



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

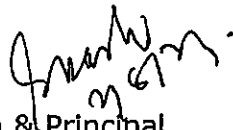
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NO. 9456 / MCB-24/Welfare/ Berhampur dated the 02<sup>nd</sup> August, 2024

**ADVERTISEMENT**

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 of 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](http://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

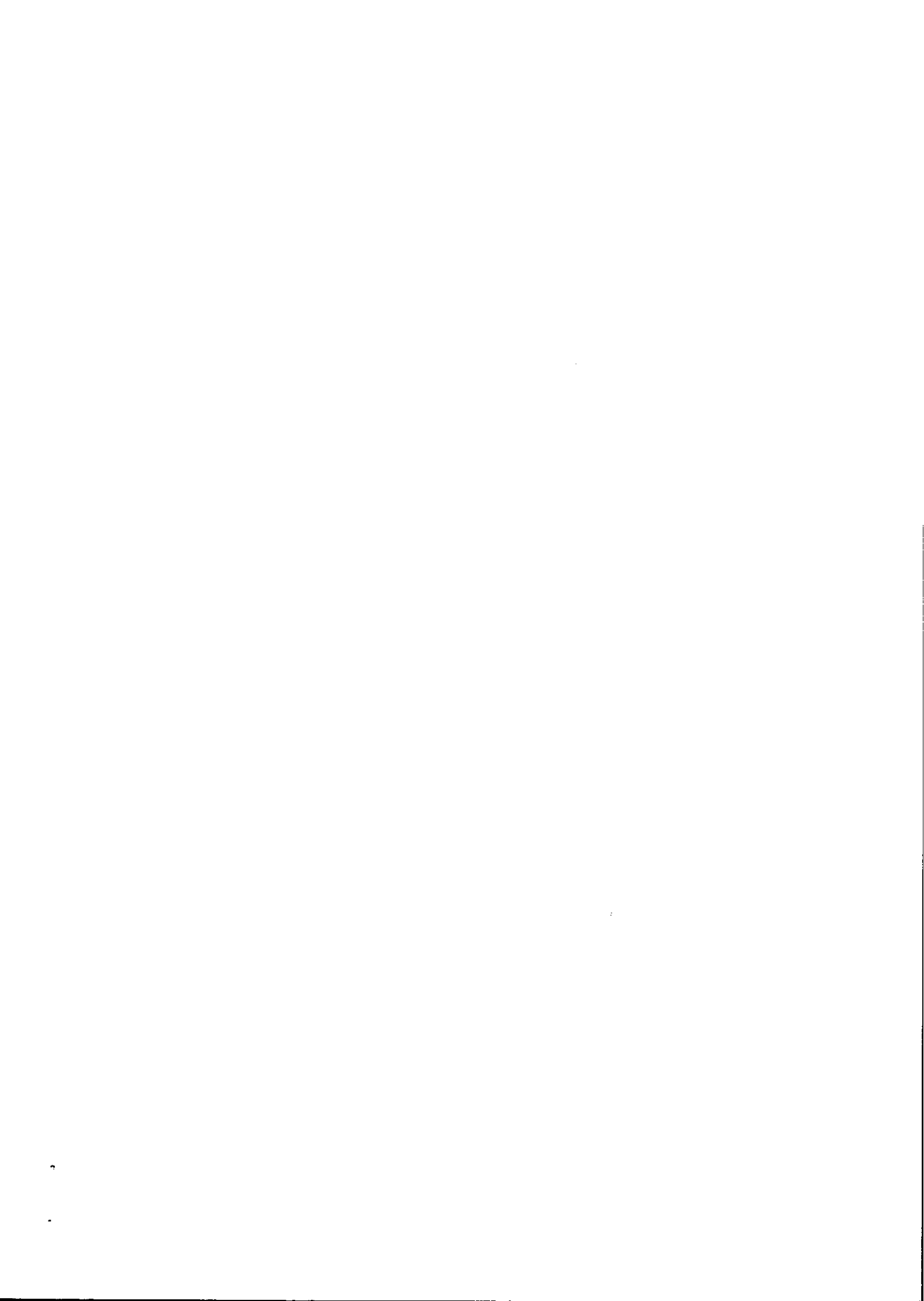


**OFFICE OF THE DEAN & PRINCIPAL  
M.K.C.G. MEDICAL COLLEGE, BERHAMPUR (GM.)**

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



**TENDER DOCUMENT FOR PURCHASE OF  
EQUIPMENTS FOR  
UPGRADATION OF UG SEATS**



## SECTION -II

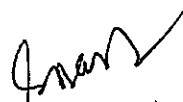
### IMPORTANT INSTRUCTIONS TO BE NOTED CAREFULLY BY THE TENDERERS

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.	Tender Document Cost	Those who download the Tender document, need not to deposit the Tender cost. Those who will collect the same from the office required cash deposit of Rs.2000/- in the accounts section of MKCG MC.
8.	Earnest Money Deposit (EMD) (The no. of equipment is mentioned in the Schedule of requirement – Section IV)	<i>Note: The bidder may quote for any or all the equipment by submitting the required EMD 2% of the quoted value for that equipment.</i>  The Earnest Money Deposit will be paid in the shape of Demand Draft only in favour of DEAN & PRINCIPAL MKCG MEDICAL COLLEGE, BERHAMPUR from any Nationalized/Scheduled Bank and payable at Berhampur
9	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 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.

  
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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.
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### SECTION -III

## **TERMS AND CONDITIONS FOR PURCHASE OF MEDICAL EQUIPMENTS FOR (UPGRADATION OF UG SEATS MKCG MCB)**

- 1.1 Sealed tenders will be received till 23-08-2024 upto 05.00 pm by the office of the Dean & Principal, MKCG Medical College Berhampur. Any tender received after the due date & time will be rejected / returned to the sender unopened. **The tenders will be received through Regd. Post // Speed Post / Courier Services only.** The prospective bidders may attend and clarify any doubts on the terms and conditions of the bid document.
- 1.2 The bidder(s) are to submit their tenders in **separate** sealed covered envelopes for **technical bid** and **commercial bid** by super scribing **Cover "A" (Technical Bid) & Cover "B" (Price Bid)** and both the sealed covers should be put into a **third outer Cover**, which should be super scribed as **"Tender for Up-gradation of Medical Equipments for MKCG Medical College.**
- 1.3 The Sealed tenders "Cover A" (Technical Bid) submitted by the tenderers will be opened at the office of the Dean & Principal,, MKCG Medical College, Berhampur on 23-08-2024 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.



- 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 Tender document fee of Rs.5000/- in shape of Demand Draft .
- 3.4 Earnest Money Deposit(s) as mentioned in the Clause 8 of Section -II in shape of Demand Draft). Details of EMD and the name of the equipment quoted should be clearly mentioned. (IIA to be filled up)
- 3.5 The declaration form in Annexure - IV duly signed by the tenderer before Notary Public / Executive Magistrate.
- 3.6 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.
- 3.7 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).
- 3.8 Copy of Import License by the Importer (in case of Importer).
- 3.9 Copy of the up to date GST clearance certificate.
- 3.10 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.
- 3.11 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 2 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>6 Crores</u> or more for preceding 3 financial year (for Manufacturer / Importer) or Rs. <u>6 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 Liasoning agent / servicing centre (Annexure VII)

### EARNEST MONEY DEPOSIT

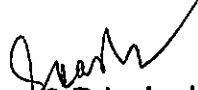
6.1 The amount of Earnest Money Deposit required is mentioned in the Section-II.

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.

**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.

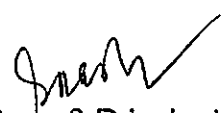
10.3 The rates of the item quoted by the tenderer who qualify technically will be evaluated after taking the following points into consideration: -

- 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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Berhampur

**TRAINING & OPERATIONAL MANUAL:**

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

**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.

## CHECK LIST

(To be submitted in Cover A Technical Bid)

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

Please put ✓ in the respective box

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

1	List of Item(s) – Annexure II	Page No	Yes	No	
2	Tender document Fee	Page No	Yes	No	
3	Earnest Money Deposit	Page No	Yes	No	
4	Declaration form (Annexure – III) signed by the Tenderer & affidavit before Notary Public / Executive Magistrate	Page No	Yes	No	
5	Manufacturer's Authorization Format to the particular agency (Annexure – V) (for distributor / Importer)	Page No	Yes	No	
6	Proof of avg. Annual turnover of Rs.50 lakh or more for preceding 3 financial year (for Manufacturer / Importer) or Rs.50 lakh or more (for authorized distributors) Annexure – VI	Page No	Yes	No	
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	Page No	Yes	No	
8	Photocopy of PAN	Page No	Yes	No	
9	Photocopy of GST certificate	Page No	Yes	No	
10	Copy of original Tender and schedules, duly signed by the Tenderer	Page No	Yes	No	
11	IT Return of last 3 financial year	Page No	Yes	No	
12	An affidavit to the effect that the firm has not been black listed anywhere	Page No	Yes	No	
13	Details of Manufacturing Unit / contact person Liaisoning agent / servicing centre (Annexure VII)	Page No	Yes	No	

  
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**Berhampur**

**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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Berhampur



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

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

**DETAILS OF EMD(S) SUBMITTED**

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

**Signature of the Tenderer :**

**Date :**

**Official Seal**

  
**Dean & Principal**  
**M.K.C.G. Medical College**  
Berhampur

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

**DECLARATION FORM**

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

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

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

Signature of the bidder :

Seal

Date :

Name & Address of the Firm:

Affidavit before Executive Magistrate / Notary Public.

(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,

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

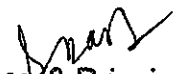
(Signature with date, name and designation)

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 Accountant)*

**ANNUAL TURN OVER STATEMENT**

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

Sl.No.	Year	Turnover in (Rs.)
1.	2021-2022	-
2.	2022-2023	-
3.	2023-2024	-

*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.*

## **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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Bathampur

## Annexure VII

(Refer Clause No. 3.5)

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

### DETAILS OF THE TENDERER & LOCAL CONTACT PERSON

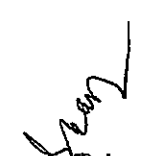
	<b>Corporate Office</b> (The address in which the purchase orders and payment details will be communicated)	<b>Local Contact Person / Branch Office / Zonal Office / Service Centre if any, in Odisha.</b>
Name & Full Address		
Telephone Nos., landline		
Mobile		
Fax		
E – Mail		
Date of Inception	(Copy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

**Signature of the Tenderer :**  
with seal

**Date :**

**Official**

**Seal**

  
**Dean & Principal**  
M.K.C.G. Medical College Page 19 of 55  
Bhubaneswar

**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 items in turn key.

  
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## REQUIREMENT

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
<b>ANATOMY</b>			
1.	Drill machine	Electric drill, high performance motor stable and compact design High technology gear, low noise , stable high quality commutator to make sure durable use. 220V-50 Hz, 280 W, 0-4500 r/min, 6.5 mm	3
2.	Storage Tank To Hold Cadavers	Durable tank with input and output facility with lid (steel), Static, Stainless steel, size: (6.5 ft. x 2 ft. x 2 ft.)	5
	Steel Tanks for Storing Soft and Dissected Parts	Static, Stainless steel, size: (4 ft. x 2.5 ft. x 3 ft.)	
3.	Bones (dis-articulated) sets (Original )	Original Adult Human Dis-articulated Bone set	22
<b>BIOCHEMISTRY</b>			
1	Constant temperature water bath Tank Capacity: (Temperature range 5 to 80 degree Celsius)	1.Full stainless steel, GMP Construction 2. PID Temperature control 3. Seamless inner tank 4.Easy chamber cleaning and no microbes harboured due to contoured corners all around 5.Stirring achieved by an efficient, continuously rated, self cooling motor with SS shaft and propeller of anti-corrosive material 6.Temperature range;ambient+5c to 90c 7. Control Accuracy at 37c;+0.1c 8. Dry Run safety Alarm 9 .Inbuilt Soak timer and End of cycle alarm 10.CE Certified 11.Independant over-temperature self resetting safety cut-off with alarm Available sizes; 8414 14 ltr 320x300x150/opening;200x300mm optional	1
2	Vortex mixers	1. AC/DC input 100V/240V, universal plug set, gray, purple 2. HS120567-1EA 3. Vortex mixture scope for operation of test tubes 4. ISI mark minimum warranty of motor three years	1
<b>DENTAL SURGERY</b>			
1	Extraction forcep set	> Extraction Forceps Kit Set comprising of 12 forceps: 1 x Upper Anteriors #1 (FX1S) 1 X Upper Premolars #7 (FX7S) 1 x Upper Molars Right #17 (FX17S) 1 x Upper Molars Left #18 (FX18S) 1 x Upper Roots #51A (FX51AS) 1 x Upper Third Molars #67A (FX67AS) 1 x Upper Molars Right (Cowhorn) #89 (FX89S) 1 x Upper Molars Left (Cowhorn) #90 (FX90S) 1 x Lower Premolars #13 (FX13S) 1 x Lower Molars #73 (FX73S) 1 x Lower Roots #74N (FX74NS) 1 x Lower Molars (Cowhorn) #86 (FX86S)	2



SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
2	Pedo extraction forcep set	> Extraction Forceps Pediatric Standard S/7 with Pouch 1 x Upper Anteriors Extraction Forceps Peedo Standard (FX5CS) 1 x Upper Premolars Extraction Forceps Peedo Standard (FX4CS) 1 x Upper Molars Extraction Forceps Peedo Standard (FX6CS) 1 x Upper Roots Extraction Forceps Peedo Standard (FX7CS) 1 x Lower Premolars Extraction Forceps Peedo Standard (FX1CS) 1 x Lower Molars Extraction Forceps Peedo Standard (FX2CS) 1 x Lower Roots Extraction Forceps Peedo Standard (FX3CS)	1
3	Elevator Set	> Set Of 9 Elevators: 1 x Flohr Root Elevators premium (E1FP) 1 x Flohr Root Elevators premium (E2FP) 1 x Flohr Root Elevators premium (E3FP) 1 x Cryer # Left Root Elevators premium (E31P) 1 x Cryer # Right Root Elevators premium (E32P) 1 x Coupland Right Root Elevators premium (EA1CP) 1 x London Hospital Root Elevators premium (E20HP) 1 x Cross-bar Elevator # Left (EWC12LP) 1 x Cross-bar Elevator # Right (EWC12RP)	3
4	Miniplate kit set	> Set containing following instruments made of high grade SS: 1 x Zygomatic Bone Awl 1 x Ordinary Screw Driver 1.5mm 1 x Ordinary Screw Driver 2 mm 1 x Ordinary Screw Driver 2.5 mm 1 x Self Holding Screw Driver 1.5 mm 1 x Self Holding Screw Driver 2 mm 1 x Self Holding Screw Driver 2.5 mm 1 x Wire Twister 1 x Wire Cutter 1 x Miniplate Cutter 1 x Plate holding forcep 1 x Bone Holding Forcep Pointed 1 x SS Drill Bite For Micromotor 1.5mm 1 x SS Drill Bite For Micromotor 2.0mm 1 x SS Drill Bite For Micromotor 2.5mm Trauma Instrument Kit container	1
5	Titanium mini plate ,	1.5 orbital	5
6	Titanium mini plate ,	2 mm L Plate	5
7	Titanium mini plate , with gap	2 mm 4 hole	20
8	Titanium mini plate , with gap	2.5 mm 4 hole	20
9	Surgical micromotor straight Hand pieces with cord & control box		1
10	SS Dril Bits,	1mm,1.5mm,2mm	15
11	Endomotor	> Set containing 1 x Control Unit 1 x Handpiece 1 x Contra Angle 16:1 1 x Handpiece Stand 1 x AC Adapter 1 x F-Type Spray Nozzle	1

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
12	Apex Locator	> <i>Dental Apex Locator with Automatic Calibration</i> 1 × Probe Cord 3 × File Holders 5 × Contrary Electrodes 1 × Canal-Length Tester 3 × DC 1.5 V AAA Size Battery	1
13	RVG Sensor & Portable Xray	<i>Portable X-ray machine, DC-powered, light weight, with an exposure time range of 0.05 - 1.00 sec, with minimized motion artefacts</i>	1
14	Rotary files flexible	21 mm, 25 mm files ISO 10-40 , 19 mm Sx files	20
15	Dental Chair, Fully automated	> Fully automatic chair with following features: Power Supply: 127/220 V ~ (internally selectable) Power Supply Frequency: 50/60 Hz Protection Against Electric Shock: Type B Applied Part Operating Mode: Continuous, Intermittent load – 1min. work and 4 min Led Light: 8 LEDs Yellow & White Optical System Light Intensity: Multi Intensity, Sensor Operated Available Colors: 13 different colors are available Stool: Steel base, hight adjustment & 5 castors Spittoon Bowl: 90° Movable No. of Programs: 9 Memory Program, 2 Preset Program Airtor Points: 3 Micromotor Point: 1	2
<b>ENT</b>			
1	The ward side room/emergency treatment room should have a mobile spotlight	10W,LED Rechargeable Head Light with Charging Cable, with Detachable Battery system with Extra Stand by Battery	1
<b>Microlaryngoscopy set</b>			
1	Kleinsasser's laryngoscope	Examination set should be USFDA or European CE certified -All Instruments should be made of SS 304.316/316L grade of surgical grade steel. -The manufacturer name and part number must be laser engraved/embossed on the instruments	2
2	fiberoptic lighting system	-do-	1
3	Suspension system for Laryngoscope	-do-	1
4	Microlaryngeal cup forceps	-do-	1
5	Microlaryngeal Scissors	-do-	1
<b>Oesophagoscopy Set</b>			
1	Oesophagoscopes sizes for different age group	-do-	2
2	Light source and cable	-do-	1
3	Biopsy Forceps	-do-	2
4	Foreign body removal forceps	-do-	2
5	Suction Cannula	-do-	2
6	Oesophageal dilators	-do-	1
<b>Bronchoscopy set</b>			
1	Bronchoscopes different sizes for different age groups	-do-	2
2	Biopsy forceps	-do-	2
3	Foreign body removal forceps	-do-	2
4	Peanut forceps	-do-	2

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
5	Suction cannula	Examination set should be USFDA or European CE certified -All Instruments should be made of SS 304.316/316L grade of surgical grade steel. -The manufacturer name and part number must be laser engraved/embossed on the instruments.	2
	<b>Minor Operation Theatre</b>		
	<b>(a)Direct Laryngoscope set</b>		
1	Laryngoscope-Anterior	-do-	1
2	Lighting System	It should be USFDA or European CE certified	1
3	Biopsy forceps	-Examination set should be USFDA or European CE certified -All Instruments should be made of SS 304.316/316L grade of surgical grade steel. -The manufacturer name and part number must be laser engraved/embossed on the instruments	1
4	Foreign Body removal forceps	-do-	1
<b>FMT</b>			
1.	ANTHRAPOMETRIC SET INCLUDING	Folding metal rod upto 7 Feet- made up of stainless steel/alloy with inch and centimetre markings for measurement, Osteometric board - For measurement of Bone length of large bones. Made up of stainless steel and wood. Measurement upto a length of 2 ft. Cranimeter- Stainless steel/alloy construction, clearly marked scale for measuring length in cm/inches and angle in degrees Mandibulometer- Stainless steel/alloy construction, clearly marked scale for measuring length in cm/inches and angle in degrees Goniometer- Stainless steel/alloy construction, two 180 degree clearly marked scale in opposite direction and easy to read inch and centimetre markings Vernier Calipers- Stainless steel/alloy construction, clearly marked scale for measuring length Equipment for Measuring Height - Stainless steel/alloy/wooden construction, clearly marked scale for measuring length in cm/inches, with height stand and floor board Weighing machine Dial type Human- Calibrated for measuring weight up to 100 kg	1
	G) EQUIPMENT FOR REPORTING HEIGHT		1
2.	CHEMICAL BALANCE		1
3.	REFRIGERATOR	400 LITRES, DOUBLE DOOR	1
4	DISSECTION SET COMPLETE		4
5	WEIGHING MACHINE FOR DEAD BODIES	Up to 200 kg	1
6.	STRYKER TYPE AUTOPSY SAW WITH ACCESSORIES	Weight 4.24lbs Dimensions 18 x 5.5 x 6.5 inch	4
7.	MAGNIFYING LENS	Power ranging from +2 Dioptre to +10 Dioptre, Lens Diameter 70 mm.	4
8.	DISSECTION SCISSORS-SHARP TIP	6" ST	4
9.	MAYO SCISSORS	6 ½	4
10.	MAYO SCISSORS	6"ST	4
11.	MAYO SCISSORS	8" CVD	4

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
12.	DISSECTION SCISSORS-SHARP BLUNT TIP	6" ST	4
13.	DISSECTION SCISSORS BLUNT - BLUNT TIP	6" ST	4
14.	ENTROTOME SCISSORS	8" ST	4
15.	DISSECTION FORCEPS (STANDARD SERRATED HANDLE)	5"	4
16.	DISSECTION FORCEPS (STANDARD SERRATED HANDLE)	7"	4
17.	DISSECTION FORCEPS (STANDARD SERRATED HANDLE)	6"	4
18.	LISTONE BONE CUTTING FORCEPS	10" ST	4
19.	SPENCER WELL ARTERY FORCEPS	8" ST	4
20.	DISSECTION KNIVES - HEAVY PATTERN	8" L (SINGLE)	4
21.	DISSECTION KNIVES - AUTOPSY DISSECTING	8" L (SINGLE)	4
22.	DISSECTION KNIVES - LONG SPECIMEN DISSECTING	14" L (SINGLE)	4
23.	CARTILAGE KNIFE	5" SOLID	4
24.	BRAIN KNIFE	BLADE - 254 X 25 MM	4
25.	ORGAN KNIFE	BLADE - 254 X 25 MM	4
26.	AMPUTATION SAW	215.9 MM	4
27.	DURA STRIPPING FORCEPS	8"	4
28.	RASPATORY (STRAIGHT)	7" ST	4
29.	RIB CUTTING KNIFE	8"	4
30.	COUNCILMAN'S RIB SHEARS	50.8 MM	4
31.	BONE MALLET	9" (190 MM)	4
32.	VIRCHOW SKULL BREAKER	4" HANDLE 3.625" LONG	4
33.	TESSIER OSTEOTOME	10" ST	4
34.	TESSIOR OSTEOTOME	15"	4
35.	BLADE HANDLE	NO - 3	4
36.	BLADE HANDLE	NO - 4	4
37.	ORGAN WEIGHING MACHINE	Up to 5 kg	4
38.	BABY WEIGHING MACHINE	Up to 20 kg	4
39.	LAPTOP	17", Intel core i9, 8 <sup>th</sup> Generation	1
<b>OPHTHALMOLOGY</b>			
(A)	O.P.D.		
1	Snellen Chart/Snellen drum with or without remote control	The LED vision chart is used for the measuring the visual acuity and color blindness of the human eye. LED vision chart can be operated using wireless and wired remote. All the charts are based on Snellen's test type printed acrylic coating. It is available in all patterns and all Indian and foreign languages. DOT Pattern (Test) : It is used to find out the fraction of the eye symbol "O". COLOUR Pattern (Test): It is consists of Red, Green, Yellow Colour. DUO - CHROME (Test): Red & Green colour with background.	1

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		<p><b>SNELLEN'S CHART Pattern (Test) :</b> Characters from different languages in varying sizes.</p> <p><b>Remote Control:</b>  The remote contains 4 switches &amp; their functions are as follows  ON Switch : Chart Pattern, Dot Pattern  = Switch : Duo – Chrome pattern, Colour test pattern  Up Switch: Moves the chart upward position  Down Switch : Moves the chart in downward position  <b>Refraction Distance Mirror Electrical Specification:</b>  Power Supply : ~ 110 -230 V, 50-60 HZ  Power consumption : 60 watts  Display Voltage : 12 V DC / Stepper Motor : 12V DC / SMPS  O/P : 12V  <b>Physical Parameters:</b>  Dimentions : 385 mm x 315 mm x 60 mm  1. Wireless &amp; wired remote each (one)  2. Table base clamp (one)  3. Screw &amp; washers for base ( four)  4. 1.5AA Battery (two)</p>	
2	Trial set with trial frame both for adult and children	<p><b>A box containing a set of lenses of different powers used to detect errors of refraction.</b></p> <p>i. Wooden case  ii. Sphere Lenses with handle, Power 0.12 to 20.00 with steps both with concave and convex  iii. Cylindrical Lenses without handle powers 0.12 to 6.00 with steps both concave and convex  iv. Prism 0.50 to 12  v. Adjustable Trial Frame  vi. Red and green glass, Pin hole, Maddox rod, Stenopicsli</p>	2
3	Automated Perimeter	<p>Maximum temporal range (degrees) : 860  Stimulus Duration : 200ms  Visual fields testing distance : 30 cm  Background illumination :31.5 ASB</p>	2
4	Color vision chart –Original Ishihara	<ul style="list-style-type: none"> <li>• <b>Demonstration Plates:</b> (plate number one, typically the numeral "12")designed to be visible by all persons, whether normal or color vision deficient for demonstration purpose only, and usually not considered in making a score for screening purpose.</li> <li>• <b>Transformation plates:</b> individuals with color vision defect should see a different figure from individuals with normal color vision.</li> <li>• <b>Vanishing plates:</b> Only individuals with normal color vision could recognize the figure.</li> <li>• <b>Hidden digit plates:</b> Only individuals with color vision defect could recognize the figure.</li> <li>• <b>Diagnostic plates:</b> intended to determine the type of color vision defect (protanopia or deuteranopia) and the severity of it.</li> <li>• <b>Tracing plates:</b> instead of reading a number, subjects are asked to trace a visible line across the plate.</li> </ul>	2
5	Ophthalmoscope (Direct)		1

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
6	Streak Retinoscope	<p>Retinoscope with parastop features the latest multi-coated optics for an exceptional bright funds reflex and easier detection of the neutralization point. Parastop was develop for the easy, precise selection of a parallel illumination beam. Parastop simplifies and speed up the precise detection of cylinder axis. Parastop also simplifies the verification of the cylinder correction after refraction.</p> <ul style="list-style-type: none"> <li>• Parastop precise, easy selection of a parallel beam.</li> <li>• Dustproof maintenance free</li> <li>• Single control for vergence and rotation, comfortable operation.</li> <li>• Integrated Polarisation filter. Eliminates stray light and internal reflexes for brighter pupilling reflex.</li> <li>• Streak or spot Retinoscope. Simply by changing the bulb.</li> <li>• XHL. Xenon Halogen Technology. Bright white light, Bright fundus reflex, easy recognition of neutralisation point.</li> <li>• Metal Controls, Long Lasting.</li> </ul> <p>Detachable brow rest, Increased comfort and control during examination</p>	4
7	Indirect Ophthalmoscope	<p>Focus Distance : 300-800 mm  Inter Pupillary distance : 54-74 mm  Inter Papillary distance : 1.00 mm  Illumination : Halogen Illumination  Field : Good, Clear, Circular  Illumination spot size : 0.4 mm, 3.0 mm, 1.2 mm  Illumination Area(at the distance 500mm): 80mm, 60mm, 25mm  Illumination Source: Halogen bulb on the power source  Illumination control: Continuously variable  Filters : Heat absorbing, Green, Cobalt blue</p> <p><b>Electrical Specifications:</b>  Power Supply : ~110-203V, 50-60 Hz  Light Source : 6V  Battery : N.A</p> <p><b>Physical Parameter:</b>  Weight net : Net 1.5kg and gross 3.5kg  Dimentions : 240 x 210 x 130 mm</p>	3
8	Slit lamp	<p>Magnifications – 8x , 12x , 20x  Field of View – 25mm to 10mm  Eyepiece magnification – 10x high-eyepoint eyepieces, + 8D compensation of ametropia  Width of slit image – 0 to 14mm, continuously adjustable  Length of slit image in steps: 0.5 / 3.5 / 8 / 14 , 1-14mm, continuously adjustable  Angel of slit image - + 90°, continuous  Decentration of slit image - +4° Horizontally, click stop at 0°  Swivel range of slit prism 180°, scale for angular difference, click stop at 0°  Angel of incidence 0°, Horizontal  Filters blue, green (red-free), Heat Reflecting filter, UV protection filter, Barrier filter yellow, Diffusing screen  Free working distance, 73mm or more  Travel of instrument base vertical – 30mm, Lateral – 110mm, Axial – 90mm  Vertical travel of chin rest 58mm  Power supply unit should fully inside the slit lamp base</p>	1

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
9	Applanation tonometer	<ul style="list-style-type: none"> <li>• Can be used with various slit lamp.</li> <li>• Measures from 0-80mm in 2mm increments.</li> <li>• Diameter of the face is 3.06mm.</li> </ul>	2
10	Keratometer	<p>Coincidence focusing system with positive measurement. One position instrument and measures both meridian with changing the optical system. Two way adjustable chin and head rests. Positive fixation permits rapid measurement of central corneal thickness. Achromatic lenses. Simple vertical adjustable head to fit patient. Dual eye level sliding system, facilities horizontal alignment. Positive fixation, permits rapid measurement of central area.</p> <p><b>Measurement Ranges:</b>            Corneal radius : 6.4 - 9.4mm in 0.05mm step            Corneal power : 52 - 36 D diopter in 0.25 D step            Corneal astigmatism axis: 0 degree - 180 degree</p> <p><b>Electrical Specifications:</b>            Light Source: 15W tungsten bulb / LED            Power Supply : ~ 110-230V, 50-60 Hz</p> <p><b>Physical Parameters:</b>            Dimension (L x B x H) : 19x7x16 inches            Weight : Approx 7kg</p> <p><b>Standard Accessories:</b>            Dust Cover (1)            Dummy Cornea (1)</p>	1
11	Synoptophore	<p>Synoptophore is an excellent diagnostic and therapeutic instrument for squint or strabismus angle management binocular vision angle of deviation measurement. Synoptophore is made with autoflashing device, after image test hadinger brush.</p> <p><b>Slides Details:</b>  <b>Yellow slides:</b> Yellow slides are used for macula, Fovea, Lazy eye hidden squint and headache.  <b>Green slides:</b> Green slides are used for depth_of image or 3D effect of the picture.  <b>Black slides:</b> Black slides used for fusion and its range. It is also used for H.B motor test.  <b>Red slides:</b> Red slides are used for simultaneous prescription (smp) and used to find the degree of squint or angle of deviation, also to find the PD value.</p> <p><b>Specifications:</b>  <b>Optional tubes movement:</b> Horizontal - adduction +50degree, -40 degree vertical hyperphoria 30 degree torsional - encyclophoria 20 degree, excyclophoria 20 degree.  <b>Auto Flashing:</b> Auto flashing of slide illumination either simultaneously, or alternatively raptd and variable modes.  <b>Haidinger brush:</b> 12Villumination lamp and easy motor speed control in both directions.  <b>Slides illumination:</b> Rheostat controlled 6V halogen lamp for each side. High intensity 12V for after image illumination  <b>Chinrest height:</b> 60 to 1300mm (from eye piece tube)  <b>Pupil adjusting distance:</b> 45 to 75mm</p>	1
12	Maddox Rod		1
13	Maddox Wing		2

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
14	Gonioscope	<p><b>Specification:</b>  Gonio Mag : 80x  Contact Diam : 15mm  Lens height : 19.5mm  Static Gonio View FOV : 170°V</p> <p><b>Specifications:</b>  VG4 Gonio Laser Lens  All glass design provides superior clarity and durability compared to acrylic lenses  Available in large or small rings or with 2 position handle to suit personal preferences  Flanged version provides stability for trabeculoplasty  No flange version ideal for goioscopy / Mirror Angles Image mag.  Laser Spot size contact diameter  4 x 64° 1.0 x 1.0 x 15mm  Height adjustable patient's stool</p>	3
15	Prism Bar		2
16	Schiotz's tonometer		2
(B)	<b>Major Operation Theatre</b>		
17	Cryo Unit	<p><b>Technical Specification:</b>  Completely non-electric, portable: Yes  Gas: N<sup>2</sup>O  Foot Controlled: Yes  Instant defrosting: Yes  Quick freezing and quick defrosting : Yes  Probe cleaning: Automatic</p> <p><b>Cryo Probes Technical Details:</b>  Probe : Temperature  Cataract : -40°C  Retinal : -80°C  Glaucoma : -80°C  Intravitreal : -20°C</p> <p>Useful for cataract, retinal detachment, glaucoma and intravitreal surgery Hammer headed/spatulated probe is available as optional  Net weight: 5Kg</p>	2
18	Cataract set	<ul style="list-style-type: none"> <li>• Mosquito Forcep 3.5' Straight (Steel) 1 Pcs.</li> <li>• Mosquito Forcep 3.5' Curved (Steel) 1 Pcs.</li> <li>• Liberman Speculum (Taitanium) 9 Grams Only</li> <li>• Temporal 1Pcs.</li> <li>• Liberman Speculum 14 Grams Only Temporal (Steel) 1Pcs.</li> <li>• Superior Rectus (Steel) 1Pcs.</li> <li>• Superior Rectus Needle 1Pcs.</li> <li>• Fixation Forcep (Steel) 1Pcs.</li> <li>• Ball Cortery (Steel) 1Pcs.</li> <li>• Corneal Scissor (Titanium) 1Pcs.</li> <li>• Corneal Scissor (Steel) 1Pcs.</li> <li>• Caliper Straight (Titanium) 1Pcs.</li> <li>• Caliper Straight (steel) 1Pcs.</li> <li>• Caliper Curved (Titanium) 1Pcs.</li> <li>• Caliper Curved (Steel) 1Pcs.</li> </ul>	6



SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		<ul style="list-style-type: none"> <li>• Iris Repositor (Titanium) 1Pcs.</li> <li>• Air Cannula 26G 1Pcs.</li> <li>• Haldipurkar Rhexis (Titanium) 1Pcs.</li> <li>• 602 Dialor (Titanium) 1Pcs.</li> <li>• Ring Polisher (Titanium) 1Pcs.</li> <li>• Inner Finishing Simco 21G Direct 1Pcs.</li> <li>• Irrigating Vectis (Retractor) 1Pcs.</li> <li>• Lens Expressor (Steel) 1Pcs.</li> <li>• Vannas Scissor Angel (Titanium) 1Pcs.</li> <li>• Micro Barraquer Needle Holder (Titanium) 1Pcs.</li> <li>• 504 Fine Corneal Forcep (Titanium) 1Pcs.</li> <li>• 517 Lims Forcep (Titanium) 1Pcs.</li> <li>• 510 MC Pherson (Titanium) 1Pcs.</li> <li>• Lens Loop 1Pcs.</li> <li>• Capsulotomy Scissor 21G (Titanium) 1Pcs.</li> <li>• Suture Tying Forcep Straight (Titanium) 1Pcs.</li> <li>• Suture Tying Forcep Curve (Titanium) 1Pcs.</li> <li>• Micro Rhexis 23G with Marking System (Titanium) 1Pcs.</li> <li>• B.P. handel 1Pcs.</li> <li>• Visco Cannula 1Pcs.</li> <li>• Kaltz Needle Holder 1Pcs.</li> <li>• A/C Maintainer 1Pcs.</li> <li>• Autoclave Box (Steel) 1Pcs</li> </ul>	2
19	Glaucoma set		2
20	DCT/DCRR set	<ul style="list-style-type: none"> <li>• Muellers Self Retraining Retractor 1Pcs.</li> <li>• Knapp Lacrimal Sac Retractor (2Pcs.) 1Set</li> <li>• Castroviezo Forcep 0.12mm 1Pcs.</li> <li>• Utility Forcer Sereted 1Pcs.</li> <li>• Dressing Forcep Straight 1Pcs.</li> <li>• West Cott Scissor Long Blunt Tip 1Pcs.</li> <li>• Stevens Tenotomy Scissor 1Pcs.</li> <li>• Iris Scissor 1Pcs.</li> <li>• Mosquito Forcep 5' Straight 1Pcs.</li> <li>• Mosquito Forcep 5' Curved 1Pcs.</li> <li>• Castroviejo Needle Holder Straight 1Pcs.</li> <li>• Castroviejo Needle Holder Curved 1Pcs.</li> <li>• Towel Clip 1Pcs.</li> <li>• Irrigating Lacrimal Probe with Silicon Tube (Two holes) 1Pcs.</li> <li>• Lacrimal Cannula 1Pcs.</li> <li>• Wash Cannula 1Pcs.</li> <li>• Silicon Bulb 1Pcs.</li> <li>• Kerrison Bone Ronguers 1.5mm 1Pcs.</li> <li>• Kerrison Bone Ronguers 2.5mm 1Pcs.</li> <li>• Kerrison Bone Rongures 3.5mm 1Pcs.</li> <li>• Kerrison Bone Rongures 4mm 1Pcs.</li> <li>• Nasal Speculum (Set of 3) 1Set</li> <li>• Lacrimal Probe (Set of 4) 1Set</li> <li>• Punctum Dialator 1Pcs.</li> <li>• Pigtail Probe 1Pcs.</li> <li>• Lacrimal Intubation Set 1Pcs.</li> <li>• Desmarres Rtractor 1Pcs</li> </ul>	2

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
21	Entropion set		2
22	Enucleation set		4
23	Evisceration set	<ul style="list-style-type: none"> <li>• Fixation Forceps 1x2 Teeth 1Pcs</li> <li>• Enucleation Scissor half Curved 1Pcs</li> <li>• Stevens Tenotomy Scissors Straight 1Pcs</li> <li>• Mule Evisceration Spoon 1Pcs</li> <li>• Bunge Evisceration Spoon 1Pcs</li> <li>• Wells Enucleation Spoon 1Pcs</li> <li>• Desmarres Lid Retractor 1Set</li> <li>• Graefe Muscle Book 1Pcs</li> <li>• Artery Forceps 1Pcs</li> <li>Sterilizing Case Single Mat (Steel) 1Pcs</li> </ul>	2
24	Squint set	<ul style="list-style-type: none"> <li>• Prince Muscle Forceps Right 1Pcs</li> <li>• Prince Muscle Forceps Left 1Pcs</li> <li>• Worth Muscle Forceps Right 1Pcs</li> <li>• Worth Muscle Forceps Left 1Pcs</li> <li>• Tissue Forceps 1x2 teeth 1Pcs</li> <li>• Bishop Harmon Forceps Serrated 1Pcs</li> <li>• Kelman MC Pharcon Forcep 1Set</li> <li>• Castroviezo Forcep 0.12mm Teeth 1Pcs</li> <li>• Bishop Harmon Forcep 1x2 Teeth 1Pcs</li> <li>• Dressing Forcep 1Pcs</li> <li>• Serrefine Curved 1Pcs</li> <li>• Serrefine ST 1Pcs</li> <li>• Towel Clip 1Pcs</li> <li>• Castrovijo Caliper Curved 1Pcs</li> <li>• Westcott Scissor Blunt Tip 1Pcs</li> <li>• Tenotomy Scissors 1Pcs</li> <li>• Artery Forceps</li> <li>• Strabismus Scissor Curved 1Pcs</li> <li>• Microbarraquer Needel Holder Curved 1Pcs</li> <li>• Castroviezo Needle Holder 1Pcs</li> <li>• Weiss Speculum 1Pcs</li> <li>• Lancaster Speculum 1Pcs</li> <li>• Lid Retractor 1Pcs</li> <li>• Culler Muscle Hook 1Pcs</li> <li>• Graefe Mussle Hook 1Pcs</li> <li>• Chavasse Mussle Hook 1Pcs</li> <li>• Jemson Muscle Hook 1Pcs</li> <li>Wasg Cannual 1Pcs</li> </ul>	3
(C)	<b>General Ophthalmic Equipment</b>		
(C)	<b>Minor Operation Theatre:</b> Minor O.T. should have the equipment for the removal of the foreign body, sutures, and chalazion or styte.		
(D)	<b>Wards:</b>		
25	Slit lamp		1
26	Snellen chart/Snellen drum with or without remote control		1
27	Trial set with trial frame both for adult and children		1

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
28	Near vision chart with different languages	1. Animal Picture Chart for per-verbal children 2. Self-illuminated 3. English, Hindi, Regional Language, illiterate E and C Chart 4. Plates made from high quality non reflective plastic Manufacture should have ISO 13485 certification for quality standards.	2
29	Torch		3
30	Ophthalmoscope	<p><b>Description Function:</b> Ophthalmic operating microscope with BIOM are used to magnify eye anatomy to assist during ophthalmic viretinal surgery and camera and video recording facility helps record the steps of surgery for teaching and training purpose.</p> <p><b>Product Quality Standard:</b> Should be CE / USFDA / BIS approved model. Manufacturer should be ISO 13485 certified.</p> <p><b>Technical Specifications:</b> Inclinable 180 Deg. Binocular tube with 12.5 X magnification eye pieces Compact microscope Body with high New state of art design ( for providing more options to surgeon) Quality apochromatic Optics with 1:6 zoom ratio, Retina Protection Device and contrast enhancement aperture. Objective with 200mm focal length (approx) for convenient working distance +2 Deg. Retro illuminations with continuous fading mechanism of co-axial illumination from 2 Deg. To 2+6 Deg. Magnification selection – continuous zoom Magnification indications – 4.2/5/6/7/8/9/10/11/13/15/17/19/21 Inbuilt beam splitter with BIOM attached. Integrated slit illumination system with horizontal and vertical moving facility. Integrated Depth of focus mechanism for improved depth of focus during surgery. Motorized foot controlled X-Y coupling with automatic re-centering X-Y inversion facility Motorized foot controlled Zoom and focus with re-centering of focusing position through foot control. High quality programmable floor stand with magnetic breaks and clutches for easy positioning through handles and suspension arm. Stand should have programming facility for setting the speed of XY, Zoom and focus with storage facility of initial setting for multiple users. Stand should have cold light fiber Optic Illumination with two illumination bulb with semi automatic changeover facility. Independent integrated binocular assistant microscope with 5 step magnification changer and focusing. 3CCD Digital camera attachment and digital video recording facility with imported high quality video trolley with isolating transformer. Unique design keeps the operating area ambient.</p>	2
	Requirement as per NMC norms (patient care)		
1	DCR Set		1

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
2	Glucoma		1
3	Lid Surgery Set		1
4	Evisereton Set		1
5	Enucleation set	<ul style="list-style-type: none"> <li>• Fixation Forceps 1x2 Teeth 1Pcs</li> <li>• Enucleation Scissor half Curved 1Pcs</li> <li>• Stevens Tenotomy Scissors Straight 1Pcs</li> <li>• Mule Evisceration Spoon 1Pcs</li> <li>• Bunge Evisceration Spoon 1Pcs</li> <li>• Wells Enucleation Spoon 1Pcs</li> <li>• Desmarres Lid Retractor 1Set</li> <li>• Graefe Muscle Book 1Pcs</li> <li>• Artery Forceps 1Pcs</li> <li>Sterilizing Case Single Mat (Steel) 1Pcs</li> </ul>	1
6	Trial set with frame	<ul style="list-style-type: none"> <li>• Wooden Case with Illuminated</li> <li>• Spheres Lenses with Handle, Power 0.12 to 20.00 with Steps</li> <li>• Cylinders Lenses without handle Powers 0.12 to 6.00 with steps</li> <li>• Prisms 0.50 to 12</li> <li>• Adjustable trail Frame</li> <li>Red and Green Glass, Pin Hole</li> </ul>	1
7	Slit lamp and applanation		1
8	Squint evaluation set		1
9	Synoptophore		1
10	Strak Retinoscope		1
11	Direct Ophthalmoscope		1
12	Indirect Ophthalmoscope		1
13	Eye Model		1
<b>ORTHOPEDICS</b>			
1	General Instruments set for fracture reduction	<ol style="list-style-type: none"> <li>1. Osteotom (All sizes)</li> <li>2. Chisel (All sizes)</li> <li>3. Gauge (All sizes)</li> <li>4. Nebular straight (All sizes)</li> <li>5. Nebular angular (All sizes)</li> <li>6. Spinal punch (All sizes)</li> <li>8. Bone scoop (All sizes)</li> <li>9. Bone hammer (All sizes)</li> <li>10. Blunt dissectors spinal (All sizes)</li> <li>11. Bone holding forceps (Different type and all sizes)</li> <li>12. Plate holding forceps (Different type and all sizes)</li> <li>13. Box clamp all size</li> <li>14. Bone cutter (All sizes)</li> <li>15. Bone Pliers</li> <li>16. Crocodile forceps</li> <li>17. Periosteiotom elevator (All sizes)</li> <li>18. Bone lever (Different types All sizes)</li> <li>19. Intramedullary remur set (Solid &amp; Canulated) (All sizes)</li> </ol>	10
2	Set for Knee Replacement	POLY IMPLANT EXTRACTOR CEMENT RONGEUR SHORT WIDE IN-CONDL CHISEL 8X10X7 3/4 IN FEM/TIB EXTRAC 11X7 3/4 IN CURETTE 8MM X 13 IN TAMP 10MM X 13 IN LIGHT SLOTTED HAMMER	1

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		THIN OSTEO 8MM X 7 3/4 IN THIN OSTEO 12.5 X 7 3/4 IN FLAT OSTEO 10MM X 7 3/4 IN FLAT OSTEO 20MM X 7 3/4 IN POINTED OSTEO 6MM X 7 3/4 IN SHORT V OSTEO 5MM X 7 3/4 IN SHORT V OSTEO 7MM X 7 3/4 IN FEM/TIB REAMER 10MM X 8 IN FEM/TIB REAMER 11MM X 8 IN FEM/TIB REAMER 12MM X 8 IN FEM/TIB REAMER 13MM X 8 IN FEM/TIB REAMER 14MM X 8 IN FEM/TIB REAMER 15MM X 8 IN FEM/TIB REAMER 16MM X 8 IN FEM/TIB REAMER 19MM X 8 IN STERILIZATION TRAY UPPER STERILIZATION TRAY MIDDLE STERILIZATION TRAY LOWER STERILIZATION CASE 7IN	
3	Interlock nailing set	DISTAL JIG FOR FEMUR CONNECTING ROD FOR DISTAL JIG DISTAL TARGET DEVICE FOR FEMUR HEX HEAD L& KEY SW 5 MAIN SLEEVE SHORT POINTER SHORT DRILL SLEEVE WITH HANDLE 5.2 MM DRILL BIT ALL SIZES WITH QUICK COUPLING POSTPONING ROD WITH T HANDLE COMPRESSION LOCKING BLOCK ALL SIZES MAIN SLEEVE LONG POINTER LONG DRILL SLEEVE WITH HANDLE 4 MM STOPPER FOR DRILL BIT DEPTH GAUGE SCREW DRIVR WITH T HANDLE SCREW DRIVER WITH QUICK COUPLING SW 3.5 CONTAINER FOR UNIVERSAL FEMUR NAIL CONTAINER FOR IMPLANTS HUMERUS NAIL SET INSERTION HANDLE GUIDE BAR DISTAL TARGET DEVICE DISTAL LOCKING BLOT U TYPE BLOCK CONNECTING BAR WRENCH POSITIONNING ROD CONNECTING SCRES PROXIMAL LOCKING BLOT T DRILL BIT WITH FLAT TIP 3.6MM REAMER WITH HARD SHAFT ALL SIZE SCREWDRIVE 3.5 MM DEPTH GAUGE SUDING HAMMER CONNECTING BOLT FOR DISTAL BOLT FOR TIBIA	2

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		DISTAL TARGET DEVICE FOR TIBIA CONNECTING BOLT FOR DISTAL TARGET DEVICE DRILL BIT 5.8 MM FOR QUICK COUPLING DRILL BIT 5.8MM WITH FLAT T-HANDLE T-HANDLE POSITIONING ROD ALL SIZES COMPRESSION LOCKING BLOCK DEPTH GAUGE SCREW DRIVER WITH T-HANLDE ALL SIZES SCREW DRIVER WITH QUICK COUPLING SCREW DRIVER ALL SIZES CONTAINER FOR UNIVERSAL CONTAINER FOR IMPLANTS PATELLA GUARD FEMER INTERLOCKING SET MEASURING RULER FOR FEMUR NAIL CANNULATED BONE AWL FOR FEMUR TISSUE PROTECTI NG PLATE FOR FEMUR CANNULATED PROXIMAL REAMER FOR FEMUR STOPPER FOR REAMER HEX HEAD L& KEY SW 3 T HANDLE WITH QUICK COUPLING GIUDE WIRE INTRODUCR WITH T-HANDLE CANNULATED FLEXIBLE SHAFT FOR FLEXIBLE REAMER(FEMUR) CANNULATED REAMER ALL SIZES GUIDE WIRE WITH BOLT TIP 2.5 MM WIRE PUSHER MAIN JIG FOR FEMUR NAIL CONICAL BOLT ADAPTER FOR FEMUR EXTRACTOR ROD HAMMER CONNECTING BOLT FOR EXTRACTOR ROD PROXIMAL JIG FOR FEMUR CONNECTING BOLT FOR PROXIMAL JIG DISTAL JIG FOR FEMUR CONNECTING ROD FOR DISTAL JIG DISTAL TARGET DEVICE FOR FEMUR HEX HEAD L& KEY SW 5 MAIN SLEEVE SHORT POINTER SHORT DRILL SLEEVE WITH HANDLE 5.2 MM DRILL BIT ALL SIZES WITH QUICK COUPLING POSTPONING ROD WITH T HANDLE COMPRESSION LOCKING BLOCK ALL SIZES MAIN SLEEVE LONG POINTER LONG DRILL SLEEVE WITH HANDLE 4 MM STOPPER FOR DRILL BIT DEPTH GAUGE SCREW DRIVR WITH T HANDLE SCREW DRIVER WITH QUICK COUPLING SW 3.5 CONTAINER FOR UNIVERSAL FEMUR NAIL CONTAINER FOR IMPLANTS	

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		<p>HUMERUS NAIL SET  INSERTION HANDLE  GUIDE BAR  DISTAL TARGET DEVICE  DISTAL LOCKING BLOT  U TYPE BLOCK  CONNECTING BAR  WRENCH  POSITIONNING ROD  CONNECTING SCRES  PROXIMAL LOCKING BLOT  T DRILL BIT WITH FLAT TIP 3.6MM  REAMER WITH HARD SHAFT ALL SIZE  SCREWDRIVE 3.5 MM  DEPTH GAUGE SUDING HAMMER  WRENCH ALL SIZE  AWL  SLEEVE ALL SIZE  DRILL SLEEVE ALL SIZE  TROCA  DHS /DCS SET  GUIDE WIRE ALL SIZE  COUPLING SCREW FOR INSERTING OF LAG SCREW  SHORT  GUIDE SHAFT FOR COUPLING SCREW  WRENCH FOR DHS/DCS LAG SCREW  COUPLING SCREW FOR REMOVAL OF LAG SCREW LONG  IMPACTOR FOR DHS /DCS PLATE  DHS TRIPLE FREAMER  DCS TRIPLE REAMER  DCS 95 FIXED ANGLED GUIDE  DHS 135 FIXED ANGELLED GUDE  BONE TAP FOR DHS/DCS LAG XCRES  T HANDLE WITH QUICK COUPLING  DHS/DCSDIRECT MEASURING DEVICE  DHS/DCS CENTERING SLEVE FOR TAP SHORT  DHS/DCS CENTERING SLEEVE FOR WRENCH LONG  T HANDLE QUICK COUPLING FOR DRILL BIT AND BONE  TAP  DOUBLE DRILL SLEEVE ALL SIZE  NEUTRAL AND LOAD DRILL SLEEVE ALL SIZE  DEPTH GAUGE  SELF SCREW HOLDING SLEEVE  QUICK COUPLING DRILL BIT ALL SIZE  BONE TAP FOR QUICK COUPLING ALL SIZE  SCREW HEAD EXTRACTOR  BROKEN SCREW REMOVAL  HEXAGON SCREW DRIVER SW3.5 WITH FIBER HANDLE  CONTRAINER FOR DYNAMIC HIP AND CONDYLAR  PLATE INSTRUMENT SET DHS/DCS  SLEEVE 5.0MM  CONTAINER FOR IMPLANTS  LOCKING DRILL SLEEVE ALL TYPE AND ALL SIZE  SCREW DRIVE FOR QUICK CUOPLING SW3.5 MM</p>	

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		TORQUE LIMITING HANDLE DRILL ALL SIZE CORTICAL THREATED TAP ALL SIZE	
4	Specific fixation sets (Prof Humerus, Distal humerus, Intertrochanter, Proximal and Distal tibia, Pelvic fixation, pedicle screw, lateral mass screw and ACDF for cervial spine 2	STANDARD	2
5	External Fixator	1. T handle (Different sizes) 2. Spanner (Different sizes) 3. Distracters (Different types) 4. Nebular 5. Wire Cutter 6. Metal cutting plier 7. Bolt cutter 10mm 8. Triple trochar 9. Allen Key (Different size)	10
6	Fracture reduction OT table	Type of Surgery Orthopedic Table Type Fully Electric Brand Meditech Height Adjustable Range (in mm) 750 mm to 1000 mm Trendelenburg (in Degrees) 30 Degree Max Patient Load (in Kgs) 200 kgs Back Rest UP : 80 degree / Down : 25 degree Table Length (in mm) 1930 mm Table Width (in mm) 533 mm Features Height Adjustable Application Operation Theatre Kidney Elevator 150 mm Head Rest Up Down UP : 20 degree / Down : 60 degree Leg Rest UP : 15 degree / Down : 90 degree Trendelenburg Reverse 25 Degree Power supply 24 VDC Battery Backup 3 hours Lateral tilt Left : 20 degree / Right : 20 degree Product Description This Fracture OT Table is a mobile, electrical operated surgical table designed with Hanging Orthopedic Attachment to support Orthopedic Procedure. The Meditech MI 102 Universal Surgical Table features powered Lateral Tilt, Trendelenburg/ Reverse Trendelenburg, Chair Position and Adjustable Height functions.  Features : Specialized for cardiology, orthopaedic, neurology, ERCP, laparoscopy and urology. Hanging Orthopedic Attachment is attached by the head side for orthopedic surgeries. The table column base is eccentric for easy C Arm movements. During the operation, the extension allows selective positioning of the leg according to the surgeon's directions, at the same time, a minimum strain on the patient. Interchangeable head and leg sections offer optimum patient positioning.	1



SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		Corded handset for simple, intuitive control (height, trendelenburg, lateral tilt, flex-reflex, chair). The table has been made from acid proof, antirusted stainless steel 304G (the face of the table is easy to clean and immune to disinfection agents).	
7	Simple OT table	STANDARD	2
8	Electronic cautery machine	Electro Surgical Unit (Cautery Machine) Advanced Performance Features. Monopolar Cut Modes Pure cut: Suitable for Micro and Minor procedure Blend - I: Preset blend 1 option for cutting with change in degree of homeostasis suited for gynae procedures Blend- II: Preset blend II mode allows for cutting and simultaneous coagulation COAGE MODES Soft Mode: For low voltage coagulation, suitable for laparoscopic and delicate tissue work. Spray: For non-contact large area coagulation with minimum depth of necrosis. BIPOLAR Coag: High current low voltage pulsed bipolar output for high - pressure vessel sealing with ligation sure artery forceps. Also suitable for bipolar needle ablation. WEIGHT & DIMENSION Width: 350mm Height:112mm Depth:350mm Net Weight: 6Kgs, 550gm Gross Weight: 9Kgs, 450gm Output Waveforms Soft: 330 KHz Pulse Pure:330KHz sinusoid Blend I: 330 KHz sinusoid      Blend II: 330 KHz sinusoid Monopolar Coag Soft:330KHz pulse Spray: 330 KHz pulse LOW FREQUENCY LEAKAGE (50-60Hz)	2
9	Pneumatic drill and reamer	STANDARD	1
10	Laminal Airflow system in OT	<ul style="list-style-type: none"> <li>• Average air flow velocity 90 (# 10) 6" below the filter</li> <li>• Sound level not exceeding 65 d BA 30" (76.20 cm) with avg. air of 90 FPM</li> <li>• Vibration level not more than 0.09 MILS</li> <li>• 3 Stage filtration pre-filter true HEPA, activated carbon &amp; LIONISER</li> <li>• Heap filter of 6" / 72 pleats with 99.9% efficiency in removal of particulate 0.3 micron and large , leak proof.</li> <li>• Filter media of micro glass fiber with poly-string separators internally sealed.</li> <li>• Face guard is epoxy coated</li> <li>• Direct driven fan motor with sealed double bearing</li> <li>• Dual speed with thermal over load protection</li> <li>• Capable of delivery 700 cfm (0.329m<sup>3</sup>/s) of air filter pressure</li> </ul>	1

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		<p>drop from 35 0.99" WG.</p> <ul style="list-style-type: none"> <li>• Prolonged washable pre-filters arresting 90% of particles 5 micron.</li> <li>• Centrifugal blower regulated by dampers / electronic speed control</li> <li>• Average work zone velocity 0.4 / 0.5m/sec</li> <li>• Active carbon filter</li> <li>• Double blower system</li> <li>• Special composite material housing to reduce noise, corrosion and vibration</li> <li>• Sealed gasket.</li> <li>• Stainless steel diffuser plate</li> <li>• Differential pressure manometer</li> <li>• Provision to take in 5% of fresh air</li> <li>• O.T is pressurized with clean fresh air thus outside air does not enter the OT</li> <li>• Return air is taken from the lowermost part of the OT thus providing complete coverage of OT, staff, trolley, table etc. It is independent of air cooling system which prevents moisture deposited on the HEPA filter (HEPA gets destroyed very fast because of moisture)</li> </ul>	
11	Plaster Equipment set, with plaster table 4Sets	<p>Plaster cutting saw  220 Volts/5 Amp. AC power supply  Unique feature depth control gauge  Useful for synthetic type of plasters as well as usual POP  CPM 15,000 approx  Completely enclosed  Completely maintenance free  One – Year guarantee  Agronomical Design</p>	2
12	Movie camera for demonstration of live operation	STANDARD	1
13	Plaster Table	STANDARD	2
14	Electric Plaster cutter	STANDARD	4
15	Reflex hammer	STANDARD	10
16	Measure tape	STANDARD	20
17	Goniometer	STANDARD	10
18	Digital torniquet	STANDARD	4
<b>PMR</b>			
1	Wax bath chamber	<p>Features  Construction: Double walled body, well insulated. Wax tank of 20 gauge Stainless steel sheet. Fitted with laminated wooden rim &amp; anodized Aluminum cover."  Wax Chamber: Size: 50cm x 35cm x 25cm.  Heaters: Two, 1kw each, special wax Heaters.  Heat Control: Thermostat to control temperture from 00 to 85 deg.Cen.  Indicator Lamps: Two, for Mains &amp; Thermostat."  Size: Overall Size of Wax Bath, 27" x 18" x 15".  Mounting: Mounted on 5cm dia. Four casters.  Power: 220-240 V AC. (Load, 2kw).  Finish: Externally Powder Coated finish.</p>	1

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		Accessories: 6 Kg. Physio Wax, Power Plug, One brush for wax application, One Mug, One spatula & aluminum sheet mesh for heaters.	
2	Interferential Current therapy	<p>i.4 Pole - Interferential therapy, .4 Pole - Multivector - IFT</p> <p>i.2 Pole - Premodulated - IFT</p> <ul style="list-style-type: none"> <li>· TENS MODE : 1-150Hz(Modulated)</li> <li>· Medium Frequencies : 2KHz &amp; 4KHz</li> <li>· Base AMF : 1 to 150Hz</li> <li>· Sweep Programme : 7 Programmes</li> <li>· Intensity Control : 0 - 100 MA continuously variable</li> <li>· Intensity Balance Control : to equalise 2 Channel Currents</li> <li>· Timer : (0-30) Minutes, adjustable upto 99 minutes and auto cutoff with beep sound</li> <li>· Patient Safety : Output is 100% Isolated</li> <li>· Safety Standards : IEC601-1</li> <li>· Patient Safety : While the instrument is on, if intensity is not at a minimum level, the Patient Safety circuit will not allow to set the time and hence no output.</li> </ul>	1
3	Microwave unit	Equipment for continuous and pulsed radartherapy(Microwave Diathermy)Available Models: 2500 CP: Continuous and pulsed Business Line with 50 programmes without smartcard Power upto (250W-1600 W).• LCD TFT 6 inch graphic display. • 64KB smartcard for making patient defined programmes(upto 50). • Built-in 50 treatment protocols. • Pulse function allows prolonged session without discomfort. • Types of antenna available : Circular, • Rectangular (Optional), Three Dimensional	1
4	Infrared	<p>IRR + UVR lamp standing model with mechanical timer, On/Off Switch</p> <ul style="list-style-type: none"> <li>• 0-15 Mech. Timer</li> <li>• Standing model</li> <li>• Castor wheel.</li> </ul>	2
5	Laser Therapy Unit	<p>Continuous &amp; pulse mode.</p> <ul style="list-style-type: none"> <li>• 15- user defined memory slots.</li> <li>• Fully variable pulsed frequencies.</li> </ul> <p>Price Description: Laser unit : 1,20,000 Single Diode 850 nm 100 mw applicator: 80,000 13 Diode cluster probe: 1,60,000</p>	1
6	Cryotherapy unit	<p>An integrated pneumatic pump within cooler lid provides automated compression and cold therapy</p> <p>Simplicity of design and ease of operation makes it ideal for post-operative recovery, trauma, athletic training rooms and home use</p> <p>Intermittent cold and compression is clinically proven to help reduce post-operative swelling and restore range of motion</p> <p>Cryo/Cuff IC provides both gravity and motorized. system for flexibility of care</p> <p>Design details such as a whisper quiet motor, an insulated cuff, and quick pad disconnect make the</p>	1

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		Cryo/Cuff IC flexible, durable, and mobile Cryo/Cuff IC Cooler Universal 51A10A Cryo/Cuff IC Cooler with Ankle Cryo/Cuff Universal 51A11A Cryo/Cuff IC Cooler with Knee Cryo/Cuff 18" - 23"* Medium 51A11B Cryo/Cuff IC Cooler with Knee Cryo/Cuff 20" - 31"* Large 51A12A Cryo/Cuff IC Cooler with Shoulder Cryo/Cuff 32" - 48" Universal 51A14A Cryo/Cuff IC Cooler with Back/Hip/Rib Cryo/Cuff Up to 45" waist Universal -	
7	Multigym	Bright polished Teakwood construction, suitable for Shoulder, Elbow, Chest and lower limb exercises. Unit Consists of the following attachments: a) Wall bars 240 cm high x 75 cm wide. b) Detachable wrist roller with side handles for supination and pronation exercises. c) Removable rowing machine cum sliding seat. d) Unit is fitted with 12 pulleys and Two sets of locking weights (10, one kilo plates in each set) that allows effective weight resistive exercises at different levels	1
8	Parallel bars	3.5' ht and 15ft length - Standard	1
9	Crutches, walkers wheel chairs and other ambulatory aids	Crutches Mode Aluminium alloy x 4 Walker x 4 Wheel Chair folded x 4 Rollators x 4 Tripod x 4 Quadripod x 4	1
10	Treadmill	Specification Drive motor DC motor / 1.5 HP Peak Running surface 420 x 1200 mm Running Belt 1.6 m/m Driver rollers front / Ø 46 mm ; rear Ø 41.5 mm Folding design manual Set up dimension 160 x 74 x 125 cm Folded dimension 80 x 74 x 147 cm Carton dimension 171.5 x 76.5 x 32.5 cm Weight N.W. 59.7 Kgs / G.W. 66.5 Kgs Console Features Multi - LCD Window (size 119 x 68 mm) distance, calories, speed, pulse, time, scan. Hand pulse heart rate sensors standard. Built - in programs, manual 12 programs (P1- P12) 6 quick keys for speed Speed range : 1-16 km/h Incline level : Power / 0-12 positions Backlit : Yes Speed / Incline toggle switch : Yes	1
11	Isokinetic system	Standard	1
12	Shoulder CPM	Therapy Modes: SIX, Mobilization Modes for Continuous, Intermittent and Progressive passive movements. Pause Time: Programmable Extension/Flexion Pauses from 00 to 99 seconds. Treatment Time: Programmable from 01 to 99 min. Inching Switch: Starting position can be set according to the need of patient. Memory/Programme: 80 Pre-set treatment	1

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		patterns are stored in memory. Open Programmes: 20 programmes are Free to store your own patterns. Displays.: Digital display of ROM settings Pause Time, Treatment Time and Graphic display of Mobilization Modes. ROM Setting: Programmable from 00 to 180deg. and -90 to +90 degrees for all Shoulder movements. Height Adjustment: Electrically, by Push buttons switches. Arm Settings: Right or Left arm can be set & exercised by little adjustments. Patient Safety: Patient can stop / Interrupt treatment with hand held switch. Power Supply: 200-240 V AC at 50-60 Hz	
13	Knee CPM	Therapy Modes: SIX, Mobilization Modes for Continuous, Intermittent and Progressive passive movements. ROM Setting: Programmable from 00 to 110 deg Pause Time: Programmable Extension/Flexion Pause	1
14	Hydrotherapy pool and equipment	Full body 'T' shape hydrotherapy tank for hydro-massage. The heavy gauge stainless steel tank, rests on 40cm (16") high tubular stand re-inforced with cross bars. Overall size of the tank is 190cm(75") x 185cm (73") x 93cm (37"). Width of the narrow portion of the tank is 91cm (36") and depth inside the tank is 48cm (19"). Comes with Two motorized electric turbine ejectors & aerators with turbine carriages and elevators, Digital Thermometer, adjustable Head-Rest, Body Stretcher and Sitting seat fitted with nylon cloth. Tank is fitted with Two water inlets, One overflow and one Drain fittings. Tank is finished bright inside & painted outside.	2
15	Exercise mats 3	All purpose lightweight mat of high density foam protects body during exercises. The floor mat size 120cm x 190cm x 10cm is covered with nylon cloth & sewn with superior strength nylon thread. Loops on sides are provided for hanging on wall. Excellent for aerobics and light exercises.	3
16	Biofeedback unit	EEG (alpha), EMG, Pulse, Temperature, Respiration, GSRECG & HRV (optional) Continuous graphical display of all parameters Simultaneous and Singular. Visual feedback through Digital Display and color bargraph Audio feedback through Head Phone or Speakers Facility to play Audio of your choice for relaxation Facility to play visual of your choice on the monitor screen for relaxation Storage of Patient data for review Plotting of graph depicting patient's progress for every parameter User definable event marker Facility for Video & Audio recording (optional)	1
17	Assessment kits (for neuron development)	Standard	2
18	Hand grip strength measurement kits	Hydraulic Hand Dynamometer is designed for both routine screening work and for evaluating trauma or diseased hands. High quality cast aluminum model has an adjustable handle that can be placed in FIVE grip positions, the range allows a comfortable fit for almost any hand. A sealed hydraulic system registers, force from 0 to 90 kgs. Set also consists of one therapeutic Pinch Gauge that measures finger tip pinch force. Excellent for training and evaluating the pinch ability of the upper extremity prosthesis user. Indicator pin remains at highest level of strength. Model; lamer, USA. Kit includes ONE each of:- Hydraulic Hand	4


SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		Dynamometer.Hydraulic Pinch Gauge. Finger Goniometer.Comes in a convenient storage / carrying case.	
19	Higher brain function assessment equipment	Standard	2
20	ADL evaluation kit 2	Specifications: Size of laminated unit is 26"x18"x5" deep. Features: Best quality Los cost Reliable	3
21	Hand splinting kit and instruments	Standard	1
22	Computers for cortical function evaluation / treatment	Standard	1
23	Vertical and Horizontal sanding	Wooden, wall mounting sanding unit: 20cm wide x 100cm long is fitted on an angular frame for angle adjustment and comes with six weight plates (1kg.) for resistance. Comes with One sanding block. Patient uses the unit for shoulder & arm exercises in standing position. Horizontal Sanding Table, Wooden Sanding Top is fitted on an tubular frame, having two cut-outs to accomodate two patients. One side is fitted with bar to attach elastic straps for resistive exercises. Comes complete with two sanding blocks and four elastic straps. Size: 46" x 30" x 30" high. Specifications: Size: 46"x30"x30" high Material: Wooden	1
24	Finger climbers 2	Ideal for progressive range of shoulder motion. Made of polished teak wood having 30 numbered steps. Complete with wall fixing hardware.	2
25	Fret Saw	STANDARD	1
26	Medicinal balls	Ball medicine, made out of fine leather, securely stitched with strong leather cord, for Arm and Leg exercises, comes in different sizes & weights i.e.: 1 kg., 2 Kg., 3 kg., 4 Kg., 5 kg.	4
27	Standing coordination activity board	Useful in early walking balance training. Wooden floor ladder with adjustable dividers, offers various walking patterns. Steps may be of equal size and alternately placed for right-left progression. SPECIFICATIONS: *Material: Beams & Dividers made of Teak-wood. *Size: 96" long x 27" wide. *Finish: Beams finished in natural wood. Adjustable 16 Divider-bars finished in different enamel colours.	1
28	Transfer board	Standard	2
29	Cerebal palsy chair	Teakwood and ply board constructed, naturally finished chair reclines through an arc and can be adjusted to any desired position. Comes with adjustable foam padded headrest which can be formed &	2

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		reformed as needed. High back supports & holds the child with wide belt. Laminated activity Tray size 21"x24" with polished wooden raised edges, holds the items from falling. Adjustable seat & footboard are 12" wide and suits the small children. Mounted on ball bearing castors.	
30	Tilt Table	Electrically operated Tilt Table with foam padded top, provided with three straps to hold the patient. Heavy duty motor provides silent and smooth lifting action with push button control switches. Range of tilt is calibrated from 0 - 90 degrees. The table top is 61cm wide x 195cm long x 80cm high, and is fitted on a heavy duty tubular steel frame with four locking wheels of 10 cm dia. for easy mobility. Table comes complete with an Utility Tray and gripping handle for ADL activity. Full 90 degree of tilt plus negative facility also Steel frame oven baked finish.	1
31	Hot air oven	Dimension of chamber H x W x D 2 x 3 x 3 910 mm Max. work Temperature: 300° C Normal : 50 - 300° C Type of Control : Automatic On/Off with digital Temperature control No. of Fan: Two Nos. HP of Fan Motor: Fractional Horse Power Door: Single (Hinged Type) / double Power supply: 220 V, single phase / three phase	1
32	Hot air gun	Rated power input 1,600 W Weight without cable 0.75 kg Length 255 mm Height Specifications, use Working temperature Airflow Infinitely variable temperature control Cold-air setting, 50°C 255 mm Control, airflow 300 - 500 °C 240 - 450 l/min true	2
33	Grinder	1/4 HP, 3000 RPM, Standard	1
34	Sander	<ul style="list-style-type: none"> <li>• Sanding Belt Size- 6" x 48"</li> <li>• Sanding Disc Dia.- 9"</li> <li>• Table of Sandling Disc- 6" x 11"</li> <li>• Tilting of Table (Degree)- 45°</li> <li>• Ele. Motor (1440 RPM.)- 1 H.P.</li> <li>• Standard Accessories- Motor Pulley, Back Table &amp; Sanding Disc.</li> </ul>	1
35	Router	Technical Data Space requirement (WxD) should not be more than 900 x 1500 mm Work height should not be less than 1000 mm Motor speed infinitely variable: 0-2900 RPM or more Sound level should be less than 70 db Router shaft length should be equal or more than 430 mm Tapered spindle Router motor: 230 V / 50 Hz / minimum 1KW	1
36	Power drill	Rated power input 600 W No-load speed 0 – 2.600 rpm Power output 360 W Weight 1,7 kg Rated speed 1.676 rpm Rated torque 20,0 Nm drilling range Drilling diameter in aluminium 10 mm Drilling diameter in wood 25 mm Drilling diameter in steel 10 mm	2

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
37	Band saw	Description MMT-110 Saw Motor 3 Hp Hydraulic Motor 1 Hp Coolant Pump 0.16 Hp Swarf Converyor 0.25 Hp Cutting Capacity 20 to 110 Blade Size 3505 x 0.9 mm Throat In MM 150 Height In MM 110 Cutting Speed 20 to 100 mtr/min in steps std.	1
38	Zig saw	Rated power input 580 WNo-load stroke rate 500 - 3100 spmWeight without cable 2.4 kgStroke height 26 mmCutting depth Cutting depth in wood 85 mmCutting depth in aluminium 20 mmCutting depth in non-alloyed steel 10 mm	1
39	Vacuum forming appartus	Direct drive rotary high vacuum pump double stage fitted with ¾ HP, 1440 RPM, single phase electric motor complete. Liquid cum moisture trapping unit compressing of two 1000 ML capacity glass bottle with vacuum gauge & regulator & vacuum gauge with regulator, vacuum rubber tube (size 10 mm) & vacuum rubber tube (size 18mm) & Vacuum Bench for thermoforming purposes with complete accessories for vacuum forming of Below Knee & Above Knee Prosthesis along with other P&O appliances. [ 1 No. of Table with Wooden Top (50mm thick) and Vacuum Connectors (3 Nos.) , Drape Tables (3 Nos. one each in size 8" 12" & 15" dia ) , Mandrel for making of soft inserts Table Size: 3'x2 ½'x 2' : LxHxW	1
40	Buffing and polishing machine	Specifications: Motor: 1 1/3 HP Max Rating Motor: 1 HP Long Term Duty Rating (Motor drops to 1 HP after 2- 3 hours of continual use) Speed: 3,450 RPM (single speed) Weight: 55 lbs., Amps: 10.7, Rotates buffing wheels 10" and smaller, Arbor: 3/4" Shank Length: 7 3/8" (from bearings to wheel), Shank Width: 1" Cast Iron Housing and Base measures: 27"L x 8"W x 11"H Includes instruction manual 30 day warranty CUL Listed Includes (2) 10" spiral sewn buffing wheels Optional Accessory Kit (2) 10" spiral sewn buffing wheels (2) 10" loose cotton buffing wheels 4 pc. polishing compound kit (Accessories shipped separately from buffing machine) Optional Adjustable Pedestal Height: Adjusts from 28" - 35 1/2" Table Dimensions: 10 1/4" x 11 1/8" Post Diameter: 2 3/4" Heavy Duty Cast Iron Base and Post Convenient Storage Tray and Buffing/ Grinding Wheels Holder Weight: 25 lbs. Universal hole pattern design works with all of our buffing machines and grinders	1
41	Work tables x 4	Table Top 34 mm thick with load capacity of 400 Kg. with peg board having electric connection of 5 amp and 15 amp. Plugs with full drawer with 10 numbers of tools posts to hang various tools and accessories. Overall Dimension of the table 1500x800x850 mm : WxDxH Under Table Cabinet 575x720x800 mm : WxDxH Control Locking Mechanism: Push Lock or Hinged Locking Bars	4



SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
42	Tools and Raw material as per requirement	<p>Bench Vice (equal quantities insize, Draw Knife Mould modification, Plaster Cast Scissors For plaster cast cutting, A.P. &amp; M.L. Caliper BK For measurement, A.P. &amp; M.L. Caliper AK For measurement, ,Deburring Knife To remove Debris, Surfoam File Half Round Stanley, Surfoam File Full Round Stanley Surfoam File Flat Stanley, Combination Pliers , e Pliers, Revolving Punch , Allen Key Set For Alignment purpose, Hacksaw Fram Chisel Punch Set (8",6",4"), Wooden Saw, Ball Peen Hammer (200 gms), Anvil (25 Kg) For hammering purposeIron Sheet Cutter 19", Jig Saw Machine, Laser Line with Tripod, Centre PunchElectric Heater (1000 KW), Electric Element 1000 KW, Apparatus Bending Brace – heavy dutyHand Bender, Cobbler Mousle, Stone (Sili), Leather Punch, File Handle - plasticHammer 500 gms , ball peen, Screw Driver Big 16", Screw Small 10", Electric TesterTailor’s Scissor, Measuring Tape Metal, Measuring Tape Cloth, Jig Saw BladeSpanner Set, Wire Mesh, Chorsi (Wooden Chisel–equal quantities in 2", 3", 4")Bolt Nut &amp; Washer 3/8 x 5", Metal Rod 3/8 x 24", Metal Rod 5/8 x 24", Metal Pipe 1" x 10, Funner - for cutting., Hacksaw Blade – 24 TPI, 12" 24, GhiyaGusa, Jamboor, Metal Frame for BK and AK Draping, Extension Board with 15 &amp; 5 amp sockets at least 2 each with extension cord 15 , meter long., Drill Bit (1/8", 5/32, 3/16", 7/32" – one packet of 10 pieces in each size &amp;10mm, 3/8"one each , (total 42 pieces) 1Set, Glass Pencil White Copying Pencil (Blue &amp; Red) , Marker Pen, Plastic Tub – 10/15 liter, Plastic MugPlastic Stool, Plastic Bucket , Dustbin – 80 liter, Oven Glove 4 Pair, Rivet CutterFile Half Round – 12", JK Smooth, File Round –12", JK Smooth, File Flat – 12", JK SmoothHigh Leverage Wire Cutter, Hammer 800 gm – Ball Peen, Postural Mirror HxW : 6’x2 ½”Bench Drill Machine Drilling Capacity 12mm, Complete with V -Belt, Pulley, Drill Chuck, with Crompton Greaves 1/2HP, single phase motor, with on - off switch with power cord. The machine should be complete in all respect and should be ready to use. , Tap Set – 3/16”Tap Set – 5/32” , Tap handle - 2 , Die – 3/8”, Die Handle, Rubber Bowl, SpatulaMandrel – Plastic, Mandrel – Wooden, Pylon Pana, Drill Bit for Green Axle Knee JointScrew Driver Machine, Anvil with Bar – 50 Kg., Pipe Vice, Plaster Cutting Machine Bosch - CE Marked, Torque Wrench with bits, Electric Cutter Machine De-vault–CE MarkedRasp File – 10”, Aluminium File – 12”, Triangular File – 6”, Needle File – 6”Screw Driver Set – Phillip Type, Gas Oven/ , RAW MATERIAL AND COMPONENTS:- 13k sewing machine for industrial purpose. Polypropylene sheet of 2,3,4 thickness, 15mm thickness - 5 each. Aluminium sheet 18 gauge, 2 sheet 3 x 8, Leather sheet for making shoe, Leather sole, Rubber sole, Light weight rubber sole, Othaflex, Polyster resin, accelerator, catalyst, pop powder, AFO, KAFOHKAFO Kit of size -1,11,111BK endoskeletoned kit, Foot of different sizes.Prosthetic and Orhotic component / KITS/ RAW MARERIAL AS PER THE NEED</p>	1
<b>PHYSCHITRAY</b>			
1	ECT Machine with EEG & ECG Monitoring	<p>- ECT machine should have inbuilt to channel thermal printer which monitors EEG &amp; ECG of the patients prior to &amp; during seizure. - Should have TFT display of all stimulus parameters &amp; deliver current of bi-directional square wave. - Should have Constant</p>	1

  
 Dean & Principal  
 M.K.C.G. Medical College  
 Bangalore

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		<p>current 800mA, Frequency 20-140Hz Adjustable,</p> <ul style="list-style-type: none"> <li>- Pulse width 0.1-2msec.adjustable, Stimulus duration of 0.1-5.9 sec. in step of 0.1sec..</li> <li>- Should have four different stimulus parameter feather touch switches to vary pulse width, frequency duration &amp; treatment.</li> <li>- Output should display in joules as well as in milli coulombs.</li> <li>- Should have microprocessor controlled &amp; audio visual signal for ECT</li> <li>- Should have minimum power 2.7joules for 220-ohm Patient Impedance</li> <li>- Should have maximum power 166 joules for 220 Ohm patient impedance</li> <li>- Should have auto &amp; Manual mode</li> <li>- Should have provision Energy display Energy in joules gets calculated Automatically</li> <li>- Should have facility to monitor auto impedance of patient during procedure displayed as pass/fail on TFT</li> <li>- Should have Inbuilt Cerebral Stimulation along with intensity 0 to 40 volts variable Beneficial in hysterical patients.</li> <li>- Should have charge at least 1400 mill coulombs - EEG Section should have sensitivity 20uv to 500 uv/cm in 5 steps. &amp; CMRR 80db.</li> <li>- ECG Section should have sensitivity 0.5,1, 2mv/cm &amp; CMRR 80 db.</li> <li>- Systems should be ISO , CE &amp; IEC certified</li> <li>- System should be supplied 2nos. of ECT Head band with Treat Switch, Rubber Strap Electrodes for CS, EEG electrodes one set, ECG electrodes one set, Earthing wire, Bite Block 10 nos., Instruction Manual, Recording Paper &amp; Conductive Gel.</li> </ul>	
2	ECT Machine (without Monitoring)	<ul style="list-style-type: none"> <li>-Should have TFT display of all stimulus parameters &amp; deliver current of bi-directional square wave.</li> <li>- Should have Constant current 800mA, Frequency 20-140Hz Adjustable,</li> <li>-Pulse width 0.1-2msec.adjustable, Stimulus duration of 0.1-5.9 sec. in step of 0.1sec..</li> <li>- Should have four different stimulus parameter feather touch switches to vary pulse width, frequency duration &amp; treatment.</li> <li>- Should have microprocessor controlled &amp; audio visual signal for ECT</li> <li>- Should have minimum power 2.7joules for 220-ohm Patient Impedance</li> <li>- Should have maximum power 166 joules for 220 Ohm patient impedance</li> <li>- Should have auto &amp; Manual mode</li> <li>- Should have provision Energy display Energy in joules gets calculated Automatically</li> <li>- Should have facility to monitor impedance of patient during procedure displayed as pass/fail on TFT</li> <li>- Should have Inbuilt Cerebral Stimulation along with intensity 0 to 40 volts variable Beneficial in hysterical patients.</li> <li>- Should have charge at least 1400 mill coulombs</li> <li>- Systems should be ISO , CE &amp; IEC certified</li> <li>- System should be supplied 2nos. of ECT Head band with Treat Switch, Rubber Strap Electrodes, and Strap electrodes for CS, Bite Block 10 nos., Instruction Manual, and Conductive Gel.</li> </ul>	2

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
3	Biofeedback tests	<p>Digital biofeedback should have following technical specifications :-</p> <ul style="list-style-type: none"> <li>- Useful in self control over emotional responses leading to relaxation.</li> <li>- Feedback should be provided on TFT screen with Green &amp; Red bar.</li> <li>- Should have baseline knob for EDA (gsr) balanced (starting) Value and also the changes in the GSR value in K- ohm is displayed on TFT screen .</li> <li>- Should have sweep speed &amp; Mode selection option - Audio feedback should be provided with Melodic variation</li> <li>- Should have five pin connector to attach electrodes for monitoring.</li> <li>- Power source 220 VAC,50/60 Hz</li> <li>- System should be supplied with a set of electrodes , Head phone &amp; conductive gel</li> <li>- System should be ISO &amp; CE certified</li> </ul>	1
4	Alcohol Breath Analyzer	<p>Should have Devices: Measurement mode : Active mode and Passive mode</p> <p>Active mode: Measurement range (BAC) (0-550) mg/100ml BAC</p> <p>Passive mode: Measurement range (BAC) (0-550) mg/100ml BAC</p> <p>Should have Alarm: Red, yellow, green alarm limit can be adjusted</p> <p>Should have following Accuracy: Range (0-88) mg/100ml <math>\pm 4.4</math> mg/100ml, Range (88-220) mg/100ml <math>\pm 5</math> % absolute Range &gt;220 mg/100ml <math>\pm 20</math> % absolute, Measurement rang (BrAC) (0-2.5) mg/L BrAC</p> <p>Should have Accuracy: Range (0.00-0.40) mg/L <math>\pm 0.020</math> mg/L, Range (0.40-1.00) mg/L <math>\pm 5</math> % absolute ,Range &gt;1.00 mg/L <math>\pm 10</math> % absolute</p> <p>Operating Condition : Operation temperature range: 0 °C - + 40 °C, Storage temperature range: - 30 °C - +70 °C Condition pressure: 600- 1400 hpa, Condition humidity: 15 - 95 % r.h. Min volume: 1.0 L</p> <p>Should have 7.4V, 2000mAh rechargeable Li-ion battery, Measurement time for one charge: More than 500 times testing</p>	1
5	Projective tests	<p><b>Rorschach Test:</b> The Rorschach inkblot test is a type of projective assessment in which subjects look at 10 ambiguous inkblot images and describe what they see in each one. The Rorschach test is used in <u>psychotherapy</u> and counselling. Practitioners use it to gain qualitative information about their patients, including their personalities, emotional functioning, and thinking patterns. It also helps in diagnosing mental conditions such as schizophrenia.</p> <p><b>Draw a Person Test:</b> This test is for children between 4 to 10 years of age. In this test children were requested to complete three individual drawings on separate pieces of paper. Children are asked to draw a man, a woman, and themselves. No further instructions are given and the child is free to make the drawing in whichever way he/she would like. There is no right or wrong type of drawing, although the child must make a drawing of a whole person each time – i.e. head to feet, not just the face. The test has no time limit; however, children rarely take longer than about 10 or 15 minutes to complete all three drawing</p>	2

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
6	Intelligence Test	<p><b>Wechsler Adult Intelligence Scale:</b> It is designed to measure <u>intelligence</u> and <u>cognitive ability</u> in adults and older adolescents. The current version of the WAIS was released in 2008 and includes ten core subtests as well as five supplemental subtests. The WAIS-IV assesses multiple types of intelligence through four primary indices such as Verbal Comprehension Index, Perceptual Reasoning Index, Working Memory Index, and Processing speed Index.</p> <p><b>Cattell Infant Intelligence Scale:</b> It is an intelligence scale for infants 3-30 months old. The goal of this test is to analyze brain development in young children as well as identify the ways in which birth conditions affect the central nervous system. It assesses motor control and verbalization. The entire test, assembled in a kit of 45 familiar household items, could be administered individually in 20-30 minutes.</p>	2
7	Personality Test	<p><b>MMPI (Minnesota Multiphasic Personality Inventory):</b> The latest version of it, MMPI-3, was released in 2020. The test contains 335 self-report items and takes 25 to 50 minutes to complete. It can be administered both individually and in groups. It has 10 scales such as Hypochondriasis, Depression, Hysteria, Psychopathic Deviate, Masculinity-Femininity, Paranoia, Psychasthenia, Schizophrenia, Hypomania, and Social Introversion.</p> <p><b>16 Personality factors Test:</b> The test is composed of 187 forced-choice questions in which the respondent must choose one of three different alternatives. Personality traits are then represented by a range and the individual's score falls somewhere on the continuum between highest and lowest extremes. It has 16 personality dimensions such as Abstractedness, Apprehension, Dominance, emotional stability, Liveliness, Openness to change, Perfectionism, Privatness, Reasoning, Rule-conscious, Self-reliance, Sensitivity, social boldness, Tension, Vigilance, and Warmth. It is generally used for personality assessment, career development, and industrial and organizational settings.</p>	2
8	Neuropsychological Test	<p><b>PGI- BBD:</b> It is administered to assess the cognitive functions of patients and controls. It has been developed in India by Dwarka Pershad and Santosh K Verma. This battery consists of five sub-tests — I. memory scale, II. Performance tests of intelligence, III. Verbal adult intelligence scale, IV. Nahor-Benson test, and V. Bender Gestalt Test. This measures the brain dysfunctions of various types of mental patients. It is very useful in clinical practice. Age group 20-59 years.</p> <p><b>Luria Nebraska Neuropsychological Battery:</b> It identifies neuropsychological deficiencies by measuring functioning on fourteen scales. It evaluates learning, experience, and cognitive skills and is for use with ages fifteen and over. There are 269 items that are scored from 0 to 2. On this continuum a score of 0 represents a normal non-damaged brain and a higher score near 2 depicts brain damage. These 269 items are divided among fourteen scales, which are motor, rhythm, tactile, visual, receptive speech, expressive speech, writing, reading, arithmetic, memory, intellectual processes, pathognomonic, left hemisphere, and right hemisphere. The time it takes to administer the task is about 2 to 3</p>	2

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		hours. <u>Halstead-Reitan Neuropsychological Test Battery (HRNB):</u> It is used to assess the condition and functioning of the brain in individuals aged 15 years and older. It has 10 tests such as category test, tactual performance test, Rhythm test, Finger-oscillation test, Speech sound perception, Trail making Test, Critical flicker Frequency, Aphasia screening test, Time sense Test, and Sensory Perceptual test.	
9	Infrared thermometer	As per specification for standard use in hospital.	6
10	Pulse Oximeter, Finger tip	As per specification for standard use in hospital	9
11	BP Machine	Semi automatic	9
12	Sthethoscope	As per specification for standard use in hospital	6
13	Suction machine	As per specification for standard use in hospital	1
	<b>ANAESTHESIOLOGY</b>		
(A)	<b>OPD Anesthesia Clinic</b>		
1	Patient examination table	Dimension -190 Xx90x 60 CM Material - Mild Steel, Capacity - 200KG Adjustable Two section Design with comfortable cushiones surface Head & Leg section Adjustment	2
2	Blood Pressure Instrument (Non-invasive)	Blood Pressure level classification indicator, No Complicated design, Button with the housing all in one, SYS/DIA pressure/pulse rate display separately, Average reading of last three measurements, 2x60 memory, time and date display Automatic power off function Measuring range:0 to 300 mm Hg Machine Size: 130-150x90-100x40-50 mm Wrist Size: 22 to 30 cm Accuracy within: ±3 mm Hg Weight: 200-300gm	3
3	Height Measurement Scale	i. Medical quality balance beam or electronic scale. ii. Weigh in 0.1 kg (100 gm) increments. iii. Can be calibrated. iv. Can easily be tared to zero. v. Stable weighing platform. vi. No height (stature) device attached to the scale. vii. Ability to 'lock in' weight is desirable on electronic scales. viii. It is desirable that the scale should weigh at least 5 kg to 105 kg.	3
(B)	<b>Operation Theatre</b>		
4	LMA / of all sizes	USFDA/CE approved latex free, reusable, autoclavable	10
5	PLMA OF ALL SIZES	USFDA/CE approved latex free, reuseable, autoclavable	10
6	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 choice of display units: mA or nC	1

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		ix Should have safety button immediately cuts off the electric 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 length 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	
7	a) Adult Manikin	i. State of the art integrated wireless technology ii. Robust & 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	2
(C)	Postoperative Recovery Room		0
8	Blood Pressure Monitor (digital/Electronic)	Blood Pressure level classification indicator, No Complicated design, Button with the housing all in one, SYS/DIA pressure/pulse rate display separately, Average reading of last three measurements, 2x60 memory, time and date display Automatic power off function Measuring range: 0 to 300 mm Hg Machine Size: 130-150x90-100x40-50 mm Wrist Size: 22 to 30 cm Accuracy within: ±3 mm Hg Weight: 200-300gm	10
	Pulse oximeter	Measuring range for SpO <sub>2</sub> : 70-100% SPO <sub>2</sub> measurement accuracy: 91-100%, ±1%; 70-89%, ±2%; ≤70%, unspecified Storage temperature: -20°C to 15°C Storage relative humidity: 10%-95%, No condensation Operation temperature: 5°C to 40°C Operation relative humidity: 35%-75%	10
9	E.C.G. Monitor	1. Should have compact & light weight 12 lead ECG with A4 size printout. 2. Should have High-resolution color display provides real time preview of 12-lead ECG and post-acquisition review of acquired ECG. 3. It should have ECG interpretation for adult & Pediatric. 4. It should have option for wireless acquisition. 5. Should have Alphanumeric elastomer keyboard features dedicated "one touch" buttons for ECG acquisition, rhythm printing, and ECG transmission/order retrieval. 6. Should have benefits of bidirectional communication via USB, USB memory stick, internal modem, LAN, or wireless LAN, 7. Should have internal ECG storage up to 100 ECGs; optional expanded up to 200 ECGs. 8. It should have Digital Sampling Rate more than 20,000	10

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		s/sec/channel used for pacemaker spike detection; 1000 s/sec/channel used for recording and analysis. 9. Should have operates on AC as well as rechargeable battery with internal battery charger. Fully charged battery operates for 14 hours/ 150 ECGs printout. Auto shut off when not in use. 10. Should have user selectable multiple printout format 3+1, 3+3, 6 channel and 12 channel with user selectable rhythm leads. Should have CE & USFDA approved.	
10	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
11	Airway crash cart	1. Overall size shall be more than 900mm L x 500mm W x 1500mm H. 2. The crash cart should be made of 25.4mmx18G Stainless steel tubular frame work. 3. Shall have Epoxy / Anti-Microbial powder paint inside and out 4. Should have dual push handles on either side 5. Should have S.S. shelves, six colored removable bins & two polystyrene lockable storage units with three drawers each. 6. Facility to carry ECG Monitors, Defibrillators etc on open areas at top centre and bottom shelves. 7. Should have Stainless steel saline rod fixed with. 8. Two accessory mounting brackets to mount accessories anywhere without the need of prethreaded holes. 9. Crash cart should be mounted on 12.5 cms dia non-rusting swiveling castor wheels. Two having locking arrangement. 10. Oxygen cylinder stand epoxy powder coated, on one side	1
12	ABG machine (Optional)	Critical care blood gas analyzer Analytes Unit of Operation: pH pH 6.001–8.000 pCO2 mmHg 5.0–250.0 pO2 mmHg 0.0–749.0 Na+ mmol/L 80–200 K+ mmol/L 0.50–9.99 Ca++ mmol/L 0.20–5.00 Cl- mmol/L 40–160 Hct % 12–75 Calculated Reporting Parameters Unit Range O2 SAT % 0.0–100.0 O2 CT mL/dL 0.0–40.0 HCO3 - act mmol/L 0.0–60.0 HCO3 - std mmol/L 0.0–60.0 ctCO2 mmol/L 0.0–60.0 BEb mmol/L -29.9–29.9 BEecf mmol/L -29.9–29.9 pO2(A-a) mmHg 0.0–749.0 pO2(a/A) mmHg 0.00–1.00 pO2/FIO2 mmHg 0.00–5.00 Ca++ (7.4) mmol/L 0.20–5.00 Anion gap mmol/L -60.0–60.0 pH(T) pH 6.001–8.000 H+(T) nmol/L 10.0–997.0 pCO2(T) mmHg 5.0–250.0 pO2(T) mmHg 0.0–749.0 pO2(A-a)(T) mmHg 0.0–749.0 pO2(a/A)(T) mmHg 0.00–1.00 ctHb (est) g/dL 2.0–25.0 Sample Volume Syringe: 95 µL Capillary: 95 µL Microsample: 50 µL Sample Type Whole blood Dialysate fluid Analysis Time Approximately 60 seconds to result Calibration Automatic or on demand Input Parameters Temperature 10.0°C–43.9°C Hemoglobin 2.0–25.0 g/dL FIO2 15.0%–100.0% Patient/Operator IDs Up to 16 characters	1

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		(alphanumeric) Sample Location Radial, brachial, femoral, cord, arterial line (with RAPIDComm Data Management System) Display Interface Intuitive, icon-based color touch screen Onboard Computer Storage Capacity/ Up to 250 patient test records Memory Up to 90 results for each level of QC Data Export Via integrated USB port/flash drive to PC, or direct to LIS/HIS or RAPIDComm Data Management System Connectivity Options/Peripheral Interfaces Serial RS232, LIS1, LIS2, LIS3 protocol Bi-Directional Can be set up for monitoring/control and connectivity with the RAPIDComm Data Management System USB Port Standard USB 2.0 Bar-code Reader Standard USB 2.0 General Dimensions (without 38.2 (h) x 38.5 (w) x 35.3 (d) cm bar-code scanner) 15.0 (h) x 15.2 (w) x 13.9 (d) inches Weight 9.4 kg (20.7 lb) Power Voltage: 100V (85–110V) Requirements 120V (102–132V) 220V (187–242V) 240V (204–264V) Power: 80 VA Frequency: 50/60 Hz Environmental Temperature: 15°C to 32°C Humidity: 5%–85%, non-condensing Barometric pressure: 400–825 mmHg Approvals UL, CSA, IEC, EN-61010, CE Marked with full CB Scheme and all National Deviations. Complies with the IVD directive	
13	TOF monitor (PNS) (Optional)	3D accelerometry technology No Calibration must be required ATP automatic mode(TOF/PTC) plus other common simulation modes(single switch,titanic simulation and double burst) Adjustable simulation current(20-60mA) Simple to use with ergonomic design Run on long lasting ,rechargeable Lithium-ion battery or AC power supply Automatic switch-off to preserve battery power Audio message with silent mode Uses common electrodes	1
(D)	<b>Pain Clinic</b>		
14	Patients controlled analgesia system (portable)	Stable & Accurate flow rate Precise drug liquid filter Ambulatory & Portable design Disposable No continuous (basal) flow rate,only patient –controlled drug-adding function with bolus button option DEHP-free & Latex free No Battery or Power supply requirement	3
15	Styleted Epidural catheter	FDA approved Wire-Reinforced Styleted Body Soft spring-wire tip	15
16	Nerve locator	Separate output for nerve stimulator-mapper & locator for safety Automatic switchover from mains power adapter to rechargeable battery with low battery warning indicator Feather touch keypad for easy operation,simple setting and extended reliability Variable current range as per the selected mode User programmable pulse width & frequency	1



SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
		ALPHANUMERIC LCD display with back light Automatic shutdown for power saving Audio & Back light on-off option Small , light weight and user friendly Compact size : <= 100mm* 180mm* 40mm Weight<450gm without battery	
17	Computer	Processor: Intel core i7-13620H,10c(6p+4E)/16T, P-core upto 4.9 Hz, E-core upto 3.6 Ghz,24 MB OS: Pre-loaded Windows 11 Home with lifetime validity Pre-installed : MS office home and student 2021 Memory & Storage : 32 Gb DDrs-5200 RAM, Expandable upto 32 GB Storage: 1 TB SSD    Graphics: Integrated Intel UHD Graphics Display : 27" QHD (2560*1440) Brightness: 350Nits  99% sRGB  IPS display   Anti Glare Hard disk interface: PCIE * 2	1
18	Transcutaneous Electric Nerve Stimulating Machine (optional)	Sleek and compact with wireless design and user friendly smart LCD display Programmable and user friendly Rechargeable and reusable Wireless and portable	3
19	Crash cart	1. Overall size shall be more than 900mm L x 500mm W x 1500mm H. 2. The crash cart should be made of 25.4mmx18G Stainless steel tubular frame work. 3. Shall have Epoxy / Anti-Microbial powder paint inside and out 4. Should have dual push handles on either side 5. Should have S.S. shelves, six colored removable bins & two polystyrene lockable storage units with three drawers each. 6. Facility to carry ECG Monitors, Defibrillators etc on open areas at top centre and bottom shelves. 7. Should have Stainless steel saline rod fixed with. 8. Two accessory mounting brackets to mount accessories anywhere without the need of prethreaded holes. 9. Crash cart should be mounted on 12.5 cms dia non-rusting swiveling castor wheels. Two having locking arrangement. 10. Oxygen cylinder stand epoxy powder coated, on one side	1
20	Monitors for vital signs (NIBP, P.R, ECG, SPO2, Temperature, R.R)	7" Colour TFT LCD screen with LED backlight Monitors and records ECG,SPO2,NIBP,PR, Temperature Detects and indicates occurrence of arrhythmia Memory Storage: 24 hrs of graphical and tabular NiBP trend with alarm condition Audible tone & Separate visual alarm to alert variations in ECG,SPO2 and NIBP Zoom option in graphical trend User Selectable colour theme Built in rechargeable NiHM battery	3

SL. NO.	NAME OF THE ITEMS	SPECIFICATION	Quantity
21	Nerve stimulator	Sleek and compact with wireless design and user friendly smart LCD display Programmable and user friendly Rechargeable and reusable Wireless and portable	2