOFTWARE TO BE OFFERED AS OPTION WITH STEERABLE CWD  THE UNIT SHOULD BE DICOM READY FOR CONNECTING TO REMOTE SERVER/LASER CAMERA System should be offered with the following probes and accessories: All probes should be wide band frequency probes for Convex, TV, Linear, Tissue Harmonic Imaging should be available in all the above probes, and Biopsy should be available with Convex & TV / TR Probe. Should have multi frequency convex array probe 2-6 MHz for abdominal imaging. Should have 5-16 MHz broadband Linear Array probe for vascular imaging. Should have multi frequency TV/TR probe 5-9 MHz A Hz broadband phased array sector probe for adult cardiac imaging must be offered as option.
20 Dummy Pelvis 5 Made of PVC plastic	19	<b>.</b>	2	resemble female pelvic model. Pubic bone should model should withstand the pressure. Baby movement of the baby should be easier and to be controlled by a trainer. Should allow teaching  Normal delivery  Shoulder dystocia Cord prolapsed Breech delivery Delivery of the placenta PPH management the manikin should be provided with A fetus Umbilical cords
	20	Dummy Pelvis	5	
	21	Specimen jars	50	2' x 1' & 1' x 1', 2' x 2'



SL.NO.	NAME OF THE EQUIPMENT	QTY.	SPECIFICATIONS
22	Focussing Light for labour room  Pelvic trainer (Laporscope, Hysterscope)	2	Signal-Stat, LED, Red/Yellow Square, 24 Diode, LH, Dual Face, Vertical Mount, Side Marker  1 X MEDISIMU simulator 1 X Cutting Trainer for Laparoscopic MEDISIMU simulator 1 X Suturing Trainer for Laparoscopic MEDISIMU simulator 1 X Laparoscopic Forceps 05x330mm 360° Rotation 1 X Laparoscopic Scissors 05x330mm 360° Rotation 1 X Laparoscopic Needle Holder V Type 05X330mm 1 X Surgical Knife with 10 blades for suture training kit 1 X Box of 12 Surgical 3/0 Silk Braided Suture for training use. 3 X Maze for trainer 1 X Maze or T-shape plate for trainer 5 X Rounded Rods for trainer 1 X Tik-Tac-Toe plate for trainer 1 X Tik-Tac-Toe rods for trainer 5 X T-shape for trainer 2 X Height expander 1 X Angle expander 1 X User manual
24	Cryo Instrument		A. Operating Pressure Range: 40-60 bar.  B. Coolant: N20 or C02 in two cylinders (A type).  C. Gas consumption for freezing: ca.35g - 50 g/min.  D. Max. exhaust gas volume: 40-60 l/min.  E. The unit has Manometer to monitor operating pressure.  F. A different indicator lamp to indicate freezing and defrosting phase.  G. Connection pipe for gas exhaust.  H. Mounted in a cart with cylinder case for easy mobilization.  I. ActiGSTion is via footswitch or hand control.  J. Min freezing temperature reachs within 5 seconds.  K. Supplied with multiple different sized probe-tips to cater for cervical cryocautery of lesion of all sizes  512Gb Hard Disk with i-5 processor with 2Gb RAM with
25	Desktop Set with LCD monitor and Printer		wifi Modem, UPS, 1916HV 18.5 inch LCD monitor with Printer with Scanner

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Large   Single   Bladed speculum   Sims, 52.20.00; vaginal speculum double ended   Sims, 52.20.00; vaginal speculum double ended   Size 1: blade one side 70x25 mm, other 75x30mm   Size 3: blade one side 75x30 mm, other 80x35mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 70x25 mm, other 90x40mm   Size 3: blade one side 70x25 mm, other 90x40mm   Size 3: blade one side 70x25 mm, other 90x40mm   Size 5: spring 7x250 mm, other 90x40mm   Size 5: spring 7x250 mm, other 90x40mm   Size 5: spring 90x40mm   Size 6: spring; other 90x40mm   Size 6: spring; other 90x40mm   Size 6: spring; other 90x40mm   Size 6: spring; other 90x40mm   Size 6: spring; other 90x40mm   Size 6: spring; other 90x40mm   Size	SL.NO.	NAME OF	QTY.	SPECIFICATIONS
Sponge Holder   20   18 cm, made up of stainless steel			- !	
Sponge Holder   20				
Large Single Bladed speculum   Sims, \$2.20.00; vaginal speculum double ended   Sims, \$2.20.00; vaginal speculum double ended   Size 1: blade one side 70x25 mm, other 75x30mm   Size 2: blade one side 75x30 mm, other 90x40mm   Size 2: blade one side 80x35 mm, other 90x40mm   Size 3: blade one side 80x35 mm, other 90x40mm   Size 4: blade one side 80x35 mm, other 90x40mm   Size 4: blade one side 80x35 mm, other 90x40mm   Size 4: blade one side 80x35 mm, other 90x40mm   Size 6: blade 9		<del></del>		
Sims, \$2.20.00; vaginal speculum double ended   Size 1 : blade one side 75x30 mm, other 80x35mm   Size 2 : blade one side 75x30 mm, other 80x35mm   Size 3 : blade one side 75x30 mm, other 90x40mm   Size 3 : blade one side 80x35 mm, other 90x40mm   Specifications material: Dissecting forceps, springy Available with our without teeth Flexible arms Good adjustment of the teeth Good gripping of the jaws Length: 14.5, 18, 20cm Packaging: unit presentation individual, with protective wrapping The following should appear on the packaging: designation of the instrument name and address of supplier (manufacturer) other requirements; conforms to ISO   14.5cms.	26			
Dissecting forceps, springy Available with our without teeth Flexible arms Good adjustment of the teeth Good gripping of the jaws Length: 14.5, 18, 20cm Packaging: unit presentation: individual, with protective wrapping The following should appear on the packaging: designation of the instrument – name and address of supplier (manufacturer) other requirements: conforms to ISO  29 Episiotomy scissors  30 Allies Forcep 8" 50 Surname Allis Length 7-1/2" Tip configuration 5x6 Teeth Instrument Type Tissue Grasping Forceps CurGSTure straight handle finger rings material stainless steel disposable or reusable sterile or non-sterile latex or latex-free grade premium or grade.  31 Instruments Trolly 5 Strong stainless steel shelves Provision of SS railing on both top and bottom shelves Mounted on 4x100 castors, 2 with breaks Size: 60L x 50W x 80H cm\  Supplied in knock down condition  32 Instuments Tray 20 Stainless steel with cover, 45"x30"  33 Suction machine 10 1. Volt-230 Vac 2. Rating of Motor – continuous 3. Suction Bottle Capacity – 2 x 2000 ml minimum (with safety valve) 4. Guage – 0 to 760 mm Hg 5. Pump – Oil lubricates rotary pump 6. Suction Tibings – ID 7 mm, 5m long and non-collapsible 7. Should have air tight lids 8. Should have noiseless operation 9. Should provide filter to absorb moisture and water particles entering into the rotor 10. Should have an external provision ofr topping up of lubricant 11. Should be well designed, cabinet made of mild steel powder coated 12. Should bear ISI Mark	27		10 	Sims, 52.20.00; vaginal speculum double ended Size 1: blade one side 70x25 mm, other 75x30mm Size 2: blade one side 75x30 mm, other 80x35mm
29 Episiotomy scissors  Allies Forcep 8" 50 Surname Allis Length 7-1/2" Tip configuration 5x6 Teeth Instrument Type Tissue Grasping Forceps CurGSTure straight handle finger rings material stainless steel disposable or reusable sterile or non-sterile latex or latex-free grade premium or grade.  31 Instruments 32 Trolly  33 Instruments Tray 34 Experiments Tray 35 Suction machine 36 Suction machine 37 Instruments Tray 38 Suction machine 39 Suction machine 40 Stainless steel tubular frame work  50 Frovision of SS railing on both top and bottom shelves  60 Mounted on 4x100 castors, 2 with breaks  60 Stainless steel with cover, 45"x30"  10 Stainless steel with cover, 45"x30"  11 Volt-230 Vac  22 Rating of Motor—continuous  33 Suction Bottle Capacity — 2 x 2000 ml minimum (with safety valve)  43 Guage — 0 to 760 mm Hg  54 Pump — Oil lubricates rotary pump 65 Suction Tubings — ID 7 mm, 5m long and non-collapsible 77 Should have air tight lids 88 Should have noiseless operation 99 Should have air tight lids 89 Should have an external provision of topping up of lubricant 110 Should be well designed, cabinet made of mild steel powder coated 120 Should bear ISI Mark	28	Tooth Forcep	10	Dissecting forceps, springy Available with our without teeth Flexible arms Good adjustment of the teeth Good gripping of the jaws Length: 14.5, 18, 20cm Packaging: unit presentation: individual, with protective wrapping The following should appear on the packaging: designation of the instrument – name and address of supplier (manufacturer) other
Allies Forcep 8"  Surname Allis Length 7-1/2" Tip configuration 5x6 Teeth Instrument Type Tissue Grasping Forceps CurGSTure straight handle finger rings material stainless steel disposable or reusable sterile or non-sterile latex or latex-free grade premium or grade.  Instruments Trolly  Strong stainless steel tubular frame work  Two stainless steel shelves  Provision of SS railing on both top and bottom shelves  Mounted on 4x100 castors, 2 with breaks  Size: 60L x 50W x 80H cm\  Supplied in knock down condition  Stainless steel with cover,45"x30"  Volt-230 Vac  Rating of Motor—continuous  Suction Bottle Capacity — 2 x 2000 ml minimum (with safety valve)  Guage — 0 to 760 mm Hg  Pump — Oil lubricates rotary pump  Suction Tubings — ID 7 mm, 5m long and non-collapsible  Should have air tight lids  Should have noiseless operation  Should have an external provision ofr topping up of lubricant  Should be well designed, cabinet made of mild steel powder coated  2. Should bear ISI Mark	29		20	14.5cms.
Trolly  Two stainless steel shelves  Provision of SS railing on both top and bottom shelves  Mounted on 4x100 castors, 2 with breaks  Size: 60L x 50W x 80H cm\ Supplied in knock down condition  Instuments Tray  Stainless steel with cover, 45"x30"  L Volt-230 Vac Rating of Motor -continuous Suction Bottle Capacity - 2 x 2000 ml minimum (with safety valve)  Guage - 0 to 760 mm Hg Fump - Oil lubricates rotary pump Suction Tubings - ID 7 mm, 5m long and non-collapsible Should have noiseless operation Should have noiseless operation Should have an external provision of topping up of lubricant Should be well designed, cabinet made of mild steel powder coated Should bear ISI Mark	30		50	Instrument Type Tissue Grasping Forceps CurGSTure straight handle finger rings material stainless steel disposable or reusable sterile or non-sterile latex or latex-free grade
Instuments Tray   20   Stainless steel with cover,45"x30"	31		20	<ul> <li>Two stainless steel shelves</li> <li>Provision of SS railing on both top and bottom shelves</li> <li>Mounted on 4x100 castors, 2 with breaks</li> <li>Size: 60L x 50W x 80H cm\</li> </ul>
<ol> <li>Rating of Motor -continuous</li> <li>Suction Bottle Capacity - 2 x 2000 ml minimum (with safety valve)</li> <li>Guage - 0 to 760 mm Hg</li> <li>Pump - Oil lubricates rotary pump</li> <li>Suction Tubings - ID 7 mm, 5m long and non-collapsible</li> <li>Should have air tight lids</li> <li>Should have noiseless operation</li> <li>Should provide filter to absorb moisture and water particles entering into the rotor</li> <li>Should have an external provision of topping up of lubricant</li> <li>Should be well designed, cabinet made of mild steel powder coated</li> <li>Should bear ISI Mark</li> </ol>	32	Instuments Tray	20	
	33		10	<ol> <li>Rating of Motor -continuous</li> <li>Suction Bottle Capacity - 2 x 2000 ml minimum (with safety valve)</li> <li>Guage - 0 to 760 mm Hg</li> <li>Pump - Oil lubricates rotary pump</li> <li>Suction Tubings - ID 7 mm, 5m long and non-collapsible</li> <li>Should have air tight lids</li> <li>Should have noiseless operation</li> <li>Should provide filter to absorb moisture and water particles entering into the rotor</li> <li>Should have an external provision of topping up of lubricant</li> <li>Should be well designed, cabinet made of mild steel powder coated</li> </ol>
THEN T MARKAGE TO 1 OF T	Instrun	ent for OT	·	

SL.NO.	THE	QTY.	SPECIFICATIONS
	EQUIPMENT		
34	Kochers Forcep	20	Kocher Forceps 14cm
	(curve)		Straight / Curved
			Material: Stainless Steel
			Rusting Prevention Procedure: PassiGSTed
			Ultrasonic Cleaned :Yes
			Lubricate: Yes
			Polished: yes
			Usage: Left Hand or Right Hand
	4 V7	20	Tests Performed: Boil Test, Performance Test, Shape Test
35	Kochers Forcep	20	(straight)
36	Allies Forcep 8"	50	Surname Allis Length 7-1/2" Tip configuration 5x6 Teeth
30	Timbe I divep o	••	Instrument Type Tissue Grasping Forceps CurGSTure
			straight handle finger rings material stainless steel disposable
			or reusable sterile or non-sterile latex or latex-free grade
			premium or grade.
37	Doyen's	10	Length 9-3/4 tip dimensions 1/2 x 2 tip, configuration blade
-	Retractor		instrument Type retractor material stainless steel disposable
	1		or reusable sterile or non sterile latex or latex free grade
			premium or grade
38	Myoma Screw 6"	10	53: myoma screw: Material: Stainless steel
			Size: 6/", 7/" / 150 mm, 175 mm
39	D & C Set	10	
40	Uterine Curette	5	Uterine curette: dimensional and other requirements for
		ŀ	double ended uterine curette, Sim's pattern with both ends
	-	10	sharp
41	Surgeons	10	Straight, S/S: 12-13 cm long b-Curbed, B/B, 17-18 cm long
	Scissors curved		
42	Stitch Cutting	10	Straight, 15-18 cm
	scissor		
43	Needle Holder 8"	10	Wide serrated jaws, 150-160 mm with fine tip b-length of
			120-130 mm, Halsey type with fine tip
44	Vascular Clamp	2	Curved, serrated jaws, 130 mm b-curved, serrated jaws, 175
	8"	ļ	mm c-straight, serrated jaws, 130 mm d-straight, serrated
			jaws, 175mm
45	Wertheims Ritht	4	Length of 8" and contains a ratchet mechanism on the inner
	Angle Clamp		ring handles. The 2" right angle jaws with longitudinal
			serrations
46	Abdominal	2	2-3/4" x 10" Mayo Abdominal retractor. Surname Mayo
	Retractor		Length 10" Tip Configuration Blade Instrument Type
			Retractor Material Stainless Steel Disposable or Reusable
			Sterile or Non-Sterile Latex or Latex Free.
47	Vaginal Hook	5	Made from Martensitic Stainless Steel Grade AISI 410 and
	Retractor		AISI 420. 90 x 25mm
		<u> </u>	surface: Silk matte satin finish / polish finish
48	Uterine Clamps	10	Instrument Family Heany instrument grade German grade



SL.NO.	NAME OF THE EQUIPMENT	QTY.	SPECIFICATIONS
	8"		stainless steel jaw style serrated latex free no length inches 8.25 in length in CM 20.96 cm shank type straight
49	Suction Canula (Metalic)	20	Cannula stainless steel aspiration, METALLIC SUCTION CANNULA 3.0 MM.
50	Single bladed Vaginal Speculum	10	6" handle 6 cm blade length
51	Kochers Clamp	10	6" & 8"

3

ŞL.NO.	NAME OF THE	QTY.	SPECIFICATIONS	
	EQUIPMENT			
ANAESTHESIOLOGY				
1	Combined epidural & Spinal Injection	100	SPECIFICATION – CSECURE® MINIPAKS (Contains CSEcure® needle set with lock, catheter (3 eyes) and connector, Filter (0.2µm), LORD, Fixation sponge, catheter ID label  SPECIFICATION – CSECURE® NEEDLE SETS	
			Tuohy 18G Needle With Attachable Wings	
<b>.</b>			Spinal Needle 27G Spinal Needle	
			Type PENCIL TYPE  CSE Needle Systems  • Providing the rapid onset and reliability of a spinal block,	
t c			allowing anaesthesia to be prolonged both intra and post- operatively via an epidural catheter  • Designed for optimal performance, minimising drag of needle through needle and maximising feel of dural puncture  • Rapid CSF flashback to confirm correct needle tip	
		<u>.</u>	position  • CSEcure'sTM unique needle hub locking feature enables tip relationships to be maintained after dural puncture, providing increased confidence of correct spinal needle tip position during injection of the anaesthetic  1. The machine should be US FDA approved with details	
2	Multiprobe RF Machine	1	of previous sales to reputed institutions.  2. Adequate safety to operator, patients, attendants and other medical apparatus connected.  3. Device should have both the output frequencies-Monopolar and Bipolar.  4. Device should have output frequency: 4 MHz for	
			Monopolar and 1.7 MHz for Bipolar.  5. Device should have a minimum output power of 90 W.  6. Device should have Cut (90W or above), blend (65 W or above), Coag( 45 W or above), fulgurate( 35 W or above) and bipolar (90 W or above) output waveforms.  7. Device should come with a dual frequency footswitch and cable.  8. Device should have an option of both reusable and	
			disposables consumables.  9. Device should have Digital Control Panel for easy operation and clear view of settings.  10. Device should have Solid State Circuitry for dependable and consistent energy emission.  Page 64 of 88	

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SL.NO.	NAME OF THE	QTY.	SPECIFICATIONS
	EQUIPMENT	·	
			11. Device should have auto-cut facility.
			12. Device should have safety indicators to provide visual
			and auditory alerts.
			13. Device should have parameter recall for rapid set-up.
			14. Device should have an audible alarm for neutral plate
			dislodgement.
•			15. Device should be able to produce very sharp and precise cutting, negligible lateral heat production, and
			adequate haemostasis.  16. Device should come with a foot-controlled handpiece.
			17. Device should come with a handpiece clip.
			18. Device should come with a three-button finger switch
			handpiece.
			19. Device should be a quieter system, small, lightweight generator for easy portability.
			<ul><li>20. Weight of the machine should not be more than 10kg.</li><li>21. Device should come with a reusable medical electrode</li></ul>
1			kit.
			22. Device should come with a reusable neutral plate that
			does not require skin contact.
			23. Device should come with an instantly ready to use
			hand piece.
		ļ	24. Device should have platform to use multiple
	1		electrodes, for various surgical procedures.
			25. Device should be able to treat following indications –
			moles, verrucae vulgaris, rhinophyma, nevus, papilloma or
			flat warts, seborrheic keratosis, hemangioma, venous lake, benign lesions of scalp, soft fibroma, telangiectasia,
			keloids.
			26. Standard accessories should include:
			1. Neutral plates 2. Two sets of surgical electrodes (loops, balls, knives, pin,
			finewire, needle, sharp pointed electrodes, scalpel,
			coagulation ball). Loops should be round, oval, triangular
			and diamond shaped. Electrodes' proximal diameter should
]			be 1.6 mm and 2.4 mm, to accommodate standard hand
			piece connection.
			3. RF Surgipens
			4. Bipolar forceps with cable.
		i	5. Instruction manual
3	Resuscitation	1	Silicone Resuscitation Adult (1500 ml)
	equipment (CPR)-		Airways Sizes 2,3,4, No.
	Ambu Bag with		<ul> <li>Guedel Airways – 2,3,4 No.</li> </ul>
	face mask		Mouth Opener
			Hand Suction
			Oxygen Tube
		[	Oxygen Reservoir Bag with Valve
			AMBU BAG
			The complete resuscitator system with all accessories
		<u> </u>	required for a rescuer/ambulance. Color of the bag: yellow/

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SL.NO.	NAME OF THE EQUIPMENT	QTY.	SPECIFICATIONS
			white/black/blue. The dead space of the valve is only 8 ml. The connection diameters are ISO 15/22 mm. All of the models are supplied with transparent patient valve with rotating connection, Pressure limiting valve, Transparent oxygen reserve valve, Face mask, PEEP valve. It is also available is silicone, PVC and rubber versions if required.  Pocket mask with oxygen port (should be widely available in all clinical areas)  Self inflating resuscitation bag with oxygen reservoir and tubing (ideally, the resuscitation bag should be single use — if not, it should be equipped with a suitable filter)  Clear face masks, sizes 3,4 & 5  Oropharyngeal airways, sizes 2, 3 & 4
4	Trueview Larygoscope	2	<ul> <li>Nasopharyngeal airways, sizes 6 &amp; 7</li> <li>Easy to transport &amp; Set up flexible video scope with monitor for intubation and Bronchoscope.</li> <li>It should be facilitate with video output should be supplied with monitor</li> <li>Monitor should have video recording and capability to take still images and should have storage of minimum 8GB.</li> <li>Monitor should have at least 4 hours battery backup. It can be mount on IV pole Maximum start up time should not be more than 10 sec.</li> <li>Minimum length should be 600mm.</li> <li>It should be direct both the way 130 degree with thumb control lever with paediatric scope. 150 degree up and 130 degree down with adult scope and 140 degree up and 110 degree down with large scope.</li> <li>It should have ET tube parking slot.</li> <li>Scope should have outer diameter of 3.6-3.9 mm, working channel more than 1.0 mm for paediatric scope, outer diameter of 4.8-5.2mm, working channel more than 2.0 mm for adulate scope, outer diameter of 5.6-5.9 mm, working channel of 2.7 mm for large scope.</li> <li>It should have additional working channel and can be used for oxygen flushing.</li> <li>It should be integrated with camera chip and LED light source.</li> <li>System should be supplied with 6 nos of sterile scopes.</li> <li>Should be USFDA &amp; European CE approved,</li> </ul>
			confirming to international standards of safety.

SL.NO.	NAME OF THE	QTY.	SPECIFICATIONS
5	MRI Compatible	1	Specification of MRI Compatible monitor
3	monitor		Monitor should be equipped with MRI shielding for up to 3T machine and set to remote communication mode.
			Should be MRI safe up 200 gauss line.
			Monitor should have FDA & CE approval.
			4. Should have real time safe distance indicator.
		į	5. It should be capable of monitoring ECG, SpO2 & NIBP, IBP & EtCO2 with option of upgrading to 2 <sup>nd</sup> IBP & 2 Temperature and full gas module in the
			future. 6. The monitor should have wireless SpO2 and ECG
<u> </u> 			sensor which should be chargeable inside the MRI room.
			<ol><li>The monitor should have adult, paediatric and neonatal applications using the same sensor.</li></ol>
			8. Should have integrated power supply for charging monitor and sensors/accessories inside the MRI Room with battery backup option of at least 6 hours.
			<ol> <li>SpO2 &amp; ECG Sensors should be wireless &amp; have Lithium polymer battery with back up of at least 8 hours.</li> </ol>
			10. Should have integrated power supply for charging monitor and sensors/accessories inside the MRI Room.
			11. Should have at least 15" colour TFT display touch screen with high resolution (800*600) display.
			12. It should be operational at wide temperatures (10°C to 40°C) and humidity (20% to 90%)
			13. Should be able to store and view at least 8 hours trend memory both graphical and tabular with option of selection the intervals of storing the trends.
			14. Should have a facility to deactivate all the alarms if necessary.
			15. Should provide a digital value of the arterial oxygen saturation as well as diagnostic plethysmographic pulse waveform.
			16. Should have 3 Lead ECG and should display one or all the selected leads at a time.
			17. Should be able to display at least 5 waveform and all related numerical parameters.
1			18. Monitor mode: digital signal processing (DSP)
			19. T-wave suppression for high field MRI
			<ul><li>20. Should have arrhythmia monitoring facility.</li><li>21. Should have user selectable upper and lower limit</li></ul>
		1	of alarms.
		1	22. Heart rate measuring ranges 30-300 beats/min.
		<u> </u>	23. The monitor should be defibrillation proof.
			Page 67 of 88
			1/2
			1

SL.NO.	NAME OF THE	QTY.	SPECIFICATIONS
	EQUIPMENT		24. The monitor should have option of upgrade of features in future.
6	MRI Compatible Anaesthe Machine		Anaesthesia Machine should have the following features:i Should be constructed of Stainless steel 304 material fram mounted with four nos of castor wheels with locking arrangement in front castors.ii Should have drawer unit, large Work tray and Top tray made up of stainless steel material.iii Should have colour coded ring indexed pipeline connections for O2, N2O and Airiv Should have pin indexed yoke for two O2 & one or two N2O cylinder.v Should have Anti hypoxic device with reliable lever mechanism to prevent flow of less than 21% of Oxygen and to enable O2, N2O mixture 1:3vi Should have antistaic flow meters for O2, N2O and Air.vii Should have pressure gauges for both Pipeline and Cylinder pressure indication.viii Should have interlock mounting system to mount 2 nos of Seletatec Vapourisersix Should have Non-Return Valve on Back Bar to protect Vapouriserx Should have movable Patient block with 22M/15F mm common gas outletxi Should have Emergency O2 flush buttonxii Should have Patient safety blow off valve set at 50 cmH2Oxiii Should have Pneumatic Oxygen failure alarm for Oxygen failurexiv Should have high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pressure relief valve (set at 600KPa) to prevent high pre

SL.NO.	NAME OF THE EQUIPMENT	QTY.	SPECIFICATIONS	
7	PCA Pumps	10	Syringe Size Syringe	:1 ml-20 ml Single use
			Infusion Rate	: imm /hr-99 mm/hr
			Alarms	:Battery Depleted,
			Mechanical, Error,	
			,	Occlusion Syringe
			Disengaged,	. •
	Į.			Completion
			Accuracy	:±2%
			Bolus Volume	:No limit, min 0.1 ml
			"Low Batt: LED Indicator Yellow/Red indicator when	: Flashing
				battery is low or
			depleted	,
			Maximum infusion Pressure syringe)	:≤0.12 MPa (with 10m1
			Occlusion Alarm Pressure	: 0.12 MPa (with
			10ml syringe) CE 0197,	IEC 606601
			Safety Approvals	: -1-8 : 2003, Type
			CF IPX1	1 -1-5 . 2005, 15pc
			Battery Size	: AAx3
			Dimensions	: 16(w) x 60(D) 30(H) mm
	1		Weight	: ≤180g (battery weight not
			included.	_ • • •
8	TCO2 & TCPO2	5	1. The monitor shoul	d be modular and should
	monitoe		measure these paran	neters for all type of patient
				Neonatal): 12 lead ECG,
				o/Nellcor SPO2 Technology,
				nultaneous monitoring of dual
				skin), upgradeable to module
				channel EEG, Transcutaneous
				h 41BP, CO with 4IBP is must
			for all quoted monito	have: Highly visible, bright,
				or above colour Medical grade
		İ		G, ST analysis, Advance
				as standard. The monitor
		1		indicator for the type of alarms
				arm should glow in different
			colour indicating	
				of the alarms. Should be able to
			operate through rotar	
			3. The monitor should d	lisplay at least 8 waveforms on
			a single screen al	ong with related numerical
			parameters on a sir	ngle screen. The size of the
				adjustable capable to become
				om very long distance.
			4. It should display ins	pired and expired anaesthesia
			gas monitoring with	h automatic identification of
				Page 69 of 88

SL.NO.	1	QTY.	SPECIFICATIONS
	EQUIPMENT		11616
			agents and MAC values.
			5. There should be alarm limit setting for every
			parameter.
		ļ	6. It should have emergency nurse call alarm function
		<b>!</b>	and defib-sync function.
	<b>t</b>		7. It should have capability to view all 12 lead ECG
•			simultaneously on screen along with ST segment
			analysis/mapping and arrhythmia analysis.
			<ol> <li>The patient monitor and parameter modules should be US FDA approved for safety and quality</li> </ol>
			assurance.
		ļ	9. There should be provision for using wireless LAN
		1	card with power off storage function and monitor
1			should be capable to support networking and
			compatibility to use with central monitoring
			system. Wired connectivity should be standard.
			10. It should have calculation package for: Drugs,
			Hemodynamic, Ventilation
		1	11. It should be provided with proper mounting for
ţ			monitor stand.
			12. It should have facility to interchange all the
			modules/servers/pods between all the monitors so
			that one or more optional modules/ servers can be
		-	operable on all monitors at different point of time
			without needing the help of service engineer.
ļ			13. It should have the capability to provide event
1			review based on the events defined by the user of
			the monitor as per the specific condition of the
			patient.
		1	14. Display setting should have various configurable
		1	user defined setups variable as per applications for
ļ			
			operative, general monitoring etc.
			15. Monitor should be capable to display events frends
		1	for all monitored parameters and also capable to
			provide event review based on the events defined
1			
			opperiousness with the Ri-spectral index option
			17 Red to hed view facility between monitors should
		1	
•			
			Cittainer orange measure
			anywhere including access of online waveforms
			and numeric remotely in Hospital and outside
		ļ	hospital (consultants residence internet) through
	1		hardwired LAN connection, or through modem.
<u> </u>	<u> </u>		n Page 70 of 88
			<ul> <li>14. Display setting should have various configurable user defined setups variable as per applications for flexible use of the monitor in various clinical environments like emergency, training, possion operative, general monitoring etc.</li> <li>15. Monitor should be capable to display events trend for all monitored parameters and also capable to provide event review based on the events define by the user of the monitor as per the specific condition of the patient.</li> <li>16. It should have the option monitoring level consciousness with the Bi-spectral index option.</li> <li>17. Bed to bed view facility between monitors should be standard.</li> <li>18. Should have the facility of remote access of multichannel bedside monitors and anaesthesi ventilators data (waveforms, trends, loops) from anywhere including access of online waveform and numeric remotely in Hospital and outside hospital (consultants residence, internet) through hardwired LAN connection, or through modern</li> </ul>

SL.NO.	NAME OF THE EQUIPMENT	QTY.	SPECIFICATIONS
			(Quote separately and specify the capacity of one server (hardware & software)  19. It should be both US FDA/ European CE (Notified body) approved for safety and quality assurance (for both standard and optional supplies)  20. The price of accessories and mounting option should be quoted separately and that should be freezed for next 5 years
9	Advanced Anaesthe	4	General Requirement
	workstation		<ul> <li>a) Compact and modular, three gas Anaesthesia workstation with an integrated ventilator for adult to infants and integrated airway monitor for airway pressures and volume.</li> </ul>
			b) The machine should be suitable for low and minimal flow anesthesia application with compliance compensation of breathing ckt, fresh gas flow compensation/decoupling.
			c) The machine should have minimum 2 drawers.
			d) The anaesthesia machine, inbuilt ventilator, vaporizer and patient monitor should be manufactured by same company to maintain uniformity of part and efficient after sale service.
			e) Dual Cascade type flow meter tubes for Oxygen&N20.Range 20 ml/min to 10 Lit/min. Calibrated in multiple scales. Single tube for air 100 ml to 14 L/min.
			<ul> <li>f) The system should have upto 2 Hrs. battery backup.</li> <li>g) System should confirm to European CE and EN 60601-2-13(Requirement for safety and essential performance of anaesthesia system).</li> </ul>
			h) Should have integrated anaesthesia gas monitoring module with automatic identification of agent with values display on patient monitor.
			2. Gas delivery system
1	!		<ul> <li>a) Should have pin index yokes for Oxygen &amp; Nitrous         Oxide besides separate connection for Central gas         supply for Oxygen, Nitrous Oxide and Air.</li> </ul>
			b) The machine should have pressure gauges for cylinders & central supply lines mounted on front of Anaesthesia machine for better visibility. The
			<ul><li>gas connections should be non- interchangeable.</li><li>c) The system should be suitable to use at minimal flow upto 700ml fresh gas setting.</li></ul>
			<ul><li>d) Automatic cutoff of N20 by Oxygen pressure failure.</li><li>e) Hypoxic guard for linear regulation of minimum</li></ul>
			oxygen concentration at 23% volume.  f) To ensure patient safety minimum Oxygen flow of 200 ml at low fresh gas flow settings even below
	<u> </u>	<u> </u>	Page 71 of 88

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SL.NO.	NAME OF THE	QTY.	SPECIFICATIONS
	EQUIPMENT		
			total 500 ml fresh gas flow.
			g) Audible visual oxygen failure alarm.
			h) Emergency Oxygen flush at 30 -70 L/min
			bypassing the vaporizer.
			i) In the event of complete power loss and battery
			failure it shall be possible to manually ventilate and
			deliver anaesthetic agent.
		l l	4. Vaporizer
	<u> </u>	]	a) Machine should have possibility to mount two
ı			quick mount type vaporizer for easy inter change
			ability, and safety with interlock facility.
			b) Should be provided with a Temperature/pressure
			compensated and flow independent Vaporizer for
			Isoflourane & Sevoflourane.
			c) Vaporizer should have extended delivery range
		1	from 0 to 6 Vol.%.
			d) The vaporizer should require no calibration in its
1			life time.
			5. Breathing System
			a) Should have fresh gas de-coupled semi closed
			circle absorber system.
		1	b) Should have adjustable pressure relief valve from 5 to 75 mbar.
	<b>\</b>		c) Should have change over from Spontaneous to Bag
			ventilation with single step.
			d) The system should have leak and compliance test
			(including patient hoses upto the Y piece).
			e) Should have compact breathing system with
			approx.1.5 Ltr. Volume capacity.
		İ	f) Should have an external fresh gas outlet for
		1	connecting Magill or Bain's circuit.
			g) The device should have port for anesthesia gas
1			scavenging system.
			6. Anesthesia Ventilator
			a) The system should have inbuilt ventilator with
			electronically controlled and pneumatically or
			electrically driven technology.
		1	b) Should not require changing of bellows for adult &
[			infants.
			c) Should have color LCD display with minimum
			screen size of 10".
			d) ) Modes: Manual/Spont, Volume controlled,
		1	Pressure controlled & SIMV.
		1	e) The same ventilator should be capable to be
	1		upgrade to pressure support.
			7. Integrated Airway monitoring and display of
)			following parameters:
			a) Expiratory Tidal Volume
			b) Expiratory Minute volume
	<u> </u>		c) PEEP, Peak & Mean and Plaetau airway pressure Page 72 of 88
			1 - rage /2 01 66
			4
			<i>u</i>

SL.NO.	NAME OF THE	OTY.	SPECIFICATIONS
, J	EQUIPMENT	\ \ \	
			d) Frequency
			e) Waveform display for Airway pressure
			8. Adjustable high/low alarm limits with audio and
			visual alarms for the following:
		ļ	a) Minute volume
	•		b) Airway pressure
			c) Insp oxygen concentration
			d) Audio power supply fail alarm
			e) Fail to cycle warning
			9. Machine should have RS 232 connectivity port.
			10. Scope of supply
		ĺ	a) 3 gas Anaesthesia machine
			b) Trolley with 3 drawers
			c) Writing surface
			d) Pin Index yokes for 02 & N20
]			e) Pipeline connections for all three gases
			f) Anaesthesia ventilator
			g) Patient monitor
			h) Semi-closed breathing system
			i) Adult & Pediatric autoclavable patient tubing
			i) Anesthetic mask size - Adult& child
		!	k) Vaporizers for Isoflourane & Sevoflourane
	1	]	l) Central gas supply hoses(Color coded)
ļ			m) Instruction for use
			Specifications for Advanced Multiparameter Monitor
			1. Should be suitable for adult, paediatric neonatal
			patients monitoring.
			2. Should monitor ECG, Respiration, NIBP,
		ļ	SpO2, Dual Temperature, Dual IBP as standard.
			3. Should have ST analysis, Arrhythmia detection,
			pacer spike detection, Drug Dose Calculation and
			OxyCRG as standard in every monitor.
			4. Should have integrated 15" or above TFT-LCD
1			colour touch screen display (resolution min
			1024*768) with minimum 10channels of
			waveforms.
			5. Defib and ESU protection should be present.
		ļ	6. Should have monitoring, surgery and diagnostic
		1	mode of monitoring.
	1		7. Should have Advance Arrhythmia monitoring for
			Asystole, Vfib/Vtac, VT>2, Couplet, Bigeminy,
			Trigeminy, R on T, PVC, Tachy, Brady, Missed
			Beats, IRR, PNC, Vbrady.
			8. Monitor access should be with Touch screen, rotary
		Į	knob and fast access key for quick function.
		1	9, 120 hrs of trend and 60 events with waveform as
		-	standard in all monitors.
	<u> </u>		
			10. Color or position of waveforms or parameters should be able to be adjusted based on
			users preferences. Big font on screen format should
	<u> </u>		Page 73 of 88

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SL.NO.	NAME OF THE	QTY.	SPECIFICATIONS
DD::(O)	EQUIPMENT		
	<del></del> .		be present.
	İ		11. Nurse call, VGA output port should be
ł			standard in every monitor.
			<ol> <li>Monitor should have USB port for software</li> </ol>
			upgrade.
			<ol> <li>Should have inbuilt three channel recorder</li> </ol>
			as standard in every monitor.
			14. Should have 2hrs (typically) of battery
	ļ		backup as standard in every monitor.
			15. Should be European CE complying to
			European Directive 93/42/EEC for both Monitor
			and software to control physiologic monitoring
			systems.
			16. Wired networking should be standard to
		•	connect to Central station.
		1	17. Should display automatic Agent
			identification Anaesthetia Gas monitoring module with MAC value.
	l I		18. Should be provided with appropriate
			mountings system to mount patient monitor on
•			anaesthesia machine.
			19. Should have following parameters
			ECG
			o Monitor should have capability for display up to 7
			Leads
			ST Analysis
		1	<ul> <li>Waveform Freeze option with review of 120 sec</li> </ul>
ļ			Range:15 to 350bpm
<u> </u>			RESPIRATION
			- Through impedance pneumography method or
			EtCO2
			SpO2
			- Should provide value for arterial oxygen saturation
		•	as well as plethysmographic pulse waveform
		}	NIBP
			o By oscillometric principle of measurement.
ļ			o Should display Systolic, diastolic, mean pressure in
1			large easy to read display  Range:10 to 270mmHg
			Dual Temperature - core & skin. Range: 0 to 50 Deg C
			Dual IBP - Should include Starter kit and simultaneous
			monitoring of dual temp and dual IBP should be possible.
		1	Range:-50 to 300mmHg
			20. Scope of supply must include:
			Basic unit with ECG, Respiration, SpO2, Dual
1			Temp, NIBP, Dual IBP, inbuilt battery, Inbuilt
			three channel recorder- 1 no.
			o 5 lead ECG Cable-1 no.
			<ul> <li>ECG disposable electrodes-30 nos.</li> </ul>
			o SpO2 finger sensor-1 no.

			CONTROL OF CONTROL OF
SL.NO.	NAME OF THE EQUIPMENT	QTY.	SPECIFICATIONS
	<del></del>		<ul> <li>Skin temperature probe - Ino.</li> </ul>
			o NIBP Hose-1 no.
			Adult & Paediatric cuff- 1 no.
			o Should be supplied with intermediate IBP cable-2
			nos.
		i	o Disposable transducers-10 nos.
	ļ		o Water trap-12 nos.
ļ			o Sampling lines- 10 nos.
			o Paper rolls-4 nos. o Instruction for Use-1 no.
10	Adult Manikin	1 -	Intravenous training arm for access to major veins of arm
10	Audit Manikin	<b>\</b> ^	and handDeltoid: for intramuscular injection siteAirway
	1		management trainer: Simulation of non-anaesthetised
1			patients for pratice of intubation/ ventilation/ suction/
			supraglottic airway insertion/ Sellicks
			manuoverTracheostomy, Cricothyrotomy & naso-gastric
		ļ	tube insertionSimulation for Central Venous & Arterial
	1		cannulationCPR, Defibrillation: Auscultarion site with
}			heart & lung sounds, ECG simulator, Pacing, Arrhythmis
			recognitionBlood Pressure SimulationPerepherally
			introduction of central catheter simulationSpinal: both
			intrathecal & extrathecal injection simulatorMonitoring of
		1	performance against standard protocol. Recording of events
1			during practice. Should be CE and FDA approval. Should be
			user friendly & sturdy design. Hence, the HOD must be
			involved in the scientific team for evaluation and order
			of the ventilator which involves Human Resources (as this varies from place to place)
11	Paediatric Manikin	1	Infant arm for venu-puncture procedures.Paediatric arm for
"	1 acquairie manns	1	venu-puncture & intramuscular procedures.Tracheostomy,
			Cricothyrotomy & naso-gastric tube insertion.Blood
			Pressure arm.Intra-osseous infusion & femoral
		•	access.Inter-active ECG & arrhythmia simulator.Child &
	1		New-born intubation & airway management
			trainer.Defibrillation & CPR simulation.PICC & CVC
			simulator in new-born and paediatric.Monitoring of
			performance against standard protocol. Recording of events
			during practice. Should be CE and FDA approval. Should be
		1	user friendly & sturdy design. Hence, the HOD must be
			involved in the scientific team for evaluation and order
			of the ventilator which involves Human Resources (as
<u></u>	\$ 1 1.f	1	this varies from place to place)
12	Anodyne Machine	1	Specifications     Set for a security of 600 mw per therapeutic pad
	<u> </u>		
}			Wavelength 890 nm     60 in fraged diades per thereny pad
			60 infrared diodes per therapy pad  Pulsed Factors 200 times per second
			Pulsed Energy – 292 times per second     Projector Corruing Case
			Resistant Carrying Case
	<u> </u>		1 year warrant

SL.NO.	NAME OF THE EQUIPMENT	QTY.	SPECIFICATIONS		
			Product		
		: 	MH 120 Home machine with 4 therapy pads		
			System Manual for the Home unit		
			Advantages		
	]		ا مَم		
			Effective  H. Landau and Allertine of Higherian  Allertine of Higherian		
			<ul> <li>Helps prevents complications of diabetic neuropathy such as wounds/ ulcers / amputations,</li> </ul>		
			<ul> <li>Gives relief from pain and thereby improves quality of life,</li> </ul>		
			Is painless		
		l	Totally non invasive		
		<u> </u>	An effective alternative to prescription medication		
			Available as Professional or Home use models		
			Can be self administered (after consultation with		
			Doctor)		
			Portable (Can carry it with you while travelling)		
			Specifications		
			<ul> <li>Energy output fully adjustable up to 780 mw per therapeutic pad</li> </ul>		
		ŀ	Wavelength – 890 nm		
		ļ	60 infrared diodes per therapy pad		
	<u> </u>		Pulsed Energy – 292 time per second		
			Resistant Carrying Case		
			Product		
•			MP 480 machine with 8 therapy pads		
			- 0 1 1 D 1 0 1 3 fame1		
			I -		
			Advantages		
			Safe      Safe		
		İ	Effective  Notice of distance and the second section of the section of the second section of the section of the second section of the s		
			<ul> <li>Helps prevents complication of diabetic neuropathy such as wounds / ulcers / amputations</li> </ul>		
			Gives relief from pain and thereby improves quality of life		
			Is painless		
			Totally non-invasive		
			An effective alternative to prescription medication		
13	Transcutaneous	1	Dual-Channel Tens Stimulator, 2 Lead Wires, 4		
"	Electric Nerve		Self Adhesive Electrodes		
	Stimulating		Timer: 30 minute, 60 minute or continuous mode		
	Machine (Optional)		selectable.		
	, (opnoiss)	1	<ul> <li>Molded Plastic Carrying Case, 9 Volt Battery,</li> </ul>		
			Operating Manual		
			Power Indicator Light		
			<ul> <li>Wave Form: Asymmetrical biphasic square pulse.</li> </ul>		
			<ul> <li>Pulse Amplitued: 0 to 80 mA each channel,</li> </ul>		
			adjustable, (500 ohm load)		
			<ul> <li>Pulse Rate: 2 to 120 hz, adjustable</li> </ul>		

SL.NO.	NAME OF THE	QTY.	SPECIFICATIONS
	EQUIPMENT		
	EQUIPMENT		<ul> <li>Pulse Width: 40 to 260 microseconds, adjustable</li> <li>Mode Selector: Switch: Burst, Normal, Modulation</li> <li>M: Modulated Width. Pulse width is automatically varied in an interval of 6 seconds. The modulation range of pulse width is from setting value to 35% less than the control setting value, then returns to the setting value. Rate, width and intensity are fully adjustable.</li> <li>B: Cycle Bursts, 2 Bursts/sec, 9 pulses/Burst, 100Hz width is adjustable.</li> <li>C: Continuous mode. Pulse rate, pulse width and intensity are adjustable.</li> <li>Maximum Voltage: 110 volts, open circuit</li> <li>Maximum Charge: 21 micro coulombs per pulse</li> <li>Power Source: 9 volt battery or similar rechargeable cell</li> <li>Dimensions: 95 mm (H) x 61.5mm(W) x 26m(T)</li> <li>Weight: Approx. 120 grams battery included in weight</li> <li>All electrical specifications are +- 10% exception the amplitude is +/- 20% (500 load).</li> </ul>
			5 Year Warranty



SL.NO.	NAME OF THE	Q	SPECIFICATIONS
	EQUIPMENT	TY	
	PHA	RM4	COLOGY
1	Tail flick	2	CE Certified Heating through Halogen lamp
1	apparatus/Analgesiometer	_	provided with digital intensity controller for
			controlling the intensity of heating lamp
			Heating platform is made of thick aluminium
			plate with groove provided for placement of
			animal tail provided with digital timer for
			displaying the time of tail flick Digital timer can
			be controlled through foot switch instrument is supplied with 2 perspex restrainers- one for
			mice and one for rat.
2	Physiographs with Transducers	1	Data Acquisition System for online and offline
_	and other relevant accessories	- 	HRV analysis. ECG switch box (lead I, II, III, aVL,
	(may substitute kymographs)		aVF, aVR and V1 to V6) for real time cardiac axis
<u> </u>			& vector analysis. Sampling rate ≥ 200 KHz aggregate Variable sampling rate on each channel.
]			ADC resolution 24 bits.
			· Student physiograph should ready to use
			experiments with step by step instruction protocol
			for each experiment to be supplied with compatible
			transducers and stimulator.  • Isolated Stimulator:- Constant-current stimulator
			with Output current: 0-20 mA in 0.1 mA steps and
		ļ	Pulse duration: 50-200 µs (software-selectable)
		j	• Amplifiers: - Bio-Potentials (EMG, EOG,
	1		EEG.ECG), temperature, Pulse, respiration,
			isometric. • Transducers:- Pressure, volume, muscle activity/
•			force respiration belt, Isotonic fine movement,
			pulse, respiration & temperature, heart sound,
			reflective drop counter, push button switch. ECG
			electrode, EEG & EMG paste  • Manufacturer should have ISO certification for
			quality standards. Should be approved to the IEC
			60601-1 patient safety standard, making them safe
		<u> </u>	for use with human subject
3	Digital Plethysmograph	1	Features: Direct connection to a PC via included
			software, Multifunction graphic readout, Printout from thermal printer, Animal weight scale
[			MEASURING WATER CELL , DATA
			AQUISITION
			The Plethysmometer is microprocessor controlled,
			fea-turing direct PC output. Internally-stored data can be routed to the PC serial or USB port.
			Communication is managed by a Windows® based
			data acquisition software package.
			This software enables the data storage into
			individual files, ready to be easily managed by most
		<u></u>	statistical analysis packages available on the market

SL.NO.	NAME OF THE EQUIPMENT	Q TY	SPECIFICATIONS
4	Metabolic Cagges (Dieuretic Study)	5	CE certified should offer 99% separation efficiency of urine and faeces assuring maximum purity of samples, Minimal animal stress: should meet CPCSEA requirements, sample removing should be without stressing animal, access to all elements below the cage floor without disturbing animal should be with serration separators for separation of urine and faeces. All components should be made for autoclavable polycarbonate, P.P. and S.S. 304 material components should included: Polycarbonate cage with lid Polycarbonate collection funnel S.S. 304 grill for mice and ratleach Liner diffuser guide or serration separator P.P. Urine collection tube P.P. faeces collection tube Polycarbonate water bottle 250 ml with holder waste water collection tube S.S. 304 food hopper for rat, S.S. 304 stand for cage.
5	Water maze (Mories) for rat and mice with video tracking system, Computerised software to record data		Dimension- 72"X30" 500 gallon capacity, 12" square /round platform. Water Maze specific application program Comprehensive data review capabilities Simple operation Pre-configured for popular platform placement User configured zone maps Scores zone activity, path length and latencies Minimum Computer Hardware Requirements: 533Mhz PC with Windows 2000/XP, SVGA color monitor, serial port Other Requirements: Videomex-V or Videomex-ONE tracking unit, Video Camera (NTSC/PAL/SECAM), video monitor
6	Animal grip strength meter	1	Acrylic, one station Outside Dimensions- 26" (W) x 9" (D) x 9.5" (H),Animal Channel Dimensions- Adjustable 1" to 5" (W), Gauge Mount Dimension-Adjustable 5.5" to 8.25", standard cable length-6 ft. for digital gauge with PC output, white color, Power supply, Transducer, LCD Display, Zero button, Measuring capacity 1000 gm, Accuracy 0.5%, Zero tare control micro processor circuit, S.S. 304 grip for rat & mice with software.

SL.NO.	NAME OF THE EQUIPMENT	Q TY	SPECIFICATIONS
7	Rotarod Assembly	2	For rats or mice, should be made of Perspex, arnite (lanes)     The angular speed can be preset from 4-40 RPM     In the acceleration mode, 4-40 RPM in an acceleration time of 30 seconds (standard procedures) and also 1, 2, 5, or 10 minutes     Rotarod unit with integrated control unit and RS232 comunication's port     Micro-switch detection of fall     Individual lane timers     Constant speed and fixed acceleration rate     Automatic recording of latencies to fall and rotation speed     CE Compliant
8	Cook's Pole Climbing Apparatus	1	Cook's Pole Climbing Response ApparatusNew improved model built in solid state buzzer and stimulator to provide electrical shocks of 400V in pulsating rates 0.2mA a frequency of 5 per sec, for a duration controlled manually or by built in 30 second timer. Output available for recording on kymograph or polygraph complete to work on 220V AC.
9	dales isol ated organ bath	5	Outer perpex bath, inner glass bath, aeration tube & other fittings, Thermostat & Strior
10	Step down latency apparatus (Pssive avoidiance test	2	Step Down Instrument SD-01 is designed for passive avoidance testing in mice. The test station can be configured with up to 6 channels for testing large groups of animals. Each channel starts and runs independently. The floor grid is delivered an electric shock while the animal steps down of a small, eleGSTed platform. The highly sensitive photobeams allow ongoing monitoring of animal location that is reliable taking down the response latency. The controller is configured with digital setting of the shock intensity in three levels, 24V, 28V and 32V, to meet various research needs.
11	Electric Hot Plate	2	CE Certified with 12mm thick aluminium plate, Digital temperature controller with temperature Accuracy:±0.2 deg c and temperature range ambient to 70 deg c, Digital timer- 6 digit with resolution of 0.1 sec, with foot switch
12	Centrifuge Machine	2	Laboratory centrifuge: are suitable for routine sample analysis in medical hospital pathology and institutional laboratories Salient Features:  Stainless steel centrifuge chamber easy to clean Brushless induction motor with variable frequency drive Microprocessor controller with digital display Stable speed output even under unstable voltage conditions Smooth & soft start

SL.NO.	NAME OF THE EQUIPMENT	Q TY	SPECIFICATIONS
			<ul> <li>Low sample temperature rise</li> <li>Inverter fault detection with auto shutdown</li> <li>7 segment LED display of speed</li> <li>Alphanumeric LCD display of speed &amp; RCF</li> <li>Selection of 3 acceleration &amp; deceleration profiles</li> <li>Digital countdown timer &amp; continuous run</li> <li>Safety lid Interlock to prevent lid opening during centrifugation</li> <li>Imbalance detection &amp; centrifugation stop with display of error</li> <li>Dynamic brake for quick deceleration</li> <li>Motor overload protection</li> <li>Gas hinge to prevent door failing</li> <li>Emergency lid lock release</li> <li>Last set parameters recall (Useful for repetitive analysis)</li> <li>Wide variety of rotors &amp; reduction adaptors</li> <li>Technical Data</li> <li>Maximum speed : 6000 RPM</li> <li>Maximum RCF : 5070 g</li> <li>Maximum capacity : 400 ml.</li> <li>Digital timer range : 0-59 Min</li> <li>WxDxH : 380x470x300 mm</li> </ul> Angle head for above
			<ul> <li>(a) 10x2 ml, with glass tubes &amp; reduction adaptors of 1 ml. &amp; 0.5 ml.</li> <li>(b) 24x1.5 ml, with tapered bottom polypro0pylene tubes &amp; reduction adaptors of 4ml. &amp; 2 ml.</li> </ul>
. 13	Single pan semi Micro balance 0.001-1000gm (Anamed / Denvermake)	2	Measurable upto minimum weingh capacity 0.0001 mg.
14	Vogels test: Anxiometer-102	1	Home cage with grid floor, Electronic unit with special nipple. Sensing Current: less than 1 microampere. Shock for 0.25 to 2.0 sec, Shock Current: user adjustable from 0 to above 1 milliampere
15	Polyprpelene cage	50	18" X 10", 12" X 8" size cage with stainless steel grid lid
16	sipper bottle	50	200 ml capacity
17	Rat feeding needle	5	Ce Certified product and GMP Certified
18	Mouse feeding needle	5	manufacturer Features: Cannula and balls made of AISI 304 Stainless steel. Hub amde from Nickel plated Brass. Luer lock. Leak proof and strong joint between hub - cannula and steel ball - cannula. Type: straight and bent type should be supplied in packet of 6 needles Needle details: 10 G for rabbit 6" length with S.S. ball diameter 6

SL,NO.	NAME OF THE EQUIPMENT	E Q TY	SPECIFICATION	ONS
			16 G for rat 3" let 18 G for mice 2" mm 20 G for mince 2" mm 20 G for mice 3" 1 mm 22 G for mice 1-1	ngth with S.S. ball diameter 4 mm ngth with S.S. ball diameter 3 mm length with S.S. ball diameter 2.1 length with S.S. ball deameter 2.3 length with S.S. ball diameter 2.36 length with S.S. ball diameter mm length with S.S. ball diameter 1.20
	<u></u>	<u> </u>	mm	<u> </u>
19	Digital PH meter	2	pH	
			Range	-2.00 to 16.00 pH
			Resolution .	0.01 pH
			Accuracy	±0.01 pH
			Cal. Points Buffer Sets	Up to 5 USA (1.68, 4.01, 7.00, 10.01,
		ļ	Butter Sets	12.45),
				NIST (1.68, 4.01, 6.86, 9.18, 12.45)
1			ORP	
			Range	±2000 mV
			Rel. mV Range	±2000 mV
			Resolution	0.1 mV (±199.9 mV) / 1 mV (beyond)
			Ассигасу	±0.2 mV (±199.9 mV) / ±2 mV (beyond)
1			Temperature	0.0 to 100.0 °C / 32.0 to 212.0
			Range (Meter)	°F
			Resolution	0.1 °C / 0.1 °F ±0.3 °C / ±0.5 °F (0 to 70 °C)
		1	Accuracy Compensation	ATC/MTC (0 to 100 °C) (pH
	i		Compensation	only)
			Calibration	Offset in 0.1 °increments; offset range: ±5.0 °C/±9.0 °F
			Power	9 V DC adapter, 1.3 A
			Requirements	(100/240 VAC, SMPS)
20	LCD Projector	<del>    -</del>	Brightness mo	re than 2500 lumes; Image
20	LCD Flojector	'	hrightness = 3	3200 ANSI Lumes ; Display
	Ļ	Ì	technology - I (	CD; Image aspect ratio – 4:03
		<u> </u>	Resolution - 80	
21	Inverter for the LAB	3	5 KVA	
			Features:DSP b	pased pure sine wave static UPS
			system. Auto	sense intelligent control smart
		ĺ	charger mains n	node short circuit protection Fast
	4		changeover en	suring with computers, time
1				
			delay realy espe	ecially for AC compressor based
			delay realy especial applications con	ecially for AC compressor based mpatible with DG sets, to be

SL.NO.	NAME OF THE EQUIPMENT	QTY.	SPECIFICATIONS				
PHYSIOLOGY							
1	LCD projector-EPSON (Model:EB1980WU)	1	Direct Pendrive support / PC free operation . Both VGA and HDMI port.				
2	Physiograph 4 channel (Medical system)	2	Facility to record Bioelectric potential eg- EEG,ECG,EMG,Pulse, Respiration ,Bold Pressure etc. Data acquisition to convert data from Physiograph to a computer with HRV and ECG recording.				
3	Cardiac Autonomic Neuropathy analysis system with interpretation.	1	ECG Discloser of parasympathetic and sympathetic function assessment.  Work with windows operating software.				
4	Computerized ECG	Ī	3 channel Graphical colored TFT for continuous ECG Monitoring, measurements and interpretation, 20 patient memory storage, paper-out indication with computer printer (A4 ECG Printing facility).				
5	Computerized Pulmonary Function Test	1	PC based spirometer, USB with inserted flow sensor with adult and pediatric mouth piece. Open spirometer system with flow / volume and MVV measurement facilities along with other Lung function parameters. Pre-post broncho dilatation test facility.				
6	Examination table-	l	Size 72"(L)x 30"(W)x 30"(H) Adjustable back rest 2 section cushioned top steel / powder coated legs				
7	Mosse's Ergogaph	5	Wooden board with arm rest, finger holder with straps, Automaticratchet, pully set of 5kg weight.				
8	Opthalmoscope (Heine Ophthalmoscope Mini 3000)	2	Battery operated. Handheld.				
9	Body Composition Monitor (OMRON HBF 701)	2	Measures: Body fat%, Weight, BMI, Visceral body fat, Segmental fat and muscle distribution.				
10	Edrich Green Lantern	4	The lantern consists of five rotating discs-three discs contain seven coloured glasses and one clear aperture, one disc contains seven various sized apertures and obturator, and one contains seven modifying glasses. The discs are held before a reflector containing a mains voltage lamp giving a controlled brilliancy.				
11	Snelles Chart	6	Standard				
12	Perimeter(Pristley Smith)	5	Calibrated arc, revolving chart holder. Able to rotate in any direction and fix at any position graduated from 0° to 90° with a movable test object. Adjustable chin rest				
13	Asthesiometer	10	Standard Specification				

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SL.NO.	NAME OF THE EQUIPMENT	QTY.	
14	Digital handgrip	2	Adjustable center knob LCD display.
	dynamometer.		Both knob lb display.
15	Digital metronome	3	Battery operated
			LCD Display
			Tempo range 30-250bpm
16	Ishihara's chart	4	chart for color vision test
17	Jagger's chart for near vision test.	4	With English and odia fonts
18	Automatic Gas analyser	1	Automatic analysis of CO2, O2, N2 Gas

3/4-

SL.N O.	NAME OF THE EQUIPMENT	QTY.	SPECIFICATIONS
	<u></u>		ANATOMY
1	Dissection Microscope	5	Side & Top Interpupillary Adjustment; 1x & 3x Objectives; two 10x & 20x wide field eye piece; 10x 60x magnification range; Dual coarse focus knoe; Upper tungsten & lower halogen bulb illumination; Translucent and Opaque stage plate
2	Microtome Rotary	2	1 - 50 Micron (in steps of 1 micron each) Feed adjustment; opening of object clamp (ball & flange type) 37 x 27 mm (total feed excursion 28 mm); overall size 16 x 10 x 9 inch
3	Hot Plate For Flattening Section	1	Slide drying hotplate; Slimline 110 – 230 Vt. AC; 50-60 Hz
4	Refrigerator	2	311 It Frost free double door refrigerator
5	Skeleton (Original Bone) Articulated	3	Original human bone full articulated
6	LCD Projector	2	Brightness more than 2500 lumes; Image brightness – 3200 ANSI Lumes; Display technology – LCD; Image aspect ratio – 4:03 Resolution - 800 x 600

7-7

ŞL.N O.	NAME OF THE	QTY.	SPECIFICATIONS	
O.	EQUIPMENT			
	1 - 2		COMMUNITY	Y MEDICINE
1	Teaching Microscope, Penta Head		Optical System	Infinite Optical System
			Viewing Head	Trinocular Head ,Inclined at 30°, Interpupillar distance: 48-75mm, (Sidentopf Type) Diopter Adjustment for both eyepiece — one nos  Binocular Head, Inclined at 30°, Interpupillar distance: 48-75mm, (Sidentopf Type) Diopter adjustment for both eyepiece -Four nos
			Penta Head Attachment	Length X Breadth (in mm) - 1370 X 246 ( in mm) Stand for support - Two nos LED pointer attachment - One nos Connecting fitting - Two nos Image Rotation Connecting fitting - Two nos
			Eyepiece	WH10X/20 (FN 20) – Ten nos
			Nosepiece	Inward facing Quadruple Nosepiece
			Objective	Infinite plan Achromatic: 4×, 10×, 40×, 100X
			Focus System	Coaxial Coarse and Fine Focusing System, Sensitivity and Graduation of Fine Focus: 0.002 mm
			Stage	Single layer mechanical stage, area: 125×145mm, movement range: 76×50mm
1			Illumination	Illumination system, LED 3w
			Condenser	Centerable abbe condenser with Iris diaphragm (NA 1.25) focusable with Rack & Pinion
			Viewing Head	30° Sidentopf Trinocular Head
			Eyepiece	WH 10X (FN 20) eyepiece
			Objective	Infinite plan objective: 4×, 10×, 40×, 100×
L			Condenser	Abbe Condenser, NA 1.25
2	Compound Microscope	2	Stand	<ul> <li>Ergonomic design for long hours of fatigue free work</li> <li>Main controls like focusing, intensity</li> </ul>
				control, stage joystick, power Switch should
				be located close together.
			[[	Window in the arm section so that the
				specimen can be viewed from the back while
				using external light & also can be used to carry
				microscope.  • Quadruple revolving nosepiece
			Transmitted	Built in 6V 20W halogen illumination
			Illumination	through SMPS circuit for constant voltage
				output 100 - 240 V having universal power
			[	supply to cover Voltage fluctuations.

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SL.N	NAME OF	QTY.	SPECIFICATIONS	
Ö.	THE EQUIPMENT	<b>V</b>		——————————————————————————————————————
			Focusing System	<ul> <li>Co-axial coarse &amp; Fine Focusing control with focusing on both sides.</li> <li>Built in torque adjustable focusing knob.</li> </ul>
			Objectives	<ul> <li>Achromat Objectives 4x, 10x, 40x (Spring) &amp; 100x (Spring, oil).</li> <li>The specimen should remain in focus while changing objective magnification.</li> <li>The objectives should be interchangeable so that user can mount them in nosepiece in any sequence without affecting parfocality &amp; centering.</li> </ul>
			Anti Fungus Optics	• The interior of objectives & eyepiece should be anti fungus treated thereby ensuring the image clarity and long operating life.
			Observation Tube	45° inclined binocular observation tube with multi layer coated beam splitter prisms to ensure maximum transmittance/ reflectance of light & uniform illumination in both the eyepieces.
   			Eyepiece	Paired Widefield high eyepoint eyepiece  10x/18 mm
			Condenser	Abbe Condenser (NA of 1.25) with aperture iris diaphragm & light relay system should have aspheric lenses, ensuring uniform illumination throughout the field.
			Mechanical Stage	Mechanical Stage for smooth X & Y movement of specimen with abrasion resistant coating.
			CE Certification	It should meet CE Standards for safety
			ISO Certification	It should be manufacturered in a ISO 9001 facility  Demonstration will be one of the criteria for
			Demonstratio n	Technical Evaluation.
3	LCD Projector	2		e than 2500 lumes; Image brightness – 3200 ANSI by technology – LCD; Image aspect ratio – 4:03 00 x 600
4	Motorized Screen	2	<ol> <li>Motorized Projector screens allow for the automatic raising and lowering of the screen via remote control or inline switch. Remote control ssytem</li> <li>White foldable</li> <li>Wall Mount</li> <li>Size-6x4</li> </ol>	

SL.N O.	NAME OF THE EQUIPMENT	QTY.	SPECIFICATIONS
5	Entomology Slide Set	10	Standard Specification
6	Infantometer	4	Standard Specification
7	Stadiometer	2	Standard Specification

Dean & Principal 5' 12' MKCG Medical College,
Berhampur