




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

NO. 10722/MCB-25/Welfare/ Berhampur dated the 20th June, 2025

TENDER CALL NOTICE

Sealed Tender is invited in two bid system from the Registered, Rate Contract holding firms having valid GST Registration **for supply of Equipments/Instruments for Up Gradation of UG seats MKCG Medical College** so as to reach in the office of the undersigned before 21 days from the date of publication following the terms & conditions. The detailed Tender Paper, Terms & Conditions along with list of item with specifications can be downloaded from website www.mkcgmch.org. The undersigned reserves the rights to cancel the tender without assigning any reason thereof.

E.O.M


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.bam@gmail.com




**TENDER DOCUMENT FOR PURCHASE OF
EQUIPMENTS FOR
DIFFERENT DEPARTMENT UNDER
UPGRADATION OF UG SEATS**

SECTION -I

NOTICE INVITING TENDER

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

1	Period of Availability of Tender Document	Up to <u>14-07-2025</u> [Downloadable from website: www.mkcgmch.org In case of any bid amendment and clarification, responsibility lies with the bidders to collect the same from the above mentioned website before last date of submission of tender document and the tender inviting authority shall have no responsibility for any delay / omission on part of the bidder.
2	Last date & time for submission of Tender	Date: <u>14-07-2025</u> , Time: up to 5.00 pm Address of Submission of Bid: The Dean & Principal, MKCG Medical College and Hospital Berhampur, Odisha, India (Through Speed post / Registered post/ Courier Services only
3	Date, time and place of opening of Tender	a) Technical Bid (Cover A) opening: <u>14-07-2025</u> , 5.00 P.M (time) at the address mentioned above. (Postponed incase of unavoidable Circumstances) b) Financial Bid (Cover B): <i>The date of opening of financial bid will be intimated to the firms found successful in the technical bid evaluation.</i> <i>(The Venue is mentioned above)</i> <i>(Bidders / authorized representative may remain present at the time of opening of bid)</i>


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	HODS of concerned department, MKCG Medical College, Berhampur
4.	Delivery Period	Within 30 days from issue of the purchase order.
5.	Mode of Delivery	By Air / Road / Rail
6.	Guarantee / Warranty	5 years warranty & CMC 5 Years
7.	Earnest Money Deposit (EMD) (The no. of equipment is mentioned in the Schedule of requirement – Section IV)	<i>Note: The bidder may quote for any or all the equipment by submitting the required EMD 2% of the quoted value for that equipment.</i> The Earnest Money Deposit will be paid in the shape of Demand Draft only in favour of DEAN & PRINCIPAL MKCG MEDICAL COLLEGE, BERHAMPUR from any Nationalized/Scheduled Bank and payable at Berhampur
8.	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) Proof of annual average turnover of <u>Rs. 5 Crores</u> in the last three (3) financial years certified by the Chartered Accountant as per the format at Annexure V 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 V 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 Annexure - IV. (iii) The authorized distributor will submit the following documents in support of the manufacturer along with the tender : 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.
10	Performance Security	The selected firm should submit the performance security in shape of Bank Guarantee / fix deposit pledged in favour of Dean & Principal, MKCG Medical College, Berhampur, 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.

[Signature]
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MKCG Medical College
Berhampur

SECTION -III

TERMS AND CONDITIONS FOR PURCHASE OF MEDICAL EQUIPMENTS FOR (TRANSFUSION MEDICINE)

- 1.1 Sealed tenders will be received till 14-07-2025 upto 5 pm by the office of the Dean & Principal, MKCG Medical College Berhampur. Any tender received after the due date & time will be rejected / returned to the sender unopened. The tenders will be received through Regd. Post / / Speed Post / Courier Services only. The prospective bidders may attend and clarify any doubts on the terms and conditions of the bid document.
- 1.2 The bidder(s) are to submit their tenders in separate sealed covered envelopes for technical bid and commercial bid by super scribing Cover "A" (Technical Bid) & Cover "B" (Price Bid) and both the sealed covers should be put into a third outer Cover, which should be super scribed as "Tender for Medial Equipments for Up Gradation of UG Seats MKCG Medical College.
- 1.3 The Sealed tenders "Cover A" (Technical Bid) submitted by the tenderers will be opened at the office of the Dean & Principal,, MKCG Medical College, Berhampur on 14-07-2025 at 5.00 P.M.

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

ELIGIBILITY CRITERIA

- 2.1 Manufacturing units / Importers are eligible to participate in the tender provided, they fulfill the following conditions:
- (i) Import License (In case of Importer only). In case of importers, they have to furnish the authorization from the manufacturer.
 - (ii) 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 V.
- 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 - III.
 - (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 V.
- 2.3 The tenderer have to submit the EMD(s) as mentioned in Clause 8 of Section -II & the Tender document cost.


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- 2.4 Tenderer will submit the following documents along with the technical bid-
1. IT Return of last 3 financial years.
 2. Pan card.
 3. GST Certificate.

DOCUMENTS TO BE SUBMITTED


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

All the photocopies are to be attested / self attested.

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 Earnest Money Deposit(s) as mentioned in the Clause 8 of Section -II in shape of Demand Draft). Details of EMD and the name of the equipment quoted should be clearly mentioned. (IIA to be filled up)
- 3.4 The declaration form in Annexure - IV duly signed by the tenderer before Notary Public / Executive Magistrate.
- 3.5 Manufacturer's Authorization Format in Annexure -IV (In case the bidder is not the manufacturer). Importers are also required to furnish the authorization from the manufacturer.
- 3.6 Certificate duly filled by the Auditor / Chartered Accountant (as per Annexure - V) 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).
- 3.7 Copy of Import License by the Importer (in case of Importer).
- 3.8 Copy of the up to date GST clearance certificate.
- 3.9 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.
- 3.10 Details name, address, telephone no., Fax, e-mail of the manufacturer / authorized distributor / service centre / contract person (Annexure - VII).

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


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COVER – B (PRICE BID)

4. The price to be quoted for medical equipments should be sent in the prescribed price format in a separate sealed cover hereafter called Cover “B” (Price Bid). Cover –B (Price Bid) of the tenderers who qualify in it's Technical Bid (Cover – A) and complies to tender specification & found to be as per technical specification of the Product in demonstration (if required) will only be opened .
- 4.1 The tender format (Price Schedule) in duplicate in the prescribed form (as per Annexure – IX), must be submitted in Cover-B. The price of the item should be quoted inclusive of excise duty, insurance, packing, forwarding, freight (door delivery) and warranty for 5 years (accessories if any for installation including charges for installation/commissioning), sales tax / GST and entry tax charges (if any) should be quoted in a separate column. The rate should be quoted for *each item* both in figures and words. In case of difference in words and figures, words will be taken into consideration for evaluation.
- 4.2 The Cover “B” of tenderers who qualifies in their technical bid, will only be opened at the office of the Dean & Principal,, MKCG Medical College, Berhampur at a date & time which will be intimated to them.

REJECTION OF TENDER

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

1	List of Item(s) – Annexure II
2	Tender document Fee
3	Earnest Money Deposit
4	Declaration form (Annexure – III) signed by the Tenderer & affidavit before Notary Public / Executive Magistrate
5	Manufacturer's Authorization Format to the particular agency (Annexure – V) (for distributor / Importer)
6	Proof of avg. Annual turnover of Rs. <u>5 Crores</u> or more for preceding 3 financial year (for Manufacturer / Importer) or Rs. <u>5 Crores</u> or more (for authorized distributors) Annexure – VI
7	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
8	Photocopy of PAN
9	Photocopy of GST certificate
10	Copy of original Tender and schedules, duly signed by the Tenderer
11	IT Return of last 3 financial year
12	An affidavit to the effect that the firm has not been black listed anywhere
13	Details of Manufacturing Unit / contact person Liasioning agent / servicing centre (Annexure VII)
14	Any other document as per specification of Equipment.
15	In case lack of demonstration as per advise of Technical person i.e HOD of concerned department.
16	Original catalogue of the product.



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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.
- 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.

TENDER CONDITIONS :

- 7.1 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.
- 7.2 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.
- 7.3 Rates inclusive of excise duty / customs duty, packing, forwarding, insurance, transportation charges with 5 years onsite comprehensive warranty and exclusive of Sales Tax/GST & Entry Tax should be quoted for the medical equipments (Item wise) on door delivery basis. The turnkey job (cost of accessories if any required for Installation/Commissioning including installation/commissioning charges), & 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.
- 7.4 The supplier shall be responsible for delivery and due verification, installation and commissioning of the equipment in the proper site.
- 7.5 The rate per unit shall not vary with the quantum of order placed for destination point.
- 7.6 If there is difference between figures & words, words will be taken into consideration.
- 7.7 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.
- 7.8 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.
- 7.9 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.


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- 7.10 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.
- 7.11 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).
- 7.12 Both Cover-A and Cover-B should have an index and page number of all the documents submitted inside that cover.
- 7.13 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.
- 7.14 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.

PACKAGING :

- 8.1 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.

ACCEPTANCE OF TENDER AND SUPPLY CONDITIONS:

- 9.1 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.
- 9.2 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.
- 9.3 The supply should be completed within 30 days from the date of issue of purchase order, Otherwise penalty will be imposed @1% of the basis price per 30 days. The authority have rights to relax in case of genuine issue for delay of supply.

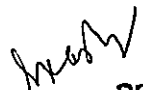

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Bilaspur

EVALUATION:

- 10.1 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.
- 10.2 The tender inviting authority may ask for demonstration (where ever required) of the equipment by the bidders at the premises of the tender inviting authority as a part of the technical evaluation before opening of price bid in order to verify the compliance to technical specification.
- 10.3 *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 (2) year.
 - b) The cost of the medical equipments (excise duty / customs duty, transportation, insurance, packing & forwarding & comprehensive warranty for One (2) year but excluding GST).
 - c) The circulars issued by the Finance Department, Govt. of Odisha from time to time regarding tax matters shall be taken into account for evaluation and shall be binding on the bidders. As per the Govt. of Odisha Finance Deptt. Order No. 48317(230)/F dt.23.11.2010, in comparing the cost of an article, if purchased from within the State with the price of similar article if purchased from outside the State, the amount of Odisha Sales Tax (OST) now GST shall be deducted from the total cost since it accrues back as revenue to the State. If after such deduction, the cost of articles to be purchased within the State is not more than the cost of including Central Sales Tax, transport and other charges of similar articles from outside the State, it would be economical to purchase articles within the State.
- 10.4 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.

PERFORMANCE SECURITY

- 11.1 The selected firm should submit the performance security in shape of Bank Guarantee / fix deposit pledged in favour of Dean & Principal, MKCG Medical College, Berhampur, 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
- 11.2 The performance Security Money will be returned back to the tenderer without interest after the expiry of the warranty period i.e. one year after the date of installation & signing of the CMC agreement.
- 11.3 Security money will be forfeited if there is any violation of the tender terms and conditions.



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TRAINING & OPERATIONAL MANUAL:

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

TERMS OF PAYMENT:

- 13.1 No advance payments towards cost of indented items will be made to the tenderer.
- 13.2 Payments as mentioned above will only be made after keeping the performance security deposit from the supplier as per clause no. 11.1, 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 by the supplier to the purchaser.
- 13.3 The payment will be released after satisfactory report received from the consignee i.e. the HODs of the concerned Department.


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CHECK LIST

(To be submitted in Cover A Technical Bid)

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

Please put ☒ in the respective box

COVER – A (TECHNICAL BID) DOCUMENTS : SUBMITTED OR NOT

1	List of Item(s) – Annexure II	Page No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
2	Earnest Money Deposit	Page No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
3	Declaration form (Annexure – III) signed by the Tenderer & affidavit before Notary Public / Executive Magistrate	Page No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
4	Manufacturer's Authorization Format to the particular agency (Annexure – V) (for distributor / Importer)	Page No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
5	Proof of avg. Annual turnover of Rs. <u>5 Crores</u> or more for preceding 3 financial year (for Manufacturer / Importer) or Rs. <u>5 Crores</u> lakh or more (for authorized distributors) Annexure – VI	Page No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
6	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	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
7	Photocopy of PAN	Page No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
8	Photocopy of GST certificate	Page No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
9	Copy of original Tender and schedules, duly signed by the Tenderer	Page No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
10	IT Return of last 3 financial year	Page No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
11	An affidavit to the effect that the firm has not been black listed anywhere	Page No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
12	Details of Manufacturing Unit / contact person Liaisoning agent / servicing centre (Annexure VII)	Page No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
13	Any other document as per tender specification.	Page No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
14	Original catalogue of the product	Page No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>

[Signature]
Dean & Principal
MKCG Medical College II
Bamampur

Annexure II
(Refer Clause No. 3.2)

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

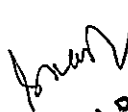
LIST OF ITEM(S) QUOTED

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

Signature of the Tenderer :

Date :

Official Seal:


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

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

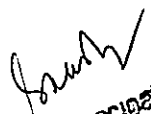
DETAILS OF EMD(S) SUBMITTED

Sl.	Name of Equipment	EMD 2% of the quoted value Amount (Rs.)
	TOTAL (Rs.)	

Signature of the Tenderer :

Date :

Official Seal


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

DECLARATION FORM

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

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

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

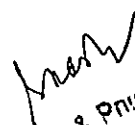
Signature of the bidder :

Seal

Date :

Name & Address of the Firm:

Affidavit before Executive Magistrate / Notary Public.


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

To

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

Ref: Tender No. _____ Dated _____ for _____.

Dear Sir,

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

1. Messrs _____ (name and address of the agent) is our authorized distributor for sale and service of _____ (name of equipment(s))
2. We confirm that no supplier or firm or individual other than Messrs _____ (name of the above distributor) is authorized to submit a tender and enter into a contract with you for the above goods manufactured by us.

Yours faithfully,

(Signature with date, name and designation)


For and on behalf of Messrs _____

(Name & address of the manufacturers)

Seal

Note :

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


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ANNEXURE – V

(Refer Clause No. 3.8)

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

ANNUAL TURN OVER STATEMENT

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

Sl.No.	Year	Turnover in (Rs.)
1.	2022-2023	-
2.	2023-2024	-
3.	2024-2025	-

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

Date:
Place:
(Name in Capital)

Signature of Auditor/
Chartered Accountant


Seal

Membership No.-

Registration No. of Firm

Note:

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



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ANNEXURES –VI

(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


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Barnhamper 17

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

DETAILS OF THE TENDERER & LOCAL CONTACT PERSON


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

Signature of the Tenderer :
with seal

Date :

Official

Seal


 Dean & Principal
 MKCG Medical College
 Berhampur

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 item which includes excise duty / customs duty, packing, insurance, forwarding / transportation (door delivery) with 5 (FIVE) year onsite warranty, calibration charges if any & excludes GST/sales tax/entry tax Cost in Rupees (both in words & figures)	***Taxes CST/GST & ET (if any) on & above the item price mentioned in col. (3) (Mention whether CST / GST and ET, the % of tax & it's value in Rs.)	Total Cost (Including of CST/GST & ET) (In Rupees)
1	2	3	4	5=3+4

- * Breakup of the price of individual items of the items mentioned at col. (3) above should be mentioned separately at Annexure IXA2
- ** The cost of turnkey shall include any specific accessories/equipment required for installation/commissioning and . In case of turnkey, the details of accessories/equipment are to be mentioned.
- *** CST/GST & ET which will be chargeable on the price (3) shall be mentioned separately in column 4 above.
- *** CMC for 5 years

Date :

Place :

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


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Sl. No.	Name of the Equipments	Qty
	O & G	
1	CTG Machine (labour Room)	2
2	VESSEL SEALER	4
		4
3	Laparoscopic Bipolar Shearer with System	1
4	Laparoscopic Camera	1
5	Ancillary Port	10
6	Cannula for Extracorporeal	10
7	Laprosopy Neddle holder	10
8	Laprosopy Endobag (Big & Medium)	1
9	Laprosopy Suction Cannula	10
10	Vessel Sealer of NDVH	1
11	Multipara monitor (labour Room)	8
12	Multi para monitor (ward)	6
13	Digital Colposcope	1
14	Office Hysteroscope	1
15	Electro Cautery	4
16	Ventouse (Sylastic)	6
17	Ventouse (metallic)	6
	PATHOLOGY	
1	Trinocular Biological Research Microscope with Camera (HDMI & Wireless connectivity without Internet)	1
2	Stainless Steel (SS) Block Holder for FFPE Blocks (Capacity: 20,000 Blocks)	2
3	Laboratory Incubator	1
4	Slide storage cabinet, 10000 capacity	10
5	Digital Water Bath for Histological Section Cutting	1
	PAEDIATRICS	
1	Glucometer	5 nos
2	Pulse oximeter	5 nos
3	Transcutaneous Bilirubinometer	3 nos
4	X-ray view box.	4 nos
5	Direct Ophthalmoscope.	3 nos
6	Transport incubator.	1 no
7	Defibrillator.	1 no
8	Bed side EEG machine.	1 no
9	High frequency oscillatory ventilator with disposable circuit	1 no
	ANESTHESIOLOGY	
	OPERATION THEATRE	
1	PLMA OF ALL SIZES	15 sets
2	PNS (Desirable)	6
3	a) Adult Manikin	1
	POSTOPERATIVE RECOVERY ROOM	
1	Provision for resuscitation equipment and CPR Algorithms	1
	PAIN CLINIC	
1	Styleted Epidural catheter	50
2	OT Table fluoroscopy compatible	1


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ANNEXURE-A


Sl. No.	Name of the Equipment	Specification	Qty.
	O & G		
1	CTG Machine (labour Room)	<p>FHR(Fetal Heart Rate), UC(Uterine contraction) and FM(Fetal Movement)</p> <p>□□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,</p> <p>Uterine contraction: Input source External transducer with strain guage, Reference(zero)control: One touch switch, Measurement range: 0~99 units,</p> <p>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.</p> <p>Make: Preferably Emco Huntleigh type or equivalent. Must be FDA / CE Certification.</p> <p>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 private 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.</p> <p>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.</p> <p>Environmental factors: 1 Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/EEC; EMC-directive., The unit shall be capable of being stored continuously in ambient temperature of 0 - 50deg C and relative humidity of 15-90%, The unit shall be capable of operating continuously in ambient temperature of 10 -40 deg C and relative humidity of 15-90%,</p>	2
2	VESSEL SEALER	<p>LIGASURE</p> <p>5MM X37CM</p> <p>LF1837</p>	4
		ETHOCON ENSEAL X1 LARGE JAW	4
3	Laparoscopic Bipolar Shearer with System	<p>BiCision M</p> <p>5MM X 350MM</p> <p>NO-20195-311</p>	1
4	Laparoscopic Camera	28mm lense, full screen view, ultra sharp resolution, FHD LP 5000 with very near to find 60fm technology and full HD with inbuilt recorder	1
5	Ancillary Port	Reusable, Steraile, Stainless Steel, 5.5mm, 10.5mm, Type- Needle/Driver	10
6	Cannual for Extracor	5mm for laparoscopic ports	10
7	Laproscopy Neddle holder	Laparoscopic 5mm curved scissor neddle holder with graspers	10
8	Laproscopy Endobag (Big & Medium)	Big /medium	1


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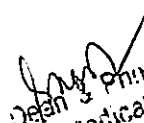
Sl. No.	Name of the Equipment	Specification	Qty.
9	Laproscope Suction Cannula	Material SS Sterilized Non Sterilized Length 330mm Available Diameter 5 and 10 mm Minimum Order Quantity 02 Set	10
10	Vessel Sealer of NDVH	TRISECT RAPID 350 5MMX 350MM	1
11	Multipara monitor (labour Room)	with ECG, Gain: 2.5mm/mV, 5.0mm/mV, 10mm/mV, 20mm/mV, auto Adult: 15 ~ 300 bpm, Neo/Ped : 15 ~ 350 bpm , Resolution : 1 bpm	8
12	Multi para monitor (ward)	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	6
13	Digital Colposcope	The Colposcope should be Binocular type with a facility of direct viewing and on the monitor with the help of video camera in-built into the Colposcope *The colposcope should have LED Light Source * Should have working distance of 300mm * Should have Green filter at colposcope head * Should have Handle positions: left or right optional for swing and tilt movement of colposcope head * Should have Multi-magnification stereoscopic viewing with 7.5/15x/30x * Should have diopter adjustment rings on eyepieces for corrector of ametropia (+7 to -7 diopters) * Should have 2 Fine adjustment drives (focus 40mm; height 80mm) integrated in handles for tilt and swing * LED life time should be 15,000 – 20,000 hours * To be supplied with Laptop Computer & recording system for colposcopy	1
14	Office Hysteroscope	Forward-Oblique Tele- scope 30°, ø 2.9 mm, length 30 cm, autoclavable, fiber optic light transmission incorporated, color code: red. Operating Sheath, size 4.3mm, with channel for semirigid 5 Fr. operating instruments, with 1 stopcock and 1 LUER-Lock adaptor, for use with CF operating sheath. Continuous-Flow Operating Sheath, size 5mm, with 1 stopcock and 1 LUER-Lock adaptor, for use with operating sheath. Scissors, blunt, single action jaws, semirigid, 5 Fr., length 34 cm Scissors, pointed, single action jaws, semirigid, 5 Fr., 34 cm Biopsy and Grasping Forceps, double action jaws, semirigid, 5 Fr., length 34 cm Punch, through-cutting, single action jaws, semirigid, 5 Fr., length 34 cm Biopsy Spoon Forceps, double action jaws, semirigid, 5 Fr., length 34 cm Fixation Instrument, semirigid, 5 Fr., length 34 cm Polypectomy Loop, unipolar, 5 Fr., length 34 cm Needle Electrode, unipolar 5 Fr., length 34 cm Bipolar vaporization electrode, semirigid, 5 Fr. length 36 cm Telescope 12°, ø 2.9 mm, length 30 cm, autoclavable, fiber optic light transmission incorporated, color code: black Resectoscope Sheath, including connecting tube for in- and outflow, for continuous irrigation and suction, ø 7 mm, oblique beak, rotatable sheath tube, with ceramic insulation, for use with working element, color code: white Standard Obturator, for use with resectoscope sheaths Telescope Bridge, with channel for semirigid 5 Fr. operating instruments, for use with resectoscope sheaths Working Element Set, consisting of: Working Element Cutting Loop, angled Coagulating Electrode, pointed Coagulating Electrode, ball end, ø 3 mm Cutting by means of a spring. The thumb support is movable. In rest position the electrode tip is inside the sheath. High Frequency Cord Protecting Tube Suction & Irrigation Set operating voltage: 100 -240 VAC, 50/60 Hz consisting of: Suction & Irrigation Set, with integrated SCB Module, Power Cord, SCB Connecting Cable 3 Tubing Sets irrigation HYS, for single use, sterile 3 Tubing Sets irrigation LAP, for single use, sterile VACUsafe Pack Suction	1

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15	Electro Cautery	Copy enclosed as Annexure-A	4																																																						
16	Ventouse (Sylastic)	<ul style="list-style-type: none">silicon vacuum cup (ventouse cup)easy insertionexcellent vacuum sealminimizes risk of traumas in forcep delivery	6																																																						
17	Ventouse (metallic)	<ul style="list-style-type: none">Vacuum Extractor Set, Malmstorm type, manual operated.Complete with 3 S.S. Cups, (40, 50, 60mm).PVC pressure tubeTraction HandleSuction PumpGlass jar in between top and bottom metal plates fitted with vacuum gauge and control valve. Packed in plastic case	6																																																						
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1	Trinocular Biological Research Microscope with Camera (HDMI & Wireless connectivity without Internet)	<table><tr><td colspan="3">Microscope Optical System</td></tr><tr><td>Feature</td><td>Specification</td><td>Justification</td></tr><tr><td>Optical System</td><td>Infinity Corrected Plan Achromatic Optical System</td><td>Provides flat field and color-corrected images across the entire field; essential for pathology slides.</td></tr><tr><td>Observation Head</td><td>Trinocular Head, 30° inclined, 360° rotatable</td><td>Enables simultaneous viewing and image capture. Ergonomic design supports long hours of teaching.</td></tr><tr><td>Observation tube</td><td>100:100 beam splitting</td><td>For simultaneous viewing through eyepiece and projector</td></tr><tr><td>Interpupillary Distance</td><td>Adjustable from 48–75 mm</td><td>Accommodates all users.</td></tr><tr><td>Diopter Adjustment</td><td>On at least one eyepiece</td><td>Compensates for individual eyesight differences.</td></tr><tr><td colspan="3">Eyepiece and Objective Lenses</td></tr><tr><td>Feature</td><td>Specification</td><td>Justification</td></tr><tr><td>Eyepieces</td><td>Pair of 10x Widefield (FOV 20 or higher), anti-fungal</td><td>Wide field of view enables comprehensive viewing for teaching.</td></tr><tr><td>Objectives</td><td>Infinity-corrected Plan Achromatic 4x/0.10, WD 18 mm or better, 10x/0.25, WD 12 mm or better, 20x/0.40, WD 0.9 mm or better, 40x (spring) /0.65, WD 0.36 mm or better, 100x Oil (spring) /1.25, WD 0.10 mm or better.</td><td>High-quality image reproduction with sharp contrast at all magnifications. 100x oil immersion is vital for pathology.</td></tr><tr><td>Nosepiece</td><td>Inward facing quintuple nosepiece</td><td>Smooth transition between magnifications; better access to slides.</td></tr><tr><td colspan="3">Mechanical Stage & Focus System</td></tr><tr><td>Feature</td><td>Specification</td><td>Justification</td></tr><tr><td>Stage</td><td>Double-layer mechanical stage with X-Y movement; size ~140x140 mm, right hand control, round corners and non-extending rack and slide holder.</td><td>Supports smooth slide handling and teaching demonstration.</td></tr><tr><td>Slide Holder</td><td>Graduated with slide clamp</td><td>Accurate positioning and repeatability.</td></tr><tr><td>Focus Mechanism</td><td>Coarse and fine coaxial focusing with tension adjustment</td><td>Precision focusing necessary for high-resolution imaging and teaching clarity.</td></tr><tr><td>Focusing Range</td><td>≥15 mm</td><td>Adequate travel for thick sections and oil objectives.</td></tr></table>	Microscope Optical System			Feature	Specification	Justification	Optical System	Infinity Corrected Plan Achromatic Optical System	Provides flat field and color-corrected images across the entire field; essential for pathology slides.	Observation Head	Trinocular Head, 30° inclined, 360° rotatable	Enables simultaneous viewing and image capture. Ergonomic design supports long hours of teaching.	Observation tube	100:100 beam splitting	For simultaneous viewing through eyepiece and projector	Interpupillary Distance	Adjustable from 48–75 mm	Accommodates all users.	Diopter Adjustment	On at least one eyepiece	Compensates for individual eyesight differences.	Eyepiece and Objective Lenses			Feature	Specification	Justification	Eyepieces	Pair of 10x Widefield (FOV 20 or higher), anti-fungal	Wide field of view enables comprehensive viewing for teaching.	Objectives	Infinity-corrected Plan Achromatic 4x/0.10, WD 18 mm or better, 10x/0.25, WD 12 mm or better, 20x/0.40, WD 0.9 mm or better, 40x (spring) /0.65, WD 0.36 mm or better, 100x Oil (spring) /1.25, WD 0.10 mm or better.	High-quality image reproduction with sharp contrast at all magnifications. 100x oil immersion is vital for pathology.	Nosepiece	Inward facing quintuple nosepiece	Smooth transition between magnifications; better access to slides.	Mechanical Stage & Focus System			Feature	Specification	Justification	Stage	Double-layer mechanical stage with X-Y movement; size ~140x140 mm, right hand control, round corners and non-extending rack and slide holder.	Supports smooth slide handling and teaching demonstration.	Slide Holder	Graduated with slide clamp	Accurate positioning and repeatability.	Focus Mechanism	Coarse and fine coaxial focusing with tension adjustment	Precision focusing necessary for high-resolution imaging and teaching clarity.	Focusing Range	≥15 mm	Adequate travel for thick sections and oil objectives.	1
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		<div><div>Illumination System</div><table><tr><th>Feature</th><th>Specification</th><th>Justification</th></tr><tr><td>Light Source</td><td>LED illumination 4000K ≥3W, intensity adjustable, life 20000 hours or better; Kohler illumination preferred</td><td>Long life, low heat, and better contrast for brightfield microscopy in histopathology.</td></tr><tr><td>Condenser</td><td>Automated turret Abbe condenser NA 1.25 with iris diaphragm</td><td>Necessary for adjusting contrast and resolution.</td></tr></table><div>Digital Imaging System (Camera)</div><table><tr><th>Feature</th><th>Specification</th><th>Justification</th></tr><tr><td>Camera Sensor</td><td>CMOS, ≥8 MP</td><td>High-resolution live images for projection and teaching.</td></tr><tr><td>Frame Rate</td><td>≥30 fps at 1080p</td><td>Smooth real-time imaging without lag, essential for demonstration.</td></tr><tr><td>Output Options</td><td>HDMI out, SD card storage, USB for offline use</td><td>Facilitates teaching without dependence on a computer or internet.</td></tr><tr><td>Wireless Features</td><td>Direct wireless connectivity to mobile/tablet/laptop over local Wi-Fi (without internet)</td><td>Real-time projection and interactivity without data security risks.</td></tr><tr><td>Built-in Processor</td><td>Camera with onboard processing and UI for direct display on HDMI monitor</td><td>Avoids need for separate PC for image processing.</td></tr><tr><td>Storage</td><td>SD Card slot (supports ≥32 GB)</td><td>For saving captured images and videos during demonstration.</td></tr></table><div>Software Compatibility</div><table><tr><th>Feature</th><th>Specification</th><th>Justification</th></tr><tr><td>Software</td><td>Compatible with Windows, Android, and iOS platforms for offline access</td><td>Useful for interactive teaching, marking regions of interest, or saving screenshots.</td></tr><tr><td>Installation</td><td>No mandatory internet registration or cloud login</td><td>Safe and reliable use in medical institutions with internet restrictions.</td></tr></table><div>Ergonomics and Build</div><table><tr><th>Feature</th><th>Specification</th><th>Justification</th></tr><tr><td>Build Material</td><td>Anti-rust metallic alloy with anti-fungal coating on optics</td><td>Long-lasting and suitable for Indian climate.</td></tr><tr><td>Dust Cover</td><td>Included</td><td>Protects optics and camera.</td></tr><tr><td>Warranty</td><td>Minimum 3 years</td><td>Ensures post-sale support and performance reliability.</td></tr><tr><td>Service Support</td><td>Should have authorized service network in India</td><td>Reduces downtime in academic sessions.</td></tr></table><div>Certification: - USFDA, EU-CE. Other accessories: - Multi-port power extension for camera and monitor setup.</div></div>	Feature	Specification	Justification	Light Source	LED illumination 4000K ≥3W, intensity adjustable, life 20000 hours or better; Kohler illumination preferred	Long life, low heat, and better contrast for brightfield microscopy in histopathology.	Condenser	Automated turret Abbe condenser NA 1.25 with iris diaphragm	Necessary for adjusting contrast and resolution.	Feature	Specification	Justification	Camera Sensor	CMOS, ≥8 MP	High-resolution live images for projection and teaching.	Frame Rate	≥30 fps at 1080p	Smooth real-time imaging without lag, essential for demonstration.	Output Options	HDMI out, SD card storage, USB for offline use	Facilitates teaching without dependence on a computer or internet.	Wireless Features	Direct wireless connectivity to mobile/tablet/laptop over local Wi-Fi (without internet)	Real-time projection and interactivity without data security risks.	Built-in Processor	Camera with onboard processing and UI for direct display on HDMI monitor	Avoids need for separate PC for image processing.	Storage	SD Card slot (supports ≥32 GB)	For saving captured images and videos during demonstration.	Feature	Specification	Justification	Software	Compatible with Windows, Android, and iOS platforms for offline access	Useful for interactive teaching, marking regions of interest, or saving screenshots.	Installation	No mandatory internet registration or cloud login	Safe and reliable use in medical institutions with internet restrictions.	Feature	Specification	Justification	Build Material	Anti-rust metallic alloy with anti-fungal coating on optics	Long-lasting and suitable for Indian climate.	Dust Cover	Included	Protects optics and camera.	Warranty	Minimum 3 years	Ensures post-sale support and performance reliability.	Service Support	Should have authorized service network in India	Reduces downtime in academic sessions.	
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2	Stainless Steel (SS) Block Holder for FFPE Blocks (Capacity: 20,000 Blocks)	<div><div>1. Purpose</div><p>To procure a robust, corrosion-resistant, modular Stainless Steel Block Holder with a minimum storage capacity of 20,000 FFPE (Formalin-Fixed Paraffin-Embedded) blocks. The system must ensure safe, organized, and easily retrievable long-term storage for clinical, diagnostic, and research use.</p><div>2. General Requirements</div><div><ul style="list-style-type: none">- Type: Stainless Steel Modular Block Holder for FFPE blocks- Capacity: Minimum 20,000 blocks (Expandable)- Use: Long-term storage and archiving of FFPE tissue blocks- Storage Conditions: Room temperature; resistant to humidity, corrosion, and microbial growth</div></div>	2																																																						

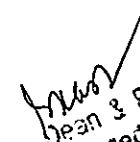

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Sl. No.	Name of the Equipment	Specification	Qty.																										
		<div><div>3. Material and Build Quality</div><div><div>- Material: High-grade SS304 or SS316 stainless steel</div><div>- Surface Finish: Electro-polished or powder-coated smooth finish</div><div>- Construction: Rigid, seamless welds; modular, stackable design</div><div>- Durability: At least 10 years of expected life under standard usage</div></div><div>4. Design & Storage Capacity</div><div><div>- Tray-Based Modular System with drawers or slotted trays</div><div>- Slot Dimensions: Compatible with standard FFPE block size</div><div>- Individual Slots: Labeled or numbered</div><div>- Drawer/Tray Units: With pull-out smooth runners</div><div>- Capacity per Module/Tray: ~500 to 1,000 blocks</div><div>- Total System Capacity: ≥ 20,000 blocks with option to expand</div></div><div>5. Labeling and Retrieval System</div><div><div>- Indexing System: Alphanumeric labeling</div><div>- Barcode-Compatible: Option for barcode/RFID labeling</div><div>- Database Interface: Supportive of LIS or independent indexing software</div><div>- Visual Access: Transparent labeling windows or external index card holder</div></div><div>6. Security and Safety</div><div><div>- Lockable Drawers or Doors</div><div>- Fire Resistant Option: Desirable if available</div><div>- Dust Covers: Optional</div></div><div>7. Installation and Maintenance</div><div><div>- Pre-assembled or On-site Installation support</div><div>- Easy to clean with standard disinfectants</div><div>- Minimum 2 years onsite warranty with AMC option</div></div><div>8. Compliance and Certification</div><div><div>- ISO 9001 / ISO 13485 certified manufacturing</div><div>- CE/US FDA compliant if applicable</div></div><div>9. Documentation Required</div><div><div>- Product brochure and specifications</div><div>- List of major users/customers in India</div><div>- Warranty certificate</div><div>- Compliance certificate</div><div>- Detailed quotation</div></div><div>10. Recommended Accessories (Optional)</div><div><div>- RFID/Barcode-based archiving software</div></div></div> <div>Drawer lighting system</div>																											
3	Laboratory Incubator	<div><div>General Requirements</div><table><tr><th>Parameter</th><th>Specification</th></tr><tr><td>Type</td><td>Natural convection or forced air (fan-assisted) incubator</td></tr><tr><td>Capacity</td><td>150 liters</td></tr><tr><td>Chamber Material</td><td>Interior: Stainless Steel (SS 304/316), corrosion-resistant Exterior: Powder-coated mild steel or SS</td></tr><tr><td>Door</td><td>Solid insulated door with magnetic gasket seal Optional: Inner transparent acrylic/glass door for viewing</td></tr><tr><td>Shelves</td><td>Adjustable, perforated stainless steel shelves (minimum 2, expandable up to 4)</td></tr><tr><td>Access Port</td><td>Optional access port (25–50 mm) for sensors or cables</td></tr></table><div>Temperature Control</div><table><tr><th>Parameter</th><th>Specification</th></tr><tr><td>Temperature Range</td><td>Ambient +5°C to 70°C</td></tr><tr><td>Temperature Accuracy</td><td>±0.1°C</td></tr><tr><td>Temperature Uniformity</td><td>±0.3°C at 37°C</td></tr><tr><td>Temperature Display</td><td>Digital LED or LCD display</td></tr><tr><td>Controller Type</td><td>Microprocessor-based PID controller</td></tr></table></div>	Parameter	Specification	Type	Natural convection or forced air (fan-assisted) incubator	Capacity	150 liters	Chamber Material	Interior: Stainless Steel (SS 304/316), corrosion-resistant Exterior: Powder-coated mild steel or SS	Door	Solid insulated door with magnetic gasket seal Optional: Inner transparent acrylic/glass door for viewing	Shelves	Adjustable, perforated stainless steel shelves (minimum 2, expandable up to 4)	Access Port	Optional access port (25–50 mm) for sensors or cables	Parameter	Specification	Temperature Range	Ambient +5°C to 70°C	Temperature Accuracy	±0.1°C	Temperature Uniformity	±0.3°C at 37°C	Temperature Display	Digital LED or LCD display	Controller Type	Microprocessor-based PID controller	1
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4	Slide storage cabinet, 10000 capacity	<div><div>The stainless steel slide cabinet is a modular storage system designed for high-capacity, dust-free, and corrosion-resistant storage of standard 75 mm x 25 mm microscope glass slides. It should be suitable for long-term storage in high-humidity environments typically found in Indian labs.</div><div>2. Technical Specifications</div><table><tr><th>Feature</th><th>Requirement</th></tr><tr><td>Material</td><td>Stainless Steel (Grade 304 or better) - Rust-proof, corrosion-resistant</td></tr><tr><td>Slide Capacity</td><td>Minimum 10,000 standard microscope slides</td></tr><tr><td>Cabinet Structure</td><td>Modular/stackable design with base and top covers</td></tr><tr><td>Drawer Configuration</td><td>Individual drawers or trays to hold ~100–200 slides each</td></tr><tr><td>Slide Orientation</td><td>Horizontal with indexing dividers</td></tr><tr><td>Slide Holders</td><td>Fixed racks to prevent slide contact</td></tr><tr><td>Numbering and Labeling</td><td>Each drawer labeled and numbered</td></tr><tr><td>Smooth Movement</td><td>Ball-bearing or frictionless drawer system</td></tr><tr><td>Finish</td><td>Matt or brushed, easy to clean</td></tr><tr><td>Handles</td><td>Ergonomic stainless steel</td></tr><tr><td>Locking Mechanism</td><td>Central locking (optional)</td></tr><tr><td>Mobility</td><td>Castor wheels with brakes (optional)</td></tr><tr><td>Dimensions</td><td>Max height 6 feet; customizable width/depth</td></tr><tr><td>Weight Capacity</td><td>Minimum 5–10 kg per drawer</td></tr><tr><td>Ventilation</td><td>Optional vents for circulation</td></tr><tr><td>Warranty</td><td>Minimum 1 year</td></tr><tr><td>Certifications</td><td>ISO 9001:2015 / CE / NABL-compatible preferred</td></tr><tr><td>Compliance</td><td>Biomedical lab safety standards compliant</td></tr></table><div>Environmental Considerations</div><p>Should withstand high humidity (up to 90%) and ambient temperatures up to 45°C. Should be non-reactive with common cleaning agents and disinfectants used in laboratories.</p></div>	Feature	Requirement	Material	Stainless Steel (Grade 304 or better) - Rust-proof, corrosion-resistant	Slide Capacity	Minimum 10,000 standard microscope slides	Cabinet Structure	Modular/stackable design with base and top covers	Drawer Configuration	Individual drawers or trays to hold ~100–200 slides each	Slide Orientation	Horizontal with indexing dividers	Slide Holders	Fixed racks to prevent slide contact	Numbering and Labeling	Each drawer labeled and numbered	Smooth Movement	Ball-bearing or frictionless drawer system	Finish	Matt or brushed, easy to clean	Handles	Ergonomic stainless steel	Locking Mechanism	Central locking (optional)	Mobility	Castor wheels with brakes (optional)	Dimensions	Max height 6 feet; customizable width/depth	Weight Capacity	Minimum 5–10 kg per drawer	Ventilation	Optional vents for circulation	Warranty	Minimum 1 year	Certifications	ISO 9001:2015 / CE / NABL-compatible preferred	Compliance	Biomedical lab safety standards compliant	10
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		Preferred Accessories <ul style="list-style-type: none">- Slide index cards or tagging system,- Barcode compatibility,- Dust covers or sealing features																																							
5	Digital Water Bath for Histological Section Cutting	<p>A digital water bath designed specifically for histological section cutting, optimized for use with paraffin-embedded tissue sections. It should provide uniform temperature control, dark background for visual contrast, and anti-corrosive materials to maintain sterility and durability.</p> <p>2. Technical Specifications</p> <table><tr><th>Parameter</th><th>Specification</th></tr><tr><td>Type</td><td>Digital tissue flotation water bath for histology</td></tr><tr><td>Temperature Range</td><td>Ambient +5°C to 75°C</td></tr><tr><td>Temperature Accuracy</td><td>±0.5°C</td></tr><tr><td>Temperature Display</td><td>Digital LED or LCD</td></tr><tr><td>Temperature Control System</td><td>Microprocessor-controlled PID system</td></tr><tr><td>Tank Material</td><td>Stainless Steel (SS 304/316), seamless</td></tr><tr><td>Outer Body</td><td>Powder-coated MS or ABS plastic; corrosion-resistant</td></tr><tr><td>Tank Capacity</td><td>2.5 – 3.5 liters (minimum)</td></tr><tr><td>Inner Tank Dimensions</td><td>Approx. 250 mm (L) × 200 mm (W) × 60 mm (D)</td></tr><tr><td>Heating Element</td><td>Nichrome or stainless steel, concealed</td></tr><tr><td>Power Supply</td><td>230V ±10%, 50 Hz, single phase</td></tr><tr><td>Power Consumption</td><td>≤ 500 Watts</td></tr><tr><td>Insulation</td><td>High-grade insulation for energy efficiency and user safety</td></tr><tr><td>Safety Features</td><td>Overheat protection, fuse protection, auto shutoff in fault condition</td></tr><tr><td>Additional Features</td><td><ul style="list-style-type: none">- Illuminated black background- Slide drying edge or platform- Removable lid or dust cover</td></tr><tr><td>Certifications</td><td>ISO 13485, CE Certified, BIS compliance preferred</td></tr><tr><td>Warranty</td><td>Minimum 1 year onsite warranty</td></tr><tr><td>After-Sales Support</td><td>Should have local service center and availability of spare parts for 5 years</td></tr></table> <p>Operational Requirements</p> <ul style="list-style-type: none">- Should be easy to clean and disinfect.- Must not emit fumes or noise.- Must be compatible with histology lab workflows and section cutting stations.- Should be usable with all standard paraffin blocks and microtomy sections. <p>4. Accessories and Consumables (Included)</p> <ul style="list-style-type: none">- Dust cover – 1 No.- Instruction manual and- Service manual– 1 set (printed + soft copy).- Power cable – 1 No. <p>5. Installation and Training</p> <ul style="list-style-type: none">- Installation to be done by supplier at user site.- Comprehensive training for users and technicians should be provided.	Parameter	Specification	Type	Digital tissue flotation water bath for histology	Temperature Range	Ambient +5°C to 75°C	Temperature Accuracy	±0.5°C	Temperature Display	Digital LED or LCD	Temperature Control System	Microprocessor-controlled PID system	Tank Material	Stainless Steel (SS 304/316), seamless	Outer Body	Powder-coated MS or ABS plastic; corrosion-resistant	Tank Capacity	2.5 – 3.5 liters (minimum)	Inner Tank Dimensions	Approx. 250 mm (L) × 200 mm (W) × 60 mm (D)	Heating Element	Nichrome or stainless steel, concealed	Power Supply	230V ±10%, 50 Hz, single phase	Power Consumption	≤ 500 Watts	Insulation	High-grade insulation for energy efficiency and user safety	Safety Features	Overheat protection, fuse protection, auto shutoff in fault condition	Additional Features	<ul style="list-style-type: none">- Illuminated black background- Slide drying edge or platform- Removable lid or dust cover	Certifications	ISO 13485, CE Certified, BIS compliance preferred	Warranty	Minimum 1 year onsite warranty	After-Sales Support	Should have local service center and availability of spare parts for 5 years	1
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Sl. No.	Name of the Equipment	Specification	Qty.
	PAEDIATRICS		
1	Glucometer	<p>GENERAL</p> <p>1. USE</p> <p>1.1 Clinical purpose It intended to be used together for testing, either at the point-of-care or in self-testing by a layperson, for the quantitative measurement of glucose and/or ketones in a whole blood clinical specimen.</p> <p>1.2 Used by clinical department/ward All</p> <p>TECHNICAL</p> <p>2. TECHNICAL CHARACTERISTICS</p> <p>2.1 Technical characteristics (specific to this type of device) Should have reading range/linearity from 30 to 600 mg/dl; Should have a maximum reading time of less than 10 seconds; Should use a minimum blood sample less than 1.5µl; Should have a minimum memory of 50 tests; accuracy +/-10% and reproducibility +/-5%; Packing of strips should be such that there are not more than 50 strips/pack. The strips should be readily available throughout the country.</p> <p>2.2 Settings Should have automatic code detection facility, display of sugar in Mg/dl and NOT in mili moles.</p> <p>2.3 User's interface LCD display</p> <p>2.4 Software and/or standard of communication (where ever required) Inbuilt; Should have facility to ensure accuracy of measurements.</p> <p>3. PHYSICAL CHARACTERISTICS</p> <p>3.1 Dimensions (metric) Handheld device</p> <p>3.2 Weight (lbs, kg) Handheld device</p> <p>3.3 Configuration Electrochemical/colorimetric/color sensing technology.</p> <p>3.4 Noise (in dBA), heat dissipation NA</p> <p>3.5 Mobility, portability Handheld</p> <p>4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO₂)</p> <p>4.1 Power Requirements Battery powered</p> <p>4.2 Battery operated 3-volt lithium coin cell battery or 2 x (AAA) Alkaline Batteries.</p> <p>4.3 Tolerance (to variations, shutdowns) NA</p> <p>4.4 Protection NA</p> <p>4.5 Power consumption NA</p> <p>4.6 Other energy supplies NA</p> <p>5. ACCESSORIES, SPARE PARTS, CONSUMABLES</p> <p>5.1 Accessories & Spare parts NA</p> <p>5.2 Consumables/reagents (open, closed system) Glucose strips(stable to use capillary blood samples) with availability in local market, shelf life of strips should be 12 months, the cost of strips for the next five years should be declared (for cost comparison)- with use of two strips/day.</p> <p>BIDDING/PROCUREMENT TERMS/DONATION REQUIREMENTS</p> <p>6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS</p> <p>6.1 Atmosphere/Ambiance (air conditioning, humidity, dust...) Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%.</p> <p>6.2 User's care, Cleaning, Disinfection & Sterility Issues The unit should be cleanable with alcohol.</p> <p>7. STANDARDS AND SAFETY</p> <p>7.1 Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type); Local and/or International US FDA or CE (EU) and BIS or ISO 13485 certified.</p> <p>8. TRAINING AND INSTALLATION</p> <p>8.1 Pre-Installation requirements: nature, values, quality, tolerance NA</p> <p>8.2 Requirements for sign-off NA</p> <p>8.3 Training of staff (medical, paramedical, technicians) Required</p> <p>9. WARRANTY AND MAINTENANCE</p> <p>9.1 Warranty 2 years; shelf life of minimum 12 months for strips from the date of manufacture; strips should work minimum 3 months from opening of pack.</p> <p>9.2 Maintenance tasks Should require no routine maintenance.</p> <p>9.3 Service contract clauses, including prices Should have life time replacement offer.</p> <p>10. DOCUMENTATION</p> <p>10.1 Operating manuals, service manuals, other manuals Required</p> <p>10.3 Recommendations for maintenance To Be provided during Installation</p> <p>Service support contact details (hierchy Wise; including a toll free/landline number) Should provide complete contact details of sales and service departments</p>	5 nos

Sl. No.	Name of the Equipment	Specification	Qty.
2	Pulse oximeter	(infant probe)	5 nos
3	Transcutaneous Bilirubinometer	<p>GENERAL</p> <p>1 USE</p> <p>1.1 Clinical purpose Determining the concentration of bilirubin in the blood or other clinical specimen, most commonly to rapidly assess hyperbilirubinemia in neonates.</p> <p>1.2 Used by clinical department/ward NICU/PICU</p> <p>TECHNICAL</p> <p>2 TECHNICAL CHARACTERISTICS</p> <p>2.1 Technical characteristics (specific to this type of device)</p> <ol style="list-style-type: none"> 1) Sample volume of < 100 µL required, automatic calibration facility. 2) Total bilirubin concentration measurable (at least) in range of 0 to 30 mg/dl. 3) Time for total concentration measurement: ≤ 5 seconds. 4) Should have filters: 455 and 575 nm (± 2%). 5) Should have error rate less than 5%. 6) Should have resolution- 0.1 mg/dl. 7) Automatic correction for Hemoglobin. 8) Measuring cell: Direct Hematocrit capillary readings. 9) heparinized hematocrit glass capillary. <p>2.2 Settings Method to recalibrate / save current calibration, set sample size.</p> <p>2.3 User's interface Manual interface.</p> <p>2.4 Software and/or standard of communication(where ever required) Backlit display with easy viewing in all ambient light levels. Inbuilt software. Convenient and quick USB interface.</p> <p>3 PHYSICAL CHARACTERISTICS</p> <p>3.1 Dimensions (metric) Approx. 110 x 150 x 200 mm.</p> <p>3.2 Weight (lbs, kg) 5 kg - 15 kgs</p> <p>3.3 Configuration (Ex : Compact, modular, to be fixed to walls, ceiling, etc).</p> <p>3.4 Noise (in dBA) <60dB</p> <p>3.5 Heat dissipation Heat Dissipation: Should maintain nominal temp and the heat should be disbursed through an cooling mechanism.</p> <p>3.6 Mobility, portability Easy and safe transport to be possible by hand, stable when tabletop mounted;</p> <p>4 ENERGY SOURCE (Electricity, Ups, Solar, Gas, Water, Co2)</p> <p>4.1 Power Requirements 220VAC ± 10%, 50 Hz</p> <p>4.2 Battery operated Yes (optional)</p> <p>4.3 Tolerance (to variations, shutdowns) Voltage corrector / stabilizer to allow operation at ± 10% of local rated voltage.</p> <p>4.4 Protection NA</p> <p>4.5 Power consumption NA</p> <p>4.6 Other energy supplies Length of mains power cable should be at least 3 meters.</p> <p>5 ACCESSORIES, SPARE PARTS, CONSUMABLES</p> <p>5.1 Accessories (mandatory, standard, optional) Hard and splash-proof case to be supplied.</p> <p>5.2 Spare parts (main ones)</p> <ol style="list-style-type: none"> 1) Spare/replaceable fuses - 2 sets. 2) Reagents and capillary tubes sufficient for minimum 100 tests. 3) Reagents and consumables per test should be declared. <p>5.3 Consumables / reagents (open, closed system)</p> <ol style="list-style-type: none"> 1) Capillary tubes, haemofluorometric reagents (e.g., aqueous cyanide salt with stabilizers, if applicable). 2) Price of all Consumables to be mentioned. <p>BIDDING/PROCUREMENT TERMS/DONATION REQUIREMENTS</p> <p>6 ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS</p> <p>6.1 Atmosphere / Ambiance (air conditioning, humidity, dust ...)</p> <ol style="list-style-type: none"> 1) Operating condition: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90% in ideal circumstances. 2) Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. <p>6.2 User's care, Cleaning, Disinfection & Sterility issues Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover.</p> <p>7 STANDARDS AND SAFETY</p> <p>7.1 Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type); Local and/or international</p> <ol style="list-style-type: none"> 1) Should be CE (EU)/FDA (US) approved product. 2) Manufacturer / supplier should have ISO 13485 certificate for quality standard. 3) Should have IEC 61010 certificate. <p>8 TRAINING AND INSTALLATION</p> <p>8.1 Pre-installation requirements: nature, values, quality, tolerance Availability of 5Amps electrical socket.</p> <p>8.2 Requirements for sign-off</p> <ol style="list-style-type: none"> 1) Supplier to perform installation, safety and operation checks before handover. 2) Local clinical staff to affirm completion of installation. <p>8.3 Training of staff (medical, paramedical, technicians)</p> <ol style="list-style-type: none"> 1) Training of users on operation and basic maintenance. 2) Advanced maintenance tasks required shall be documented. <p>9 WARRANTY AND MAINTENANCE</p> <p>9.1 Warranty 3 years</p> <p>9.2 Maintenance tasks</p> <ol style="list-style-type: none"> 1) Maintenance manual detailing. 2) Complete maintenance schedule. <p>9.3 Service contract clauses, Including prices</p> <ol style="list-style-type: none"> 1) The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee / warranty period should be attached. 2) Free servicing (min. 2/year) during warranty period. <p>Operating manuals, service manuals, other manuals Should provide 2 sets(hardcopy) of: 1) User, technical and maintenance manuals to be supplied in english/hindi language along</p>	3 nos


Sl. No.	Name of the Equipment	Specification	Qty.
		<p>with machine diagrams.</p> <p>2) List of equipment and procedures required for local calibration and routine maintenance.</p> <p>3) Certificate of calibration and inspection.</p> <p>Other accompanying documents : List of important spares and accessories, with their part numbers and cost</p> <p>Service support contact details (hierchy Wise; including a toll free/landline number) Contact details of manufacturer, supplier and local service agent to be provided. Any Contract (AMC/CMC/add-hoc) to be declared by the manufacturer.</p>	
4	X-ray view box.	<p>A. Product & Manufacturer Quality Standards:</p> <p>1. The quoted model should be "USFDA approved (Device listed with registration under valid FEI number /CFG)" OR "EU-CE certified" OR equivalent BIS standard particular for the product "X-Ray View Box".</p> <p>2. The manufacturer of the quoted product should have "EN ISO 13485 certificate issued from a notified body" OR "ICMED 13485 (with or without plus) certificate issued from certification bodies accredited by NABCB" OR "ISO 13485 certificate issued from certification bodies accredited by NABCB / Nationally Recognized Accreditation Board under IAF MLA".</p> <p>3. The quoted product must comply with or certified as per "IEC 60601" OR certificate issued from BIS conforming to "IS 13450" OR "IS/ISO 80601" for electrical safety standard.</p> <p>4. The quoted model of the medical device must be registered under CDSCO and submit the license to manufacture for sale or for distribution of the medical device. If not registered, the acknowledgment copy of the online application for the said registration must be uploaded in the bid.</p> <p>B. Technical Specification:</p> <p>1. It should be a 3 panel x-ray film illuminator for viewing 3 X-ray films simultaneously.</p> <p>2. It should have adequate panel size to view 3 numbers of X-Ray film of size 14"X 17" simultaneously.</p> <p>3. It should have LED light source.</p> <p>4. The material of the front viewing screen should be High quality Polymethyl Methcrylate(PMMA).</p> <p>5. The material of the frame should be Electrophoresis coated Aluminium alloy and ABS plastic.</p> <p>6. It should have power supply input of 220-240V.AC, 50Hz.</p> <p>7. It should have homogeneous illumination.</p> <p>8. The power consumption should be less than 30 watts.</p> <p>9. It should have flicker free light.</p> <p>10. It should have external fuse for protection against power surge.</p> <p>11. It should have easy insertion and removal of films through X-Ray film holders.</p> <p>12. It should have a dedicated power on/off switch with a fully electronic continuous adjustable separate brightness control provision for each panel on the illuminator panel.</p> <p>13. It should have an overall weight less than 10kgs.</p> <p>14. The model should have Life of LED (in hours) more than equal to 1,00,000 hours.</p> <p>C. Warranty: One year of comprehensive warranty.</p>	4 nos


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Sl. No.	Name of the Equipment	Specification	Qty.
5	Direct Ophthalmoscope.	<p>GENERAL</p> <p>1. USE</p> <p>1.1 Clinical purpose Direct ophthalmoscope is a hand-held and battery powered device containing illumination and viewing optics to examine the cornea, aqueous, lens, vitreous, and the retina of the eye.</p> <p>1.2 Used by clinical department/ward NICU & PICU</p> <p>TECHNICAL</p> <p>2. TECHNICAL CHARACTERISTICS</p> <p>2.1 Technical characteristics (specific to this type of device)</p> <ol style="list-style-type: none"> Should have on/off button for illumination and battery operated; Should have rotating knob to control the intensity of the ophthalmoscope and should be used with filters that eliminate UV radiation (<400nm) and, whenever possible, filters that eliminate short-wavelength blue light (<420nm); Should have the range of +20 to -20 in single dioptre steps to ensure easy examination of all ocular structures; Should have apertures shape: Large spot, small spot, slit, central net, and red free; <p>2.2 User's Interface Manual</p> <p>2.3 Software and/or standard of communication (where ever required) NA</p> <p>3. PHYSICAL CHARACTERISTICS</p> <p>3.1 Dimensions (metric) Max: 50mm x 50mm x 250mm.</p> <p>3.2 Weight (lbs, kg) NA</p> <p>3.3 Configuration NA</p> <p>3.4 Noise (in dBA) NA</p> <p>3.5 Heat dissipation NA</p> <p>3.6 Mobility, portability Handheld device</p> <p>4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO₂)</p> <p>4.1 Power Requirements NA</p> <p>4.2 Battery operated Yes</p> <p>4.3 Tolerance (to variations, shutdowns) NA</p> <p>4.4 Protection NA</p> <p>4.5 Power consumption NA</p> <p>5. ACCESSORIES, SPARE PARTS, CONSUMABLES</p> <p>5.1 Accessories (mandatory, standard, optional):</p> <ol style="list-style-type: none"> Replacement bulb/illumination source -2 Nos. Storage case (rigid and steady). <p>Spare parts (main ones):</p> <p>Consumables/reagents (open, closed system)</p> <p>BIDDING/PROCUREMENT TERMS/DONATION REQUIREMENTS</p> <p>6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS</p> <p>6.1 Atmosphere/Ambiance (air conditioning, humidity, dust...)</p> <ol style="list-style-type: none"> Operating condition: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90% in ideal circumstances. Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. <p>6.2 User's care, Cleaning, Disinfection & Sterility issues</p> <p>Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover.</p> <p>7. STANDARDS AND SAFETY</p> <p>7.1 Certificates (pre-market, sanitary, ...): Performance and safety standards (specific to the device type); Local and/or International</p> <ol style="list-style-type: none"> Should have IEC 60601-1/IEC 60601-1-2/CE (EU) certificate; Optical radiation hazards with ophthalmoscopes: ISO 10942 or ISO 15004; Manufacturer/supplier should have ISO 13485 certificate for quality standard; <p>8. TRAINING AND INSTALLATION</p> <p>8.1 Pre-installation requirements: nature, values, quality, tolerance NA</p> <p>8.2 Requirements for sign-off Certificate of calibration and inspection from the manufacturer.</p> <p>8.3 Training of staff (medical, paramedical, technicians)</p> <ol style="list-style-type: none"> Training of users on operation and basic maintenance; Advanced maintenance tasks required shall be documented. <p>9. WARRANTY AND MAINTENANCE</p> <p>9.1 Warranty 3 years including bulb.</p> <p>9.2 Maintenance tasks</p> <ol style="list-style-type: none"> Maintenance manual detailing; Complete maintenance schedule; <p>9.3 Service contract clauses, including prices</p> <ol style="list-style-type: none"> The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee/warranty period should be attached; Free servicing (min. 2/year) during warranty period; <p>10. DOCUMENTATION</p> <p>10.1 Operating manuals, service manuals, other manuals</p> <p>Should provide 2 sets (hardcopy) of:</p> <ol style="list-style-type: none"> User, technical, maintenance and service manuals to be supplied along with machine diagrams; List of equipment and procedures required for local calibration and routine maintenance; Certificate of calibration and inspection; <p>10.2 Other accompanying documents</p> <p>List of important spares and accessories, with their part numbers and cost;</p> <p>Service support contact details (hierarchy Wise; including a toll free/landline number) : Contact details of manufacturer, supplier and local service agent to be provided; Any Contract (AMC/CMC/add-hoc) to be declared by the manufacturer; Recommendations or warnings : Any warning signs would be adequately displayed</p>	3 nos

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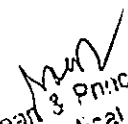
Sl. No.	Name of the Equipment	Specification	Qty.
6	Transport incubator.	<p>GENERAL</p> <p>1. USE</p> <p>1.1 Clinical purpose designed to provide an enclosed controlled environment to maintain appropriate temperature and humidity levels mainly for premature infants and other newborns who cannot effectively regulate their body temperature.</p> <p>1.2 Used by clinical department/ ward NICU and PICU</p> <p>1.3 Overview of functional requirements</p> <p>Control of air temperature and infant skin temperature. Clear, hard cabinet for Infant viewing. Easy access control panel, with light touch operation switches. Facility to elevate base, adjustable range. Self-test functions are performed Built for transport of infants between wards or health facilities, including by vehicle. Must have skin temperature display.</p> <p>TECHNICAL</p> <p>2. TECHNICAL CHARACTERISTICS</p> <p>2.1 Technical characteristics (specific to this type of device)</p> <p>1. Visual and audible alarms for:</p> <p>(i) Patient and air high/low temperature alarm. (ii) Air circulation / probe / system / power failure alarm.</p> <p>2. Heater power indicator</p> <p>3. Air velocity: minimum 0.30m/sec</p> <p>4. Oxygen input flow rate 5 to 15 liters/min or oxygen concentration range 25 to 70%.</p> <p>5. Maximum CO₂ concentration inside incubator 0.2%.</p> <p>6. Internal noise level < 60 dB.</p> <p>7. Mode of operation should be properly displayed.</p> <p>8. Green indicator light should be provided for its ready to be in normal use.</p> <p>9. Infants straps should be provided to restrict the baby movement.</p> <p>10. skin temperature probe should be small in size not more than 10mm diameter and 4mm in height to fix the probe firmly on the infant. Baby contact material should be biocompatible as per ISO 10993 standard requirement.</p> <p>11. Infant bed should be drawable. Mattress foam density should be minimum 25kg/cm³ and infant bed mattress cover should be biocompatible material.</p> <p>12. Examination light should be provided for inspection.</p> <p>13. Should have heater power indicator.</p> <p>14. Warmup time 30-40 minutes and shall not differ by more than 20%.</p> <p>15. Shall be equipped with a thermal cut-out. It shall be so arranged that the heater is disconnected and an auditory and visual warning is given at an incubator temperature which does not exceed 40 deg C.</p> <p>16. Should have elbow operate-able ports and head access door.</p> <p>17. It should not topple over at 10 deg inclined plane.</p> <p>18. Patient skin temperature range: 35 deg C to 37.5 deg C. over ride up-to 38 deg C.</p> <p>19. Air temperature range: 30 deg C to 39 deg C. Temperature resolution \pm 0.1 deg C; Temperature accuracy \pm 0.2 deg C.</p> <p>2.2 Settings</p> <p>Patient skin temperature range: 35 deg C to 37.5 deg C. over ride upto 38 deg C.</p> <p>Air temperature range: 30 deg C to 39 deg C</p> <p>2.3 User's Interface</p> <p>Display allows easy viewing in all ambient light levels</p> <p>2.4 Software and/or standard of communication</p> <p>in built</p> <p>2.5 Others</p> <p>1. Temperature on the baby mattress should not exceed 40 deg C and 43 deg for other materials</p> <p>2. Uniformity of temperature on the horizontal mattress shall not exceed 1.5 deg C and in tilted mattress not exceed 2 deg C.</p> <p>3. The overshoot temperature shall not exceed 2 deg C.</p> <p>4. The stability of temperature during steady temperature shall not differ from the average temperature by more than 1 deg C.</p>	1 no


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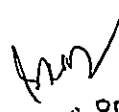
Sl. No.	Name of the Equipment	Specification	Qty.
		<p>3. PHYSICAL CHARACTERISTICS</p> <p>3.1 Dimensions (metric) Baby bed should be at-least 60X30cm and the canopy should be at-least 80X40 cm.</p> <p>3.2 Weight (lbs, kg) not exceeding 40kg. (without cylinders).</p> <p>3.3 Configuration Oxygen port with tubing, also mount for oxygen cylinder of 5 liters size. Accommodates shelves, suction unit and I/V poles. Double-walled cabinet with at least two hand ports. Should have collapsible trolley with lockable castors. Mounted on mobile base, lowest height setting of which is at least 80 cm high. Minimum castor diameter 12cm. At least two castors must be fitted with brake facility. Castors must be made of conductive material such as Static dissipative Polyurethane and rotate (swivel) freely around the vertical axis. The canopy and infant bed should be crevice free for ease of cleaning.</p> <p>3.4 Noise (in dBA) <60dBA; Alarm Audible sound level should be at-least 65dBA at 3meter distance from the device.</p> <p>3.5 heat dissipation Should maintain up-to 37 deg temp.</p> <p>3.6 Mobility, portability Yes, on castors</p> <p>4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO₂ ...)</p> <p>4.1 Voltage (value, AC or DC, monophase or triphase) 220VAC \pm 10% , 50 Hz</p> <p>4.2 Battery operated Battery charger to be integral to mains power supply, and to charge battery during mains power operation of unit. Electrical protection by resettable over-current breakers or replaceable fuses, fitted in both live and neutral lines. Battery backup of 2 hours for equipment operation. The battery should be protected from overcharging.</p> <p>4.3 Tolerance (to variations, shutdowns) Voltage corrector / stabilizer to allow operation at \pm 10% of rated voltage.</p> <p>4.4 Protection Internal, replaceable, rechargeable battery allows operation for at least two hours in the event of power failure</p> <p>4.5 Power consumption</p> <p>4.6 Other energy supplies Mains cable to be at least 3m length</p> <p>5. ACCESSORIES, SPARE PARTS, CONSUMABLES</p> <p>5.1 Accessories (mandatory, standard, optional) With washable and removable straps and binders</p> <p>5.2 Spare parts (main ones) Two extra sets of all sensors</p> <p>5.3 Consumables / reagents (open, closed system) Two extra sets of filters, two extra set of fuses (if replaceable fuses used)</p> <p>6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS</p> <p>6.1 Atmosphere / Ambiance (air conditioning, humidity, dust ...) Operating condition: - Capable of operating continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90% in ideal circumstances. - an ambient air velocity is less than 0.3 m/s.</p> <p>6.2 User's care, Cleaning, Disinfection & Sterility Issues Unit layout to enable easy cleaning and sterilization of all surfaces, with no unreachable fluid traps. The case is to be cleanable with alcohol or chlorine wipes</p> <p>6.3 Others</p> <p>7. STANDARDS AND SAFETY</p> <p>7.1 Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/or international 1) FDA (US) /CE (EU) from authorized third party and BIS/ISO 13485 2) Relevant IEC-60601-Part 1 & 2, certificates by a notified agency</p> <p>8. TRAINING AND INSTALLATION</p> <p>8.1 Pre-Installation requirements: nature, values, quality, tolerance Supplier to perform installation, safety and operation checks before handover.</p> <p>8.2 Requirements for sign-off Certificate of Calibration and inspection from the factory.</p> <p>8.3 Training of staff (medical, paramedical, technicians) Training of users in operation and basic maintenance shall be provided</p> <p>Warranty and Maintenance 1 Warranty 3 years excluding battery and consumables 2 maintenance tasks Advanced maintenance tasks required shall be documented 3 service contract clauses, including prices Local clinical staff to affirm completion of installation.</p>	


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Sl. No.	Name of the Equipment	Specification	Qty.
		<p>Operating manuals, service manuals, other manuals</p> <p>User, technical and maintenance manuals to be supplied in english language. Certificate of calibration and inspection to be provided. List to be provided of equipment and procedures required for local calibration and routine maintenance List to be provided of important spares and accessories, with their part numbers and cost.</p> <p>Other accompanying documents : User/Technical/Maintenance manuals to be supplied in English</p> <p>Other Information :Any Contract (AMC/MC/add-hoc) to be declared by the manufacturer</p> <p>Recommendations or warnings: Any recommendations for best use and supplementary warning for safety should be declared</p>	
7	Defibrillator.	<p>GENERAL</p> <p>1. USE</p> <p>1.1 Clinical purpose Defibrillation is a common treatment for life-threatening cardiac dysrhythmias, ventricular fibrillation and pulseless ventricular tachycardia. Defibrillation consists of delivering a therapeutic dose of electrical energy to the heart with a device.</p> <p>1.2 Used by clinical department/ ward NICU and PICU</p> <p>TECHNICAL</p> <p>2. TECHNICAL CHARACTERISTICS</p> <p>2.1 Technical characteristics (specific to this type of device)</p> <ol style="list-style-type: none"> 1) The Defibrillator should have biphasic technology having energy selection of 1-200 Joules. 2) The machine should have facility for ECG monitoring, defibrillation, transcutaneous pacing, defibrillation and synchronized cardioversion with CPR feedback to measure chest compression rate and depth in real time and visual on screen feedback. 3) Machine must be with sweep rate 25mm/sec, 50mm/sec. 4) It should be capable of monitoring ECG through ECG cables, electrodes & paddles. 5) Machine should have 24 hour trend storage facility. 6) The machine should have defibrillator facility for neonatal and pediatric patients. 7) The machine should have ECG waveform display with provision for synchronization. 8) The machine should be compact, portable with built in rechargeable battery & light weight. 9) The machine should have inbuilt auto & manual recorder for printing ECG trace & stored information. 10) The machine should have user selectable alarms setting. 11) The machine should work on mains (without battery) and on battery as well. 12) The machine should have AED feature as inbuilt with manual override for manual operations. <p>2.2 User's Interface Manual/Automatic</p> <p>2.3 Software and/or standard of communication (where ever required)</p> <ol style="list-style-type: none"> 1) Inbuilt software. 2) Convenient and quick USB interface. <p>3. PHYSICAL CHARACTERISTICS</p> <p>3.1 Dimensions (metric) NA</p> <p>3.2 Weight (lbs, kg) Max 10kg</p> <p>3.3 Configuration Should have audio visual alarm for battery low.</p> <p>3.4 Noise (in dBA) <60db</p> <p>3.5 Heat dissipation 1) Should maintain nominal Temp of the control unit and the heat should be disbursed through an cooling mechanism.</p> <p>3.6 Mobility, portability Portable</p> <p>4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)</p> <p>4.1 Power Requirements Input voltage 220 VAC \pm 10%, 50Hz</p> <p>4.2 Battery operated</p> <ol style="list-style-type: none"> 1) Battery powered, silenceable alarm for power failure. 2) Battery charger to be integral to mains power supply, and to charge battery during mains power operation of unit. 3) Internal, replaceable, rechargeable battery allows operation for a minimum of two hour in the event of power failure. <p>4.3 Tolerance (to variations, shutdowns) Voltage corrector / stabilizer to allow operation at \pm 15% of local rated voltage. Use of SMPS to correct voltage.</p> <p>4.4 Protection</p> <ol style="list-style-type: none"> 1) Electrical protection, resettable over current breakers or replaceable fuses (fitted in both live and neutral lines). 2) Leakage <p>4.5 Power consumption NA</p> <p>5. ACCESSORIES, SPARE PARTS, CONSUMABLES</p> <p>5.1 Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables / reagents (open, closed system)</p> <ol style="list-style-type: none"> 1) Machine must be supplied with ECG cable, Battery, Paddle (Adult integrated with pediatric). 2) 3 No. Reusable CPR feedback sensor. 3) 300 gel sheet or pads for monitoring and defibrillation. <p>BIDDING/PROCUREMENTTERMS/DONATION REQUIREMENTS</p> <p>6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS</p> <p>6.1 Atmosphere / Ambiance (air conditioning, humidity, dust ...)</p> <ol style="list-style-type: none"> 1) Operating condition: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90% in ideal circumstances. 2) Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. <p>6.2 User's care, Cleaning, Disinfection & Sterility issues</p> <ol style="list-style-type: none"> 1) Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover. <p>7. STANDARDS AND SAFETY</p> <p>7.1 Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type); Local and/or International</p> <ol style="list-style-type: none"> 1) FDA (US) /CE (EU) from authorized third party and BIS/ISO 13485. 2) Relevant IEC-60601-Part 1 & 2, certificates by a notified agency. <p>8. TRAINING AND INSTALLATION</p> <p>8.1 Pre-installation requirements: nature, values, quality, tolerance</p> <ol style="list-style-type: none"> 1) Availability of 5 amp/15amp socket. 2) Safety and operation check before handover. 	1 no


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Sl. No.	Name of the Equipment	Specification	Qty.
		<p>8.2 Requirements for sign-off</p> <ol style="list-style-type: none"> 1) Supplier to perform installation, safety and operation checks before handover. 2) Local clinical staff to affirm completion of installation. <p>8.3 Training of staff (medical, paramedical, technicians)</p> <ol style="list-style-type: none"> 1) Training of users on operation and basic maintenance. 2) Advanced maintenance tasks required shall be documented. <p>9. WARRANTY AND MAINTENANCE</p> <p>9.1 Warranty</p> <p>3 years</p> <p>9.2 Maintenance tasks</p> <ol style="list-style-type: none"> 1) Maintenance manual detailing. 2) Complete maintenance schedule. <p>9.3 Service contract clauses, including prices</p> <ol style="list-style-type: none"> 1) The spare, accessories & consumables price list required for maintenance and repairs in future after guarantee / warranty period should be attached. 2) Free servicing during warranty period. <p>10. DOCUMENTATION</p> <p>10 Operating manuals, service manuals, other manuals</p> <p>Should provide 2 sets(hardcopy) of:-</p> <ol style="list-style-type: none"> 1) User, technical, maintenance and service manuals to be supplied along with machine diagrams. 2) List of equipment and procedures required for local calibration and routine maintenance. 3) Certificate of calibration from the manufacturer. <p>10 Recommendations for maintenance</p> <p>List of important spares and accessories, with their part numbers and cost.</p> <p>11. NOTES</p> <p>11 Service Support Contact details (Hierarchy Wise; including a toll free/landline number)</p> <ol style="list-style-type: none"> 1) Contact details of manufacturer, supplier and local service agent to be provided. 2) Any Contract (AMC/CMC/add-hoc) to be declared by the manufacturer. <p>11 Recommendations or warnings</p> <p>Any warning signs would be adequately displayed.</p>	
8	Bed side EEG machine.	<p>GENERAL</p> <p>1. USE</p> <p>1.1 Clinical purpose</p> <p>To record the variations of the electrical potential caused by the electrical activity of the brain</p> <p>1.2 Used by clinical department/ ward</p> <p>NICU/PICU</p> <p>TECHNICAL</p> <p>2. TECHNICAL CHARACTERISTICS</p> <p>2.1 Technical characteristics (specific to this type of device)</p> <ol style="list-style-type: none"> 1) Should be a 32 Channel digital EEG Machine, where 24 Channels for acquisition and storage, 5 Polygraph Channels and 3 DC Channels. 2) Frequency response should be 0.05Hz to 70Hz. 3) Should have facility to view all channels in different montages during acquisition and review. 4) Should have split screen facility to study and even carefully during acquisition, where data storage should be on going in hard disk. 5) Should have split screen facility in analysis to compare the data of same time or different times with individual selection of filters, sensitivity, montages etc. 6) Should have the facility for simultaneous acquisition and review of same record. 7) Should have the facility to mark pages/important events for printing in review. 8) Should have user definable photic stimulator protocol execution with display of photic marks on screen using LED or Xenon flash lights 9) Should have unlimited Montage Reformatting. 10) Should have HLF (15, 35, 70 Hz) and LLF (0.1, 0.3, 1.5, 3, 5 Hz) filters for each channel as well as for all channels for display. 11) Should have the facility for sweep speed selection. 12) Should have the facility to display traces with limit trace. 13) Should mark and annotate standard events such as Eyes open, Eyes closed, Hyperventilation on, Hyperventilation off, Artifact, and other user defined events of max. 50. 14) Should have separate sensitivity control for each channels as well as for all channels. 	1 no


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Sl. No.	Name of the Equipment	Specification	Qty.
		<p>15) Should have the facility to enter patient details such as ID, Name, Referred By, Sex, Age, Patient History, Address, Doctor Name etc.</p> <p>16) Should have the facility to review of selected patient form list, to sort data according to patient name, sex, age, test date etc, review another patient while acquisition and to edit the patient details.</p> <p>17) Should have the facility to browse page by page. Scroll in forward and reverse direction and the speed of scrolling can be different speed levels such as same acquisition speed, 2 times, 3 times, 4 times the acquisition speed.</p> <p>18) Should have user definable protocols for acquisition.</p> <p>19) EEG pages should displayed in BRAIN MAP montage and it should have the facility to view Amplitude brain map, Progressive amplitude brain map, frequency brain map, progressive frequency brain map, 4 bands frequency brain map with frequency spectrum, 5 bands frequency brain map with frequency spectrum, 4 bands frequency brain map with EEG & 5 bands frequency brain map with EEG in review mode.</p> <p>20) Should have the facility to edit current page events, browse all the marked events. Display the page having the selected event, to store any number of marked EEG pages on another HDD.</p> <p>21) Should have the facility for spike detection with amplitude greater than or equal to the specified amplitude and within specified duration.</p> <p>22) Should have the facility to print all marked EEG pages/Brain map pages in queue.</p> <p>23) Should have Acquisition Hot keys for Sensitivity for all traces, Eyes open, Eyes close, Hyperventilation ON, Hyperventilation OFF, Mark page, Artifact, Annotated event, Toggle pause/Release pause, Snap shot mode, photic stimulation etc.</p> <p>24) Should have Review Hot Keys for page mode, scroll mode, flip mode, next page, increase speed, mark page for printing, forward direction, reverse direction, previous page, decrease speed etc.</p> <p>25) Photic frequency should be 1-30 Hz. Stimulating time 1-16 sec and pause time 1-16 sec.</p> <p>26) CMRR should be greater than 100 db and input impedance should be greater than 10 M Ohms.</p> <p>27) Should have a high resolution low light video camera.</p> <p>28) Should have infra red camera for night VEEG recording facilities.</p> <p>29) Should have facility to upgrade EEG to sleep system in future.</p> <p>30) Should be supplied all necessary accessories including EEG Disc, Electrode.</p> <p>2.2 User's Interface</p> <p>2.3 Software and/or standard of communication(whenever required)</p> <p>Manual</p> <p>1) Convenient and quick USB interface</p> <p>2) Should have an efficient data base management including Hospital details, Reference doctors list, standard comments for summary report etc.</p> <p>3) Should have the facility to edit and print summary report, EEG page and Brain map page.</p> <p>4) Inbuilt software.</p> <p>3. PHYSICAL CHARACTERISTICS</p> <p>3.1 Dimensions (metric) Portable</p> <p>3.2 Weight (lbs, kg) Portable</p> <p>3.3 Configuration</p> <p>3.4 Noise (in dBA) NA</p> <p>3.5 Heat dissipation NA</p> <p>3.6 Mobility, portability Supplied in protective case for clean storage and safe transport.</p> <p>4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO₂ ...)</p> <p>4.1 Power Requirements Input voltage 220 VAC \pm 10%, 50Hz;</p> <p>4.2 Battery operated Battery powered, silenceable alarm for power failure. Battery charger to be integral to mains power supply, and to charge battery during mains power operation of unit. Internal, replaceable, rechargeable battery allows operation for at least one hour in the event of power failure.</p> <p>4.3 Tolerance (to variations, shutdowns) Voltage corrector/stabilizer to allow operation at \pm 10% of local rated voltage. Use of SMPS to correct voltage.</p> <p>4.4 Protection Electrical protection, resettable over current breakers or replaceable fuses (fitted in both live and neutral lines).</p> <p>4.5 Power consumption Should run with other life saving equipments running parallelly in the NICU/ PICU.</p> <p>4.6 Other energy supplies Mains power cable to be at least 3m length</p> <p>5. ACCESSORIES, SPARE PARTS, CONSUMABLES</p> <p>5.1 Accessories (mandatory, standard, optional) 2 Two sets of electrodes;</p> <p>5.2 Spare parts (main ones) Two sets of spare fuses (If non-resettable fuses used).</p> <p>5.3 Consumables/reagents (open, closed system) 5 tubes/box of elefix EEG paste.</p> <p>BIDDING/PROCUREMENT TERMS/DONATION REQUIREMENTS</p> <p>6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS</p> <p>6.1 Atmosphere/Ambiance (air conditioning, humidity, dust ...) 1) Operating condition: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90% in ideal circumstances. 2) Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%.</p> <p>6.2 User's care, Cleaning, Disinfection & Sterility Issues Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover.</p> <p>7. STANDARDS AND SAFETY</p> <p>7.1 Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type); Local and/or international 1) Should be CE (EU)/FDA (US) approved product; 2) Manufacturer/supplier should have ISO 13485 certificate for quality standard; 3) Electrical safety conforms to standards for electrical safety IEC-60601-1; 4) Shall meet IEC-60601-1-2 (General requirements for safety - electromagnetic compatibility); 5) IEC 60601-2-26:2002 and IEC 60601-2-37 applicable;</p>	

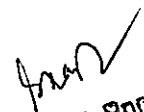
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Sl. No.	Name of the Equipment	Specification	Qty.
		<p>8. TRAINING AND INSTALLATION</p> <p>8.1 Pre-Installation requirements: nature, values, quality, tolerance</p> <p>8.2 Requirements for sign-off</p> <p>8.3 Training of staff (medical, paramedical, technicians)</p> <p>9.1 Warranty</p> <p>9.2 Maintenance tasks</p> <p>9.3 Service contract clauses, including prices</p> <p>10.1 Operating manuals, service manuals, other manuals</p> <p>10.2 Other accompanying documents</p> <p>11.1 Service Support Contact details (Hierarchy Wise; including a toll free/landline number)</p> <p>11.2 Recommendations or warnings</p> <p>1) Availability of 5 Amps. electrical socket;</p> <p>1) Supplier to perform installation, safety and operation checks before handover;</p> <p>2) Local clinical staff to affirm completion of installation;</p> <p>1) Training of users on operation and basic maintenance;</p> <p>2) Advanced maintenance tasks required shall be documented;</p> <p>9. WARRANTY AND MAINTENANCE</p> <p>3 years</p> <p>1) Maintenance manual detailing;</p> <p>2) Complete maintenance schedule;</p> <p>1) The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee/warranty period should be attached;</p> <p>2) Free servicing (min. 2/year) during warranty period;</p> <p>10. DOCUMENTATION</p> <p>Should provide 2 sets(hardcopy) of:-</p> <p>1) User, technical and maintenance manuals to be supplied in english/hindi language along with machine diagrams;</p> <p>2) List of equipment and procedures required for local calibration and routine maintenance;</p> <p>3) Certificate of calibration and inspection;</p> <p>List of important spares and accessories, with their part numbers and cost;</p> <p>11. NOTES</p> <p>Contact details of manufacturer, supplier and local service agent to be provided;</p> <p>Any Contract (AMC/CMC/add-hoc) to be declared by the manufacturer;</p> <p>Any warning signs would be adequately displayed.</p>	
9	High frequency oscillatory ventilator with disposable circuit	<p>1) Mode: High Frequency Oscillations with active exhalation technology</p> <p>2) Technology of oscillations: Electromagnetically driven piston technology</p> <p>3) The main unit should have US-FDA approval and certification for high frequency oscillation ventilation in neonates and children</p> <p>4) The compressor should have US-FDA or European CE certification</p> <p>5) Birth weight operation range: As low as 500 grams to as high as 35 kg</p> <p>6) Settings:</p> <p>a) FiO2: 21-100%</p> <p>b) Frequency: 3-15 Hz</p> <p>c) Oscillatory Pressure: up to 10 cm H2O</p> <p>d) Mean airway pressure: 3 - 40 cm H2O</p> <p>e) Amplitude (delta-P): >90 cm H2O</p> <p>7) Display: Mean Airway Pressure; Oscillatory Pressure amplitude, % inspiratory time, frequency, piston displacement and bias flow</p> <p>8) Alarms:</p> <p>a) High and low mean airway pressure</p> <p>b) Oscillator overheated</p> <p>c) Oscillator stopped</p> <p>d) Power failure</p> <p>e) Source gas flow low</p> <p>f) Battery low</p> <p>9) The unit should be mounted on a trolley / Pedestal stand with good quality castors</p> <p>10) The unit should have an air compressor that can support high gas flow requirements of high frequency oscillation and should have connections online to automatically switch on when the piped central air supply pressure drops below the recommended limit</p> <p>11) Oxygen / Air delivery hoses as applicable. The vendor should also arrange to supply the nipples for the hoses that are compatible with hospital's AIR and O2 supply sockets</p> <p>12) Integrated battery back up of at least 30 minutes for a continuous functioning of the ventilator and compressor in case of power shut down.</p> <p>13) Power supply: 220-240 V and 50-60 MHz</p> <p>14) Each unit should have a circuit hanger to support the patient circuit</p> <p>15) The equipment should come with a <u>warranty of 2 years</u> from the date of satisfactory installation and 5 years comprehensive maintenance contract after the end of the warranty. Warranty and CMC should include all parts - plastic, metallic, glass, batteries, electronics, electrical and rubber. Warranty and CMC should cover the ventilator, compressor, humidifier, stand and any other parts. Warranty and CMC would include the periodic calibration of all parameters strictly as per manufacturer's recommendations and any spares, gases or standards required for that</p> <p>16) Rates of the chargeable accessories should be quoted for the total period 10 years (warranty and CMC) and should be frozen for that duration</p> <p>17) Essential accessories to be supplied with the initial equipment supply:</p> <p>a) Special low compliance ventilator circuits suitable for high frequency oscillations 10 circuits.</p> <p>b) The unit should be supplied with stand alone heated humidifiers (1 no) which can servo control the temperature based on the patient end temperature and gas flow rate in the circuit and of the latest model and complete with all accessories to make it operational.</p>	1 no

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Sl. No.	Name of the Equipment	Specification	Qty.
		c) For each humidifier: Temperature probes (2 nos.), Humidifier chambers reusable (2 nos.), heater wire adaptors suitable for both reusable and disposable circuits (2 nos.) 18) Price of the essential accessories should be quoted and frozen for the entire duration of the contract period (10 years) 19) This is proprietary item and to be procured through PAC.	
	ANESTHESIOLOGY		
B	OPERATION THEATRE		
1	PLMA OF ALL SIZES	USFDA/CE approved latex free, reuseable, autoclavable	15 sets
2	PNS (Desirable)	i Should be electro-neuro-stimulaotr for plexus and peripheral nerve bolcks ii Should be Large LCD screen iii Should be Adjustable impulse generator iv Should be 0 to 4mA for an impulse of 300µs v Should be 0 to 5mA for an impulse of 100µs vi Should be 0 to 6mA for an impulse of 50µs vii Should be adjustable impulse frequency (1, 2 or 4 Hz) and duration (300µs or 50µs) viii Should be choise of display units: mA or nC ix Should have safety button immediately cuts off the electirc current x Precision should be double decimal digit display is automatically activated below 0.5mA, by increments of 0.02mA xi Can be used under sterile condition with a protective hood, supplied separately as a single unit. xii Approx Dimension should be minimum lenth 200 mm, Width: maximum 93 mm and minimum 57 mm, Height: maximum 40 mm and minimum 23mm & Weight: 205 g xiii Should have battery life over 24 hours continuous operation (battery 9V-500 mAh) xiv Should be Supplied in a small case for storage and transport xv Should be IEC standards 6011-1 and 601-2-10	6
3	a) Adult Manikin	i. State of the art integrated wireless technology ii. Roburst & Durable iii. Customizable training Scenarios iv. Real time performance feed back of compressor & Ventilation v. Advanced Airways management vi. In accordance to current ERC/AHA 2015 guideline	1
C	POSTOPERATIVE RECOVERY ROOM		
1	Provision for resuscitation equipment and CPR Algorithms	Oxygen mask with reservoir bag Pocket mask and one way valve AED Self-inflating bag with reservoir(BVM)- Both Adult & Child Oropharyngeal (Guedel) Airways Intubating Stylets Intubating Bougies with ventilation port	1
D	PAIN CLINIC		
1	Styleted Epidural catheter	FDA approved Wire-Reinforced Stylleted Body Soft spring-wire tip	50
2	OT Table fluoroscopy compatible	C-Arm Compatible Side tilt-25 degree-30 degree ReverseTrendelenburg-35-40 degree Stroke length- 200mm/250mm Max load capacity- 350kg Min Height-750mm Max height- 950/1010 mm Total bed length- 70-100 inch Adjustable Head end 45 degree	1


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ELECTROCAUTERY:

Electro Surgical Unit - Smart4 Plus Diathermy in the form of SMART4 Plus. As compared to a single generator, it offers some exceptional features and excellent performance in microsurgery, neurosurgery, laparoscopy and other surgeries. It features a unique spray coagulation mechanism integrated into it that ensures minimum cutting effect. In this equipment, isolated bipolar output has nonsparking characteristic and pure cut starts automatically even in irrigated surgical procedures.

Features :

- Minimum cutting effect
- Spray coagulation
- Automatically stops energy delivery as soon as the seal cycle is complete
- Feedback-controlled response system
- Provides good hemostasis effect

Cut :

- Pure cut - It produces a high-frequency alternating current for smooth, rapid cuts with little or no hemostasis
- Blend 1 - This mode offers varying degrees of hemostasis to surgeon in cut mode
- Blend 2 - The mode helps in vaporization of prostatic tissue or any fat tissue. The high wattage output offers fast cutting of tissues
- Endo cut - The automatic cut system is used for the reduction in complication rate of endoscopic sphincterotomy (EST) and serum hyperamylasemia after EST in comparison with the conventional blended cut mode.


Coag :

- Force : The Force mode covers the demands of standard coagulation by producing fine waveform that creates superficial resistance in the tissue resulting in superior coagulation, where the tissue destroyed by hyper evaporation. This enable surgeons for the removal of surface structures without damaging deep or peripheral tissues and to cauterize large surface areas quickly when required.
- Spray : The mode supports direct coagulation at tissue with spark. The CREST FACTOR is high thus not giving any cutting effect to the tissue.
- Fulgurate : It raises the voltage to produce a spark between electrodes for the coagulation of tissue. There is no contact between tissue and electrode.
- Desiccate : This Coagulation in which electrode is in direct contact with the tissue is referred to as desiccation and is the type of coagulation used in most surgeries. It ensures pinpoint desiccation with less destruction of peripheral tissue
- Bipolar feature : Coagulation without charring, adhesion and blanching of adjacent tissues

Bipolar :

- Micro : High Voltage force coagulation for special purpose when speed is required.

- Macro : For highly precise control over coagulation process and privations of carbonization.
- Cut : This Bipolar CUT technology nearly eliminate excessive current, even during precision cutting in minute SAFETY FEATURES tissue structure.
- Auto : Coagulation start by pressing the footswitch and stops output and audio signal automatically when the tissue is coagulated.
- Specifications :
 - Program mode : 99 User settable program modeFrequency : 480khz
 - Display : 7segment LED
 - Weight : 7.5Kg (approx)
 - Dimension : 410mm(L) x 355mm(W) x 155mm(H)
 - Voltage : Input Supply Voltage 230V (+ / - 15%) 50Hz


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