ATC for GeM Portal Tender bidding
Tender for GMC Ambikapur

CHHATTISGARH MEDICAL SERVICES CORPORATION LTD.
(A Government of Chhattisgarh Undertaking)
C.G. Housing Board, Commercial Complex,
4th Floor Southeast Corner,
Sector – 27, Nava Raipur 492015
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FINANCIAL YEAR 2026-27

Bid Specific ATC (Additional Terms and Condition)

1. **Eligibility Criteria: -**Any bidder, including OEMs, importers, authorized dealers/distributors, resellers, or agents of the OEM, is eligible to participate in the tender. However,
   - **a)** The selected bidder must be registered under **GST in the state of Chhattisgarh** prior to the issuance of the purchase order or award of the contract.
     Note: - In case the bidder is not registered under GST in Chhattisgarh at the time of bidding, Bidder must mandatorily submit an undertaking confirming that GST registration in Chhattisgarh will be obtained within 15 days of the award of the contract to the selected bidder. In case of non-compliance with the above conditions, appropriate penal action including imposition of penalties, blacklisting, and/or any other action as deemed fit by the Tender Inviting Authority (TIA) may be taken.

   - ***b)*** **Qualification Criteria: -** In case the manufacturer does not quote directly, they may authorize their authorized agent as per proforma of "**Manufacturer Authorization Form**" as given in the bidding document to quote and enter a tender.
   - **c)** **Experience Criteria:** For experience criteria, the Bidder or its OEM of the product offered in the bid {themselves or through reseller(s)} should have regularly, manufactured and supplied Same/ similar equipment in PSU/Autonomous institute/ State Government/ Central Government/ Private Hospital and Institutes anywhere in India for number of Financial years as indicated in the bid document before the bid opening date. Copies of relevant contracts need to be submitted along with bid in support of having supplied some quantity during each of the financial year.
     Note: MSEs and start-ups registered manufacturer in the State of Chhattisgarh for the quoted product shall be exempted from the requirement of demonstrating experience for participation. To claim exemption, relevant valid documents, in support of MSEs and start-ups are required to be uploaded by the bidder(s). Without relevant documents, bid may be rejected.
   - d) **Past Performance: -**The Bidder or its OEM (whether themselves or through reseller(s)) must have supplied the same or similar category products amounting to 40% of the bid quantity in the last three financial years before the bid opening date, to any of the following:

     - Central / State Government Organizations
     - PSUs
     - Reputed Private Hospitals / Institutions

     The bidder must **submit copies of relevant contracts** as proof of cumulative supply quantity within the last three financial years (up to the bid opening date).
     Past performance will be evaluated for the Primary category item as mentioned in GeM Bid document

     Note 1: -In support of Past **Performance**, the Tenderer shall furnish **Performance statement in the enclosed Annexure 18 Proforma 'A'**. The manufacturer as well

as the Tenderer/ Indian Agent shall furnish Satisfactory Performance Certificate / Installation Report/ Invoice in respect of above, duly translated in English and duly notarized along with the tender. In case of GeM contract, Consignee Receipt & Acceptance Certificate (CR&AC) will also be considered as performance certificate.

Note 2: - If the commissioning for a submitted Purchase Order is still pending on the buyer's side, an undertaking on the buyer's letterhead, signed by an authorized person, will be accepted**.**

e) Non-Blacklisting Declaration Form should be submitted as prescribed format given in Tender Document.

f) **Financial Criteria**:- The minimum average annual financial turnover of the bidder during the last 03 years, ending on 31st March of the previous financial year, for manufacturers /OEM- **100%** and/or for Authorized Dealer /Authorised Distributor/ Authorized Reseller/Authorized Agent/Importer- **50 %** of the Tender estimated value as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant.

If the bidder's date of incorporation or constitution is less than (03), the average turnover shall be calculated based on the completed financial years following the date of incorporation, and this will be considered for meeting the criterion.

Note: MSEs and start-ups registered manufacturer in the State of Chhattisgarh for the quoted product shall be exempted from the requirement of average annual turnover criteria for participation.

2. Terms and Conditions:

1. Tender participation condition: -

a. Single bids are allowed for single items.

i. A bidder can submit a bid for only one OEM in the same tender for the same item/product. Neither the OEM nor its authorized representative can bid simultaneously for the same item/product.

ii. If a manufacturer authorizes a dealer/distributor/importer to quote a model, it cannot authorize another party or bid itself for the same item/product in the same tender.

b. In case of bidder is Importer/authorized Reseller/ Dealer/ distributor/ Agent must provide Manufacturing authorization form as per prescribed format of the tender (Annexure-3).

Note: Submission of Manufacturer's Authorization (if quoted by bidder other than manufacturer) as per Annexure III is mandatory within 07 days of generation of Purchase Order (PO). In case of non-compliance with the above conditions, appropriate penal action including imposition of penalties,

blacklisting, and/or any other action as deemed fit by the Tender Inviting Authority (TIA) may be taken.

c. The Department reserves the right to cancel/reject any/ all bids without assigning any reason thereof.

d. IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted. If the product manufactured by a country which shares **land border with India** must have a valid license from the CDSCO and DPIIT clearance. (Annexure-8 enclosed).

e. Warranty will be started after installation of specific items.

f. Delay in Supply and Installation:-

(i) **For Supply-** If the goods are not supplied within the period stipulated in the agreement, an extension of the delivery timeframe may be granted only once by the competent authority of the purchaser department, subject to a penalty of two percent (2%) per month of delay. In case of Non Compliance of above than the penalty and/or blacklisting and/or any other action deemed appropriate at the sole discretion of TIA may be taken.

Note: Extension timeline extension may be sole discretion of TIA.

(ii) **For Installation** - If the supplier fails to install any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the TIA/Ordering Authority/ Consignee shall, without prejudice to other rights and remedies available to the TIA/Ordering Authority/Consignee under the contract, deduct from the contract price, as liquidated damages, **a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 10% of the contract price.** In case of Non Compliance of above than the penalty and/or blacklisting and/or any other action deemed appropriate at the sole discretion of TIA may be taken.

g. It should have service support facilities in C.G. with qualified and trained engineers / technicians. Service support facilities include spare parts, testing, calibration equipment, etc. for providing installation, after-sales support during warranty/ CMC period. The bidder must provide the Dedicate Telephone number for the service contact. In case of Manufacturer the dedicated toll-free number may be provided for the service contact.

h. Documentary evidence mentioned in checklist to is provided in notarized form (as per prescribed/applicable in given format), else the bid will not be considered.

i. The Authorized Distributor should submit tender specific Original Equipment.

j. Bidder must submit the Brochure/Leaflet/Literature/Manual (whichever is applicable) of the quoted item.

k. **If it is found that the bidders have submitted their bids using the same IP address, then all the bids with same IP address shall be rejected outrightly and will not be taken up for evaluation.**

l. **Quality Certification criteria: -** Copies of quality certificates, if applicable, namely, BIS, ISO, FDA, CE, etc.

Note: - **Applicable Quality certificates should be defined for each equipment within the specifications, as the nature of use and classification of equipment vary.**

- USFDA or European CE (Notified body) or Declaration of conformity or CE or BIS
- CDSCO license (as applicable)
- ISO 13485 for quoted product.
- ISO 9001 for organization (Bidder/ manufacturer)
- IEC test report
- Any other certificate whichever is applicable.

2. Bid Validity

180 days. In exceptional cases, the bidder may be requested by the purchaser to extend the validity of their bids up to a specified period. Such request(s) and responses thereto shall be conveyed through GeM Portal. The bidders, who agree to extend the bid validity, are to extend the same without any change or modification of their original bid. A bidder, who may not agree to extend its bid validity after the expiry of the original validity period, will not be considered further.

a. Purchaser's Right to accept any bid and to reject any or all bids.

The purchaser reserves the right to accept in part or in full any bid or reject any or more bid(s) without assigning any reason or to cancel the bid process and reject all bids at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder(s)

b. Patent Rights:

The supplier shall, always, indemnify and keep the purchaser indemnified free of cost, against all claims which may arise in respect of goods & services to be provided by the supplier under the contract for infringement of any intellectual property rights or any other right protected by patent, registration of designs or trademarks. In the event of any such claim in respect of alleged breach of patent, registered designs, trademarks etc. being made against the purchaser, the purchaser shall notify the supplier of the same, and the supplier shall, at his own expense, take care of the same for settlement without any liability to the purchaser.

3. Packing and Marking

a. The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation, the entire journey during transit

including transshipment (if any), rough handling, open storage etc. without any damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration the remoteness of the destination of the goods and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract.

b. The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as provided in Technical Specifications. In case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the supplier accordingly.

4. Packing instructions:

Unless otherwise mentioned in the Technical Specification, the supplier shall make separate packages for each consignee (in case there is more than one consignee mentioned in the contract) and mark each package on three sides with the following with indelible paint of proper quality:

a. Contract number and date

b. Brief description of goods including quantity

c. Packing list reference number

d. Country of origin of goods

e. Consignee's name and full address and

f. Supplier's name and address

5. Inspection, Testing and Quality Control:

a) The purchaser and/or its nominated representative(s) will, without any extra cost to the purchaser, inspect and/or test the ordered goods and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. In case the goods are rejected in the first instance and the supplier requests for re- inspection, and if same is accepted by Purchaser/Consignee, all subsequent inspections shall be at the cost of the supplier. The expense will be to and from Economy Airfare, Local Conveyance, Boarding and Lodging of the inspection team for the inspection period."

b) The Technical Specification incorporated in the contract shall specify what inspections and tests are to be carried out and, also, where and how they are to be conducted. If such inspections and tests are conducted on the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to the purchaser's inspector at no charge to the purchaser.

c) If during such inspections and tests the contracted goods fail to conform to the required specifications and standards, the purchaser's inspector may reject them and the supplier shall either replace the rejected goods or make all alterations

necessary to meet the specifications and standards, as required, free of cost to the purchaser and re-submit the same to the purchaser's inspector for conducting the inspections and tests again.

d) In case the contract stipulates pre-dispatch inspection of the ordered goods at supplier's premises, the supplier shall put up the goods for such inspection to the purchaser's inspector well ahead of the contractual delivery period, so that the purchaser's inspector is able to complete the inspection within the contractual delivery period.

e) If the supplier tenders the goods to the purchaser's inspector for inspection at the last moment without providing reasonable time to the inspector for completing the inspection within the contractual delivery period, the inspector may carry out the inspection and complete the formality beyond the contractual delivery period at the risk and expense of the supplier. The fact that the goods have been inspected after the contractual delivery period will not have the effect of keeping the contract alive and this will be without any prejudice to the legal rights and remedies available to the purchaser under the terms & conditions of the contract.

f) The purchaser's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-dispatch inspection mentioned above.

g) "On rejection, the supplier shall remove such stores within 14 days of the date of intimation of such rejection from the consignee's premises. If such goods are not removed by the supplier within the period mentioned above, the purchaser/consignee may remove the rejected stores and either return the same to the supplier at his risk and cost by such mode of transport as purchaser/consignee may decide or dispose of such goods at the suppliers risk to recover any expense incurred in connection with such disposals and also the cost of the rejected stores if already paid for."

h) Goods accepted by the purchaser/consignee and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute purchaser's/consignee's right to reject the same later, if found deficient in terms of the warranty clause of the contract.

6. Purchase Preference to MSEs and Start-ups:

a) Upon agreement to match the minimum accepted tender rate (L-1) and subject to quality justification, the purchaser shall give priority for purchase orders to an eligible start-up registered in the State of Chhattisgarh, up to one percent (1%) of the total purchase amount, subject to a maximum limit of ₹10,00,000 per year, and within a period of three (3) years from the date of production.

b) If, in any purchase process, the minimum accepted tender rate (L-1) is quoted by an entity other than a Micro or Small Enterprise registered in the State of Chhattisgarh, and the rate quoted by a Micro or Small Enterprise registered in the State of Chhattisgarh is within fifteen percent (15%) of the L-1 amount, then such Micro or

Small Enterprises that agree to match the L-1 rate and meet the required quality and technical standards shall be eligible for purchase orders up to twenty-five percent (25%) of the total purchase value.

7. Insurance

a) The supplier shall be responsible till the entire stores contracted for arrival in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured for an amount equal to 110% of the value of the goods from warehouse to warehouse (consignee site) on all risk bases. The insurance cover shall be obtained by the Supplier and should be valid till 3 months after the receipt of goods by the Consignee.

b) If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will have to be extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the consignee. In case the delay in the installation and commissioning is due to handing over the site to the supplier by the consignee/End User, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actuals will be reimbursed.

8. Spare parts

a) If specified in the List of Requirements and in the resultant contract, the supplier shall supply/provide any or all of the following materials, information etc. pertaining to spare parts manufactured and/or supplied by the supplier:

b) The spare parts as selected by the Purchaser/End User to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and

c) In case the production of the spare parts is discontinued:
   1. Sufficient advance notice **(At least 06 months before)** to the Purchaser/End User before such discontinuation to provide adequate time for the purchaser to purchase the required spare parts etc.,
   2. Immediately following such discontinuation, providing the Purchaser/End User, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser/End User
   3. Suppliers shall carry sufficient inventories to assure ex-stock supply of consumables and spares for the goods so that the same are used during warranty and CAMC period.

9. Incidental Services

The supplier shall be required to perform the following services:

a) Installation & Commissioning, Supervision, Demonstration, Trial run etc. of the goods.

b) Turnkey work (if any).

c) Training of Consignee's/End Users Doctors, Staff, operators etc. for operating and maintaining the goods.
d) Supplying required number of operation & maintenance manual for the goods.

10. Distribution of Dispatch Documents for Clearance/Receipt of Goods

The supplier shall send all the relevant dispatch documents well in time to enable the purchaser to clear or receive (as the case may be) the goods in terms of the contract.

11. Assignment

The Supplier shall not assign, either in whole or in part, its contractual duties, responsibilities and obligations to fulfil the contract, except with the Purchaser's prior written permission.

12. Modification of Contract

a) If necessary, the purchaser may, by making a written order given to the supplier at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following:
   a) Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specially manufactured for the purchaser,
   b) Mode of packing,
   c) Incidental services to be provided by the supplier
   d) Mode of dispatch,
   e) Place of delivery, and
   f) Any other area(s) of the contract, as felt necessary by the purchaser depending on the merits of the case.

b) In the event of any such modification/alteration causing increase or decrease in the cost of goods and services to be supplied and provided, or in the time required by the supplier to perform any obligation under the contract, an equitable adjustment shall be made in the contract price and/or contract delivery schedule, as the case may be, and the contract amended accordingly. If the supplier doesn't agree to the adjustment made by the Purchaser, the supplier shall convey its views to the Purchaser within seven days of the date of the supplier's receipt of the Purchaser's amendment / modification of the contract.

13. Taxes and Duties

Supplier shall be entirely responsible for GST incurred until delivery of the contracted goods to the purchaser.

14. Payment Terms

a) Payment shall be made against submission of "Installation and Acceptance Certificate" of goods to be issued by the End User subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise. "Installation and Acceptance Certificate" need to be issued by the concerned End User after installation, commissioning, testing and successful trail run (if applicable).

b) The payment for turnkey/ Civil/Electrical/Air-Conditioning Works shall also be made on submission of the "Installation and Acceptance Certificate" by the End User.

c) The **payment of 80%** of the contract value on payable on **installation and commissioning** of goods. The **remaining 20%** shall be payable after **02 months/performance of installation and commissionin**g of goods the goods in accordance with the contract conditions.

d) The consignee will enter CAMC with the supplier at the rates stipulated in the contract.

e) The supplier shall not claim any interest in payments under the contract.

f) Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other tax as applicable will be made from the bills payable to the Supplier at rates as notified from time to time.

g) The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date.

h) While claiming payment, the supplier is also to certify in the bill that the payment being made is strict in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.

i) While claiming reimbursement of duties, taxes etc. (like GST, Custom Duty etc.) from the Purchaser, as and if permitted under the contract, the supplier shall also certify that, in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, the supplier shall refund to the Purchaser forthwith.

15. Delivery

a) The supplier shall deliver the goods and perform the services under the contract within the time schedule specified by the Purchaser in the contract. The time for and the date of delivery of the goods stipulated in the schedule shall be deemed to be of the essence of the contract and the delivery must be completed not later than the date (s) as specified in the contract.

b) Any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions:
   1. Imposition of liquidated damages,
   2. Forfeiture of its Performance Security and
   3. Termination of the Contract for default.

c) If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the Purchaser in writing about the same and its likely duration and make a request to the Purchaser for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages

for completion of supplier's contractual obligations by issuing an amendment to the contract.

d) When the period of delivery is extended due to unexcused delay by the supplier, the amendment letter extending the delivery period shall, inter alia, contain the following conditions:

1. The Purchaser shall recover from the supplier Liquidated Damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract.
2. That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of GST levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.
3. But nevertheless, the Purchaser shall be entitled to the benefit of any decrease in price on account of reduction in or remission of Custom Duty and GST which takes place after the expiry of the date of delivery stipulated in the contract.
4. The supplier shall not dispatch the goods after the delivery period. The supplier is required to apply to the Purchaser for extension of delivery period and obtain the same before dispatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk and no claim for payment for such supply and / or any other expense related to such supply shall lie against the purchaser.

16. Liquidated Damages

a) **For Supply-** If the goods are not supplied within the period stipulated in the agreement, an extension of the delivery timeframe may be granted only once by the competent authority of the purchaser department, subject to a penalty of two percent (2%) per month of delay. In case of Non Compliance of above than the penalty and/or blacklisting and/or any other action deemed appropriate at the sole discretion of TIA may be taken.

Note: Extension timeline extension may be sole discretion of TIA.

b) **For Installation** - If the supplier fails to install any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the TIA/Ordering Authority/ Consignee shall, without prejudice to other rights and remedies available to the TIA/Ordering Authority/Consignee under the contract, deduct from the contract price, as liquidated damages, **a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 10% of the contract price.** In case of Non Compliance of above than the penalty and/or blacklisting and/or any other action deemed appropriate at the sole discretion of TIA may be taken.

c) During the above above-mentioned delayed period of supply and/or performance, the conditions incorporated under clause 16 above shall also apply.

17. Termination for Default

a) The Purchaser without prejudice to any other contractual rights and remedies available to it the Purchaser, may, by written notice of default sent to the supplier, terminate the contract in whole or in part, if the supplier fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Purchaser.

b) The Performance Security in such cases will be forfeited.

c) Unless otherwise instructed by the Purchaser, the supplier shall continue to fulfil the contract to the extent not terminated.

18. Termination for Insolvency

If the supplier becomes bankrupt or otherwise insolvent, the purchaser reserves the right to terminate the contract at any time, by serving written notice to the supplier without any compensation, whatsoever, to the supplier, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the Purchaser.

19. Resolution of Disputes

a) If dispute or difference of any kind arises between the Purchaser/Consignee and the supplier in connection with or relate to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.

b) If the parties fail to resolve their dispute or difference by such mutual consultation within twenty- one days of its occurrence, then, unless otherwise provided in the SCC, either the Purchaser/Consignee or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India.

c) In the case of a dispute or difference arising between the Purchaser and a domestic Supplier relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the sole arbitration to be appointed by the Director, CGMSC.

d) In case of a dispute or difference arising between CGMSC Ltd., and a supplier relating to any matter arising out of or connected with this agreement, such dispute or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. The venue of arbitration shall be Raipur.

e) **APPEAL:** Any tender aggrieved by the order passed tender accepting authority may appeal to Principal Secretary/Secretary Health, Govt. of Chhattisgarh within 30 days of receipt of order and Principal Secretary/Secretary Health shall dispose the appeal as early as possible. No appeal shall be preferred while the tender is in process and until tender is finalized and Notification of Award is issued by CGMSC Ltd.

20. Jurisdiction:

a) In the event of any dispute arising out of the tender such legal and quasi-judicial would be subject to the jurisdiction of the Civil Court within the city of Raipur and High Court of Chhattisgarh only.

b) The bidders will have to expressly declare that they would only pursue legal remedies in Raipur.

c) Any civil court case/labour court case/MSME facilitation Council, Arbitration and Conciliation, Jurisdiction place within the City Raipur and High Court of Chhattisgarh and Hon'ble High Court of Bilaspur.

21. Fall Clause

Fall clauses are a price safety mechanism. The fall clause provides that if the contract holder reduces its price or sells or even offers to sell the contracted goods of identical specification and terms & conditions to that of the contract, at a price lower than the contract price, to any person or organization during the currency of the Contract, the Contract price will be automatically reduced with effect from that date for all the subsequent supplies under the Contract and the contract amended accordingly.

22. LIST OF REQUIREMENTS

Name of Equipment	**As per Schedule of Requirements**
EMD/ Security Amount	**The** EMD (Earnest money deposit) and SD (security deposit) amount **Details of Account for NEFT/RTGS Payment:** Account Name: CGMSC Ltd Equipment Procurement Account Account No: 540901010050669 Bank Name: Union Bank of India, Shankar Nagar Branch, Raipur. CG IFSC/RTGS code: UBIN0554090 **NOTE 1***: Fund should be transferred through NEFT /RTGS from bidder's account. Non-compliance of the same shall lead to rejection of bid.* **NOTE 2**: The EMD will be returned within 30 days after (i) technical disqualification of the bidder, or (ii) finalization of L1, or (iii) submission of the Performance Bank Guarantee (PBG), whichever is applicable.
Warranty Period	Comprehensive onsite Warranty (Including all spares and labour) will be 3 years (As Mentioned on Technical Specification) f r o m the date of satisfactory Installation of equipment/as per user demand.
CAMC period after warranty	05 years (As Mentioned on Technical Specification)

Required Delivery Schedule	60 days for Domestic Products and 75 Days for Imported Products from the date of Notification of Award delivery at the consignee site. The date of delivery will be the date by which it is to be delivered to the consignee site. Bidders may quote the earliest delivery period.
Required Terms of Delivery and Destination	Free Delivery at Consignee's Site(s)
Installation and Commissioning	Should it be done at the earliest but not later than 30 days of delivery of goods at the site or the date of handing over the site for installation, whichever is later.
Scope of Incidental Services	Installation & Commissioning, Supervision, Demonstration, Trial run and Training etc.
Performance Bank Guarantee (PBG)/ Security Deposit	3 % of the order value valid up to warrantee period plus 6 months
Turnkey Work (if any)	As per details in Technical Specification and Scope of Work.

Note:

- **MSEs and start-ups registered in the State of Chhattisgarh for the quoted product shall be exempted from the requirement of submitting Earnest Money Deposit (EMD) for participation.**
- **Micro and small industries owned by Scheduled Tribes, Scheduled Castes or Women category shall be eligible for 50 (Fifty) percent exemption on the security deposit amount.**
- **Bidders not registered in Chhattisgarh shall mandatorily submit EMD, irrespective of any NSIC/Udyam/MSE registration issued outside the State.**

23. Important: -

1. The Technical Bid shall be evaluated solely based on documents submitted/uploaded by the bidder on the GeM Portal or E-Proc at the time of bid submission. After evaluation, a DAWA APATTI (Claims & Objections) notice will be published on the GeM Portal or E-Proc for bidders who are found ineligible, inviting clarifications. Bidders may submit their clarifications through the GeM Portal or the relevant portal within the stipulated date and time mentioned in the Claims & Objections notice. No new documents shall be accepted in any manner whatsoever during the clarification process; only clarification documents based on the historical documents may be considered. The decision to accept or reject any clarification document shall be at the sole discretion of CGMSCL Committee or TIA.
2. The Purchaser reserves the right to ask for a free demonstration of the quoted equipment after giving reasonable time to the bidder at a pre-determined place acceptable to the purchaser for technical acceptability as per the tender enquiry document specifications before the opening of the Price Bid.

3. It shall be the responsibility of the vendor/OEM to keep the equipment functional during the warranty and CAMC period, anything required shall be provided free of cost

including batteries, UPS etc as required only except consumables.

4. During Warranty and CAMC there are an upgrade, update and extra software that shall be provided free of cost by the firm.

5. One Bid per Bidder: A firm shall submit only one bid. A firm that submits more than one bid will cause all the proposals with the firm's participation to be disqualified.
6. One Bid per Manufacturer: An OEM can either participate directly or can only authorize one bidder to quote on their behalf. In case of submission of multiple offers by an OEM, directly or through its authorized agent(s), all such offers are liable to be rejected.

24. Warranty:

a) The bidders must quote for Three years (3) Comprehensive Warranty/as per user demand for complete equipment (Including all spares, labour and third-party items) and Turnkey Work (if required) from the date of satisfactory installation, commissioning, trial run, handing over and acceptance of the goods by the User Department.
b) The warranty charges shall not be quoted separately.
c) During the Warranty period, desired Uptime of 95% of 365/366 (Leap Year) days (24 hrs), if downtime is more than 5%, the warranty period will be extended by double the downtime period. In addition, a penalty equal to 0.25 % of the total cost of equipment per day will be liable for the excess downtime period but not more than **10%** of the equipment cost. Complaints should be made properly, maximum within 8 hrs. The firm must ensure provision of quality post-sales service with 95% up time of the equipment. The firm must provide a replacement unit (same model) within stipulated time in tender. In case of Non Compliance of above than the penalty and/or blacklisting and/or any other action deemed appropriate at the sole discretion of TIA may be taken.
d) All software updates should be provided free of cost during Comprehensive Warranty period.

e) Comprehensive warranty shall include preventive maintenance including calibration as per technical/ service /operational manual of the manufacturer, service charges and spares. During the warranty period commencing from date of the successful completion of warranty period, Service personnel shall visit each consignee site as recommended in the manufacturer's technical/ service/operational manual, at least once in six months. warranty shall not include the consumables.

25. After Sales Service:

a. After sales service should be provided 24 (hrs) X 7 (days) X 365/366 (days) basis. Complaints should be made properly, maximum within 8 hrs. The service should be

provided directly by Bidder/Indian Agent. Undertaking by the Principals in the "Manufacturer Authorisation Form" that the spares/applicable, software (upgraded version from time to time) for the equipment shall be available for the lifetime of the equipment.

b. Warranty as well as Comprehensive Annual Maintenance Contract will be inclusive of all accessories, software and /or turnkey work and it will also cover the following, wherever applicable: -

i. All kinds of Motors.

ii. Plastic & Glass Parts against any manufacturing defects.

iii. All kinds of sensors.

iv. All kinds of coils, probes and transducers.

v. Printers and imagers including laser and thermal printers with all parts.

vi. UPS including the replacement of batteries

vii. Air-conditioners

b. The supplier along with its Manufacturer, Indian Agent and the CAMC provider shall ensure continued supply of the spare parts for the machines and equipment supplied by them to the purchaser for lifetime of the equipment.

c. The Supplier along with its Manufacturer Indian Agent and the CMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers of its equipment/machines/goods etc. and shall always give the most competitive price for its machines/equipment supplied to the Purchaser/Consignee.

26. Comprehensive Annual Maintenance Contract (CAMC):

a) The TIA/Ordering Authorities may enter into Annual Comprehensive Maintenance Contract (CMC) or AMC with the Supplier for the next five years after completion of warranty period. CMC is an extension of warranty period. All conditions with respect to replacement of parts and accessories shall also be applicable during CMC period. TIA/ Ordering Authorities may enter into a CMC/AMC Contract with L1 Bidders 5 % Flat of basic rate without GST per year after warranty period for CMC and 3 % Flat of basic rate without GST per year after warranty period for AMC. All bidders shall be bound to offer CMC /AMC **The CMC/AMC charges shall be eligible for an annual escalation of 0.5% applicable for each subsequent year during the 5-year CMC/AMC period**. Services as above & any deviation to this clause shall be considered as "Conditional Bid". Respective Ordering Authorities shall pay CMC/AMC charges.

b) Before commencement of CMC/AMC period, the suppliers shall furnish a Performance Bank Guarantee for **3%** of the cost of the equipment (as per Performa given hereunder) valid till 3 months extra after expiry of entire CMC/AMC period.

c) During the CMC/AMC period, desired Uptime of 95% of 365/366 (Leap Year) days (24 hrs), if downtime is more than 5%, the CAMC period will be extended by double the downtime period. In addition, a penalty equal to 0.25 % of the total cost of equipment per day will be liable for the excess downtime period but not more than **10%** of the equipment cost. Complaints should be made properly, maximum within 8 hrs. The firm must ensure provision of quality post sale service with 95% up time of the equipment. The firm can provide a replacement unit (same model) within stipulated time as mentioned in tender. In case of Non Compliance of above than the penalty and/or blacklisting and/or any other action deemed appropriate at the sole discretion of TIA may be taken.

d) All software updates should be provided free of cost during CMC/AMC. In case of failure by the supplier, the Bank Guarantee of CMC/AMC will be forfeited.

e) The payment of CMC/AMC will be made on half yearly basis after satisfactory completion of said period duly certified by end User.

27. Turnkey Work:

Turnkey Work is to be indicated in the Technical Specification wherever required. The Bidder shall examine the existing site where the equipment is to be installed, in consultation with User Department. The Turnkey Work should completely comply with AERB requirement, wherever required.

28. Price bid:

Bidders must upload scanned copy of price bid and Authority may ask for price break-up of all items in price list of all spares/accessories/consumables/chemicals/ software's to be required to run/maintain the equipment in future. The prices of all quoted items will remain valid till warranty period.

29. Pre-bid meeting:

Pre-bid meeting will be held for this case. All the prospective bidders are advised to kindly go through published bid documents, specifications and suggest modifications/corrections in writing (with justification) **and submit in GeM Portal only**,24 hrs (one day) before pre-bid meeting date, to increase competition and purchase equipment at best competitive price. Bidders may attend the pre-bid meeting for discussion/justification before committee. The modifications/corrections requests after prescribed date will not be entertained and summarily rejected.

ANNEXURE- 1.
TENDER ACCEPTANCE FORM

(To be submitted on the letter head of the Bidder)

To,
MD, CGMSC
C.G. Housing Board, Commercial Complex, 4th Floor
Southeast Corner, Sector – 27, Nava Raipur

Sr no.	Schedule no. or Item no. as mentioned in Schedule of Requirement	Name of Item/Product/ Equipment as per Schedule of Requirement	Make /manufacturer of Quoted product	Model of the Quoted product	Country of origin of the Quoted Product

Ref. Your Bid No. _____due to opening on _____*insert date*

Note:- *In Case of Above details not clearly mentioned then bid summarily rejected at preliminary stage.

We, the undersigned, have examined the above-mentioned Bid document, including amendment/corrigendum (if any), the receipt of which is hereby confirmed. We now offer to supply and deliver (Description of goods and services) in conformity with your above-mentioned document for the sum as shown in the Price Schedules attached herewith and made part of this bid. If our bid is accepted, we undertake to supply the goods and perform the services as mentioned in the bid documents, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our bid is accepted, we shall provide you with a performance security of required amount in an acceptable form for due performance of the contract.

We agree to keep our bid valid for acceptance as required or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this bid up to the aforesaid period and this bid may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is passed, this bid read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

We further understand that you are not bound to accept the lowest or any bid you may receive against your above- referred Bid.

We confirm that we do not stand being deregistered/banned/blacklisted by any Central Govt. Ministries/Departments/Hospitals/Institutes. We also confirm that our GeM account is neither under watch listed nor suspended and there is no severe incident pending against us raised by any Department/Centre of CGMSC, Raipur

We confirm that we fully agree to the terms and conditions specified in the above-mentioned document, including amendment/ corrigendum if any**.** "We hereby certify that if at any time, information furnished by us is proved to be false or incorrect, we are liable for any action as deemed fit by the purchaser in addition to enforcement of the bid security Declaration."

Name_____

Business Address_____

ANNEXURE- 2

Proforma for Bid Security Declaration Form

Date: _____BidNo. _____

To (*insert complete name and address of the purchaser*)

I/We the undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration. I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in breach of any obligation under the bid conditions, because I/We

a. have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
b. have been notified of the acceptance of our Bid by the purchaser during the period of bid validity (I) fail or refuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (*insert signature of person whose name and capacity are shown*) In the capacity of: (*insert legal capacity of person signing the Bid Securing Declaration*)
Name: (*insert complete name of person signing the Bid Securing Declaration*)

Duly authorized to sign the bid for an on behalf of (*insert complete name of Bidder*) Dated on __day of _____(*insert date of signing*) Corporate Seal (*where appropriate*)

ANNEXURE: 3

MANUFACTURER'S AUTHORISATION FORM

The MD
CGMSCL
Naya Raipur-C.G.

Dear Sir,

Ref: Your Bid no. _____ dated _____

We, _____ who are proven and reputable manufacturers of_____(*name and description of the goods offered in the bid*) having factories at_____, hereby authorize Messrs._____(*name and address of the agent*) to submit a bid, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also state that we are not participating directly in this bid for the following reasons(s):

_____*(please provide reason here).*

We further confirm that no supplier or firm or individual other than Messrs. _____ (*name and address of the above agent*) is authorized to submit a bid, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also hereby extend our full warranty, CAMC as applicable as per clause 26 of the General Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this TE document.

We also hereby confirm that we would be responsible for the satisfactory execution of contract placed on the authorized agent and the spares for the equipment shall be available for at least 10 years from the date of supply of equipment.

We also confirm that the price quoted by our agent shall not exceed the price which we would have quoted directly"

Yours faithfully,

[*Signature with date, name and designation*]
for and on behalf of Messrs_____
[*Name & address of the manufacturers*]

Note:

1. *This letter of authorisation should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.*
2. *Original letter may be sent.*

ANNEXURE- 4:

NON-BLACKLISTING DECLERATION FORM

(Certificate on self-attested non-judicial stamp paper of Rs.100/- & Notarized)

We solemnly declare that we (including our affiliates or subsidiaries or constituents):

a). are not insolvent, bankrupt or being wound up, not having our affairs administered by a court or a judicial officer, not having our business activities suspended and are not the subject of legal proceedings for any of these reasons.

b). (including our Contractors/ subcontractors for any part of the contract):

(i) Do not stand declared ineligible/ blacklisted/ banned/ debarred by the Procuring Organization or debarred by any State Government / Central Government or its Ministry/ Department from participation in its Tender Processes; and/ or

(ii) that there is no vigilance/ CBI case pending against the firm/supplier.

(iii) Are not convicted (within three years preceding the last date of bid submission) or stand declared ineligible/ suspended/ blacklisted/ banned/ debarred by appropriate agencies of Government of India / State Government from participation in Tender Processes of all of its entities, for offenses mentioned in Tender Document in this regard. We have neither changed our name nor created a new "Allied Firm", consequent to the above disqualifications.

c). During the validity of the tender / rate contract if the firm/ company is blacklisted by any State Government / Central Government or its Ministry/ Department / convicted by any Court of law in India, it shall be intimated within 7 days to CGMSCL by the corresponding firm/ company.

Signature and Seal
Date:

ANNEXURE: 5

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CAMC SECURITY

WHEREAS __(Name and address of the supplier) (Hereinafter called "the supplier")has undertaken, in pursuance of Purchase Order/ Contract no____ dated_to supply ____(*insert description of goods and services*) (Hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract.
AND WHEREAS we have agreed to give the supplier such a bank guarantee.

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of ____(insert *Amount of the guarantee in words and figures)*, and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.
We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee will remain in force up to___*(insert date of additional Ninety days after completion of satisfactorily warranty period in case of Performance Security and additional Ninety days after completion of satisfactorily CAMC period in case of CAMC security)* and any demand in respect thereof should reach the Bank no later than the above date.

……
…… (Signature with date of the authorized officer of the Bank)
……
……. Name and designation of the officer
……
……
…… Seal, name & address of the Bank and address of the Branch

ANNEXURE –6

TOTAL AVERAGE ANNUAL TURNOVER CERTIFICATE

(ON THE LETTER HEAD OF THE CHARTED ACCOUNTANT)

To
Managing Director, CGMSC Ltd.
Chhattisgarh, Raipur

We hereby certify that M/s_____ (the name of participant in the tender) who is participating the tender for supply of Goods called by CGMSC Ltd. Chhattisgarh, Raipur having their office at_____(Address of office) has a sales turnover for **Medical equipment manufacturing or Sales or Supply or Repair or Maintenance** based on their audited balance sheet as follow.

Turnover in the financial year of	2022-2023	……..……. Rs
Turnover in the financial year of	2023-2024	……..……. Rs
Turnover in the financial year of	2024-2025	……..……. Rs

The above information is correct and true and verified from audited Balance Sheet.

CHARTERED ACCOUNTAN (With membership No.)
Name:
Contact No.
Contact Add:
UDIN :

- NOTE: The turnover of people other than participants will not be accepted.

ANNEXURE-7

CONTRACT FORM FOR COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (CAMC))

(APPLICABLE AT THE TIME OF AMC/CMC AGREEMENT)

Comprehensive Annual Maintenance Contract No._____Dated_ Between *MD, CGMSC/ User institution*
And
(*insert Name & Address of the Supplier*)

Reference: Contract/ Purchase Order No_____ dated_____for supply, installation & commissioning, Training and CAMC of goods & services
In continuation to the above referred Contract/Purchase Order, the Contract of Comprehensive Annual Maintenance Contract is hereby concluded as under: -

1	2	3	4					5
Schedule No.	Brief description of goods	Quantity (Nos.)	CAMC/AMC Cost for Each Unit year wise in (%) of basic price of quoted product					GST as applicable
			1st	2nd	3rd	4th	5th	

NOTE:- AMC/CMC will be applicable as per mentioned clause no. 26 in ATC above
Total value (in figure) _____(In words) _____

a) The CAMC commence from the date of expiry of all obligations under Warranty i.e. From

_____(date of expiry of Warranty) and will expire on_____(date of expiry of CMC)

b) The cost of Annual Comprehensive Maintenance Contract (CMC) which includes preventive maintenance, labour and spares, after satisfactory completion of Warranty period as contained in the above referred contract on yearly basis for complete equipment as per contract including Turnkey Work(if any).

c) There will be 95% uptime warranty during CAMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CAMC period by double the downtime period and other penalties as per contract.

d) During CAMC period, the supplier shall visit at each consignee's site for preventive maintenance including testing and calibration as per the manufacturer's service/ technical/ operational manual. The supplier shall visit each consignee site as recommended in the manufacturer's manual, but at least once in 3 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.

e) All software updates should be provided free of cost during CAMC period.

f) The Bank Guarantee valid till [___] fill the date) 3 months after expiry of entire CAMC period] for an amount of Rs. _[(fill amount) equivalent to 3

% of the cost of the equipment as per contract]

shall be furnished in the prescribed format given in Section XIV of the Tender Document, along with the signed copy of CAMC within a period of 21 (twenty-one) days of start of CAMC failing which the Performance Security (3% of the contract value) submitted shall be en-cashed payable to the Purchaser/Consignee.

g) If there is any lapse in the performance of the CAMC as per contract, the proceeds Annual CAMC Bank Guarantee shall be forfeited, and their bad performance will be considered while awarding future contracts.

h) Payment terms: The payment of CAMC will be made against the bills raised by the supplier on six monthly bases after satisfactory completion of said period, duly certified by the User Department concerned. The payment will be made in Indian Rupees.

(Signature, name and designation of the Store Officer/ASO of the Purchaser**)**

(Signature, name and designation of the F&CAO of the Purchaser)

For and on behalf of *MD, CGMSC/User institution*

(Seal of the Purchaser)

Date: _____Place: _____

I received and accepted this contract

(Signature, name and address of the supplier's executive duly authorized to sign on behalf of the supplier)

For and on behalf of _____

(*Insert Name and address of the supplier*)

(Seal of the Supplier)

Date: _____Place: _____

Note:- The contract will be prepared on Non-judicial Stamp paper (currently of value of Rs. 100).

ANNEXURE - 8

(Land Border Format)

FORMAT OF MODEL CERTIFICATES TO BE SUBMITTED BY THE BIDDER ON COMPANY LETTERHEAD

(To be given by Authorized signatory duly authorized by the Board of Director)

Model Certificate for Tenders

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered.
[**Where applicable, evidence of valid registration by the Competent Authority shall be attached**!'

Model Certificate for Tenders for Works involving possibility of sub-contracting.

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered.
[Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

Model Certificate for GeM:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this vendor/ bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this vendor/ bidder fulfils all requirements in this regard and is eligible to be considered for procurement on GeM.

[Where applicable, evidence of valid registration by the Competent Authority shall be attached]"

ANNEXURE-9

GENERAL INFORMATION OF THE BIDDER

1	Name of the Bidder			
	Registered address of the firm with GST IN			
	State		District	
	Telephone No.		Fax	
	Email		Website	
Contact Person Details				
2	Name		Designation	
	Telephone No.		Mobile No.	
Communication Address				
3	Address			
	State-		District	
	Telephone No.		Fax	
	Email		Website	

Type of the Firm (Please √ relevant box)						
4	Private Ltd.		Public Ltd.		Proprietorship	
	Partnership		Society		Others, specify	
	Registration No.& Date of Registration					

Nature of Business (Please√ relevant box)				
5	Original Equipment Manufacturer		Authorized Dealer/Distributor/Representative	
	Direct Importer		Others specify.	

Key personnel Details (Chairman, CEO, Directors, Managing Partners etc.)						
6	In case of Directors, DINN os. Are required					
	Name		Designation		Din No. (if applicable)	
	Name		Designation		Din No. (if applicable)	
7	*Whether any criminal case was registered against the company or any of its promoters in the past?*				Yes/No	
8	*Other relevant Information provided (Here enclose the details such as presentation on the details of the bidder in a CD preferably; please avoid submission of detailed leaflets/brochures etc., if possible.)*					

Date:		*Official*		*Signature of the bidder / Authorized signatory*	

ANNEXURE- 10

FORMAT FOR SUBMITTING LIST OF ITEMS FOR WHICH BID IS QUOTED

(On non-judicial ₹ 100/- Stamp Paper)

Sl. No.	Item Code	Name Of the ITEM	Make, Model and Manufacturer	EMD amount Submitted (In INR)
1				
2				
3				

Total EMD Paid…… (Amount in figures)

…… ……. (In words)

UTR No:

I/We..... are having my / our office

at…….……. declares that I / We will supply the items as per above.

Sign & Seal of the Bidder.

ANNEXURE-11

UNDERTAKING

Details of Nearest Authorized Service Centre
(To be provided by the OEM on their letter head)

I/We ……. hereby undertake to provide warranty/CMC/after-sales services, as mentioned in tender document Reference No……. especially with respect to time-line adherence. I/We also declare that the following person/persons will provide breakdown and maintenance services on behalf of our company (the OEM) as per tender terms & conditions for the entire geographical area comprising Chhattisgarh State. We also declare that the details provided below are true and correct, as on date. The person/firm mentioned above is well aware of this commitment to CGMSC, under this tender's terms and conditions.

S.N.	Details of Service Centre/Provider	
1	Full Name of the Firm	
2	Address of the Firm	
3	E-mail from the Firm	
4	Contact Person Name and Designation	
5	Contact Person Mobile No./Land Line No.	
6	Toll Free Number for Service	
7	PAN Card Number	

Name of Bidder: Signature of representative of OEM

Address: **Date:**

Seal of Bidder

ANNEXURE-12
DECLARATION FORM

(On Non-Judicial Stamp Paper worth ₹ 100/-)

I/We ..... are having my / our office

at…….…….……do declare that I / We have carefully read all the term s& conditions of tender of Ref. No .....
,
of CGMSC Ltd., for the supply of..... (Name of the item) and confirm our eligibility for this tender and all items quoted as per the tender condition and Governing laws of India.

I/We hereby agree, confirm & declare that all terms & conditions of the above-mentioned tender are acceptable.

I/We certify that the rates of item/items quoted are reasonable & not higher than the prices charged by us to any person(s)/entity in the last six months.

I/We declare that we have agreed the price of CMC (Comprehensive Maintenance Contract).

I/We do hereby declare that I/We have not been convicted by any court of Law nor are de-recognized / blacklisted by any State Govt. / Union Territory/ Govt. of India / Govt. organization / Govt. Health Institutions for supply of Not of Standard Quality (NSQ) items / part-supply / non-supply/non-service or any reason whatsoever.

I/We agree that the Tender Inviting Authority can forfeit the Earnest Money Deposit and or Performance Guarantee and/or 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.

In case of any breakdown call and service call of awarded equipment in warranty and CMC period if awarded, our service engineer will visit the site within tender mentioned time period and attend the breakdown call/ service call and rectify the problem as soon as possible to ensure 95% uptime annually and submit report to the user department.

I/we will provide preventive maintenance of the awarded equipment on Bi-annual basis. During preventive maintenance it will be responsibility of respective engineers to coordinate with user department. As mentioned in tender document & other important instructions.

If we would not be able to fulfill the above terms & conditions, TIA will be able to take legal actions against company and may forfeit EMD of bidder, blacklist & debar the company. (As per blacklisting clauses and blacklisting procedure of tender documents)

I/We do hereby declare all information provided above is true.

Name & Address of the Firm:

Signature of the bidder: Dat

ANNEXURE- 13

CONSIGNEE RECEIPT CERTIFICATE

(To be submitted in this format only and has to be filled jointly by the Supplier& User Institution/ Department)

The following equipment has/have been received in good condition as per purchase order.

Name of item supplied	
Name of the Supplier/Manufacturer	
Quantity supplied	
Purchase Order reference no.	
Serial Nos. of equipment supplied	
Name and Address of the Consignee along with Telephone number and fax no.	
Date of receipt by the Consignee	
Stock Book page no. where the items have been entered	
Signature of Authorized Representative of Consignee with date (Store In-charge/Storekeeper)	
Name and designation of the authorized Representative (Store In-charge/ Storekeeper)	
Seal of the consignee	

Note: Colored Photographs of the equipment with the recipient duly signed by Authority of facility should be provided. In case of Hospitals, The Hospital in-charge of concerned hospital will be treated as consignee. In case of office (other than hospital), the office in charge of the office would be treated as consignee.

(User Department)	**(District Bio-Medical Engineer)**	**(Hospital In charge)**
Name:	Name:	Name:
Contact No.:	Contact No.:	Contact No.:
Email id:	Email id:	Email id:

Note: -

1. Signature of consignee must be on all pages of consignee receipt certificate.
2. The Hospital In charge here refers to as Dean/Hospital Superintendent/CMHO/CS/MO/RMA /District Ayurved Officer etc.
3. Signature of Bio-Medical Engineer posted at Dist. Level such as O/o CMHO/ CS/ Medical College & Hospital. In case a district has no Bio-Medical Engineer, then simply write “Not posted”.
4. A copy of above document has to be submitted online on EMIS Portal on CGMSC website.
5. Neither supplier nor the consignee are allowed to change the above format. It must be printed front & back on a single page as is mentioned in Annexure. “NOTE MENTIONED ABOVE MUST ALSO BEPRINTED”

ANNEXURE- 14

CONSIGNEE RECEIPT CUM INSTALLATION REPORT

(To be submitted in this format only and has to be filled jointly by the Supplier& User Institution/Department)

The following equipment has/have been received in good condition as per purchase order.

Name of item supplied		
Name of the Supplier		
Make (OEM Name)	Model	Manufacturing Date (DD/MM/YYYY)
Quantity supplied		
Purchase Order reference no with date		
Serial Nos. of equipment supplied		
Name and Address of the Consignee along with tel.no. and fax no.		
Date of receipt/supply by the Consignee		
Date of Installation		
Installation Location at Hospital.		
Accessories supplied and the serial numbers of Accessories		
Training satisfactorily completed Yes/No		
The equipment has been received as per tender specification Yes/No		
Equipment Identification Sticker & CGMSC logo as per Annexure-16 printed Yes/No		
Service center address & contact no.		
Service manual provided by the supplier		
Operating manual provided by the supplier		
Calibration Certificate provided by the supplier		
Name and Designation of Personnel trained.		
Date of commencement of warranty & Date of expiry of warranty	From	To
Original warranty card received by Consignee as per		

annexure-17			
Comprehensive warranty period		From	To
Accessories/Parts/Consumable/Battery etc. supplied as mentioned below Note: If needed separate annexure/sheet to be attached as per below format in OEM letter head			
Item Name	Qty.	Item Serial No.	Remark
1.			
2.			
3.			
4.			
Mandatory Bi-annual preventive maintenance and SOS breakdown Schedule		Year 1 2 visits	Year 2 2 visits	Year 3 2 visits
Other statutory documents received			
Stock Book page no. where the items have Been entered			
Remarks by the hospital authorities			
Name & designation of the authorized Representative			
Signature of Authorized Representative of Consignee / Store In-charge with date			
Seal of the consignee/ Store In-charge			

Note: Colored Photographs of the equipment with the user, Model Number, Equipment Identification Sticker & CGMSC logo as per Annexure-16 printed on the equipment and that of training duly signed by Authority of facility should be provided. In case of Hospitals, The Hospital In-charge of concerned hospital will be treated as consignee. In case of office (other than hospital), the office In-charge of the office would be treated as consignee.

(Sign of service Er. /Techn.)	**(User Department)**	**(District Bio-Medical Engineer)**	**(Hospital In charge)**
Name:	Name:	Name:	Name:
Contact No.:	Contact No.:	Contact No.:	Contact No.:

Email id:	Email id:	Email id:	Email id:

Note: -

1. Signature of consignee must be on all pages of consignee receipt certificate.
2. The Hospital In charge here refers to as Dean/Hospital Superintendent/CMHO/CS/MO/RMA /District Ayurveda Officer etc.
3. Signature of Bio-Medical Engineer posted at Dist. Level such as O/o CMHO/ CS/ Medical College & Hospital. In case a district has no Bio-Medical Engineer, then simply write "Not posted".
4. A copy of above document has to be submitted online on EMIS Portal on CGMSC website.
5. Neither supplier nor the consignee are allowed to change the above format. It must be printed front & back on a single page as it is mentioned. "NOTE MENTIONED ABOVE MUST ALSO BEPRINTED"

ANNEXURE- 15
Technical Specification Compliance Sheet (Clause by Clause)

Equipment Name :
Item Code :
Make :
Model :

S. No.	Specification Floated in Tender	Compliance (yes /No)	If there is any deviation, mention the points of deviation; otherwise, state "N/A
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

ANNEXURE-16

CGMSC Logo & Equipment Identification Stickers

Chhattisgarh Medical Service Corporation Limited Supply (Not for Sale)

Tender RefNo……

Purchase Order No…….

Make &model…….

Equipment Serial No…….

Installation Date……Warranty End Date…… CMC/AMC StartDate…..……

Supplied By……Contact No…….……..

Note: - Penalty will be charged in case above sticker is not found affixed/ not in prescribed format.

ANNEXURE-17

Warranty Certificate

(CGMSCL MANDATE)

CGMSCL Purchase order No: ……Dated……

The equipment, ……..…….…….…. (*Equipment Name*), Make……......, Model No…….……., CGMSC Item Code……...…. bearing serial, no ……. was installed successfully at ……...……. (*Institution Name)* is offered with a comprehensive warranty for a period of 03 years starting from…….to……. including all the following Accessories/Parts, Battery etc.

I/We declare that the above-mentioned equipment supplied is new and unused in all aspects.

S. No.	Name of the accessory	Manufacturer's name	Item S. No	Qty

Signature of the Supplier with

Date:

Name:

ANNEXURE- 18
PROFORMA 'A'

PROFORMA FOR PERFORMANCE STATEMENT
(For the period of last three years)

TE No. : _____

Date of Bid Opening : _____

Name and address of the Bidder : _____

Name and address of the Manufacturer : _____

Order placed by (full address)	Order no. and date ##	Description (Model no.) and quantity	Value of order (Rs.)	Consignee	Date of Delivery Period			Have the goods been functioning satisfactorily (attach documentary proof)**
					Contract	Actual	Reasons for Delay if Any	
1	2	3	4	5	6	7	8	9

We hereby certify that the details of all orders received in last 3 years of medical equipment have been furnished. We hereby certify that if at any time information furnished by us is proved to be false or incorrect, we are liable for any action as deemed fit by the purchaser in addition to forfeiture of the Bid Security.

Name_____

Business Address_____

Signature of Bidder_____

Place: _____

Seal of the Bidder_____

** The documentary proof will be the latest certificate from the consignee/end user with cross-reference of order no. and date

The bidders are requested to submit the purchase order copies for the specific model quoted along with the Techno-commercial Bid.

ANNEXURE-19

PERFORMANCE CERTIFICATE (After Supply)

(To be filled with by the head of user institution individually for every equipment)

Name of the facility:			
Name of the Supplier			
Equipment Details			
Name of the equipment:		**Purchase Order No:**	
Item Code		**Purchase Order Date:**	
Make / Manufacturer		**Purchase Amount**	
Model		**Equipment S. No.**	
Serial no.		**Project Name**	
Date of Installation		**Location / Department**	
Whether Equipment working satisfactorily without any problem for 02 months?			**YES ☐ NO ☐**
If No, provide details of equipment failure in last 02 months (Attach additional details if any in a separate sheet)			

BREAK DOWN DETAILS				
Break down Reported Date	**Attended date**	**Rectified date**	**Attended by**	**Details of beak down / service**

Annexure: 20

Undertaking for Obtaining GST Registration

(To be submitted on Rs. 100 Stamp Paper)

Date: _____

To
MD, CGMSC
C.G. Housing Board, Commercial Complex, 4th Floor

Southeast Corner, Sector – 27, Nava Raipur

Subject: **Undertaking for Obtaining GST Registration in the State of Chhattisgarh**

In reference to the tender **Bid No.** _____, I/We, **M/s** _____ (Name of Bidder), having our registered office at _____, hereby submit this undertaking as required under the *Additional Terms & Conditions (ATC)* of the tender.

1. I/We acknowledge that as per the eligibility criteria of the tender, the selected bidder must be **registered under GST in the State of Chhattisgarh prior to issuance of the Purchase Order or award of the contract**.
2. Since I/We are **not registered under GST in Chhattisgarh at the time of bidding**, I/We hereby **undertake to obtain GST registration in the State of Chhattisgarh** within the stipulated period prescribed by the Tender Inviting Authority (TIA) and **before issuance of the Purchase Order/award of the contract**.
3. I/We understand that **failure to obtain GST registration within this timeline shall lead to bid rejection, penal action**, including penalties, blacklisting, or any other action deemed appropriate by TIA.
4. I/We hereby confirm that all information furnished in this undertaking is true and correct. Any false or misleading declaration may invite action as per the tender conditions.

Authorized Signatory
(Signature)
Name: _____
Designation: _____
Mobile: _____
Email: _____
Seal of the Bidder

S.N.	Check List	Submitted (Yes/ No)	Document No. & Page Nos.
1	**Checklist**		
2	**General Information of Bidder** as per **Annexure -9**		
3	EMD **OR** EMD OR Valid Exemption Certificate — applicable *only* if the bidder is an MSE or Startup registered in the State of Chhattisgarh **for the quoted product**. Bidders not registered in Chhattisgarh shall mandatorily submit EMD, irrespective of any NSIC/Udyam/MSE registration issued outside the State.		
4	**GST Registration certificate** or undertaking in the prescribed format as per **Annexure: 20**. *(To be submitted on Rs. 100 Stamp Paper)*		
5	**Total Average Annual Turnover Certificate**. In prescribe format only as per **Annexure: 6** Bidder must have turnover of as mentioned Value and positive net worth as on date. CA Certificate with UDIN must be uploaded. The bidder should not be under liquidation, court receivership or similar proceedings and should not be bankrupt. Bidder to upload undertaking to this effect with bid. (As per bid document).		
6	**Tender Acceptance Form** as per **Annexure 1** *(To be submitted on the letter head of the Bidder)* *Note:- In Case of details of make, model and country of origin not clearly mentioned then bid may summarily rejected at preliminary stage.*		
7	***Proforma for Bid Security Declaration Form*** *as per* ***Annexure 2*** (To be submitted on the letter head of the Bidder)		
8	**Non-Blacklisting declaration** as per **Annexure-4** As per Prescribed format only. (Certificate on self-attested non-judicial stamp paper of Rs.100) **Note: Only notarized documents will be accepted.**		
9	**Declaration Form** as per **Annexure 12** (On Non-Judicial Stamp Paper worth ₹ 100/-)		
10	List of Quoted Item as per **Annexure 10** (On non-judicial ₹ 100/- Stamp Paper)		

11	*Submission of Manufacturer's Authorization (if quoted by bidder other than manufacturer) as per Annexure III is mandatory within 07 days of generation of Purchase Order(PO).*		
12	**Land Border Model Certificate** as per **annexure -8**		
13	Dedicated Telephone No for Service Support: (**Annexure-11**) BIDDER must have Dedicated Telephone No. for service Support to be provided. **OR** OEM must have dedicated toll-free service support.		
14	**Proforma for performance statement as per Annexure 18 (Proforma A)**		
15	Scanned copies of the original purchase order along with tax invoice/ consignee receipt/ installation reports and CRAC, cross-referenced with the submitted purchase order, as proof of supply for the quoted product. **Note:** Kindly upload only those purchase orders which are mentioned in **Proforma A** **Note: Only notarized documents will be accepted.**		
16	**Technical Compliance Sheet (Specification Clause by clause as** uploaded in ATC Specification Clause) In prescribe Format only as per Annexure 15		
17	Original Scanned copy of Brocher/ Catalogue/ technical Data sheet for the Quoted product.		
18	Scanned required quality certificate as mentioned in technical specification.		
19	In case of bidder is Authorized importer / distributor/Reseller Bidder must submit manufacturing or import license required according to CDSCO norms. (if applicable) OR In case of OEM, Bidder must submit manufacturing or sale distribution required according to CDSCO norms. (if applicable)		
20	Any other documents asked in the tender		

Note: -

a. The bidder must ensure submission of all required documents as specified in the tender, following the sequence provided in the checklist.

b. In case of shortfall documents, clarification may be requested during the DAWA process. However, such clarification must be supported by historical documents only; No new documents will be accepted.

21. **LIST OF REQUIREMENTS**

Name of Equipment	**As per Schedule of Requirments**
Consignee	**GMCH Ambikapur (C.G.)**
Total number of items	**26**
EMD/ Security Amount	**Rs 196244.4** **The EMD (Earnest money deposit) and SD (security deposit) amount Details of Account forNEFT/RTGS Payment:** **Account Name: CGMSC Ltd Equipment Procurement** **Account No: 540901010050669** **Bank Name: Union Bank of India, Shankar Nagar Branch, Raipur. CG IFSC/RTGS code: UBIN0554090** **NOTE: Fund should be transferred through NEFT /RTGS from bidder's account. Non-compliance of the same shall lead to rejection of bid.**
Warranty Period	Comprehensive onsite Warranty (Including all spares and labour) will be 03 years from the date of satisfactory Installation of equipment/as per user demand.
CAMC period after warranty	05 years
Required Delivery Schedule	60 days for Domestic Products and 75 Days for Imported Products from the date of Notification of Award to delivery at the consignee site. The date of delivery will be the date by which it is to be delivered at the consignee site. Bidders may quote the earliest delivery period.
Required Terms of Delivery and Destination	Free Delivery at Consignee's Site(s)
Installation and Commissioning	Shall be done at the earliest but not later than 75 days of delivery of goods at the site or the date of handing over the site for installation, whichever is later.
Scope of Incidental Services	Installation & Commissioning, Supervision, Demonstration, Trial run and Training etc.
Turnkey Work (if any)	As per details in Technical Specification and Scope of Work.

22. Schedule of Requirments

S.N.	Product Name	Qty	Consignee Detail
1	Suction Machine	8	GMCH Ambikapur (C.G.)
2	BP Appratus	20	GMCH Ambikapur (C.G.)
3	Fumigator (EQP9-005)	2	GMCH Ambikapur (C.G.)
4	Cardioscope with difibrillator Cum paccer cum AED	2	GMCH Ambikapur (C.G.)
5	ABG Machine	1	GMCH Ambikapur (C.G.)
6	ECG Machine 12 Channel	12	GMCH Ambikapur (C.G.)
7	Fibroptic Bronchoscope	1	GMCH Ambikapur (C.G.)
8	Cardiac Holter Monitor	1	GMCH Ambikapur (C.G.)
9	Defibrilator (EQP0041)	1	GMCH Ambikapur (C.G.)
10	ECG Machine 12 Channel (EQP0045)	3	GMCH Ambikapur (C.G.)
11	Infusion Pump	50	GMCH Ambikapur (C.G.)
12	Wheelchair	15	GMCH Ambikapur (C.G.)
13	Syringe Pump	50	GMCH Ambikapur (C.G.)
14	RO Plant For haemodialysis Machin	1	GMCH Ambikapur (C.G.)
15	High End Multipara Moniter	35	GMCH Ambikapur (C.G.)
16	Multiparamoniter 5 Parameter	1	GMCH Ambikapur (C.G.)
17	Bedside Screen	30	GMCH Ambikapur (C.G.)
18	Multiparamoniter 3 Parameter	1	GMCH Ambikapur (C.G.)
19	TFT Display cardiac monitor with defibrilator with pacing	2	GMCH Ambikapur (C.G.)
20	Over Bed Table/Cardiac Table	40	GMCH Ambikapur (C.G.)
21	Multipara Moniter	4	GMCH Ambikapur (C.G.)
22	Eto Sterilzation	1	GMCH Ambikapur (C.G.)
23	Pulse Oximeter (EQP0036)	30	GMCH Ambikapur (C.G.)
24	Stethoscope (EQP00530)	30	GMCH Ambikapur (C.G.)
25	X-ray View Box LED	5	GMCH Ambikapur (C.G.)
26	Multipara Moniter (EQP0039)	2	GMCH Ambikapur (C.G.)

23. **Technical Specification: -**

1 Suction Machine

Item Code - ANES006

Item Description- Suction Pump, Portable Electric

1) **Purpose:** Aspirate fluids, secretions, or foreign materials from patient airway. Used in clinical
2) wards, NICU & PICU.
3) **Technical Specifications:**
4) Suction: 0 to -760 mmHg ±10
5) Motor: 1/2 HP, single phase, 1440 RPM
6) Vacuum control: Flutter-free knob
7) Collection: Wide-mouthed 2x2 Litre unbreakable jars, self-sealing, overflow safety
8) Settings/User Interface: Manual
9) Noise: <50 dBA
10) Heat dissipation: Maintain <36.5°C via exhaust fan
11) Portability: Yes
12) **Energy Source:**
13) Power: 220V, 50Hz, 0.5A, 370W
14) Voltage tolerance: ±30% with stabilizer/SMPS
15) Electrical protection: Resettable breakers/fuses
16) **Environment:** Operating temp: 10-40°C, storage 0-50°C
17) Humidity: 15-90%
18) Cleaning: Easily washable & sterilizable
19) **Standards:** IEC 60601-1-8 or applicable
20) **Accessories & Spares:** Collection container & cap, suction tube tips, vacuum gauge, 2 sets of moisture & microbial filters, control knob
21) **Consumables:** Silicone tubing 8 mm ID x 2m, 2x2 L jars
22) **Training/Documentation:** Optional training, calibration certificate, manuals in English/Hindi

02 BP Appratus

Item Code - DENT0153

Item Description - Instrument cabinet, emergency medicine kits, Blood pressure apparatus

Technical Specifications

1) It should have wheels for Movement and Drawers to Store Instruments along with built-in damping drawer slide, allowing for smooth and controlled opening and closing. it should have soft closure doors for a quiet and smooth operation. should made up of High-grade double- layered stainless steel.
2) It should have multi-functional shelves for small equipment/materials.

03 Fumigator (EQP9-005)

Item Code - DENT0157

Item Description - Fumigator

Technical Specifications

1) It should have minimum 5 liter of chemical storage capacity tank. Motor should have Copper winding with aluminum body motor. It should have plastic fan/blade or metal fan/ blade. It should have min 30-35MI/min Atomizing capacity, and it should be operated in 230V,50HZ Power supply.

4. Defibrillator cum Pacemaker cum AED

Item Description: Bi-phasic Defibrillator with External Pacemaker and Automated External Defibrillator (AED) Mode

1) Operating Modes
   a) Manual and AED fAutomatic External Defibrillator) operation
   b) Synchronized and Asynchronized cardioversion fSync/Async modes displayed on monitor and recorder)
   c) External Pacing capability transcutaneous)
   d) CPR Advisory System:
   e) Real-time graphic and numeric display of compression and ventilation rate
   f) Audio-visual prompts for correction and feedback

2) Display & Monitoring
   a) High-resolution color TFT display, minimum 7-8" or more
   b) Display Resolution: 800 x 600 pixels
   c) ECG Display:
   d) Through paddles and electrodes
   e) Adjustable ECG size f5 levels)
   f) Audio-visual R-wave detection indicator
   g) Optional: 12-lead ECG monitoring
   h) Sweep Speed: 25 mm/sec
   i) Heart Rate Indicator Range: 15-300 bpm
   j) Alarm Settings:
   k) Upper limit: 100-250 bpm
   l) Lower limit: 30-100 bpm
   m) Hi and Lo adjustable alarms
   n) Optional Monitoring: NIBP and SpO2
   o) Multiple waveform display and numeric parameters
   p) Facility for enlarged numeric display for distance viewing
   q) Integrated Printer fthermal recording)

3) External Pacing
   a) Pacing Rate: 30-180 pulses/min ±1.5%
   b) Output Current: 10-200 mA ±5 mA
   c) Pulse Width: 20 ms
   d) Pacing Modes: Demand or Fixed Rate
   e) Status Indicators:
   f) ECG lead fault
   g) Pacing lead fault

4) Defibrillation Features
   a) Biphasic technology
   b) Energy Selection Range: 2-200 joules or more
   c) Charge and Discharge Controls: Available on both monitor and paddles
   d) Charging Time: Less than 5 seconds for 200 J
   e) Charge Indicator: Audio and Visual
   f) Internal Discharge: Automatic on shutdown or timeout
   g) Test Charging: Built-in facility against 50-ohm impedance at any level f2-200 J)
   h) Shock Delivery: Via paddles and multifunction disposable electrode pads
   i) Integrated CPR Feedback:

j) Real-time rate and depth of chest compressions

5. Memory and data management

Summary storage in internal memory

a) Event/Trend Review:
b) Graphical and tabular memory up to 24 hours
c) Event recall, alarm logs, time-linked arrhythmia waveform recall
d) Full disclosure function as standard
e) USB/Data Card storage capability
f) Software for data retrieval must be supplied standard

6) Battery and Power
   a) Rechargeable internal battery
   b) Minimum backup: 2-3 hours in monitoring mode
   c) Or 100 defibrillation shocks per full charge
   d) Battery charge indicator
   e) Mains and battery operation

7) Electrodes & Paddles
   a) Integrated, reusable adult and pediatric paddles
   b) Should allow ECG pickup from paddles when electrodes are disconnected
   c) Supplied with 25 disposable pads

8) Expandability & Certification
   a) Upgradable to additional integrated parameters:
   b) EtCO2 monitoring
   c) NIBP
   d) SpO2

ABG Machine

8 Item Code - CARDIO 023

Item Description - ABG ANALYSER

Technical Specifications

1)

Features:

a) Measured parameters: pH, pCO2, pO2, tHb, SO2, Na+, K+, Ca2+, Cl^-, Glucose, BUN, Lactate
b) Color Touch Screen with storage of minimum 200 patient reports
c) Analysis time: 2 minutes
d) Automatic aspiration from syringe and capillary
e) 6-8 hours rechargeable battery backup
f) Built-in thermal printer
g) Must be supplied with starter kit of reagents and QC material
h) Portable system with zero maintenance at user end
i) Cassette storage must be at room temperature fexcept metabolite cassettes)
j) True gas calibration
k) Machine should be able to analyze the sample within 2-3 minutes after switching it 'on'
l) Should be supplied with starter kit of reagents and standard quality control material for at least 1 year use

2)

Compliance & Certifications:
a) Manufacturer/supplier should have ISO 13485 certificate for Quality Standard
b) IEC 60601-1 and EMI/EMC 61326-1 certification
c) RoHS compliance is mandatory
d) Power input range 220-240V AC, 50Hz, fitted with Indian Plug

6. ECG Machine 12 Channel

9,10, 11 Item Code - CARDIO 001
Item Description - High End Multichannel ECG Machine
Technical Specifications

1) Operational Requirements
   a) The ECG machine should acquire all 12 leads simultaneously and interpret them.
   b) Should be portable, with a built-in handle and supplied trolley for easy movement.
   c) Suitable for both adult and pediatric use.

2) Technical Specifications
3) Acquisition & Display

   a) Simultaneous 12-lead ECG acquisition
   b) Capability to record 16-lead ECG using standard 12-lead cable
   c) ST Mapping facility
   d) Real-time color display of ECG waveforms

4) Minimum 8" Color LCD display
   a) Display of all 12 waveforms on-screen for quality assessment before printing
   b) 1-minute cascaded ECG recording and rhythm recording f1 or 3 channels)
   5) Performance Parameters
   a) Sensitivity: 10 mm/mV ±2%
   b) Common Mode Rejection Ratio (CMRR): >100 dB
   c) Frequency Response: 0.05 Hz to 150 Hz
   d) Electrode Check: All electrodes except N fRight Foot)
   e) Waveform Status Detection: Automatic detection of electrode detachment

6) Filtering Capabilities
   a) Filters for:
7) Artifact
8) Hum
9) Drift
10) EMG fElectromyogram) nois
11) Analysis & Interpretation
   a) Interpretation capabilities for:
12) Amplitude
13) Duration
14) Morphology
15) Rhythm abnormalities
   a) Covers approx. 200 clinical findings in 5 judgmental categories
   b) Sampling Rates:
16) Analysis sampling rate: 500 samples/sec
17) Acquisition sampling rate: 8000 samples/sec
   a) Auto-extended recording on arrhythmia detection

b) Alphanumeric keyboard fvirtual or hard keys) for patient ID entry

18) Recording & Printing

a) High-resolution thermal printer, 210 mm paper width

b) Battery backup: Minimum 30 minutes of continuous rhythm recording on a single charge

c) Recording data should include: 19) Program type and version

20) Date and time

21) Paper speed

22) Sensitivity

23) Lead names

24) Filters applied

25) Hospital and patient information fID, name, age, sex

26) Timing and event marks

27) Electrode detachment and noise indications

28) Storage & Data Transfer

a) Inbuilt memory capacity: Minimum 400 ECGs

b) Facility to transfer data via optional data card

29) System Configuration and Accessories

30) Item Quantity

31) ECG Machine with interpretation facility- 1 Unit

32) 12-lead patient cable - 02 Set

33) Chest Electrodes fAdult, Set of 6) 03 Set

34) Thermal Paper f210 mm) 10 Roll

35) Trolley for ECG Machine 1 Unit

36) Environmental & Electrical Safety Standards

a) Must comply with IEC 60601-2-51: Essential performance of single and multichannel ECGs

b) Protection against:

37) Electric shock

38) Defibrillator discharge

39) Harmful ingress of water

a) Power input: 220-240 VAC, 50 Hz

b) Fitted with Indian standard plug

7. Fibroptic Bronchoscope

6 Item Code - ANES025
Item Description - Fiberoptic bronchoscope
Technical Specifications

General Requirements

a) Lightweight, portable flexible fiberoptic bronchoscope supplied with OEM tray system for disinfection and storage.

b) Carrying and storage case to be provided.

c) Demonstration of bronchoscope, light source, and monitor mandatory before finalization of technical evaluation.

2) Flexible Fiberoptic Bronchoscope - Adult

Working length: >600 mm; total length ~900 mm. Field of view: >110°.

a) Depth of field: 3-50 mm.

b) Tip deflection (Up/Down): >130°/130°.
c) Insertion tube diameter: 5.0-5.5 mm.
d) Rigid distal diameter less than insertion diameter.
e) Instrument channel: >2.3 mm.
f) Standard accessories: suction valves, pressure compensation cap, endotracheal tube holder,

3) leakage tester, irrigation adaptor, cleaning brush, insertion tube, sterile plugs.
Flexible Fiberoptic Bronchoscope - Pediatric

a) Working length: >600 mm; total length ~900 mm.
b) Field of view: >110°.
c) Depth of field: 3-50 mm.
d) Tip deflection (Up/Down): >130°/130°.
e) Insertion tube diameter: 3.5-4.0

Rigid distal diameter less than insertion diameter.
f) Instrument channel: >1.2 mm.
g) Standard accessories: suction valves, pressure compensation cap, endotracheal tube holder,
h) leakage tester, irrigation adaptor, cleaning brush, insertion tube, sterile plugs.

4) Light Source
   a) Xenon or equivalent, >100 W.
   b) Operates on 230 V, 60 Hz frequency.
   c) Class 1 protection against electric shock.
   d) Interchangeable auxiliary socket.
   e) Fiberoptic light cable: 4 mm diameter, 250 cm length.
5) Camera
   a) Optional; suitable to connect with fiberoptic bronchoscope via universal coupler. Minimum resolution: 450 horizontal lines; moire filter; automatic gain control.
   c) Zoom lens range: 22-50 mm.

6) Monitor
   a) Medical grade, >19" display.
   b) Capability to document video and still images on data storage card or USB drive fJPEG, MPEG4).
   c) Recall of stored videos and images.
   d) Minimum 8 GB USB flash drive.
   e) Automatic/manual white balance facility on both monitor and scope.
   f) 10+ airway guide cum bite blocks for oral intubation to be provided.

7) Additional Description & Specifications
   a) Bronchoscope f01 Nos.) - adult and pediatric, channel inner diameter, field of view, depth of field, distal end OD, insertion tube OD, working length, bending angulation range, total length to meet above parameters.
   b) Fully immersible in disinfectant and cleaning solution.

8) HD Video Processor and Cold Light Source
a) 300 W Xenon light source with colour temperature ~6000 K; LED lamp as auxiliary/backup.
b) Automatic light adjustment for optimum brightness.
c) CCD colour system.
Two spare bulb of Same quality.

d) Compatible with all scopes, ultrasound endoscope, and capable of digital image transmission.
e) Manual and automatic brightness control modes.
f) Extra illumination facility apart from brightness control.

Surface and vessel analysis capability for lesion identification and pit pattern classification.

9) Monitor
   a) High-resolution, >19" HC-LED medical grade.
   b) Video Recording & Reporting System
   c) PC from standard manufacturer with latest processor and OS.
   d) Recording software and colour laser printer.
   e) Compatible with still/live recording and report generation; minimum 1 TB memory. Windows 8 or later.
10) Accessories
   a) Leakage tester.
   b) Valves.
   c) Bite block.
   d) Cleaning brush.
   e) Cytology brush.
   f) Biopsy forceps

g) Maintenance kit.
   h) UPS with 1-hour backup.
11) Other Requirements
   a) The system shall be compatible with diagnostic and therapeutic high-frequency treatment devices.

   b) It shall provide enhanced mucosal imaging through digital filter contrast enhancement or narrow-band imaging (NBI) technology

c) The light source lamp life shall be **greater than 500 hours**.

d) An **integrated trolley** shall be supplied for the complete system.

e) Power supply requirement: **220 V ±10%, 50 Hz AC**.

f) A **good-quality, sturdy trolley** suitable for hospital use shall be supplied.

Cardiac

Item Code - CARDIO 003

Item Description - HOLTER

Technical Specifications

1. SOFTWARE:

a) System should have following software and capabilities as standard
b) The system should work on Licensed Windows software.
c) More than72 hours Ambulatory ECG Recording & Analysis Software.
d) ST Measurement software with a ST trend and measurement values.
e) Heart Rate Variability Software with HRV differential histogram, HRV histogram, HRV scatter plot.
f) Colour coded HRV Power Spectrogram in terms of low power, middle range power and high-power
g) values.

h) HRV tabular summery should be available.
i) The values of HRV histogram and HRV differential histogram should be exported to a CSV file.
j) HRV Analysis in time &frequency domain.
k) Pacemaker Analysis should be there with PM-PM histogram, PM-R histogram and the values of these
l) histogram should be exported to a CSV file.
m) Pacemaker analysis tabular summery should be there with Undefined paced, Fusion, Atrial paced,
n) Ventricular paced Dual chamber paced, PM Failed to Capture, PM Failed to Sense, PM Failed to Pace and Total paced data.
o) ECG Template matching software
p) Should detect P wave accurately for atrial fibrillation screening
q) Should have specialized Graphical software for detection of onset of Atrial Fibrillation
r) Should have atrial analysis
s) Should have QT analysis
t) Should have RR Interval measurement Beat by Beat
u) Should have Artifact Detection Software and automatic exclusion of artifact.
v) Should have calipers for measurements of time in msec and heart rate and preferably amplitude
w) measurement.
x) Should have apnea analysis
y) Should have specialized Graphical representation software to provide information on sleep quality
z) and level of stress
aa) Should have an easy view of ECG of all leads
bb) • Should have coloured Graphical Representation of QT intervals, PT Intervals & ST Alteration forperiod of test

Should be able to save the complete test report as PDF format

- Should be able to send the data via e-mail.
- System should allow user to reclassify the complex as well as ECG templates.
- Should allow the user to make different work flow patterns.

aa) Should give the Tabular Summary showing all recorded ECG details.
bb) Should have strip marking and strip directory.

1. B. HARDWARE:

cc) Recorder should be compact and lightweight.
dd) Weight should not be more than 130gms without battery.
ee) Should have sampling frequency of atleast 30000 Hz
ff) Should record 3 Channels with 5/7 lead patient cable
gg) Same recorder should have capability of measuring derived 12 Lead from 3 channels
hh) Should have 16 GB removable Compact flash card & capable of storing 24/48/72hours and more of ECG.
ii) Data should be transferred/analyzed via SD card reader.
jj) Should have display to check pre-hook-up ECG quality.
kk) Should have an option of selecting the resolution of recording. The maximum resolution of the recording should be 1024 Hz with storage rate of 1024Hz: 12 bits.
ll) Should detect Apnea, QRS, P Wave.
mm) Should have Event Marker / Patient Marker button on the recorder.
nn) Should record for more than 7 days of Holter recording.

oo) Should use single AAA battery to record 48/24 hrs of ECG.
pp) Should also have internal rechargeable battery so that if in case the AAA battery depletes internal battery takes over the recording without any break
qq) System should print all the Holter Test Report on Laser Printer on ordinary paper & not on Thermal Chart Paper.
rr) Recorder should be supplied with 5/7 Lead patient cable to measure all derived 12 leads.

1. C. Storage System:
2. System with data storage facility with following configuration

3) Windows Licensed Software
4) i 7 Processor
a) TB HDD
5) RAM: 4 GB
6) DVD Writer
7) Cabinet with SMPS
8) 24-inch LCD Touch screen monitor
9) Black & White Laser Printer

10) Suitable Table for placing data storage system

1. Standards: Protection Class: should not be less than IP22. Manufacturer/supplier shouold have ISO 13485 certificate for Quality standard.
11) IEC 60601-1 and EMI/EMC 61326-1 certification.
12) RoHS compliance is must.
13) Power input range 220-240V AC, 50Hz, fitted with Indian Plug.
14) Accessories/Consumables:
a) Nos. 5/7 lead patient cable.

9. Defibrilator (EQP0041)

4,5 Item Code - ANES008
Item Description - Bi-Phasic Defibrillator with PACEMAKER
Technical Specifications

1) Operating Modes
   a) Manual and AED fAutomatic External Defibrillator
   b) Synchronized and Asynchronized cardioversion fSync/Async modes displayed on monitor and recorder)
   External Pacing capability ftranscutaneous)
   c) CPR Advisory System:
   d) Real-time graphic and numeric display of compression and ventilation rate
   e) Audio-visual prompts for correction and feedback
2) Display & Monitoring

a) High-resolution color TFT display, minimum 7-8” or more
b) Display Resolution: 800 x 600 pixels
c) ECG Display:
d) Through paddles and electrodes
e) Adjustable ECG size f5 levels)
f) Audio-visual R-wave detection indicator
g) Optional: 12-lead ECG monitoring
h) Sweep Speed: 25 mm/sec

i) Heart Rate Indicator Range: 15-300 bpm
j) Alarm Settings:
k) Upper limit: 100-250 bpm
l) Lower
limit: 30-100 bpm
m) Hi and Lo adjustable alarms
n) Optional Monitoring: NIBP and SpO2
o) Multiple waveform display and numeric parameters
p) Facility for enlarged numeric display for distance viewing
q) Integrated Printer fthermal recording)

3) External Pacing
a) Pacing Rate: 30-180 pulses/min ±1.5%
b) Output Current: 10-200 mA ±5 mA
c) Pulse Width: 20 ms
d) Pacing Modes: Demand or Fixed Rate
e) Status Indicators:
f) ECG lead fault
g) Pacing lead fault

4) Defibrillation Features
a) Biphasic technology
b) Energy Selection Range: 2-200 joules or more
c) Charge and Discharge Controls: Available on both monitor and paddles
d) Charging Time: Less than 5 seconds for 200 J
e) Charge Indicator: Audio and Visual
f) Internal Discharge: Automatic on shutdown or timeout
g) Test Charging: Built-in facility against 50-ohm impedance at any level f2-200 J)
h) Shock Delivery: Via paddles and multifunction disposable electrode pads
i) Integrated CPR Feedback:
j) Real-time rate and depth of chest compressions

5) Memory and Data Management
a) Summary storage in internal memory
b) Event/Trend Review:
c) Graphical and tabular memory up to 24 hours
d) Event recall, alarm logs, time-linked arrhythmia waveform recall
e) Full disclosure function as standard
f) USB/Data Card storage capability

g) Software for data retrieval must be supplied standard
Battery and Power

a) Rechargeable internal battery
b) Minimum backup: 2-3 hours in monitoring mode
c) Or 100 defibrillation shocks per full charge
d) Battery charge indicator
e) Mains and battery operation

7) Electrodes & Paddle
a) Integrated, reusable adult and pediatric
b) paddles

c) Should allow ECG pickup from paddles when electrodes are disconnected
d) Supplied with 25 disposable pads
8) Expandability & Certification
e) Upgradable to additional integrated parameters:
f) EtCO2 monitoring
g) NIBP
h) SpO2

10. ECG Machine 12 Channel (EQP0045)

10 Item Code - CARDIO 001
Item Description - High End Multichannel ECG Machine
Technical Specifications

40) Operational Requirements
a) The ECG machine should acquire all 12 leads simultaneously and interpret them.
b) Should be portable, with a built-in handle and supplied trolley for easy movement.
c) Suitable for both adult and pediatric use.

41) Technical Specifications
42) Acquisition & Display
a) Simultaneous 12-lead ECG acquisition
b) Capability to record 16-lead ECG using standard 12-lead cable
c) ST Mapping facility
d) Real-time color display of ECG waveforms

43) Minimum 8" Color LCD display
a) Display of all 12 waveforms on-screen for quality assessment before printing
b) 1-minute cascaded ECG recording and rhythm recording f1 or 3 channels) 44) Performance Parameters
a) Sensitivity: 10 mm/mV ±2%
b) Common Mode Rejection Ratio (CMRR): >100 dB
c) Frequency Response: 0.05 Hz to 150 Hz
d) Electrode Check: All electrodes except N fRight Foot)

e) Waveform Status Detection: Automatic detection of elect 45) Filtering Capabilities
a) Filters for:
46) Artifact
47) Hum
48) Drift
49) EMG fElectromyogram) nois
50) Analysis & Interpretation
a) Interpretation capabilities for:
51) Amplitude rode detachment

52) Duration
53) Morphology
54) Rhythm abnormalities
a) Covers approx. 200 clinical findings in 5 judgmental categories
b) Sampling Rates:
55) Analysis sampling rate: 500 samples/sec

56) Acquisition sampling rate: 8000 samples/sec
a) Auto-extended recording on arrhythmia detection
b) Alphanumeric keyboard fvirtual or hard keys) for patient ID entry
57) Recording & Printing
a) High-resolution thermal printer, 210 mm paper width
b) Battery backup: Minimum 30 minutes of continuous rhythm recording on a single charge
c) Recording data should include:

58) Program type and version
59) Date and time
60) Paper speed
61) Sensitivity
62) Lead names
63) Filters applied
64) Hospital and patient information fID, name, age, sex)
65) Timing and event marks
66) Electrode detachment and noise indications
67) Storage & Data Transfer
a) Inbuilt memory capacity: Minimum 400 ECGs b) Facility to transfer data via optional data card
68) System Configuration and Accessories
69) Item Quantity
70) ECG Machine with interpretation facility- 1 Unit
71) 12-lead patient cable - 02 Set
72) Chest Electrodes fAdult, Set of 6) 03 Set
73) Thermal Paper f210 mm) 10 Roll
74) Trolley for ECG Machine 1 Unit
75) Environmental & Electrical Safety Standards
a) Must comply with IEC 60601-2-51: Essential performance of single and multichannel ECGs b) Protection against:
76) Electric shock
77) Defibrillator discharge
78) Harmful ingress of water
a) Power input: 220-240 VAC, 50 Hz
Fitted with Indian standard plug

11. Infusion Pump

12 Item Code - CCM004
Item Description - INFUSION PUMP
Technical Specifications

a) The volumetric infusion pump should be programmable, user-friendly, should have battery backup and a comprehensive alarm system, and should be compatible with all standard pressure tested IV administration sets.
b) Flow rate range: 0.1 - 1200 ml/h in 0.01 ml/h steps

c) Calculation of the rate by selecting the time and volume should be possible.
d) Rate can be changed without stopping the infusion.
e) Pump should be compatible with all standard pressure tested IV administration sets.
f) Volume pre-selection from 0.10 to 9999 ml in 0.01 ml steps.
g) Time pre-selection from 00h01min to 99h59min total.
h) Reset of infused volume should be possible without flow interruption, and residual volume
    i. can be viewed with a single key press.

9) Should be suitable for TIVA applications.
10) Automatic calculation of the flow rate on the basis of dosage units in mg, pg, ng, IU, mmol, or mEq, time-based and optionally weight-based fe.g., mg/kg/min; mg/kg/h; mg/kg/24h) should be possible.
11) Bolus rate should be 1-1200 ml/h in 0.01 ml/h steps.
12) Both automatic and manual bolus should be possible with pre-selectable volume and time.
13) Bolus in mg, pg, IE, mmol, mEq, and optionally weight-based fDosage Unit/kg) as well as in ml, with automatic calculation of bolus rate after bolus infusion.
14) Standby possible with standby time adjustable from 1 min to 24 hours in 1 min steps.
15) Customizable drug library with capacity for 3000 drugs, up to 30 categories, and 15 different patient profiles.
16) Assignment of different colors per drug f8 colors) should be possible.
17) Drug library should have hard limits and soft limits for flow/dosage rate to reduce medication errors.
18) Centralized upload possible for updates.
19) Pressure level configurable for each individual drug.
20) Display drug name up to 34 characters with Tall Man lettering.
21) Occlusion pressure settings adjustable in 9 levels from about 0.67 bar to 1 bar f50 mmHg to 750 mmHg).
22) Key/function lock should be easily accessible with one key press.
23) State-of-the-art Lithium-Ion battery with 9 hours operating time at 100 ml/hr and recharging time of 3 hours.
24) Automatic battery charging during connection to mains.
25) Switchover from mains to battery operation without data loss or input loss.
26) Battery retains >90% of initial charge after 12 months of storage.
27) Flow accuracy typically ±5% including disposables according to IEC 60601-2/24.
28) Weight should be 1.9 kg or less.
29) Colour display readable at an angle of 80 degrees, 240 x 320 pixels with 262K colours.
30) Guiding pictures should be present on display.
31) Night mode with reduced display brightness with manual adjustment and automatic adjustment according to time schedule.
32) Stackable - minimum 3 and maximum 18 units with stacking station accessory.
33) Pump can be upgraded to communicate via LAN, Serial, and Wi-Fi interface.
34) Pump should have optical and acoustic alarm signals with on-screen help text of alarm and cause.
35) Alarm priority with drug categories during alarm should be available.
36) Pre-alarms for battery, time, volume, KVO.
37) Alarms for battery, volume, time, high pressure in system, KVO ended, standby expired, and drug name visible in alarm mode.
38) Compliance with IEC 60601 standards f3rd edition).
39) Pump should be able to protect against accidental activation by an external system, PC, or PDMS by selection of various operating modes.
40) Software update via interface of the pump.

41) Key lock fmenu button) easily accessible with one key press.
42) Fluid ingress protection - IP34 certified for protection against splashing water from all directions.
43) Power supply: 100-240 V, 50-60 Hz.
44) Power consumption less than 20 watts.
45) Accessories/Consumables:
    a. Clamp for mounting pump on IVstand, 200 Infusion Tubing

12. **Wheelchair**

13 Item Code - CCM017
Item Description - Wheel chair
Technical Specifications

2) Overall size 650 to 700 mm W x 1100 to 1200 mm D x 900 to 1000 mm H.
3) Should be made of 16-gauge SS304 grade tube frames and 16-gauge SS304 sheet for seat &
4) back rest.
5) Should have a fixed armrest.
6) Should have reticulated and breathable cushion.
   Should have minimum 6 swivel nylon caster front wheel, 24" bicycle type rear wheel with
7) pneumatic tyre.
8) Two handles are provided with hand grips.
   Back wheel fixing bolts shall be covered with cup type nut.
9) Should have braking system on both sides.
10) All pipes & footrest should be made of aluminum.
11) ENVIRONMENTALANDDEPARTMENTALCONSIDERATIONS Easy to clean.

13. **Syringe Pump**

Item Code - CTVS026
Item Description - Syringe Pump
Technical Specifications

1) Infusion Syringe Pumps:
2) The syringe pump should be programmable, user friendly, should have battery backup and comprehensive alarm system.
3) Flow rate range should be:
    a. 0,01 - 999,9 ml/h
    b. 0,01 - 999,9 ml/h in 0,01 ml/h - Steps
4) Calculation of the rate by selecting the time & volume should be possible
5) Rate can be changed without stopping the infusion
6) Pump should detect the syringe size automatically and should be compatible to all syringe sizes from 2/3 ml, 5 ml, 10 ml, 20 ml, 30 ml, 50/60 ml
7) Volume pre-selection:
    a. 0,10 - 9999 ml in 0,01 ml - Steps
8) Time pre-selection:

    a.

b. 00h01min - 99h59min Total

Reset of infused volume should be possible without flow interruption and residual

9) volume can be viewed with single key press

Dosage Calculation:

a. Should be suitable for TIVA applications
b. Automatic calculation of the flow rate based on dosage units in mg, pg, ng, I

10) mmol or mEq time-based and optionally weight-based fe.g. mg/kg/min; mg/kg/h. mg/kg/24h) should be possible
11) Bolus rate Should be 1-1800 ml/h in 0,01 ml/h - Steps
    a. Automatic and manual bolus both should be possible with pre-selectable volume &
    b. time
    Bolus in mg, pg, IE, mmol, mEq und optionally weight-based fDosage Unit/kg)
12) as well as in ml; additionally automatic calculation of bolus rate after bolus infusion 13) Standby possible
    a. Standby time adjustable from 1 min to 24 hours in 1 min-steps
14) Integrated Drug Library or Dose Error Reduction Software:
    a. Customizable 3000 drugs drug library should be utilized in the pump with up to 30 different categories and 15 different patient profiles
    b. Assignment of different colors per drug f8 colours) should be possible
    c. Drug library should have Hard limits &Soft limits for Flow/ Dosage rate to reduce the medication errors.
    d. Update: centralized upload possible
    e. Pressure level is configurable for each individual drug
    f. Display drug name up to 34 characters and Tall Man lettering for drug names
15) Occlusion Pressure settings should be adjustable in 9 levels from about 0.1 bar - 1.2 bar f75 mm Hg to 900 mmHg)
16) Key/Function Lock should be there and easily accessible with one key press
17) Battery Operation:
    a. State of the art technology Lithium-Ion battery with battery operating time of 12 hrs at 25 ml/hr& recharging time of 3 hrs
    b. Automatic battery charging during connection to mains
    c. Switchover from mains to battery operation without data loss or loss of input
    d. battery retains > 90% of initial charge after 12 months storage
18) Flow accuracy typically +/-2% including disposables acc. IEC 60601-2/24
19) Pump should have Semi-automatic drive to prevent unintentional bolus during syringe changes and to optimize the start-up time
20) Colour display which can be read at an angle of 80 degrees
21) Colour display: 240 x 320 pixels with 262K colours
22) Guiding pictures should be there on display
23) Pump should have Nightmode with reduced display brightness with manual adjustment and automatic acc. time schedule
24) Pumps can be stackable minimum 3 and maximum 18 with additional accessory of stacking station
25) Pump should be capable to communicate via LAN, Seriel and Wi-Fi interface

26) . Alarm signals:
    a. Pump should have optical and acoustic signaling with on screen help text of alarm and alarm cause
    b. Alarm priority with drug categories during alarm should be there
27) Pre-Alarms:
    a. Battery, time, volume, KVO
28) Alarms:
    a. Battery, volume, time, pressure in system is too high, KVO ended, Standby expired, Drug name visible in alarm mode
29) Control of the infusion pump in accordance with the standards and safety
30) requirements according to IEC 60601 ff possible f3rd edition)
    a. Software update via interface of the pump
    b. KeyLock fMenu-button) easily accessible with one key press
31) Fluid ingress protection should be IP34 certified which will give protection against splashing water from all directions
32) . Power Supply: 100-240 V, 50-60 Hz
33) Power consumption should be less than 20 watts
34) Weight of the pump should be 2.3 kg or less

RO Plant For haem
15 Item Code - CTVS027
Item Description - Haemodialysis machine
Technical Specifications

1) HD Machine with OCM, BPM
    a. Should be microprocessor controlled & capable of providing therapies such as Conventional HD, Online HDF, HF & features such as online priming, Acetate & Bicarb dialysis, High resolution TFT touch screen with functional keys.• Volumetric UF, Sodium/UF profiling, Online help options fin case of alarm), BPM, OCM & provide cumulative graphical display of treatment data & physiological trends including sodium & should display different menus indicating blood system, preparation, dialysate, UF, Treatment.
    b. UF profiles, Reinfusion, Cleaning, System parameters & Safety Features: Should be a closed system design with volumetric dilution of concentrates, screensaver option, with RO water & volumetric UF. Self-test after switching ON, startup TI test before each treatment to ensure functioning of all hardware components.
2) Performance Requirement
3) 1. Blood Circuit:
    a. Vascular Access: Single needles click-clack should be available. Blood pump with feature such as flow range of 20-600 ml/min, with 10 ml increments adaptable to standard A- V bloodlines. An emergency hand crank should be provided to enable reinfusion in case of power failure.
    b. Heparin Pump: Should be automatic or manual start/stop, with infusion rate of 0.5-10 ml/hr in 0.1 ml/hr increments. Heparinization stop time should be user-adjustable in 1 min increment, and positive/negative extracorporeal blood circuit pressure should not affect infusion rate. Auto bolus administration should be programmable from 1-20 ml.
    c. Pressure Monitoring & Alarms: Venous pressure monitoring & adjustment in case of alarm condition fRange: -100 to +500 mmHg). Arterial pressure monitoring & adjustment in case of alarm condition fRange: -300 to +300 mmHg).
    d. Air Detection: 1 ultrasonic design & should be activated for air & micro bubbles over the entire blood flow range. Sensitivity of detection mechanism should be specified in

terms of air bubble size, and on detection of excessive air, venous clamp should activate & blood pump should stop.

4)

Dialysis Circuit:

a. Treatment / Therapies:

5) Should facilitate Acetate & Bicarbonate dialysis. Variable sodium & bicarbonate options. Volumetric UF & Sodium / UF profile option.

a. Dialysate Flow Rates:

6) A range of 100-1000 ml/min should be available, with resolution of 100 ml/min, with accuracy ±10%.

a. Temperature Control & Alarm:

7) Control Range: 34.0 to 39.0 °C with 0.5 °C increment.

8) Alarm Limits: 33.5 to 40.0 °C.

a. Conductivity Control & Alarm:

9) Range: 12 to 16 mS/cm.

10) Accuracy: ±0.1 mS/cm.

a. Blood Leak Detection:

11) Photodetector used, and alarm should be activated for blood loss.

a. Volumetric UF:

12) Control Range: 0-4 L/hr, given by set values of UF volume & treatment time, with accuracy ±1%.

13) TMP monitoring: -100 to +400 mmHg.

14) Isolated ultrafiltration process should be provided.

15) Equipment should be capable of on-line preparation of bicarbonate dialysis fluid & it should be handled by one hand only.

a. Ultra-pure Dialysate Filter:

16) Should have hygienic connection for ultra-pure dialysate filter.

17) Should have endotoxin retention capacity not less than 106 IU.

18) Machine should have an automatic program to change filter, including emptying & filling cycles.

19) Filter should have a lifespan not less than 12 weeks or 100 treatments.

20) Filter should be arranged in crossflow setting & equipment should perform flushing during treatment automatically every 1 hr.

21) Filter change reminder should be available.

22) Online Fluid Circuit fFor HDF):

23) Both options of pre-dilution & post-dilution of blood should be available.

24) Automatic control substitution program with pre/post dilution identity integrate function, dialyzers integrate function, effective blood flow rate integrate.

25) Dialysis Parameter Display:

26) Equipment should display the following parameters:

a) Arterial Pressure
b) Venous Pressure
c) Blood Flow Rate
d) Dialysate Conductivity
e) TMP
f) UF Volume
g) UF Rate
h) Remaining Treatment Time
i) Heparin Infusion Rate
j) Alarm Information, etc.

27) Online Clearance Monitor:
28) Equipment should have inbuilt measurement & monitoring of effective Urea clearance, Dialysis dose fKt/v), & Plasma sodium during dialysis.
29) This measurement should be done without any additional cost & disposable during each treatment. Blood pressure monitor: equipment should have built in non- invasive device for 30) "This measurement should be done without any additional cost & disposable during each treatment.
31) Blood Pressure Monitoring:
32) Equipment should have built-in non-invasive device for measuring the patient's blood pressure automatically.
33) Cuff Pressure Range: 10-325 mmHg or wider choice
    a. Systolic Range: 30-280 mmHg or wider choice
    b. MAP Range: 20-255 mmHg or wider choice
    c. Diastolic Range: 10-240 mmHg or wider choice d. Pulse Rate Range: 20-245 /min or wider choice
34) Alarm Values Should Be:
    a. Systolic: 90 & 165 mmHg
    b. MAP: 70 & 120 mmHg
    c. Diastolic: 50 & 100 mmHg
    d. Pulse: 40 & 150 /min

35) Battery Backup:
36) The equipment should be able to operate and monitor the extracorporeal circuit without interruption for 20-30 minutes in case of AC power failure by backup battery.
37) Disinfection and Cleaning:
38) Both chemical and heat disinfections should be performed.
39) Sodium hypochlorite should be used as cleansing disinfectant.
40) Various programmable cleansing cycles should be provided with different phases and timings in accordance with different disinfectants.
41) Should be one-touch fully automatic operation including:
    a. Pre-rinse
    b. Chemical intake for combined disinfection & decalcification
    c. Post-chemical mandatory rinse
    d. Automatic power-off

42) All without the need of any end-user handling during the entire disinfection process.

15. High End Multipara Moniter

16 Item Code - MED001
Item Description - High End Multipara Monitor
Technical Specifications

1) Multipara Modular monitor minimum 15 inches TFT color Display with touch screen facility with
2) resolution of minimum 800 X 600 dots. It should have HL7 gateway to connect the HIS & CIS. Monitor must be capable of simultaneously monitoring the following parameters which should be present as standard in all monitors: ECG, NIBP, SpO2, Respiration, Dual temperature, HR, Dual IBP.
3) Monitor should have ports available for measurement of Mainstream ETCO2, Cardiac Output &

BIS for Adults.

4) Monitor should be upgradable for 8 Channel EEG monitoring & non-invasive cardiac output along
5) with hemodynamic graphs for sepsis treatment.
6) cardiac output along with hemodynamic graphs for sepsis treatment.
ETCO2 technology should be Mainstream ETCO2 for monitoring ETCO2 during small samples availability in case of neonatal patients and both invasive & non-invasive method of ETCO2
7) measurement should be available.
Drug calculation, Lung function, Hemodynamic data and Oxy CRG screen should be available as
8) standard.
9) Monitor should have facility to display at least 12 waveforms
Patient modes Adult, Pediatric, & Neonate
10) ECG 3/6L Input: Isolated and floating 3/6 leads. Protect against surges produced by Electro surgical and Defibrillator potentials and should have built in advance arrhythmia monitoring on all leads.
11) Monitor should have facility to monitor 12 Lead ECG through 10 Lead ECG cable along with ECG analysis & report.

12) Should have facility to detect advance arrhythmias fat least 23 different types) and should show number of arrhythmias occurred with ECG waveform for last 72 hours.
13) Monitor should have facility to store minimum 1600 arrhythmia episode.
14) Monitor should have facility for Full Disclosure of ECG and 4 other parameters of last 24 hours. 15) Monitor should have facility of ST Recall
16) Monitor Should have Facility of Interbed display up to 20 beds.
17) Heart Rate Range Adult: 30-200 bpm, Child and neonate - 30 to 250 beats/min.
18) PR Source: Auto/SpO2/NIBP
19) Respiration Range: 0-150 breaths/min.
20) Temperature - Measurement range: 1 C-45 degree C, Unit: C or F, user selectable
21) SpO2: Measurement should be possible in low perfusion with any of the following technologies: Masimo SET/Nihon Kohden/Fast/ NellcoreOximax. fClinical papers for low perfusion measurement to be submitted)
22) Measurement Method: Two wavelength light absorption method.: -
23) Measurement range: 0-100% Accuracy Adults: 70-100% +/- 2 digit, 0-69% unspecified.
Accuracy Neonates: 70-100% +/- 3 digits, 0-69% unspecified, Pulse rate range: 30 to 300 bpm. 24) Monitor should display perfusion IndexfPI%) from SPO2 as an indication of pulse strength at the sensor site.
25) NIBP Method: Oscillo metric, Display: Systolic, Diastolic and Mean, Modes: Manual, Auto, Stat &Venius puncture mode. Auto mode intervals: 2,4,5,10,15,30,60,90,120,240 and 360 mins. Unit :mmHg or kPa, Range: 0-300 mmHg, Accuracy: +/- 3 mmHg
26) Alarms: Equipment alarms: Audio alarm Beep) Visual flashing Blue LED), Patient alarms: Audio fAlarm Beep), Red LED fHigh priority), Yellow LED fMedium Priority)
27) Alarms suspend: Continuous RED LED with display of alarm crossed bell.
28) Machine must have facility for alarm escalation in case nursing staff miss the alarm.
29) Monitor shall provide the capability to interact with alarms at remote bedsides monitor. 30) Alarm limit status fON/OFF) must be indicated on-screen for each parameter and actual parameter alarm settings must be displayed on-screen when alarms are on.
31) Invasive Blood Presure fIBP) - Calculation - CPP, PPV, SPV, CVP-ET
32) Auto zero balancing range +/- 200 mmHg Auto
33) Zero balancing accuracy: +/- 1mmHg
34) Monitor should have facility to measure dynamic preload parameter such as Pulse pressure variation, or Systolic pressure variation.

35) ETCO2 - Mainstream - CO2 measuring range - 0 to 100mmHg
36) CO2 value display update cycles every 4 sec or when alarm is generated.
37) Must be able to store & display the 72 hours beat by beat waveforms for 4 or more selected parameter by the user.
38) Trends-Data storage: 24 Hrs up to 6 parameters can be user selectable for 3 separate graphical windows.
39) Graphical Trend:
40) Tabular Trend: 30 sec. 1min, 2min, 4min, 8min, 15min, 30min & 60min
41) Alarm Trend recall): minimum 8000 events
42) Monitor must be field upgradeable to 8 channel EEG Monitoring.
43) Monitor should be upgradable to provide remote viewing of real time waveforms through
44) internet.
45) Monitor shall permit the optional ability to receive and display information from another patient devices such as ventilators.
46) Battery Back up - Minimum 1 Hour or higher
47) Accessories/Consumables:

48) 1 unit of SPO2 Sensors
49) 1 unit of NIBP Cuff
50) 1 unit of NIBP tubing
    a) Temperature probe f one for skin and 1 for rectal)

Multiparamoniter 5 Parameter

ECG patient Connectors that are sterilisable
and resusable are acceptable though resusable cables that attach to
diaposable Connection Patches Ae Preferred.
Multichannel (up to 12 leads) ECG Measurement and selectable
display of upto 5 leads at a time. Temperaturre probe to be resable,
Extemal skin contact type.
Temperaure Rang at Least 30 to 40 Deg C.
minium gradation 0. 1 deg C.
Heart rate measurement range to be at
least 30 to 250 Bpm. with accuracy Better
then +_5 bpm and minimum Gradation 1 bpm. Blood pressure
monitoring range at least
30 to 300 mmHg. minimum gradation 1 mmHg.

Bedside Screen

Frame materiel Mild Steel, Number of Panels are 3 folds colour is green, and curtain Material is cotton and Hight is 7ft, Number of Wheels 6 Diamansion 240x172x4 cm.

Multiparamoniter 3 Parameter

Heart Rate Measurement Range to be at least
30 to 250 Bpm.with accracy batter thn +_ 5 bpm
and mininm gradation 1 bpm
Spo2 measurement rang at least
40-70 range and better than +_ 3%
For 70-99 range and minimum gradation 1%
Blood perssure monitoring range at
least 30 to 300 mmHg. minimum gradation 1 mmHg. Respiration rate
mesurement range at
leat 0to 100BPm. minimum Gradation 1 bpm.
Trand display of each parametor over
at least pravious 24 Hours to be selectable
TFT Screen.

TFT Display cardiac monitor with defibrilator with pacing

Minimum 100 discharge of 300J with fully charged new battery. Optional enhancement: AED, NIBP, MASIMO, SPO2 either pacing of capnography (CO2)

20. **Over Bed Table/Cardiac Table**

The Daksh Over Bed Cardiac ICU Table (Height Adjustable-2050A is a meticulousy designed solution tailored to meet the specialized needs of cardiac care units. This versatile over bed table is crafted with precision and functionality, providing a reliable platform for medical professionals to conduct cardiac examinations and procedures efficiently. Whith a focus on adaptability and ergonomic design, this table is equipped to enhance patient care in intensive care settings.

21. **Multipara**

Multipara Monitor		
Version no.:		02
Date:		September 2023
Done by: (name/institution)		HCT/NHSRC
NAME AND CODING		
GMDN name		Patient Monitors/Monitoring Systems.
GMDN code(s)		CT1444
GENERAL		
1. USE		
1.1	**Clinical purpose**	Designed to continuously measure and display multiple vital physiological parameters of patients, especially those under critical care.
1.2	**Clinical department/ward**	All Departments
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	**Technical characteristics**	1. Multichannel (up to 12 leads) ECG measurement and selectable display of upto 5 leads at a time. 2. Temperature probe to be reusable, external skin contac type Temperature range at least 30 to 40 deg C, minimur gradation 0.1 deg C. 3. Heart rate measurement range to be at least 30 to 250 bpm, with accuracy better than ± 5 bpm and minimum gradation 1 bpm. 4. SpO2 measurement range at least 40-70 % and 70 to 99 %, with accuracy better than ± 1% for 40-70 range and better than ± 3% for 70- 99 range and minimum gradation 1%. 5. Blood pressure monitoring range at least 30 to 300 mmHg minimum gradation 1 mmHg. 6. Respiration rate measurement range at least 0 to 100 bpm, minimum gradation 1 bpm. 7. Trend display of each parameter over at least previous 24 hours to be selectable. 8. LCD screen for displaying all parameters. 9. Audio Visual alarms required: high and low levels for each parameter (operator variable settings), sensor / wire /
2.2	**User's interface**	LCD display
2.3	**Software and/or standard of communication**	In-built
3. PHYSICAL CHARACTERISTICS		
3.1	**Dimensions (metric)**	Screen size minimum 8"X6".
3.2	**Weight (lbs, kg)**	Light weight
3.3	**Noise (in dBA)**	<50dB.
3.4	**heat dissipation**	Should maintain nominal temperature and the heat should be disbursed through an exhaust cooling fan
3.5	**Mobility, portability**	Portable
4. ENERGY SOURCE		
4.1	**Power Requirements**	220 +/- 10% VAC, 50 Hz

4.2	**Battery operated**	Yes
4.3	**Protection**	Electrical protection provided by fuses in both live and neutral supply lines
4.4	**Power consumption**	To be specified by manufacturer
	5. ACCESSORIES, SPARE PARTS, CONSUMABLES	
5.1	**Accessories (mandatory, standard, optional) Spare parts (main ones) Consumables/reagents (open, closed system)**	2 pairs, 12 lead ECG cable. 5 sets of ECG connection electrodes (if reusable type). 5 lead ECG cable. Two reusable SpO2 probes for infant use. Two reusable neonatal cuffs. Two external skin temperature probes. Two sets of spare fuses (if non-resettable fuses used). 5 tubes electrode gel (if required).
	6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS	
6.1	**Atmosphere/Ambiance (air conditioning, humidity, dust ...)**	Operating condition: Capable of operating continuously in ambient temperature of -10 to 60 deg C and relative humidity of upto 90%.
6.2	**User's care, Cleaning, Disinfection &**	To be specified by manufacturer.
	7. STANDARDS AND SAFETY	
7.1	**Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/or international**	1. Should be CDSCO approved. 2. Should comply with BIS standards. 3. Should comply with USFDA/European CE standards incase of non-availability of BIS standards. 4. Should conform to ISO 13485 quality standards. 5. Should conform to IEC 60601-1 General requirements of electrical safety standards.
	8. TRAINING AND INSTALLATION	
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	To be specified by manufacturer and compatible electrical accessories as per Indian standard set-up.
8.2	**Requirements for sign-off**	Supplier to perform safety and operation check before hand over.
8.3	**Training of staff (medical, paramedical,**	Training of users in operation and basic maintenance shall be provided.
	9. WARRANTY AND MAINTENANCE	
9.1	**Warranty**	• 03 years • Preventive Maintenance visits at least once in each quarter.
	10. DOCUMENTATION	

10.1	**Operating manuals, service manuals, other manuals**	Should provide 2 sets (hard copy and soft copy) of: 1. User, technical and maintenance manuals should be supplied in English/Hindi language along with machine diagrams. 2. Service and operation manuals (original and Copy) to be provided. 3. Satisfactory certificate for any existing installation from government hospital
10.2	**Other accompanying Documents**	List of essential spares and accessories, with their par number and cost.
11. NOTES		
11.1	**Other information**	Contact details of manufacturer, supplier and local service agent to be provided.
11.2	**Recommendations or Warnings**	Any recommendations for best use and supplementary warning for safety should be declared.

22. **Eto**

Verin no. ggggg	1
Date	5/12/201
Done by: (name / institution)	HCT/NHSR

NAME AND CODING		
GMDC name		Ethlene Oxide Sterilizer
GMDC code		NA
GENERAL		
1.1	Clinical purpose	(EO or ETO) gas is commonly used to sterilize objects sensitive to temperatures greater than 60 °C and / or radiation such as plastics, optics and electrics. Ethylene oxide treatment is generally carried out between 37 and 60 °C with relative humidity above 30% and a gas concentration between 200 and 800 mg/L and a contact time of at least three hours.
1.2	Used by clinical department/ward	
TECHNICAL		
2.1	Technical Characteristics (specific to this type of device)	1. Interior made of 304 stainless steel mirror sterilization,anti-corrosion. 2. Equipped with antigerm barrier layer. 3. Double protective doors, insulation, sealing and leak-proof. 4. Sterilization process automatic computer control, LCD/digital panel display. 5. anti-leak vacuum pumping system. 6. automatic humidification system 7. automatic heating system 8. Auto exhaust system should be sound proof. 9. Efficiency and prevent environmental pollution discharge residua heating air purification system 10. Auto alarm and display function for pressure and leakage. 11. Exhaust pipeline to be above the top floor of the building ; copper pipeline 12. Temperature accuracy: ±1° C 13. Vacuum pressure: -7 ~-70Kpa 14. Composition of gases (90% Ethylene oxide and 10% carbon dioxide or 100%Ethylene Oxide) 15. Operating temperature to be settable at 35 degree celsius and 55 degree celsius.
2.2	User's interface	Software,Automatic (stages to be displayed or recordable for printing)
2.3	Software and/ or standard of communication(where ever required)	NA
3 PHYSICAL CHARACTERISTICS		
3.1	Dimensions (metric)	Max: 450 mm x 450 mm x 1200 mm
3.2	Weight (lbs, kg)	NA
3.3	Configuration	NA
3.4	Noise (in dBA)	Noise-free system
3.5	Heat Dissipation	Should maintain nominal Temp and the heat should be disbursed through an cooling mechanism
3.6	Mobility, portability	Portable
4 ENERGY SOURCE (ELECTRICITY, UPS, SOLAR, GAS, WATER, CO2 ...)		
4.1	Power requirements	Recharging unit: Input voltage- 220V-240V AC, 50Hz Single-phase
4.2	Battery operated	Yes
4.3	Tolerance (to variations, shutdowns)	NA
4.4	Protections	Should have overcharging cut off with visual symbol.
4.5	Power consumption	Can be operated on UPS
5 ACCESSORIES, SPARE PARTS, CONSUMABLES		
5.1	Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables / reagents (open, closed system)	Should have a detector to be installed in sterilizer room.
BIDDING / PROCUREMENT TERMS / DONATION REQUIREMENTS		
6 ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	Atmosphere / Ambiance (air conditioning, humidity, dust ...)	1) Operating condition: Capable of operating continuously in ambient temperature of 5 to 50 deg C and relative humidity of 15 to 80% in ideal circumstances. 2) Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%.
6.2	User's care, Cleaning, Disinfection & Sterility issues	1) Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover. 2) Sterilization not required.
7 STANDARDS AND SAFETY		
7.1	If (pre-market, sanitary, ..); Performance and safety standards (specific to the device type);Local and/or international	1. Should be FDA/CE/BIS approved product. 2. Manufacturer and Supplier should have ISO 13485 certification for quality standards. 3. Electrical safety conforms to the standards for electrical safety IEC 60601-General requirements(or equivalent BIS Standard) 5. Shall meet internationally recognised for Electromagnetic Compatibility(EMI/EMC) for electromedical equipment: 61326-1. 6. Certified to be compliant with IEC 61010-1,IEC 61010-2-40 for safety.
7.2	Local and/or international	Manufacturer / supplier should have ISO 13485 certificate for quality standard.
8 TRAINING AND INSTALLATION		

8.1	**Pre-installation requirements: nature, values, quality, tolerance**	1) Availability of 5 amp socket; 2) Safety and operation check before handover; 3) To be installed in a separate room.
8.2	**Requirements for sign-off**	Certificate of calibration and inspection of parts from the manufacturer
8.3	**Training of staff (medical, paramedical, technicians)**	1) Training of users on operation and basic maintenance; 2) Advanced maintenance tasks required shall be documented
	9 WARRANTY AND MAINTENANCE	
9.1	**Warranty**	3 years
9.2	**Maintenance tasks**	1) Maintenance manual detailing; 2) Complete maintenance schedule;
9.3	**Service contract clauses, including prices**	The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee / warranty period should be attached;
	10 DOCUMENTATION	
10.1	**Operating manuals, service manuals, other manuals**	Should provide 2 sets(hardcopy and soft-copy) of:- 1) User, technical and maintenance manuals to be supplied in english/ hindi language along with machine diagrams; 2) List of equipment and procedures required for local calibration and routine maintenance; 3) Service and operation manuals (original and copy) to be provided; 4) Advanced maintenance tasks documentation; 5) Certificate of calibration and inspection
10.2	**Other accompanying documents**	List of essential spares and accessories, with their part numbers and cost;
	11 INC	
11.1	**Service Support Contact details (Hierarchy Wise; including a toll free/ landline number)**	Contact details of manufacturer, supplier and local service agent to be provided; Any Contract (AMC/CMC/add-hoc) to be declared by the manufacturer;
11.2	**Recommendations or warnings**	Any warning signs would be adequately displayed

23. Pulse Oximeter (EQP0036)

PULSE OXIMETER-TABLE TOP	
Version no.:	02
Date:	August 2023
Done by: (name / institution)	HCT/NHSRC
NAME AND	
GMDN name	Pulse oximeter
GMDN code(s)	45607
GENERAL	
1. USE	

1.1	**Clinical purpose**	It is used for the transcutaneous measurement and display of haemoglobin oxygen saturation (SpO2). The signals are produced by light-emitting diodes (LEDs) and received by a photodetector. The device displays the SpO2 values and may also measure and
1.2	**Used by clinical department/war**	All Departments
	2. TECHNICAL CHARACTERISTICS	
2.1	**Technical characteristics (specific to this type of device)**	• Should be a portable, light weight, desktop model with adult, paediatric and neonatal finger probes. • Should have digital display with parameters: SpO2, pulse rate, plethysmograph waveform, alarm message and battery state indication. • SpO2 detection range to include: 70 100% SpO2 resolution: • 1% or less • Accuracy of SpO2 should be within +/-3% SpO2 probes should • be reusable. • Pulse rate range detection range to include: 30-240 beats per minute (bpm). • Pulse rate accuracy: within ± 3 bpm. Pulse rate resolution: • 1 bpm or less • Audio and visual alarms required: high and low SpO2 and pulse rate (operator variable settings), sensor
		• Suitable for detection in low perfusion conditions. • Should have a minimum of 02 hours back-up time. Should have • trend data of at least 36 hrs.
2.2	**User's interface**	Digital display and easily accessible buttons to operate the machine.
2.3	**Software and/or standard of communication (wherever**	In built.
	3. PHYSICAL CHARACTERISTICS	
3.1	**Dimensions (metric)**	NA
3.2	**Weight (lbs, kg)**	Light weight
3.3	**Noise (in dBA)**	<60dBA
3.4	**Heat dissipation**	Should be dispersed through exhaust.
3.5	**Mobility, Portability**	Mobile
	4. ENERGY	
4.1	**Power Requirements**	220 V +/- 10% AC, 50 Hz
4.2	**Battery operated**	Yes, with minimum backup time of 02 hour
4.3	**Power consumption**	To be specified by
	5. ACCESSORIES, SPARE PARTS, CONSUMABLES	

5.1	**Accessories & Spares parts; Consumables / reagents (open, closed system)**	Two reusable probes each for adult, pediatric and infant use
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	**Atmosphere / Ambiance (air conditioning, humidity,**	Capable of operating continuously in ambient temperature of -10 to 60 deg C and relative humidity upto 90% in ideal circumstances.
6.2	**User's care, Cleaning,**	To be specified by manufacturer

	issues	
7. STANDARDS AND SAFETY		
7.1	**Certifications**	1. Should be CDSCO approved. 2. Should comply with BIS standards. 3. Should comply with USFDA/European CE standards in case of non- availability of BIS standards. 4. Should conform to ISO 13485 quality standards. 5. Should conform to IEC 60601-1 General requirements of electrical safety standards
8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	Electrical accessories as per standard Indian set-up
8.2	**Requirements for sign- off**	Supplier to perform installation, safety and operation checks before handover
8.3	**Training of staff (medical, paramedical,**	Training of users in operation and basic maintenance shall be provided.
9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	• 03 years • Preventive Maintenance visits at least once in each quarter.
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	Should provide 2 sets (hard copy and soft copy) of: 1. User, technical and maintenance manuals should be supplied in English/Hindi language along with machine diagrams. 2. List of equipment and procedures required for local calibration and routine maintenance. 3. Satisfactory certificate for any existing
10.2	**Other accompanying**	NA
11. NOTES		
11.1	**Service Support Contact details (Hierarchy Wise; including a toll free/ landline**	Contact details of manufacturer, supplier and local service agent to be provided.

11.2	**Recommendations or warnings**	Any recommendations for best use and supplementary warning for safety should be displayed.

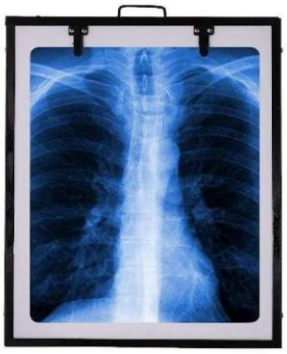
24. Stethoscope

39. Stethoscope		
Version no.:		02
Date:		August 2023
Done by: (name / institution)		HCT/ NHSRC
NAME AND CODING		
GMDN name		Stethoscopes, Mechanical
GMDN code(s)		13755
GENERAL		
1. USE		
1.1	**Clinical purpose**	Listening to sounds from the heart, lungs, and/or gastrointestinal tract.
1.2	**Used by clinical department/war**	All
2. TECHNICAL CHARACTERISTICS		
2.1	**Technical characteristics(specific to this type of device)**	1. Should have single lumen binaural. 2. Latex free Polyvinyl chloride (PVC) stethoscope tubing, soft and should not harden/crack. 3. Tube should be impervious to outside noises. 4. Earpieces (02) should be with soft sealing ear tips and easy to stay fixed in ears. 5. Earpiece material: Soft PVC/Silicone preferably. 6. Should have good quality and highly sensitive fixed/floating diaphragm. 7. Dual head: Cup/ bell for low frequency sounds, sensitive membrane for skin contact.
2.2	**User's interface**	Manual
2.3	**Software and/or standard of communication (where ever required)**	NA
3. PHYSICAL CHARACTERISTICS		
3.1	**Dimensions (metric)**	Tube length - 55 cm minimum
3.2	**Weight (lbs, kg)**	NA
3.3	**Noise (in dBA)**	NA
3.4	**heat dissipation**	NA
3.5	**Mobility, portability**	Portable
4. ENERGY SOURCE		
4.1	**Power Requirements**	NA
4.2	**Battery operated**	NA
4.3	**Protection**	NA
4.4	**Power consumption**	NA
4.5	**Other energy supplies**	NA
5. ACCESSORIES, SPARE PARTS, CONSUMABLES		
5.1	**Accessories& Spares Consumables / reagents (open, closed**	1 x spare set of earpieces, 1 x spare diaphragm.
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		

6.1	**Atmosphere / Ambiance (air conditioning,**	NA
6.2	**User's care, Cleaning, Disinfection & Sterility**	NA
7. STANDARDS AND SAFETY		
7.1	**Certifications**	1. Should be CDSCO approved. 2. Should comply with BIS standards. 3. Should comply with USFDA/European CE standards incase of non-availability of BIS standards. 4. Should conform to ISO 13485 quality standards.
8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality,**	NA
8.2	**Requirements for sign- off**	NA
8.3	**Training of staff (medical, paramedical,**	NA
9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	1 year
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	NA
10.2	**Other accompanying**	NA
10.3	**Recommendations for maintenance**	NA
11. NOTES		
11.1	**Service Support Contact details (Hierchy Wise; including a toll free/ landli number)**	NA
11.2	**Recommendations or warnings**	NA

25. **X-ray View Box**

		• Should have ISO certification for quality standards.	
12.	Finger Exerciser web	• Description: Use for hand strengthening and hand therapy. Excellent for physical therapy, conditioning, and rehabilitation. • used to perform finger flexion, extension, opposition, and supination exercises. • Material: latex-free material with high quality rubber with special agents added for durability and strength which can accommodate all hand sizes and strength levels • •	

13.	X-Ray View Box	For viewing single X-ray films having dimensions of 15 x 5"x 25" (Lx D x H) with 2 nos. of 20W fluorescent tubes of 2 feet length each with necessary fittings in MS housing of 20 SWG and is duly powder coated. • View box to be fitted with white acrylic sheet to reduce glare and provide uniform • illumination. Grip clips/ grip rollers are to be provided to hold the film. • Drip tray for wet films	

14.	Spirometer	Description: Spirometer is used for lung exercises. • Should be compact, lightweight and made up of high-quality break-resistant plastic. • Should have 3 chambers for different inhalation rates consisting of 3-balls • spirometer.	

26. Multipara Moniter

Multipara Monitor		
Version no.:		02
Date:		September 2023
Done by: (name/institution)		HCT/NHSRC
NAME AND CODING		
GMDN name		Patient Monitors/Monitoring Systems.
GMDN code(s)		CT1444
GENERAL		
1. USE		
1.1	**Clinical purpose**	Designed to continuously measure and display multiple vital physiological parameters of patients, especially those under critical care.
1.2	**Clinical department/ward**	All Departments
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		

2.1	**Technical characteristics**	1. Multichannel (up to 12 leads) ECG measurement and selectable display of upto 5 leads at a time. 2. Temperature probe to be reusable, external skin contact type. Temperature range at least 30 to 40 deg C, minimum gradation 0.1 deg C. 3. Heart rate measurement range to be at least 30 to 250 bpm, with accuracy better than ± 5 bpm and minimum gradation 1 bpm. 4. SpO2 measurement range at least 40-70 % and 70 to 99 %, with accuracy better than ± 1% for 40-70 range and better than ± 3% for 70-99 range and minimum gradation 1%. 5. Blood pressure monitoring range at least 30 to 300 mmHg, minimum gradation 1 mmHg. 6. Respiration rate measurement range at least 0 to 100 bpm, minimum gradation 1 bpm. 7. Trend display of each parameter over at least previous 24 hours to be selectable. 8. LCD screen for displaying all parameters. 9. Audio Visual alarms required: high and low levels for each parameter (operator variable settings), sensor / wire / probe disconnected, low battery.

2.2	**User's interface**	LCD display
2.3	**Software and/or standard of communication**	In-built
3. PHYSICAL CHARACTERISTICS		
3.1	**Dimensions (metric)**	Screen size minimum 8”X6”.
3.2	**Weight (lbs, kg)**	Light weight
3.3	**Noise (in dBA)**	<50dB.
3.4	**heat dissipation**	Should maintain nominal temperature and the heat should be disbursed through an exhaust cooling fan
3.5	**Mobility, portability**	Portable
4. ENERGY SOURCE		
4.1	**Power Requirements**	220 +/- 10% VAC, 50 Hz
4.2	**Battery operated**	Yes
4.3	**Protection**	Electrical protection provided by fuses in both live and neutral supply lines
4.4	**Power consumption**	To be specified by manufacturer
5. ACCESSORIES, SPARE PARTS, CONSUMABLES		
5.1	**Accessories (mandatory, standard, optional) Spare parts (main ones) Consumables/reagents (open, closed system)**	2 pairs, 12 lead ECG cable. 5 sets of ECG connection electrodes (if reusable type). 5 lead ECG cable. Two reusable SpO2 probes for infant use. Two reusable neonatal cuffs. Two external skin temperature probes. Two sets of spare fuses (if non-resettable fuses used). 5 tubes electrode gel (if required).
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS		

6.1	**Atmosphere/Ambiance (air conditioning, humidity, dust ...)**	Operating condition: Capable of operating continuously in ambient temperature of -10 to 60 deg C and relative humidity of upto 90%.
6.2	**User's care, Cleaning, Disinfection &**	To be specified by manufacturer.
7. STANDARDS AND SAFETY		
7.1	**Certificates (pre-market, sanitary, ..); Performance andsafety standards (specific to the device type); Local and/or international**	6. Should be CDSCO approved. 7. Should comply with BIS standards. 8. Should comply with USFDA/European CE standards incase of non-availability of BIS standards. 9. Should conform to ISO 13485 quality standards. 10. Should conform to IEC 60601-1 General requirements of electrical safety standards.
8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	To be specified by manufacturer and compatible electrical accessories as per Indian standard set-up.
8.2	**Requirements for sign-off**	Supplier to perform safety and operation check before hand over.
8.3	**Training of staff (medical, paramedical, technicians)**	Training of users in operation and basic maintenance shall be provided.

9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	• 03 years • Preventive Maintenance visits at least once in each quarter.
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	Should provide 2 sets (hard copy and soft copy) of: 4. User, technical and maintenance manuals should be supplied in English/Hindi language along with machine diagrams. 5. Service and operation manuals (original and Copy) to be provided. 6. Satisfactory certificate for any existing
10.2	**Other accompanying Documents**	List of essential spares and accessories, with their par number and cost.
11. NOTES		
11.1	**Other information**	Contact details of manufacturer, supplier and local service agent to be provided.
11.2	**Recommendations or Warnings**	Any recommendations for best use and supplementary warning for safety should be declared.