

REPUBLIC OF KENYA



MANDERA COUNTY GOVERNMENT

**TENDER FOR SUPPLY, DELIVERY AND
INSTALLATION OF MEDICAL EQUIPMENTS TO
ACCIDENT & EMERGENCY UNITS AT MANDERA
COUNTY REFERRAL HOSPITAL & ELWAK
REFERRAL HOSPITAL**

TENDER DOCUMENTS

TENDER NO: MCG/OT/09/2018-2019

October, 2018

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Introduction

- 1.1 This Standard Tender Document has been prepared for use by public entities in Kenya
- 1.2 The following general directions should be observed when using the document.
 - (a) Specific details should be furnished in the Invitation to Tender and in the special conditions of contract. The final documents to be provided to the tenderers should not have blank spaces or give options
 - (b) The Instructions to Tenderers and the general conditions of contract should remain unchanged. Any necessary amendments to these parts should be made through the special conditions of contract and the appendix to instructions to tenderers.
- 1.3
 - (a) Information contained in the Invitation to Tender shall conform to the data and information in the tender documents to enable potential tenderers to decide whether or not to participate and shall indicate any important tender requirements.
 - (b) The Invitation to Tender shall be issued as an advertisement in accordance with the regulations or a letter of invitation addressed to tenderers who have expressed interest following the invitation for expression of interest for which the invitation is issued.

SECTION I INVITATION TO TENDER

Tender reference no. : MCG/OT/09/2018-2019

Tender Name: TENDER FOR SUPPLY, DELIVERY AND INSTALLATION OF MEDICAL EQUIPMENTS TO ACCIDENT & EMERGENCY UNITS AT MANDERA COUNTY REFERRAL HOSPITAL & ELWAK REFERRAL HOSPITAL

1.1 The Mandera *County Government* invites sealed tenders for **SUPPLY AND DELIVERY OF** TENDER FOR SUPPLY, DELIVERY AND INSTALLATION OF MEDICAL EQUIPMENTS TO ACCIDENT & EMERGENCY UNITS AT MANDERA COUNTY REFERRAL HOSPITAL & ELWAK REFERRAL HOSPITAL

- 1.2 Interested eligible candidates may obtain and inspect tender documents from our website www.mandera.go.ke. For any more information/clarification interested applicants can visit the office of the **Director of Supply Chain Management, Treasury Building Mandera**, during normal working hours.
- 1.3 Prices quoted should be net inclusive of all taxes, must be in Kenya shillings and shall remain valid for the contract period.
- 1.4 Original and a copy of tender documents are to be enclosed in plain sealed envelopes marked with Tender name and reference number and deposited in the Tender Box located at the supply chain management office in Mandera or to be addressed to

**County Chief Officer Accounting and Financial Services,
P.O. Box 13
Mandera**

- 1.6 So as to be received on or before WEDNESDAY, 31ST October 2018 at 10.00 Am Tenders will be opened immediately thereafter in the presence of the candidates or their representatives who choose to attend at a location as will be designated.

Ag. Director Supply Chain Management

For County Chief Officer Accounting and Financial Services

SECTION II- INSTRUCTIONS TO TENDERERS

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SECTION II - INSTRUCTIONS TO TENDERERS

2.1 Eligible Tenderers

- 2.1.1 This Invitation for Tenders is open to all tenderers eligible as described in the Invitation to Tender. Successful tenderers shall complete the supply of goods by the intended completion date specified in the Schedule of Requirements Section VI.
- 2.1.2 The procuring entity's employees, committee members, board members and their relative (spouse and children) are not eligible to participate in the tender.
- 2.1.3 Tenderers shall provide the qualification information statement that the tenderer (including all members of a joint venture and subcontractors) is not associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring entity to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods under this Invitation for tenders.
- 2.1.4 Tenderers shall not be under a declaration of ineligibility for corrupt and fraudulent practices.

2.2 Eligible Goods

- 2.2.1 All goods to be supplied under the contract shall have their origin in eligible source countries.
- 2.2.2 For purposes of this clause, "origin" means the place where the goods are mined, grown, or produced. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially-recognized product results that is substantially different in basic characteristics or in purpose or utility from its components
- 2.2.3 The origin of goods is distinct from the nationality of the tenderer.

2.3 Cost of Tendering

- 2.3.1 The Tenderer shall bear all costs associated with the preparation and submission of its tender, and the procuring entity, will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.
- 2.3.2 The price to be charged for the tender document shall not exceed Kshs.5,000/=
- 2.3.3 All firms found capable of performing the contract satisfactorily in accordance with the set prequalification criteria shall be prequalified.

2.4 The Tender Document

- 2.4.1 The tender document comprises the documents listed below and addenda issued in accordance with clause 2.6 of these instructions to Tenderers
 - (i) Invitation to Tender
 - (ii) Instructions to tenderers
 - (iii) General Conditions of Contract

- (iv) Special Conditions of Contract
- (v) Schedule of requirements
- (vi) Technical Specifications
- (vii) Tender Form and Price Schedules
- (viii) Tender Security Form
- (ix) Contract Form
- (x) Performance Security Form
- (xi) Bank Guarantee for Advance Payment Form
- (xii) Manufacturer's Authorization Form
- (xiii) Confidential Business Questionnaire

2.4.2 The Tenderer is expected to examine all instructions, forms, terms, and specifications in the tender documents. Failure to furnish all information required by the tender documents or to submit a tender not substantially responsive to the tender documents in every respect will be at the tenderers risk and may result in the rejection of its tender.

2.5 Clarification of Documents

2.5.1 A prospective tenderer requiring any clarification of the tender document may notify the Procuring entity in writing or by post at the entity's address indicated in the Invitation to Tender. The Procuring entity will respond in writing to any request for clarification of the tender documents, which it receives not later than seven (7) days prior to the deadline for the submission of tenders, prescribed by the procuring entity. Written copies of the Procuring entities response (including an explanation of the query but without identifying the source of inquiry) will be sent to all prospective tenderers that have received the tender document.

2.5.2 The procuring entity shall reply to any clarifications sought by the tenderer within 3 days of receiving the request to enable the tenderer to make timely submission of its tender.

2.6 Amendment of Documents

2.6.1 At any time prior to the deadline for submission of tenders, the Procuring entity, for any reason, whether at its own initiative or in response to a clarification requested by a prospective tenderer, may modify the tender documents by amendment.

2.6.2 All prospective candidates that have received the tender documents will be notified of the amendment in writing or by post and will be binding on them.

2.6.3 In order to allow prospective tenderers reasonable time in which to take the amendment into account in preparing their tenders, the Procuring entity, at its discretion, may extend the deadline for the submission of tenders.

2.7 Language of Tender

2.7.1 The tender prepared by the tenderer, as well as all correspondence and documents relating to the tender exchange by the tenderer and the Procuring entity, shall be

written in English language, provided that any printed literature furnished by the tenderer may be written in another language provided they are accompanied by an accurate English translation of the relevant passages in which case, for purposes of interpretation of the tender, the English translation shall govern.

2.8 Documents Comprising of Tender

- 2.8.1 The tender prepared by the tenderers shall comprise the following components
- (a) a Tender Form and a Price Schedule completed in accordance with paragraph 2.9, 2.10 and 2.11 below
 - (b) documentary evidence established in accordance with paragraph 2.1 that the tenderer is eligible to tender and is qualified to perform the contract if its tender is accepted;
 - (c) documentary evidence established in accordance with paragraph 2.2 that the goods and ancillary services to be supplied by the tenderer are eligible goods and services and conform to the tender documents; and
 - (d) tender security furnished in accordance with paragraph 2.14

2.9 Tender Forms

- 2.9.1 The tenderer shall complete the Tender Form and the appropriate Price Schedule furnished in the tender documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.

2.10 Tender Prices

- 2.10.1 The tenderer shall indicate on the appropriate Price Schedule the unit prices and total tender price of the goods it proposes to supply under the contract
- 2.10.2 Prices indicated on the Price Schedule shall include all costs including taxes, insurances and delivery to the premises of the entity.
- 2.10.3 Prices quoted by the tenderer shall be fixed during the Tender's performance of the contract and not subject to variation on any account. A tender submitted with an adjustable price quotation will be treated as non-responsive and will be rejected, pursuant to paragraph 2.22
- 2.10.4 The validity period of the tender shall be 60 days from the date of opening of the tender.

2.11 Tender Currencies

- 2.11.1 Prices shall be quoted in Kenya Shillings unless otherwise specified in the Appendix to Instructions to Tenderers.

2.12 Tenderers Eligibility and Qualifications

- 2.12.1 Pursuant to paragraph 2.1. The tenderer shall furnish, as part of its tender, documents establishing the tenderers eligibility to tender and Its qualifications to perform the contract if it's tender is accepted.

2.12.2 The documentary evidence of the tenderers eligibility to tender shall establish to the Procuring entity's satisfaction that the tenderer, at the time of submission of its tender, is from an eligible source country as defined under paragraph 2.1

2.12.3 The documentary evidence of the tenderers qualifications to perform the contract if its tender is accepted shall be established to the Procuring entity's satisfaction;

- (a) that, in the case of a tenderer offering to supply goods under the contract which the tenderer did not manufacture or otherwise produce, the tenderer has been duly authorized by the goods' Manufacturer or producer to supply the goods.
- (b) that the tenderer has the financial, technical, and production capability necessary to perform the contract;
- (c) that, in the case of a tenderer not doing business within Kenya, the tenderer is or will be (if awarded the contract) represented by an Agent in Kenya equipped, and able to carry out the Tenderer's maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications.

2.13 Goods Eligibility and Conformity to Tender Documents

2.13.1 Pursuant to paragraph 2.2 of this section, the tenderer shall furnish, as part of its tender documents establishing the eligibility and conformity to the tender documents of all goods which the tenderer proposes to supply under the contract

2.13.2 The documentary evidence of the eligibility of the goods shall consist of a statement in the Price Schedule of the country of origin of the goods and services offered which shall be confirmed by a certificate of origin issued at the time of shipment.

2.13.3 The documentary evidence of conformity of the goods to the tender documents may be in the form of literature, drawings, and data, and shall consist of:

- (a) a detailed description of the essential technical and performance characteristic of the goods;
- (b) a list giving full particulars, including available source and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period of two (2) years, following commencement of the use of the goods by the Procuring entity; and
- (c) a clause-by-clause commentary on the Procuring entity's Technical Specifications demonstrating substantial responsiveness of the goods and service to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.

2.13.4 For purposes of the documentary evidence to be furnished pursuant to paragraph 2.13.3(c) above, the tenderer shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procurement entity in its Technical Specifications, are intended to be descriptive only and not restrictive. The tenderer may substitute alternative standards, brand names, and/or catalogue numbers in

its tender, provided that it demonstrates to the Procurement entity's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

2.14 Tender Security

- 2.14.1 The tenderer shall furnish, as part of its tender, a tender security for the amount specified in the Appendix to Invitation to Tenderers.
- 2.14.2 The tender security shall be in the amount of 0.5 – 2 per cent of the tender price.
- 2.14.3 The tender security is required to protect the Procuring entity against the risk of Tenderer's conduct which would warrant the security's forfeiture, pursuant to paragraph 2.14.7
- 2.14.4 The tender security shall be denominated in Kenya Shillings or in another freely convertible currency, and shall be in the form of a bank guarantee or a bank draft issued by a reputable bank located in Kenya or abroad, or a guarantee issued by a reputable insurance company in the form provided in the tender documents or another form acceptable to the Procuring entity and valid for thirty (30) days beyond the validity of the tender.
- 2.14.5 Any tender not secured in accordance with paragraph 2.14.1 and 2.14.3 will be rejected by the Procuring entity as non responsive, pursuant to paragraph 2.22
- 2.14.6 Unsuccessful Tenderer's tender security will be discharged or returned as promptly as possible as but not later than thirty (30) days after the expiration of the period of tender validity prescribed by the Procuring entity.
- 2.14.7 The successful Tenderer's tender security will be discharged upon the tenderer signing the contract, pursuant to paragraph 2.27 and furnishing the performance security, pursuant to paragraph 2.28
- 2.14.8 The tender security may be forfeited:
- (a) if a tenderer withdraws its tender during the period of tender validity specified by the procuring entity on the Tender Form; or
 - (b) in the case of a successful tenderer, if the tenderer fails:
 - (i) to sign the contract in accordance with paragraph 2.27
 - or
 - (ii) to furnish performance security in accordance with paragraph 2.28

2.15 Validity of Tenders

- 2.15.1 Tenders shall remain valid for 90 days or as specified in the Invitation to tender after the date of tender opening prescribed by the Procuring entity, pursuant to paragraph 2.18. A tender valid for a shorter period shall be rejected by the Procuring entity as non responsive.
- 2.15.2 In exceptional circumstances, the Procuring entity may solicit the Tenderer's consent to an extension of the period of validity. The request and the responses

thereto shall be made in writing. The tender security provided under paragraph 2.14 shall also be suitably extended. A tenderer may refuse the request without forfeiting its tender security. A tenderer granting the request will not be required nor permitted to modify its tender.

2.16 Format and Signing of Tender

2.16.1 The Procuring entity shall prepare two copies of the tender, clearly marking each “ORIGINAL TENDER” and “COPY OF TENDER,” as appropriate. In the event of any discrepancy between them, the original shall govern.

2.16.2 The original and all copies of the tender shall be typed or written in indelible ink and shall be signed by the tenderer or a person or persons duly authorized to bind the tenderer to the contract. The latter authorization shall be indicated by written power-of-attorney accompanying the tender. All pages of the tender, except for unamended printed literature, shall be initialed by the person or persons signing the tender.

2.16.3 The tender shall have no interlineations, erasures, or overwriting except as necessary to correct errors made by the tenderer, in which case such corrections shall be initialed by the person or persons signing the tender.

2.17 Sealing and Marking of Tenders

2.17.1 The Tenderer shall seal the original and each copy of the tender in separate envelopes, duly marking the envelopes as “ORIGINAL” and “COPY.” The envelopes shall then be sealed in an outer envelope.

2.17.2 The inner and outer envelopes shall:

- (a) Be addressed to the Procuring entity at the address given in the Invitation to Tender:
- (c) bear, tender number and name in the Invitation for Tenders and the words, “DO NOT OPEN BEFORE,” **WEDNESDAY, 31ST October 2018 at 10.00 Am**

2.17.3 The inner envelopes shall also indicate the name and address of the tenderer to enable the tender to be returned unopened in case it is declared “late”.

2.17.4 If the outer envelope is not sealed and marked as required by paragraph 2.17.2, the Procuring entity will assume no responsibility for the tender’s misplacement or premature opening.

2.18 Deadline for Submission of Tenders

Tenders must be received by the Procuring entity at the address specified under paragraph 2.17.2 no later than **WEDNESDAY, 31ST October 2018 at 10.00 Am**

2.18.1 The Procuring entity may, at its discretion, extend this deadline for the submission of tenders by amending the tender documents in accordance with paragraph 2.6, in which case all rights and obligations of the Procuring entity and

candidates previously subject to the deadline will therefore be subject to the deadline as extended

2.19 Modification and Withdrawal of Tenders

- 2.19.1 The tenderer may modify or withdraw its tender after the tender's submission, provided that written notice of the modification, including substitution or withdrawal of the tenders, is received by the Procuring Entity prior to the deadline prescribed for submission of tenders.
- 2.19.2 The Tenderer's modification or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of paragraph 2.17. A withdrawal notice may also be sent by cable, telex but followed by a signed confirmation copy, postmarked not later than the deadline for submission of tenders.
- 2.19.3 No tender may be modified after the deadline for submission of tenders.
- 2.19.4 No tender may be withdrawn in the interval between the deadline for submission of tenders and the expiration of the period of tender validity specified by the tenderer on the Tender Form. Withdrawal of a tender during this interval may result in the Tenderer's forfeiture of its tender security, pursuant to paragraph 2.14.7
- 2.19.5 The procuring entity may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.
- 2.19.6 The procuring entity shall give prompt notice of the termination to the tenderers and on request give its reasons for termination within 14 days of receiving the request from any tenderer.

2.20 Opening of Tenders

- 2.20.1 The Procuring entity will open all tenders in the presence of tenderers' representatives who choose to attend, at **Wednesday, 31st October, 2018 at 10.00AM** and in the location specified in the Invitation to Tender.

The tenderers' representatives who are present shall sign a register evidencing their attendance.

- 2.20.2 The tenderers' names, tender modifications or withdrawals, tender prices, discounts and the presence or absence of requisite tender security and such other details as the Procuring entity, at its discretion, may consider appropriate, will be announced at the opening.
- 2.20.3 The Procuring entity will prepare minutes of the tender opening.

2.21 Clarification of Tenders

2.21.1 To assist in the examination, evaluation and comparison of tenders the Procuring entity may, at its discretion, ask the tenderer for a clarification of its tender. The request for clarification and the response shall be in writing, and no change in the prices or substance of the tender shall be sought, offered, or permitted.

2.21.2 Any effort by the tenderer to influence the Procuring entity in the Procuring entity's tender evaluation, tender comparison or contract award decisions may result in the rejection of the tenderers' tender.

2.22 Preliminary Examination

2.22.1 The Procuring entity will examine the tenders to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the tenders are generally in order.

2.22.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantify, the unit price shall prevail, and the total price shall be corrected. If the candidate does not accept the correction of the errors, its tender will be rejected, and its tender security forfeited. If there is a discrepancy between words and figures the amount in words will prevail

2.22.3 The Procuring entity may waive any minor informality or non-conformity or irregularity in a tender which does not constitute a material deviation, provided such waiver does not prejudice or effect the relative ranking of any tenderer.

2.22.4 Prior to the detailed evaluation, pursuant to paragraph 2.23 the Procuring entity will determine the substantial responsiveness of each tender to the tender documents. For purposes of these paragraphs, a substantially responsive tender is one, which conforms to all the terms and conditions of the tender documents without material deviations. The Procuring entity's determination of a tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence.

2.22.5 If a tender is not substantially responsive, it will be rejected by the Procuring entity and may not subsequently be made responsive by the tenderer by correction of the non conformity.

2.23 Conversion to Single Currency

2.23.1 Where other currencies are used, the procuring entity will convert these currencies to Kenya Shillings using the selling exchange rate on the date of tender closing provided by the Central Bank of Kenya.

2.24 Evaluation and Comparison of Tenders

2.24.1 The Procuring entity will evaluate and compare the tenders which have been determined to be substantially responsive, pursuant to paragraph 2.22

2.24.2 The tender evaluation committee shall evaluate the tender within 30 days of the validity period from the date of opening the tender.

2.24.3 A tenderer who gives false information in the tender document about its qualification or who refuses to enter into a contract after notification of contract award shall be considered for debarment from participating in future public procurement.

2.25 Preference

2.25.1 Preference where allowed in the evaluation of tenders shall not exceed 15%

2.26 Contacting the Procuring entity

2.26.1 Subject to paragraph 2.21 no tenderer shall contact the Procuring entity on any matter related to its tender, from the time of the tender opening to the time the contract is awarded.

2.26.2 Any effort by a tenderer to influence the Procuring entity in its decisions on tender, evaluation, tender comparison, or contract award may result in the rejection of the Tenderer's tender.

2.27 Award of Contract

(a) Post-qualification

2.27.1 In the absence of pre-qualification, the Procuring entity will determine to its satisfaction whether the tenderer that is selected as having submitted the lowest evaluated responsive tender is qualified to perform the contract satisfactorily.

2.27.2 The determination will take into account the tenderer financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the tenderers qualifications submitted by the tenderer, pursuant to paragraph 2.12.3 as well as such other information as the Procuring entity deems necessary and appropriate.

2.27.3 An affirmative determination will be a prerequisite for award of the contract to the tenderer. A negative determination will result in rejection of the Tenderer's tender, in which event the Procuring entity will proceed to the next lowest evaluated tender to make a similar determination of that Tenderer's capabilities to perform satisfactorily.

(b) Award Criteria

2.27.4 The Procuring entity will award the contract to the successful tenderer(s) whose tender has been determined to be substantially responsive and has been determined to be the lowest evaluated tender, provided further that the tenderer is determined to be qualified to perform the contract satisfactorily.

(c) Procuring entity's Right to Vary quantities

2.27.5 The Procuring entity reserves the right at the time of contract award to increase or decrease the quantity of goods originally specified in the Schedule of requirements without any change in unit price or other terms and conditions

(d) Procuring entity's Right to accept or Reject any or All Tenders

2.27.6 The Procuring entity reserves the right to accept or reject any tender, and to annul the tendering process and reject all tenders at any time prior to contract award, without thereby incurring any liability to the affected tenderer or tenderers or any obligation to inform the affected tenderer or tenderers of the grounds for the Procuring entity's action

2.28 Notification of Award

2.28.1 Prior to the expiration of the period of tender validity, the Procuring entity will notify the successful tenderer in writing that its tender has been accepted.

2.28.2 The notification of award will constitute the formation of the Contract but will have to wait until the contract is finally signed by both parties

2.28.3 Upon the successful Tenderer's furnishing of the performance security pursuant to paragraph 2.28, the Procuring entity will promptly notify each unsuccessful Tenderer and will discharge its tender security, pursuant to paragraph 2.14

2.29 Signing of Contract

2.29.1 At the same time as the Procuring entity notifies the successful tenderer that its tender has been accepted, the Procuring entity will send the tenderer the Contract Form provided in the tender documents, incorporating all agreements between the parties.

2.29.2 The parties to the contract shall have it signed within 30 days from the date of notification of contract award unless there is an administrative review request.

2.29.3 Within thirty (30) days of receipt of the Contract Form, the successful tenderer shall sign and date the contract and return it to the Procuring entity.

2.30 Performance Security

2.30.1 Within Thirty (30) days of the receipt of notification of award from the Procuring entity, the successful tenderer shall furnish the performance security in accordance with the Conditions of Contract, in the Performance Security Form provided in the tender documents, or in another form acceptable to the Procuring entity.

2.30.2 Failure of the successful tenderer to comply with the requirements of paragraph 2.27 or paragraph 2.28 shall constitute sufficient grounds for the annulment of the award and forfeiture of the tender security, in which event the Procuring entity may make the award to the next lowest evaluated Candidate or call for new tenders.

2.31 Corrupt or Fraudulent Practices

- 2.31.1 The Procuring entity requires that tenderers observe the highest standard of ethics during the procurement process and execution of contracts when used in the present regulations, the following terms are defined as follows;
- (i) “corrupt practice” means the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution; and
 - (ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring entity, and includes collusive practice among tenderer (prior to or after tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the Procuring entity of the benefits of free and open competition;
- 2.31.2 The procuring entity will reject a proposal for award if it determines that the tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.
- 2.31.3 Further a tenderer who is found to have indulged in corrupt or fraudulent practices risks being debarred from participating in public procurement in Kenya.

Appendix to Instructions to Tenderers

Notes on the Appendix to the Instruction to Tenderers

1. The Appendix to instructions to tenderers is intended to assist the procuring entity in providing specific information in relation to the corresponding clause in the instructions to Tenderers included in Section II and has to be prepared for each specific procurement.
2. The procuring entity should specify in the appendix information and requirements specific to the circumstances of the procuring entity, the goods to be procured and the tender evaluation criteria that will apply to the tenders.
3. In preparing the Appendix the following aspects should be taken into consideration;
 - (a) The information that specifies and complements provisions of Section II to be incorporated
 - (b) Amendments and/or supplements if any, to provisions of Section II as necessitated by the circumstances of the goods to be procured to be also incorporated

4. Section II should remain unchanged and can only be amended through the Appendix.
5. Clauses to be included in this part must be consistent with the public procurement law and the regulations.

Appendix to Instructions to Tenderers

The following information regarding the particulars of the tender shall complement supplement or amend the provisions of the instructions to tenderers. Wherever there is a conflict between the provision of the instructions to tenderers and the provisions of the appendix, the provisions of the appendix herein shall prevail over those of the instructions to tenderers.

INSTRUCTIONS TO TENDERERS REFERENCE	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS
2.1.1	<i>OPEN TENDER</i>
2.14.1	<i>The bidder shall submit a minimum bid security of KES1, 000,000 from a reputable bank or recognized insurance company.</i>
2.18.1	<i>The Bidder shall submit original and a copy of the tender document, clearly marking each “ORIGINAL TENDER” and “COPY OF TENDER” on or before WEDNESDAY, 31ST October 2018 at 10.00 Am Both documents (Original & Copy) shall bear all the attachments required.</i>

PRELIMINARY REQUIREMENTS

1. All entries must be typed or written in ink. Mistakes must not be erased but should be crossed out and corrections made and initialed by the persons signing the tender.
2. The form of bid **shall** be duly filled, signed and stamped by an individual entrusted with the powers of attorney.
3. Each bid should be submitted in a plain sealed envelope with the Tender Number and Name endorsed on the outside.
4. The bidder shall attach a duly filled, signed and stamped confidential business questionnaire by an individual entrusted with the powers of attorney.
5. The form of power of attorney shall be duly filled, signed and stamped.
6. **The tender document shall be submitted complete, intact with no page alterations.**
7. Tenderers shall ensure that the submitted bid (documents) is (are) serialized .i.e (each page in the submitted bid shall have serial identification).
8. All submitted forms and documents shall be duly filled, signed (where applicable) and stamped.

Bidders shall attach copies of the under listed documents endorsed (signed and stamped) by commissioner of oaths/advocate registered in Kenya.

9. Valid current year business permits.
10. Valid current year tax compliance certificate.
11. Certificate of incorporation.
12. PIN/VAT certificate from KRA.
13. Registration with Relevant Bodies

14. Financial audited accounts for the previous three years endorsed, signed and stamped by a registered external auditor.

Bidders that will not comply with the above criteria shall be considered non-responsive.

MINIMUM REQUIREMENTS

In the technical requirements tables, bidders should indicate their capacity bearing in mind that these tables bear the minimum requirements for this tender.

No.	KEY personnel Position	Total Work Experience (years)	In Similar Works Experience (years)
1	Project Director (Key Partner/Director)	10	8
2	One Site Agent / Contract manager (Registered Medical Engineer)	8	5
4	2 No. Foreman (must be holders of at least Diploma in Electrical engineering or equivalent).	5	5

TECHNICAL REQUIREMENTS

In the technical requirements below, bidders shall fill the tables appropriately failure to which the bids will be considered non-responsive. All the attached proof/copies of documents shall be endorsed, signed and stamped by Commissioner of Oaths/Advocate to ensure validity.

15. Bidders shall List and attach valid proof of at least three similar projects of similar magnitude undertaken in the last three years in table below with a valid proof of award and completion of the projects.

Serial No.	Projects	Clients Name, Address & Telephone No.	Value of the project (Kshs.)	Year(s) the Project was undertaken
1.				
2.				
3.				

16. SCHEDULE OF RELEVANT PLANT AND EQUIPMENTS

Bidders shall state below the key relevant plant/Equipment that will be immediately available for this works what plants will be available and what further plant/equipment will be acquired or hired for the works should the contractor be judged qualified by the County and awarded the contract. Bidders shall attach proof for the under listed plant and equipment. The equipments stated below must be more than those indicated in the minimum requirements.

Description, Size, Capacity	No.	Present Location	Remarks

Signed by Bidder

.....
Name of Signatory

.....
Date.....

17. SCHEDULE OF KEY PERSONNEL WITHIN YOUR ESTABLISHMENT

Bidders shall insert in the spaces below at least five key personnel to be engaged in this contract if awarded. State qualification and experience of each personnel and also attach their credentials/CV and supportive documents for reference.

Category (to Work as)	Name of Person	Qualification	Number of Persons

Bidders must fill in the various categories in the minimum requirements table for key personnel. For unskilled labor, only the total number is required to be entered in the form above. Qualifications will be verified prior to award of the contract. Where personnel are substituted during the contract or before the

award of the contract, only substitute person with equivalent or higher qualifications will be approved or accepted by the County.

All attached copies shall be endorsed, signed & stamped by commissioner of oaths/advocate.

Sign.....

Date.....

Bidders who shall not meet the above technical requirement will be considered non-responsive.

EVALUATION AND COMPARISON OF TENDERS

Evaluation and comparison of tenders: the following evaluation criteria shall be applied not withstanding any other requirements in the tender documents

a) Mandatory requirement(MR)

The following requirements must be met by the tenderer

PRELIMINARY EVALUATION CRITERIA

S/No	REQUIREMENTS	Score Mandatory	B1	B2	B3	B4	B5	B6	B7	B8
	Dully filled confidential business questionnaire	Mandatory (Yes/No)								
	Form of tender duly filled, signed and stamped	Mandatory (Yes/No)								
	Tenderers shall ensure that the submitted bid (documents) is (are) serialized .i.e (each page in the submitted bid shall have serial identification).	Mandatory (Yes/No)								
	The form of power of attorney shall be duly filled, signed and stamped.	Mandatory (Yes/No)								
	Submission of tender document in original and copy.	Mandatory (Yes/No)								
	All entries must be typed or written in ink. Mistakes must not be erased but should be crossed out and corrections made and initialed by the persons signed the tender.	Mandatory (Yes/No)								
	Bid security	Mandatory (Yes/No)								
Bidders shall attach copies of the under listed documents endorsed (signed and stamped) by commissioner of oaths/ advocates registered in Kenya										
	Valid current year business permits	Mandatory (Yes/No)								
	Valid current year tax compliance certificate	Mandatory (Yes/No)								
	Certificate of incorporations	Mandatory (Yes/No)								
	Pin/Vat certificate from KRA	Mandatory (Yes/No)								
	Firms copy of certificate of registration as a contractor	Mandatory (Yes/No)								

KEY

Bidder 1:B1

Bidder 2:B2

Bidder 3:B3

Bidder 4:B4

Bidder 5:B5

Bidder 6:B6

Bidder 7:B7

Bidder 8:B8

NB: At this stage, the tender's submission will either be responsive or non-responsive. The non-responsive submission will be eliminated from the entire evaluation process and will not be considered further.

TECHNICAL EVALUATION CRITERIA SUMMARY

No.	REQUIREMENTS	Scorecard (70 Marks)	B1	B2	B3
1	Form of Power of Attorney dully filled, stamped and Signed by person entrusted with power of Attorney or Commissioner of Oaths.	10 Marks			
2	Dully filled confidential business questionnaire.	10 Marks			
3	An authorization letter from the manufacturer signed and stamped on the manufacturer's letter head.	10 Marks			
4	Attach 1 year WARRANTY CERTIFICATE from the Manufacturer.	10 Marks			
5	Attach an engagement/Commitment letter from the supplier for maintenance for 2 years at his own cost.	10 Marks			
6	Personnel.				
a	Contract manager with at least five years' experience in works of an equivalent nature and volume, including no less than three years as Manager- Must be a registered Medical Engineer	10 Marks			
7	Prior Experience of this nature.	10 Marks			
	Total Score				
	Rank				

b) Technical evaluations scores

This sections (technical evaluation) will be marked out of 85 or 85/85*70 and will be determined the technical scorers (TS). Note: at this stage any firm that failed to score above 70% Or 49/70 shall NOT be evaluated financially

B) Financial evaluation scores

At this stage the tender's submission will either be responsive or non responsive. The non-responsive submission will be eliminated.

FINANCIAL EVALUATION CRITERIA SUMMARY

No.	Audited report (Last 2 years) (10 marks)	Correction of arithmetical errors (5 marks)	Bank statement (last 6 months) (5 marks)	Liquid assets and/or credit facilities (10 marks)	Score (30Marks)	Total
B1						
B2						
B3						
B4						
B5						
B6						
B7						
B8						

COMBINED TECHNICAL AND FINANCIAL SCORES

BIDDER NO	SCORES (TECHNICAL)	SCORES FINANCIAL	TOTAL	RANK
B1				
B2				
B3				
B4				
B5				
B6				
B7				
B8				

SECTION III: GENERAL CONDITIONS OF CONTRACT

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SECTION III - GENERAL CONDITIONS OF CONTRACT

3.1 Definitions

3.1.1 In this Contract, the following terms shall be interpreted as indicated:-

- (a) “The Contract” means the agreement entered into between the Procuring entity and the tenderer, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- (b) “The Contract Price” means the price payable to the tenderer under the Contract for the full and proper performance of its contractual obligations
- (c) “The Goods” means all of the equipment, machinery, and/or other materials, which the tenderer is required to supply to the Procuring entity under the Contract.
- (d) “The Procuring entity” means the organization purchasing the Goods under this Contract.
- (e) “The Tenderer” means the individual or firm supplying the Goods under this Contract.

3.2 Application

3.2.1 These General Conditions shall apply in all Contracts made by the Procuring entity for the procurement installation and commissioning of equipment

3.3 Country of Origin

3.3.1 For purposes of this clause, “Origin” means the place where the Goods were mined, grown or produced.

3.3.2 The origin of Goods and Services is distinct from the nationality of the tenderer.

3.4 Standards

3.4.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications.

3.5 Use of Contract Documents and Information

3.5.1 The tenderer shall not, without the Procuring entity’s prior written consent, disclose the Contract, or any provision therefore, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring entity in connection therewith, to any person other than a person employed by the tenderer in the performance of the Contract.

3.5.2 The tenderer shall not, without the Procuring entity’s prior written consent, make use of any document or information enumerated in paragraph 3.5.1 above

3.5.3 Any document, other than the Contract itself, enumerated in paragraph 3.5.1 shall remain the property of the Procuring entity and shall be returned (all copies) to the Procuring entity on completion of the Tenderer's performance under the Contract if so required by the Procuring entity

3.6 Patent Rights

3.6.1 The tenderer shall indemnify the Procuring entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Procuring entity's country

3.7 Performance Security

3.7.1 Within thirty (30) days of receipt of the notification of Contract award, the successful tenderer shall furnish to the Procuring entity the performance security in the amount specified in Special Conditions of Contract.

3.7.2 The proceeds of the performance security shall be payable to the Procuring entity as compensation for any loss resulting from the Tenderer's failure to complete its obligations under the Contract.

3.7.3 The performance security shall be denominated in the currency of the Contract, or in a freely convertible currency acceptable to the Procuring entity and shall be in the form of a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in Kenya or abroad, acceptable to the Procuring entity, in the form provided in the tender documents.

3.7.4 The performance security will be discharged by the Procuring entity and returned to the Candidate not later than thirty (30) days following the date of completion of the Tenderer's performance obligations under the Contract, including any warranty obligations, under the Contract

3.8 Inspection and Tests

3.8.1 The Procuring entity or its representative shall have the right to inspect and/or to test the goods to confirm their conformity to the Contract specifications. The Procuring entity shall notify the tenderer in writing in a timely manner, of the identity of any representatives retained for these purposes.

3.8.2 The inspections and tests may be conducted in the premises of the tenderer or its subcontractor(s), at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the tenderer or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring entity.

3.8.3 Should any inspected or tested goods fail to conform to the Specifications, the Procuring entity may reject the equipment, and the tenderer shall either replace the rejected equipment or make alterations necessary to make specification requirements free of costs to the Procuring entity.

3.8.4 The Procuring entity's right to inspect, test and where necessary, reject the goods after the Goods' arrival shall in no way be limited or waived by reason of the equipment having previously been inspected, tested and passed by the Procuring entity or its representative prior to the equipment delivery.

3.8.5 Nothing in paragraph 3.8 shall in any way release the tenderer from any warranty or other obligations under this Contract.

3.9 Packing

3.9.1 The tenderer shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract.

3.9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract

3.10 Delivery and Documents

3.10.1 Delivery of the Goods shall be made by the tenderer in accordance with the terms specified by Procuring entity in its Schedule of Requirements and the Special Conditions of Contract

3.11 Insurance

3.11.1 The Goods supplied under the Contract shall be fully insured against loss or damage incidental to manufacturer or acquisition, transportation, storage, and delivery in the manner specified in the Special conditions of contract.

3.12 Payment

3.12.1 The method and conditions of payment to be made to the tenderer under this Contract shall be specified in Special Conditions of Contract

3.12.2 Payments shall be made promptly by the Procuring entity as specified in the contract

3.13 Prices

3.13.1 Prices charged by the tenderer for goods delivered and services performed under the Contract shall not, with the exception of any price adjustments authorized in Special Conditions of Contract, vary from the prices by the tenderer in its tender.

3.13.2 Contract price variations shall not be allowed for contracts not exceeding one year (12 months)

3.13.3 Where contract price variation is allowed, the variation shall not exceed 10% of the original contract price.

3.13.4 Price variation request shall be processed by the procuring entity within 30 days of receiving the request.

3.14. Assignment

3.14.1 The tenderer shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Procuring entity's prior written consent

3.15 Subcontracts

3.15.1 The tenderer shall notify the Procuring entity in writing of all subcontracts awarded under this Contract if not already specified in the tender. Such notification, in the original tender or later, shall not relieve the tenderer from any liability or obligation under the Contract

3.16 Termination for default

3.16.1 The Procuring entity may, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the tenderer, terminate this Contract in whole or in part

- (a) if the tenderer fails to deliver any or all of the goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring entity
- (b) if the tenderer fails to perform any other obligation(s) under the Contract
- (c) if the tenderer, in the judgment of the Procuring entity has engaged in corrupt or fraudulent practices in competing for or in executing the Contract

3.16.2 In the event the Procuring entity terminates the Contract in whole or in part, it may procure, upon such terms and in such manner as it deems appropriate, equipment similar to those undelivered, and the tenderer shall be liable to the Procuring entity for any excess costs for such similar goods.

3.17 Liquidated Damages

3.17.1. If the tenderer fails to deliver any or all of the goods within the period(s) specified in the contract, the procuring entity shall, without prejudice to its other remedies under the contract, deduct from the contract prices liquidated damages sum equivalent to 0.5% of the delivered price of the delayed items up to a maximum deduction of 10% of the delayed goods. After this the tenderer may consider termination of the contract.

3.18 Resolution of Disputes

- 3.18.1 The procuring entity and the tenderer shall make every effort to resolve amicably by direct informal negotiation and disagreement or dispute arising between them under or in connection with the contract
- 3.18.2 If, after thirty (30) days from the commencement of such informal negotiations both parties have been unable to resolve amicably a contract dispute, either party may require adjudication in an agreed national or international forum, and/or international arbitration.

3.19 Language and Law

- 3.19.1 The language of the contract and the law governing the contract shall be English language and the Laws of Kenya respectively unless otherwise stated.

3.20 Force Majeure

- 3.20.1 The tenderer shall not be liable for forfeiture of its performance security or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

SECTION IV - SPECIAL CONDITIONS OF CONTRACT

Notes on Special Conditions of Contract

The clauses in this section are intended to assist the procuring entity in providing contract-specific information in relation to corresponding clauses in the General Conditions of Contract.

The provisions of Section IV complement the General Conditions of Contract included in Section III, specifying contractual requirements linked to the special circumstances of the procuring entity and the goods being procured. In preparing Section IV, the following aspects should be taken into consideration.

- (a) Information that complement provisions of Section III must be incorporated and
- (b) Amendments and/or supplements to provisions of Section III, as necessitated by the circumstances of the goods being procured must also be incorporated.

SECTION IV - SPECIAL CONDITIONS OF CONTRACT

4.1. Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, between the GCC and the SCC, the provisions of the SCC herein shall prevail over these in the GCC.

42. Special conditions of contract as relates to the GCC

REFERENCE OF GCC	SPECIAL CONDITIONS OF CONTRACT
3.7.1	<i>Performance security shall be 5% of the tenderer's sum.</i>
3.12.1	<i>Payment will be done as follows: 55% upon full delivery and installation of the items and the remaining 45% to be paid 1 year after delivery and installation of items</i>
3.18.1	<i>As 3.18.1</i>

SECTION V - TECHNICAL SPECIFICATIONS

5.1 General

- 5.1.1 These specifications describe the requirements for goods. Tenderers are requested to submit with their offers the detailed specifications, drawings, catalogues, etc for the products they intend to supply
- 5.1.2 Tenderers must indicate on the specifications sheets whether the equipment offered comply with each specified requirement.
- 5.1.3 All the dimensions and capacities of the equipment to be supplied shall not be less than those required in these specifications. Deviations from the basic requirements, if any shall be explained in detail in writing with the offer, with supporting data such as calculation sheets, etc. The procuring entity reserves the right to reject the products, if such deviations shall be found critical to the use and operation of the products.
- 5.1.4 The tenderers are requested to present information along with their offers as follows:
 - (i) Shortest possible delivery period of each product
 - (ii) Information on proper representative and/or workshop for back-up service/repair and maintenance including their names and addresses.

SECTION VI - SCHEDULE OF REQUIREMENTS

THE EMPLOYER IS

Name: **GOVERNOR - Mandera County Government**

Address: **P.O Box 13, MANDERA**

Name of Authorized Representative: **County Executive Committee Member – Health Services**

Cell phone:

E-mail/Fax:

Name of Alternative Representative: **Chief Officer – Health Services**

Cell phone:

E-mail/Fax:

The Project Manager is: **County Director – Health services**

Address: **P.O. BOX 13, MANDERA**

Cell phone:

The name (and identification number) of the Contract is: **TENDER FOR SUPPLY, DELIVERY AND INSTALLATION OF MEDICAL EQUIPMENTS TO ACCIDENT & EMERGENCY UNITS AT MANDERA COUNTY REFERRAL HOSPITAL & ELWAK REFERRAL HOSPITAL**

The works consist of: **TENDER FOR SUPPLY, DELIVERY AND INSTALLATION OF MEDICAL EQUIPMENTS TO ACCIDENT & EMERGENCY UNITS AT MANDERA COUNTY REFERRAL HOSPITAL & ELWAK REFERRAL HOSPITAL**

The Start Date shall be **AGREED WITH THE PROJECT MANAGER**

The Intended Completion Date for the whole of the Works shall be **Sixteen (16) Weeks from the commencement date as agreed with the Project Manager.**

The Contractor shall submit a revised program for the Works within **SEVEN (7) days** of delivery of the Letter of Acceptance.

The Site Possession Date shall be **AGREED WITH THE PROJECT MANAGER**

The Defects Liability period is **180 days**

The minimum insurance covers shall be; **“ALL RISKS INSURANCE”**

The period between Program updates is **15 days.**

The amount to be withheld for late submission of an updated Program is **FULL CERTIFICATE**

The proportion of payments retained is **10% percent.**

The Price Adjustment Clause **SHALL NOT** apply

The liquidated damages for the whole of the Works is **Kshs.1,000.00 (per week)**

The Performance Security shall be for the following minimum amounts equivalent as a percentage of the Contract Price **5 percent (%)**

The Completion Period for the Goods is **Sixteen (16) Weeks**

The rate of exchange for calculation of foreign currency payments is **not applicable**

The schedule of basic rates used in pricing by the Contractor is as attached [*Contractor to attach*].

Advance Payment **SHALL NOT be** granted.

The Bidder should submit **ONLY ONE (1 NO.) ORIGINAL AND A COPY** of the Bills of Quantities as indicated in Clause 4.1 of the Instruction to Tenderers.

This Tender must be accompanied by a Bid Bond or else the tender shall be disqualified.

SECTION VII - PRICE SCHEDULE FOR GOODS

Name of tenderer _____ Tender Number _____ Page _____ of _____

1	2	3	4	5	6	7
Item	Description	Country of origin	Quantity	Unit price	Total Price EXW per item (cols. 4x5)	Unit price of other incidental services payable

Signature of tenderer _____

Note: In case of discrepancy between unit price and total, the unit price shall prevail.

SECTION VIII - STANDARD FORMS

Notes on the sample Forms

1. Form of Tender - The form of tender must be completed by the tenderer and submitted with the tender documents. It must also be duly signed by duly authorized representatives of the tenderer.
2. Confidential Business Questionnaire Form - This form must be completed by the tenderer and submitted with the tender documents.
3. Tender Security Form - When required by the tender documents the tender shall provide the tender security either in the form included herein or in another format acceptable to the procuring entity.
4. Contract Form - The Contract Form shall not be completed by the tenderer at the time of submitting the tender. The Contract Form shall be completed after contract award and should incorporate the accepted contract price.
5. Performance Security Form - The performance security form should not be completed by the tenderers at the time of tender preparation. Only the successful tenderer will be required to provide performance security in the form provided herein or in another form acceptable to the procuring entity.
6. Bank Guarantee for Advance Payment Form - When Advance payment is requested for by the successful bidder and agreed by the procuring entity, this form must be completed fully and duly signed by the authorized officials of the bank.
7. Manufacturers Authorization Form - When required by the tender documents this form must be completed and submitted with the tender documents. This form will be completed by the manufacturer of the goods where the tenderer is an agent.

8.1 FORM OF TENDER

Date _____
Tender No. _____

To: _____

[name and address of procuring entity]

Gentlemen and/or Ladies:

1. Having examined the tender documents, we, the undersigned, offer to supply and deliver in conformity with the said tender documents for the sum of
 (total tender amount in words and figures) or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Tender.

2. We undertake, if our Tender is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

3. If our Tender is accepted, we will obtain the guarantee of a bank in a sum of equivalent to _____ percent of the Contract Price for the due performance of the Contract , in the form prescribed by **Mandera County Government**

4. We agree to abide by this Tender for a period ofdays from the date fixed for tender opening of the Instructions to tenderers, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

5. This Tender, together with your written acceptance thereof and your notification of award, shall constitute a Contract, between us. Subject to signing of the Contract by the parties.

6. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this _____ day of _____ 20 _____

[signature] [in the capacity of]
Duly authorized to sign tender for an on behalf of _____

8.2 **CONFIDENTIAL BUSINESS QUESTIONNAIRE FORM**

You are requested to give the particulars indicated in Part 1 and either Part 2(a), 2(b) or 2 (c) whichever applied to your type of business

You are advised that it is a serious offence to give false information on this form

Part 1 – General:

Business Name

.....

Location of business premises.

.....

Plot No..... Street/Road

.....

Postal Address Tel No. Fax

..... E mail

Nature of Business

.....

Registration Certificate No.

.....

Maximum value of business which you can handle at any one time – Kshs.

.....

Name of your bankers Branch

.....

	Part 2 (a) – Sole Proprietor Your name in full Age Nationality Country of origin • Citizenship details •												
	Part 2 (b) Partnership Given details of partners as follows: <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: center;">Name</th> <th style="text-align: center;">Nationality</th> </tr> <tr> <th style="text-align: center;">Citizenship Details</th> <th style="text-align: center;">Shares</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>.....</td> </tr> <tr> <td>2.</td> <td>.....</td> </tr> <tr> <td>3.</td> <td>.....</td> </tr> <tr> <td>4.</td> <td>.....</td> </tr> </tbody> </table>	Name	Nationality	Citizenship Details	Shares	1.		2.		3.		4.	
Name	Nationality												
Citizenship Details	Shares												
1.													
2.													
3.													
4.													
	Part 2 (c) – Registered Company Private or Public												

	
	State the nominal and issued capital of company-
	Nominal Kshs.
	Issued Kshs.
	Given details of all directors as follows
	Name Nationality
	Citizenship Details Shares
	1.....
	
	2.
	
	
	3.
	
	
4.	
.....	
.....	
5	
.....	
.....	
Date	Signature of Candidate
.....	

- If a Kenya Citizen, indicate under “Citizenship Details” whether by Birth, Naturalization or registration.

8.3 **LETTER OF ACCEPTANCE**
[letterhead paper of the Employer]

_____ [date]

To: _____
[name of the Contractor]

[address of the Contractor]

Dear Sir,

This is to notify you that your Tender dated _____
for the execution of _____
[name of the Contract and identification number, as given in the Tender documents] for the
Contract Price of Kshs. _____ [amount in figures]/Kenya
Shillings _____ (amount in words)] in accordance with the
Instructions to Tenderers is hereby accepted.

You are hereby instructed to proceed with the execution of the said Works in accordance
with the Contract documents.

Authorized Signature

Name and Title of Signatory

Attachment : Agreement

8.4 FORM OF AGREEMENT

THIS AGREEMENT, made the _____ day of _____ 20 _____ between **MANDERA COUNTY GOVERNMENT** of [or whose registered office is situated at] **P.O BOX 13, MANDERA, KENYA** (hereinafter called “the Employer”) of the one part AND _____ of [or whose registered office is situated at] _____ (hereinafter called “the Contractor”) of the other part.

WHEREAS THE Employer is desirous that the Contractor executes TENDER FOR SUPPLY, DELIVERY AND INSTALLATION OF MEDICAL EQUIPMENTS TO ACCIDENT & EMERGENCY UNITS AT MANDERA COUNTY REFERRAL HOSPITAL & ELWAK REFERRAL HOSPITAL **MCG/OT/09/2018-2019**

(*name and identification number of Contract*) (hereinafter called “the Works”) located at **Mandera County** [*Place/location of the Works*] and the Employer has accepted the tender submitted by the Contractor for the execution and completion of such Works and the remedying of any defects therein for the Contract Price of Kshs _____ [*Amount in figures*], Kenya Shillings _____ [*Amount in words*].

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and shall be read and construed as part of this Agreement i.e.
 - (i) Letter of Acceptance
 - (ii) Form of Tender
 - (iii) Conditions of Contract Part I
 - (iv) Conditions of Contract Part II and Appendix to Conditions of Contract
 - (v) Specifications
 - (vi) Drawings
 - (vii) Priced Bills of Quantities
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.

4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

The common Seal of _____

Was hereunto affixed in the presence of _____

Signed Sealed, and Delivered by the said _____

Binding Signature of Employer _____

Binding Signature of Contractor _____

In the presence of (i) Name _____

Address _____

Signature _____

[ii] Name _____

Address _____

Signature _____

8.5 FORM OF TENDER SECURITY

WHEREAS(hereinafter called “the Tenderer”) has submitted his tender dated for the construction of
..... (name of Contract)

KNOW ALL PEOPLE by these presents that WE having our registered office at(hereinafter called “the Bank”), are bound unto(hereinafter called “the Employer”) in the sum of Kshs..... for which payment well and truly to be made to the said Employer, the Bank binds itself, its successors and assigns by these presents sealed with the Common Seal of the said Bank this Day of20.....

THE CONDITIONS of this obligation are:

1. If after tender opening the tenderer withdraws his tender during the period of tender validity specified in the instructions to tenderers
Or
2. If the tenderer, having been notified of the acceptance of his tender by the Employer during the period of tender validity:
 - (a) fails or refuses to execute the form of Agreement in accordance with the Instructions to Tenderers, if required; or
 - (b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Tenderers;

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including thirty (30) days after the period of tender validity, and any demand in respect thereof should reach the Bank not later than the said date.

[date]

[signature of the Bank]

[witness]

[seal]

8.6 PERFORMANCE BANK GUARANTEE

To: _____ (Name of Employer) _____ (Date)
_____ (Address of Employer)

Dear Sir,

WHEREAS _____ (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. _____ dated _____ to execute _____ (hereinafter called "the Works");

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognised bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of Kshs. _____ (*amount of Guarantee in figures*) Kenya Shillings _____ (*amount of Guarantee in words*), and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of Kenya Shillings _____ (*amount of Guarantee in words*) as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change, addition or other modification of the terms of the Contract or of the Works to be performed thereunder or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any change, addition, or modification.

This guarantee shall be valid until the date of issue of the Certificate of Completion.

SIGNATURE AND SEAL OF THE GUARANTOR _____

Name of Bank _____

Address _____

Date _____

8.7 BANK GUARANTEE FOR ADVANCE PAYMENT

To: _____ [name of Employer] _____ (Date)
_____ [address of Employer]

Gentlemen,

Ref: _____ [name of Contract]

In accordance with the provisions of the Conditions of Contract of the above-mentioned Contract, We, _____ [name and Address of Contractor] (hereinafter called “the Contractor”) shall deposit with _____ [name of Employer] a bank guarantee to guarantee his proper and faithful performance under the said Contract in an amount of Kshs. _____ [amount of Guarantee in figures] Kenya Shillings _____ [amount of Guarantee in words].

We, _____ [bank or financial institution], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to _____ [name of Employer] on his first demand without whatsoever right of objection on our part and without his first claim to the Contractor, in the amount not exceeding Kshs _____ [amount of Guarantee in figures] Kenya Shillings _____ [amount of Guarantee in words], such amount to be reduced periodically by the amounts recovered by you from the proceeds of the Contract.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed thereunder or of any of the Contract documents which may be made between _____ [name of Employer] and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

No drawing may be made by you under this guarantee until we have received notice in writing from you that an advance payment of the amount listed above has been paid to the Contractor pursuant to the Contract.

This guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until _____ (name of Employer) receives full payment of the same amount from the Contractor.

Yours faithfully,

Signature and Seal _____

Name of the Bank or financial institution _____

Address _____

Date _____

Witness: Name: _____

 Address: _____

 Signature: _____

 Date: _____

8.8 MANUFACTURER’S AUTHORIZATION FORM

To Mandera county government
P.o box 13-70300
Mandera

WHEREAS[*name of the manufacturer*] who are established and reputable manufacturers of [*name and/or description of the goods*] having factories at [*address of factory*] do hereby authorize [*name and address of Agent*] to submit a tender, and subsequently negotiate and sign the Contract with you against tender No. [*reference of the Tender*] for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per the General Conditions of Contract for the goods offered for supply by the above firm against this Invitation for Tenders.

[Signature for and on behalf of manufacturer]

Note: This letter of authority should be on the letterhead of the Manufacturer and should be signed by a person competent.

8.9 LETTER OF NOTIFICATION OF AWARD

Address of Procuring Entity

To: _____

RE: Tender No. _____

Tender Name _____

This is to notify that the contract/s stated below under the above mentioned tender have been awarded to you.

1. Please acknowledge receipt of this letter of notification signifying your acceptance.
2. The contract/contracts shall be signed by the parties within 30 days of the date of this letter but not earlier than 14 days from the date of the letter.
3. You may contact the officer(s) whose particulars appear below on the subject matter of this letter of notification of award.

(FULL PARTICULARS) _____

SIGNED FOR ACCOUNTING OFFICER

FORM RB 1

REPUBLIC OF KENYA
PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD
 APPLICATION NO.....OF.....20.....

BETWEEN

.....APPLICANT

AND

.....RESPONDENT (*Procuring Entity*)

Request for review of the decision of the..... (*Name of the Procuring Entity*) of
dated the...day of20.....in the matter of Tender No.....of
20...

REQUEST FOR REVIEW

I/We.....,the above named Applicant(s), of address: Physical
 address.....Fax No.....Tel. No.....Email, hereby request the Public
 Procurement Administrative Review Board to review the whole/part of the above
 mentioned decision on the following grounds , namely:-

- 1.
- 2.
- etc.

By this memorandum, the Applicant requests the Board for an order/orders that: -

- 1.
- 2.
- etc

SIGNED(Applicant)

Dated on.....day of/...20...

FOR OFFICIAL USE ONLY

Lodged with the Secretary Public Procurement Administrative Review Board on
 day of20.....

SIGNED

Board Secretary

9.1 **FORM OF POWER OF ATTORNEY**

(All bidders shall complete this form otherwise, their bids shall be considered non-responsive)

We _____ (Name of Bidder)

having our offices located in _____ (Name of Town and Building) duly authorize.

_____ (Name of person appointed to act for and on behalf of the bidder) to act for and on our behalf on all matters pertaining to the execution of works as stipulated TENDER FOR SUPPLY, DELIVERY AND INSTALLATION OF MEDICAL EQUIPMENTS TO ACCIDENT & EMERGENCY UNITS AT MANDERA COUNTY REFERRAL HOSPITAL & ELWAK REFERRAL HOSPITAL **MCG/OT/09/2018/2019.**

Duly signed and delivered:

Name of appointed attorney: _____

Signature of appointed attorney: _____

Witnessed by:

1. Name of First Company Director: _____

Signature: _____

2. Name of Second Company Director: _____

Signature: _____

Company Seal:

SIGNED

Board Secretary

BILLS OF QUANTITIES

TECHNICAL SPECIFICATIONS

1. ICU ELECTRIC 5 Function BED

The ICU Bed should be 5 function column model electric bed with the following:

- a. Backrest, leg rest, auto contour, height (up - down), Electronic CPR, Trendelenburg and reverse Trendelenburg positions are controlled by 2 DC and 2 Column motors.
- b. Positions controlled by “Hand Remote Control” (located on head side rails) and “Nurse Remote Control” (located by the foot end).
- c. Head and foot boards made of PP plastic and easily clearable. These parts can also be assembled and disassembled easily.
- d. Lying surface consists of 4 pieces easily clearable ABS plastic.
- e. 4 pieces folding side rails are made of PP plastic and have release system assisted by gas spring.
- f. Automatic back sliding and leg sliding functions to be availed in the bed.
- g. Must be provided with battery to provide continuous energy in case of electricity cut off. 24V battery backup.
- h. Metal chassis is epoxy polyester electrostatic painted and covered with ABS plastic.
- i. Bumpers to be located at each corner of the bed to protect the bed against crushes.
- j. Accessory sockets located at each corner of the bed for IV poles or traction sets.
- k. One adjustable IV pole to be provided with the bed.
- l. Drainage bag holders at both sides of the bed.
- m. Angle indicator on each side rail part.
- n. 4 patient restraint strap holders (2 on each side).

DIMENSIONS:

- Full Length: 220 cm
- Full Width: 105 cm
- Minimum Height: 48 cm
- Maximum Height: 88 cm
- Mattress Length : 190 cm
- Mattress Width : 90 cm
- Weight Capacity: 250 kg

OPERATING ANGLES:

- Back Movement: 0°- 70°
- Leg Movement: 0°- 30°
- Vascular Position
- Knee Movement
- Height Adjustment
- Trendelenburg & Reverse Trendelenburg: 0°- 17°
- Cardiac Position

CONTROL PANELS:

- Backrest, legrest, automatic contour and height (up -down) positions adjustable electronically by Hand Remote Control.
- Backrest, legrest, height (up - down), trendelenburg, reverse trendelenburg and CPR positions adjustable electronically by Nurse Remote Control.
- All functions of the bed to be lockable by remote control keys.

BRAKE AND STEER SYSTEM:

- a. Brakes to be applied on all four castors (all castors lockable). Ø125 mm, 360° swivel wheels with central brake system and directional lock
- b. All four castors to be free to rotate and swivel.
- c. STEER System whereby three castors can rotate and swivel, the steering castor can only rotate but cannot swivel.

MATTRESS:

- Waterproof and zipped cover,

- CNC cut,
- Adaptable to all movements
- 32 kg/m³ density foam
- 90 cm x 110 cm x 11 cm (h)

ELECTRIC FEATURES

AC Voltage: 220-230 V, Frequency: 50 HZ

Warranty: 1 year

Should be CE certified.

2. ICU Ventilator	
Intensive Care Ventilator Description	
State of the art ventilator for use in intensive care, critical care, intermediate care and emergency care	
Have a Built-in air source turbine technology with maximum continuous flow ≥ 260 L/min for invasive and non-invasive ventilation	
Have capability to support single-limb and dual-limb circuits	
Have an inbuilt Nebulizer and integrated Humidifier	
Life-supporting ventilation of adult, pediatric and neonatal patients ≥ 2 mL tidal volume	
Have a Wide-range oxygen supply 0 ... 7 bar (0 ... 100 psi)	
Weight ≤ 10 kg for intra-hospital transport ventilation	
Independent battery operation ≥ 4 hours	
Operating concept must be modern, easy to use and self-explaining.	
Have a Color touch screen ≥ 13 inch	
Automatic barometric compensation	
Complete automatic self-check upon startup	
Ventilator Modes to be provided	
Have Non-invasive (NIV) ventilation with automatic leakage compensation ≥ 100 L/min	
CPAP / PEEP (INV and NIV)	
<u>Pressure supported</u> ventilation (PSV) (INV and NIV)	
<u>Pressure controlled</u> / assisted / SIMV ventilation (INV and NIV)	
<u>Volume controlled</u> / assisted / SIMV ventilation	
APRV with pressure support (Airway Pressure Release Ventilation) (INV and NIV)	
PRVC (pressure regulated volume controlled) (INV and NIV)	
Have Time controlled dual mode (e.g. day/night)	
Have Dual control mode (spontaneous / mandatory)	
Have NIV mask adaptation mode	
Inspiratory and expiratory hold	
Automatic O ₂ increase to 100% for 2 minutes	
Patient Monitoring	
Have Simultaneous display of up to 8 curves or loops	
Able to monitor these Curves	Pressure
Flow	
Volume	
CO ₂	

2. ICU Ventilator	
Loops Volume / Flow Pressure / Flow	Pressure / Volume
Screen that allows free configuration of curves and monitoring parameters	
Patient-proximal flow measurement	
Exhalation monitoring: Tidal Volume, Minute Volume, Peak Flow	
Timing monitoring: Rate, Insp. Time, Exp. Time, I:E	
Pressure monitoring: Peak, Plateau, Mean, PEEP,	
Lung mechanics: Compliance (static and dynamic), Resistance (insp. and exp.) Lung over-distention parameter	
NIV and spontaneous monitoring: % spontaneous breaths, spontaneous inspiration time, spontaneous. exp. volume, RSBI (Tobin Index)	
Maneuver-related monitoring: AutoPEEP, P0.1, NIF negative inspiratory force,	
Waveform freeze and cursor measurements	
Trending data recording ≥ 3 months of all monitoring parameters	
Control Settings	
Capability for automatic initial settings according to selected patient type, height and pathology	
FiO ₂	21 ... 100 %O ₂
Tidal Volume	10 ... 2500 mL
Inspiratory pressure	0 ... 80 mbar (cmH ₂ O)
PEEP	0 ... 40 mbar (cmH ₂ O)
Respiratory rate	1 ... 100 bpm
Flow trigger sensitivity	0.1 ... 20 L/min
Pressure trigger sensitivity	0.1 ... 15 mbar
Exhalation sensitivity	5 ... 90 % of peak flow
Automatic	
Alarms	
Automatic initial alarm settings according to selected patient type, height and pathology	
Alarm lights visible from all angles	
Alarm history ≥ 2000 alarms	
Capable to automatically adjust directly related alarms on change of ventilation settings	
EtCO ₂ high/low, inCO ₂ high	
Accessories	
Have a Trolley, support arm and cylinder holder	
Silicone Breathing Circuit, filters, masks – 2 sets	

2. ICU Ventilator	
O ₂ supply hose	
O ₂ input filter and water trap	
Fixation for oxygen cylinder	
Test lung	Adult
Adult adjustable	
Pediatric / Infant adjustable	
Neonatal	

Must be CE marked and FDA approved.

Warranty: Minimum of 1 year.

Vendor must submit evidence of trained personnel for service and applications.

Show past contracts of similar model offered.

3. Fluid Warmer Specifications

High performance warming system is capable of delivering fluids or blood at a continuous 40 degrees celsius from keep-vein-open (KVO) to 200 mL/minute.

The warmer unit is extremely compact and fits in the palm of your hand.

Unlike competitor warmers that heat fluids from the IV pole, the enFlow Fluid Warmer is placed close to the patient which helps prevent loss of heat while the IV fluid travels to the IV site.

Enflow recommends that the fluid warmer be placed 9 inches from the IV site.

The EnFlow Power Unit (sold separately from the warmer) mounts on the IV pole and displays the heated fluid temperature.

The fluid warmer is reusable with the purchase of disposable cartridges that contain the heating element that is inserted into the warmer with each use.

Warranty: 1 year

Must be ISO, CE, FDA approved

Specification

4. INFUSION PUMP SPECIFICATIONS

Infusion Modes: Continuous, 25- steps, TPN, Intermittent.

Piston Mechanism

Color Display Size (W/H): 3.7x4.9 cm

Flow Rate Accuracy: ± 5 %

Resolution (W/H): 240x320 pixels

Flow Rate Range: 0.1 - 1200 ml/h

Programmable Infusion Time: 100 hrs

Volume to be Infused: 0.1 - 9999 ml

KVO Rate: 0 (OFF) - 5 ml/h

Ultrasonic Air Sensor: Air bubble size 0.1 – 1 ml

Occlusion Pressure: 100-1500 mmHg

Post-Occlusion Bolus Protection

Pressure Sensor mechanism.

Pump Alarms/Alerts: Air-in-Line, Occlusion (up/down stream), End Program, Low Battery, End Battery, Pump Unattended, Door Open, Lock Mode, Missing Key.

Power Supply: 240V AC, 50/60 Hz

Battery Rechargeable Li-Polymer 7.4V 1800 mAh. Life at 125ml /h: Up to 17 hrs

RS232 Serial Port

Weight (with standard battery): 390 g

Warranty: Minimum of 1 year

Must be certified by CE and ISO certified.

5. SYRINGE PUMP SPECIFICATIONS

Infusion Modes: Lock On, Lock off, rate mode and Time mode.

Linear Syringe Driver Mechanism

Display Size (W/H): 5.1x2.8 cm

Resolution (W/H): 128x64 pixels

Syringe Size: 2 – 60 ml

Flow Rate Accuracy: ± 2 %

Syringe Brands: All brands programmable

Flow Rate Range: 0.1 – 1500 ml/h

Programmable Infusion Time: 10 mins – 100 hrs

KVO Rate: 0 (off) to 2ml/hr

Max Syringe Travel: 106 mm

Occlusion Pressure: 100 – 1500 mmHg

Pump Alarms/Alerts: Syringe not Recognized, Occlusion, End Program, Near End/Nearly Complete, End Syringe Travel, Low Battery, End Battery.

Power Supply: 240V AC, 50/60 Hz

Battery Rechargeable Li-Polymer 7.4V 1800 mAh. Life at 125ml /h: Up to 15 hrs

RS232 Serial Port

Weight (with battery): 411 g

Dimensions; pump only (H/W/D): 205 x 98 x 45 mm

Warranty: Minimum of 1 year.

Must be certified by CE and ISO.

6. PATIENT MONITOR SPECIFICATIONS

Display

Type: 12.1 inch wide colour LCD

Resolution: 1024 x 600, WSVGA

Waveforms: maximum 14

Sweep speed: Circulatory: 6.25, 12.5, 25, 50 mm/s

Respiratory: 6.25, 12.5, 25 mm/s

Waveform Display: Stationary trace mode.

Operation

Touch screen method

Jog dial with push key

5 fixed keys: NIBP Start/Stop, Home, Menu, Previous display and Alarm silence.

Parameters

Waveform: ECG, IBP (max 2 ch), SpO₂, RESP.

Measurement: HR, ST, VPC, IBP, SpO₂, RR, PR, APNEA, NIBP, TEMP (max 4 ch), CO₂, and CO.

Arrhythmia analysis: ASYSTOLE, VF, VT, Slow VT, RUN, Tachy, Brady, Bigeminy, Frequent, Couplet, Trigeminy and PAUSE.

ECG

Measuring range:

Adult/Child: 0, 12 to 300 bpm

Neonate: 0, 30 to 300 bpm

Measurement accuracy: ± 3 bpm

Size: 1/4, 1/2, 1, 2 and 4

HR Display response time:

Adult/Child: 6 sec

Neonate: 3 sec
Defibrillation proof provided.

Respiration

Measurement Method: Impedance
Measuring range: 0, 4 to 150 Bpm
Measurement accuracy: ± 3 Bpm

SpO2

Measuring method:
2 Wavelength Pulse wave
Module: Nellcor/Masimo technology
Measuring range: 1 ~ 100%
Measurement accuracy: $\pm 3\%$ (Nellcor)/ $\pm 2\%$ (Masimo)
PR measurement range: 20 ~ 250bpm
PR accuracy: ± 3 bpm

Temperature

Measurement Method: Thermistor
Measuring range: 0 to 45 °C
Measurement accuracy: ± 0.2 °C
Number of channels: 4 max.

Invasive Blood Pressure

Measuring range: -50 to 300 mmHg
Measurement accuracy: ± 1 mmHg
PR measurement range:
Adult: 12 to 300bpm
Neonate: 30 to 300bpm
PR accuracy: ± 1 bpm or $\pm 3\%$
Number of channels: 2 max.

Non-Invasive BP

Measuring method: Oscillometric
Measuring range:
Adult: 10 to 280 mmHg
Child: 10 to 180 mmHg
Neonate: 10 to 130 mmHg
Static Pressure accuracy: ± 3 mmHg
PR measurement range: 40 to 240bpm
PR accuracy: $\pm 5\%$
Safety Mechanism:
Adult: 300 mmHg or above
Child: 210 mmHg or above
Neonate: 150 mmHg or above

Graph Trend

24 hours/ 4 selectable groups/ 34 items

Tabular Trend

24 hours/ 6 selectable groups/ 85 items

External connection

Serial connector (COM1~2)

CF / SD card slots

DS-LAN connector

AUX connector

Status I/O connector (II-1)

Dimensions

Main unit: 300 (W) x 265 (H) x 75 (D) mm

Weight

3.5 Kg

Power

Power requirements: AC 100 ~ 240V, 50/60Hz

Power consumption: 60 VA max.

Battery operation time: 3 hours

Environmental condition

Operating environment: Ambient temperature: 10 to 40°C

Relative humidity: 30 to 85%

Transport/Storage: Ambient temperature: -10 to 60°C

Relative humidity: 10 to 95%

Safety

General Standard: EN 60601-1: 1990 EN 60601-1-1: 2001

Electrical Shock Protection: Class I

Conformity: CE Marking per 93/42/EEC Directive

Usable lifetime

6 years according to the self-certification.

Accessories to be provided:

ECG Relay cable 1pc

SPO2 Sensor 1pc

Body Surface Temperature Probe 1pc

Wall mount for monitor to be wall mounted

Must be ISO and FDA approved.

Warranty: Minimum of 1 year.

Training and Installation should be included.

7. Central Monitoring System 16 monitor monitoring Specifications

Intelligent central multi-bed and multi-physiological parameter monitoring system.

Wire or wireless networking with the patient monitors within the HDU and ICU.

Central station should have facility to display upto 20 real time waves at a time and monitor up to 16 beds at the same time

Central station should have separate patient window for viewing detailed real-time or stored data for individual patient

Should have 240 hr stored patient data monitoring – trends

Should have 24 hr event review facility

Should have multi lead arrhythmia and ST review facility.

Should have 50 alarms strips storage per bed.

Should offer wave review with 24 hr full disclosure

Should support HL7 output

To have an optional facility for dual display for detailed analysis of individual bed without compromising on full ICU monitoring.

Remote display (Slave) facility should be available if necessary

Real time recording through dual channel recorder should be possible.

Should have facility for interfacing a laser printer for printing patient information and trend formats. To have advanced arrhythmia analysis package

Should have 12 Lead ECG Monitoring.

Continuous full disclosure of up to 4 configurable waves per patient

Alarm condition should be stored with waveforms (up to 4 waves per event)

Should operate on Microsoft Windows NT workstation operating system

Should be supplied with UPS back up.

Central Station Should be supplied with:

(2) Double display 17” flat screen TFT display with resolution of 1024x768 pixels

Laser printer and Recorder

UPS

Entire networking and cabling with hardware and wireless connectivity to monitors in HDU, ICU.

Warranty: 1 year

Must be FDA approved and ISO certified.

8. DEFIBRILLATOR

Features

- Biphasic technology.
- Truncated Exponential Waveform adapted to patient's impedance.
- Simple and intuitive.
- Portable and lightweight.
- Control of the defibrillator and the printer from the paddles.
- Integrated pediatric paddles.
- Operates from the mains (AC), from a vehicle battery (DC) and with its internal battery.
- Auto test when switched on and during operation.

Compact Flash” memory card

Only two buttons in AED mode

VT/VF alarm.

Visual and acoustic messages.

Selector cover: Manual or AED.

Accessories

- 4-lead patient cable.
- 5-lead patient cable (standard).
- 10-lead patient cable.
- Internal paddles.
- Multifunction electrodes.
- Carrying case.
- Ambulance bracket (EN 1789 certified).

Technical Specifications

GENERAL

- Dimensions 310 mm (W) x 249 mm(D) x 195 mm (H)
- Weight Unit with printer, multifunction disposable electrodes and without battery: 5.2 Kg
- External reusable paddles: 0.95 Kg
- Battery: 0.8 Kg

MONITOR

- ECG monitoring :4, 5 or 10 lead patient cable, paddles or multifunction disposable electrodes
- Sensitivity :0.5 -1 - 2 - 4 cm/mV
- Heart rate: 0 to 300 ppm
- Configurable alarms: Heart rate, pulse oximetry (only for equipment's with this option) and VT/VF alarm (only for equipment's with AED option)
- Bandwidth: 0.67-40 Hz or 0.05-150 Hz (diagnostic, only on printer)
- Common mode rejection :100 dB at 50/60 Hz

SCREEN

- Size:115 x 86 mm (1/4 VGA) 5.7 inches
- Resolution: 320 x 240 points
- Sweep rate: 25 mm/sec
- Display time: 4.5 sec (x 2 in cascade mode)

DEFIBRILLATOR

- Waveform :Biphasic truncated exponential adapted to the patient's impedance
- Manual Energy: 1 - 2 - 3 - 5 - 7 - 9 - 10 - 15 - 20 - 30 - 50 - 70 - 100 - 125 - 150 - 200 J (nominal at a resistance of 50 ohms)
- Synchronized cardioversion: Discharge begins within 60 msec of the QRS peak
- Paddle options :Reusable external adult paddles (paediatric paddles integrated)

Multifunction disposable electrodes

Reusable internal paddles (optional)

- AED: Defibrillable rhythm detection algorithm meets AHA and IEC requirements
- Max energy level:200 J
- Charging time Less :than 5 sec. at 200 J with a new and fully charged battery
- Resuscitation guidelines: Factory set Guideline 2010 (ERC/AHA)

PACE MAKER

Stimulation mode: On Demand and Fixed with selectable frequency and current

- Frequency :30 to 180 ppm
- Current: 0 to 150 mA
- Waveform :Type: Rectangular constant current
Duration: 40 ms
- Refractory period: 340 ms from 30 to 80 ppm
240 ms from 85 to 180 ppm

RECORDER

- Paper :50 mm thermal
- Speed: 10, 25 and 50 mm/sec
- Operating mode: Manual, automatic, 8 second delay

DATA STORAGE

Compact Flash memory card: Minimum capacity 16 MB

- Information: Continuous ECG signal and events

Audio (optional only in automatic mode)

100 last events with the associated ECG signal

PULSE FREQUENCY

- Range :25 -240 ppm
- Accuracy during: ± 2 ppm
- Accuracy during: ± 5 ppm

BATTERY

- NIMH BATTERY: Rechargeable
- Capacity :
 - more than 130 discharges at 200 J
 - Monitoring: More than 150 minutes
 - Monitoring plus Pacemaker (60 ppm and 60 mA): More than 120 minutes

CHARGE STATUS AND LOW BATTERY INDICATOR

- Charging time: 3 hours
- AC: 100 - 240 VAC, 50/60 Hz
- DC :10 -16 VDC

Environment

- Operating temperature: 0 to 50 °C
- Storage temperature: -20 to 60 °C
- Relative humidity: 10 to 95 % (not condensed)
- Shocks: IEC 60068-2-27
- Vibration :IEC 60068-2-64

Warranty: 1 year

Should be CE certified

9. Suction Machine Specifications

Motor: Oilless and maintenance free piston pump.

Noise Level: 61.5Db.

Power Consumption: 220 V.

Max. Flow Rate: 40l/min

Weight: 6.20kgs.

Electric with 2x2Litre Jars.

Provided with 10 antibacterial filter.

Size: 32 x 99 x 30cm.

Vacuum Range: 600mm Hg, 0.80 Bar 80 kPa.

Warranty: 1 year.

10. BLOOD GAS ANALYZER SPECIFICATIONS

MEASURED PARAMETERS-

po2
pCO2
PH
Total Hemoglobin (tHb)
Barometric pressure
Na+
K+
Ca++
Li+
Cl-
Glucose
Lactate.

INPUT PARAMETER-

Patient Temperatures
Hemoglobin (tHb)
Fraction of inspired Oxygen (FIO2),
Respiratory Quotient (RQ).

CALCULATED PARAMETERS-

Hydrogen ion conc. (H+)
Actual Bicarbonate (HCO3-A)
Base excess (BE)
Standard base excess (SBE)
Total CO2 (TCO2)
Buffer base (BB)
O2 saturation of hemoglobin (O2sat)
O2 content of concentration (O2CT)
Partial O2 press at 50% O2 sat (P50)
Alveolar to arterial oxygen- tension grade (AaDO2)
Anion gap (A- GAP)
SHUNT
Acid base status
Hematocrit (Hct)

DATA OUTPUT

Display-illuminated, LCD display
Printer- Inbuilt thermoprinter
Interface- RS 232

CALIBRATION

Automatic

SPECIMEN

Specimen container- capillary and syringe delivery
Specimen type- whole blood, serum, plasma/respiratory gas.

ELECTRICAL DATA

Voltage -230V
Frequency – 50/60Hz
Ambient temperatures 12°c -32°c

Warranty: 1 year
ISO, CE certified

11. ANAESTHESIA WITH MONITOR SPECIFICATIONS

General Description

Compact, highly efficient, easily operable, built to last anaesthesia trolley equipped with the high performance bag in bottle ventilator with advanced ventilation modes both volume-controlled and pressure-controlled complete with all accessories for low and high flow anaesthesia, adult, paediatric and infant application including a patient monitor unit.

Composition

- Main unit
- 6” OVGA display with control knob
- ORC Rotameter (with 25% oxygen safeguard and oxygen alarm)
- Selectatec Vaporizer mounting system with 2 vaporizers Halothane and Isufloren
- APL arm with Y-piece connector and bag hook
- Writing shelf
- Patient tubing holder
- Two drawers
- Absorber block (CO2 bypass) with soda lime canister
- Common gas outlet
- Built-in suction system with pressure gauge
- Three gas pressure gauges (O2, N2O, air)
- Two cylinder holders at back
- Two gas cylinder pressure gauges at front
- Anti-static castors with brake

Fresh gas delivery: Non-decoupled + Fresh gas compensation flow system going directly to the patient protected with high pressure alarm and active anti-barotrauma safety feature without interrupting the inspiration cycle.

Tidal volume delivery: In CMV/VCV ventilation mode **10-1600ml** without the need to change bellows. Dynamic tidal volume automatic compensation system (breath-by-breath) to compensate for changes in changes in fresh gas settings, tubing and lung compliance and leaks and resistance.

Physical specifications

Trolley dimensions

Height	158 cm (62.2 in)
Width	65 cm (25.6 in)
Depth	80 cm (31.5 in)
Weight	approx. 150kg
Length	

Casters (4)

Diameter	12.5 cm (4.9 in)
Brakes	Front casters

Top shelf dimensions

Height	4.5 cm (1.8 in)
Width	62.5 cm (24.6 in)
Depth	57 cm (22.4 in)

Writing surface dimensions

Width	39.5 cm (15.6 in)
Depth	28.5 cm (11.2 in)

Drawer (3) internal dimensions

Height	10 cm (3.9 in)
Width	20 cm (7.9 in)
Depth	33 cm (13 in)

Ventilator specifications

Type	Pneumatically driven, electronically controlled
Breathing system	Balanced Bag-in-Bottle system (horizontal)
Breathing circuit	Semi-closed, Closed or Semi-open
Patient Range	Neonatal to morbidly obese patients
Fresh gas delivery	Non-decoupled + Fresh gas compensation system
Fresh gas setting	High flow, low flow or minimal flow
Tidal volume delivery	Dynamic tidal volume compensation system (breath-by-breath)
Compensates for fresh gas, resistance, compliance and leaks	
Flow pattern	Decelerating flow pattern in all ventilation modes
Ventilation modes	MAN/SPONT, CMV, SIMV(+VS), PCV(+PS), PSV + Apnoea backup
Working pressure	3 - 8 bar (43.5 - 116 psi)

Adjustable parameters

Tidal Volume	10 - 1600 ml
Incremental settings	10 to 100: per 5 ml
	100 to 200: per 10 ml
	200 to 500: per 20 ml
	500 to 1600: per 50 ml
Insp. Pause	0 - 50 % (per 5 %)
I:E Ratio	1:6 to 4:1
Breathing Frequency	4 – 80bpm
Peak Pressure PCV)	6 - 70 hPa
Peak Pressure PSV)	6 - 40 hPa
Incremental settings	6- 40/70 hPa
PEEP	0 - 20 hPa
Pressure Trigger	OFF, -2 to -20 hPa (SIMV, PCV)
Flow Trigger (PSV)	-1 to -10 L/min
End Flow (PSV)	50 - 5 % of peak flow

Displayed parameters

Tidal Volume	ml
Minuted Volume	Lpm
Peak Pressure	hPa, cm H2O
Plateau Pressure	hPa, cm H2O
Mean Pressure	hPa, cm H2O
PEEP	hPa, cm H2O
Static Compliance	ml/hPa, ml/cm H2O
Pressure waveform	-10 to 100 hPa, cm H2O
Frequency (MAN/SPONT, PSV)	bpm
Pressure scale	25 / 50 / 100 hPa, cm H2O
Time scale	4 / 10 / 20 seconds

Adjustable alarms

Upper Limit (pressure)	7 - 99 hPa
Lower Limit (pressure)	2 - 94 hPa (CMV, SIMV) 2 - 68 hPa (PCV) 2 - 38 hPa (PSV)

Minimum Min. Volume 0.5 – 20LPM

High oxygen alarm	OFF, 20 - 99 %
Low oxygen alarm	18 – 97%
Apnoea alarm (MAN/SPONT)	OFF, after 15 seconds

Ventilator components

Reusable flow sensor which does not need calibration and with a warranty of minimum 5 years. In absence of a guarantee of minimum 5 years the offer should include reusable flow sensors guaranteeing minimum 5 years of operation. Lifetime of flow sensor needs to be specified.

Ventilator components

Integrated flow sensor

Type	Differential pressure
Life span	≥ 10 years
Autoclavable	Yes

Ventilator Screen	
Display type	Full-colour TFT
Display size	25.4 cm (10 in)

CO2 absorber (reusable)

Filling capacity	1.5 L (adult)
Autoclavable	Yes
Integrated safety valve	120 hPa
CO2 bypass	Yes (automatically)

Vaporiser mounting blocks (3)

Type	Selectatec / Dräger plug-in
------	-----------------------------

Agents	Halothane,
Isoflurane,	

Filling capacity	260 - 360 ml
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Rotameter block (mechanical)

O2 (cascade)	0 - 1 L/m; 0 - 10 L/m
N2O (single tube)	0 - 12L/m

AIR (single tube) 0 - 15 L/m
Satefy systems ORC (minimum 25 % O2)
Hypoxic guard (N2O
cut-off if O2 < 1.8 bar).

Breathing system

Total volume ±1.8 l (w/o internal bag)

Communication port

RS-232 compatible serial interface

Electrical specifications

Mains power

Power input 240 V, 50 - 60 Hz
Power consumption < 100 VA
IEC 601 class and type Class 1, type B

Backup power

Battery type Sealed lead-acid
Run time ≥ 1.5 h
Life span ± 5 years at 20°C

Pneumatic specifications

Front common gas outlet

Connector

22 mm OD, 15 mm ID

Activated by

Selector FRONT / ABS

Pressure gauges

Pipeline O2

0 - 10 bar (0 - 145 psi)

Pipeline N2O

0 - 10 bar (0 - 145 psi)

Pipeline AIR

0 - 10 bar (0 - 145 psi)

Gas supply

Pipeline inlet range

3 - 8 bar (43.5 - 116 psi)

Pipeline connections

NIST + any fitting

Cylinder input

NIST (standard)

Cylinder fittings

Maximum 3

Drive gas selection

Automatic (O2 /
AIR)

O2 flush

Range $\geq$ 35 L/m

Type Non-decoupled = 100 % O2 to patient

APL valve

Range	0 - 60 hPa
Environmental specifications	
Operating temperature	10 - 40 °C
Storage temperature	-20 - 70°C
Ambient pressure	570 - 1060 hPa
Relative humidity	10 - 95 % (non-condensing)
Electromagnetic compatibility	Complies with all requirements of EN 60601-1-2

PATIENT MONITOR

Parameters: ECG, RESP, TEMP, SpO2, NIBP and ETCO2.

Display: Size: 15 inch colour LCD

Waveforms: Maximum 3 waveforms

Display method: Stationary trace mode

Sweep speed: Circulatory: ECG, SpO2 (12.5, 25 and 50 mm/s). Respiratory: RESP (6.25, 12.5 and 25 mm/s).

Operation: Jog dial with push key

5 fixed keys: Alarm silence, NIBP Start/Stop, NIBP interval, Home and Menu Print key.

ECG: Lead type 3, 4 or 5 lead

Input impedance 2.5MΩ or more

Maximum input range10mV p-p or more

RESP: Measurement Method Impedance

Measurement Range 0 - 150 Bpm

Measurement Accuracy ± 3 Bpm

TEMP: Measurement Method - Thermistor

Measurement Range 0 - 50°C

Measurement Accuracy ± 0.2°C

SpO2: Module: Nellcor SpO2 technology

Measurement Method: 2 Wavelength Pulsation

Measurement Range: 1 -100%

Measurement Accuracy: ± 2% (70 - 100%)

PR measurement Range: 20 -300 bpm

PR measurement Accuracy: ± 3 bpm (20 □ 250 bpm).

± 0 bpm (251 □ 300 bpm)

NIBP

Measurement Method: Oscillometric

Measurement Range: Adult: 0 - 300 mmHg

Child: 0 - 210 mmHg

Neonate: 0 - 150 mmHg

Measurement Accuracy: ± 3 mmHg

General

Dimensions225 (W) x 201 (H) x 142 (H) mm

Weight: Approximately 3 Kg

Power requirements: AC 240 V, 50/60Hz
Battery operation: Approximately 4 hours
Monitor to have a telemetry connector system.

Accessories to be provided:

- Sodalime 4.5Kg 2pcs
- Mapleson Breathing Circuits 2 each.
- Jackson Rees Circuits 2 each.
- PVC hose O2, 3mtr. + NIST + BS 1pc
- PVC hose N2O, 3mtr. + NIST + BS 1pc
- PVC hose AIR, 3mtr. + NIST + BS MA4 1pc
- PVC hose VAC, 3mtr. + NIST + BS 1pc
- ECG Relay cable 1pc
- SPO2 Sensor 1pc
- ETCO2 Module 1pc
- Body Surface Temperature Probe 1pc

Must be CE marked.

Warranty: Minimum of 1 year.

Vendor must submit evidence of trained personnel for service and applications.

Training and Installation should be included.

12. Autoclave 80 Litres

Autoclave, table top model, 80Ltrs		
General Description		
Automatic controlled steam sterilizer suitable for sterilization of wrapped or unwrapped Solid instrument, class A cavity instruments (dental, endoscopic), implantable devices, such as dressing fabric, rubber tube, surgical instruments. The autoclave should be table top model with high-grade stainless steel materials and a sterilizer chamber capacity of about 80 Liters		
Performance Specifications		
Application	For sterilization of wrapped or unwrapped Solid instrument, class A cavity instruments (dental, endoscopic), implantable devices, such as dressing fabric, rubber tube.	
Sterilization agent	Saturated steam with inbuilt steam generator	
Sterilization cycle	Fully automatic with Pre – vacuum, heating (steam pulsating), sterilization (holding), post vacuum (drying). With inbuilt printer capable of printing each successful sterilization cycle	
Design temperature	144°C	
Design pressure	-0.1Mpa to 0.3MPa	
Design service life	8 years/16000cycles	
Sterilization chamber design and capacity	Cylindrical type, about 80 liters, all high grade stainless steel SUS304 construction	
Chamber thermal	Viscose insulating layer	
Chamber heat	Laminate heating film	

	Test interface port Water tank Sterilization Chamber door Control unit Detection device Steam generator Water to steam generator Printer Safety features	RC1/4 port Built in water tank, with water quality monitoring system Automatic lock and unlock, with safety interlock, front opening. Film panel operation, with large LCD (minim3 inch) display of cycle progress i.e. temperature, pressures and time. With different programmable cycle programs for different type of loads. PLC control, modularization design Pressure sensor, display the pressure on the screen In built, Electrical heating single phase 240V, 50 Hz Distilled water or pure water In built thermal printer capable of printing each successful cycle. Automatically save 6 cycle date when lack paper. The autoclave should have major safety features such as: Safety pressure relief valve, overheating protection Door lock under pressure safety interlocking
	Physical characteristics Main unit External dimensions	Table top design About 105cm x 75 cm x 56cm (WxHxD)
	Operating environment Power Requirements Ambient temperature Relative humidity	240V, A/c 50 Hz, Single phase, with PE 10° C to 40° C 40% to 90%
6	Accessories	
	Stainless steel tray.	3
6.1	Printing papers	10 Rolls
8	Sterilizing Drums	2 pcs compatible with the autoclave to be provided

Warranty: 1 year

Must be CE/ISO certified

13. DIATHERMY 300W SPECIFICATIONS

1	Nominal initial power – monopolar max. 300 W
2	Bipolar 100 W
3	Nominal frequency 350 kHz
4	Working regimes:
5	mono-polar scission
6	mono polar scission with coagulation
7	possibility to choose degree of coagulation
8	mono coagulation – soft, forced and spray
9	bi-polar coagulation –soft, forced and section
10	Automatic regulation of working regime depending on: type of tissue, scission velocity and parameters of the electrode used;
11	Automatic start with bi-polar coagulation with possibility to choose the start time
12	Neutral electrode loop control per electric current and impedance
13	Possibility to operate by pedal and manual buttons
14	Auto test of the instrument and the accessories functionality
15	Alarm in case of errors
16	Possibility to program the appliance depending on the individual needs and requirements.
17	Completion of the Electric Coagulator
18	neutral electrode – multiple
19	neutral electrode cable
20	two-step pedal
21	electrode handle with two buttons
22	electrode handle cable
23	electrodes for scission and coagulation
24	a set with a standard bipolar pincers
25	Each bipolar pincer 19 cm, straight
26	bi-polar pincers cable
27	All accessories for operation must be supplied
28	Warranty: 1 year
29	Must be CE certified

14.

Operating Theatre Table Specifications

Operating table designed for carrying out treatments, dressing interventions and operations of general surgery.

All exposed metallic parts shall be made from stainless, acid proof steel and with antistatic pressure management mattress 6cm thick.

The table base shall be mobile and shall have central brakes with floor lock for stability.

Back rest and leg rest inclination angle, carbon fiber kidney elevator, Trendelenburg and reverse-Trendelenburg positions and height adjustment of the table top shall be activated by electro - hydraulic system.

The table top shall be translucent for x-rays with 5 separate Sections including a shoulder section.

Table top length 2072 mm

Table top width 520mm

Minimal height of the table 680mm

Maximal height of the table 1120mm

Trendelenburg 30°

Reverse Trendelenburg 30°

Lateral tilt at least 20°

Back rest inclination angle +80° to 50°

Head rest inclination angle 60° up

Head rest inclination angle 90° down

Leg (Up/Down): 20°/90°

Leg (Open, 2pieces): 0° - 180°

Kidney Elevator (Up): 0 – 120mm

Weight Capacity: at least 227 Kg / 500lbs

Power requirements: 240 VAC ±10 %, 50Hz. Fully rechargeable battery set to last for approx. 20 full operation cycles.

Table to be provided with complete Orthopedic traction system

Accessories:

Anaesthetic Screen with clamp with telescopic tubes : 1

Body restraint Strap with clamp : 1

Padded Shoulder supports : 2

Padded Leg support with swivel type clamp : 2

Padded arm Rests 450 -500 mm long with two arm Clamps : 2

Padded Lateral support with universal attachment Clamp : 2

Warranty: 3 years

Must be CE/ISO certified

15. Theatre Operating Lights Specifications

Ceiling Mounted, Dual dome LED Technology

Central illuminance (100 cm) [lx]: 160,000 / 120,000

Electrical dimming capability from/to [lx]	48,000 – 160,000
Colour temperature [K]	4,500
Focusable size of light field size d10 at a distance 1 m [mm]	200– 330
Electrical field adjustment	yes
Colour rendering index Ra in any colour temperature configuration	96
Red rendering index R9	96
Depth of illumination without additional focussing (L1+L2) at 20 % [mm]	1,100
Depth of illumination without additional focussing (L1+L2) at 60 % [mm]	1,100
Weight of light head [kg]	18
Light head power consumption [W]	66
LED lifetime [h]	> 50,000
Temperature increase at head height	< 1°C
Field of illumination	2,940 cm²
Tolerance	±10%
Warranty: 1 year	
ISO / CE certified	

16. Dressing Trolley

- Size: 76L x 46W x 81H cms
- Mild Steel Frame Work, epoxy powder coated
- Stainless Steel Shelves
- With One Bucket and One Bowl
- On Castors

17. Emergency Trolley

- Multipurpose Trolley with various useful compartments, shelves & drawers
- With Compartments for Medicines, medical consumables & various utilities
- With Three or more Shelves to keep Surgical Machines
- Cylinder Cage
- On Castors
- With Push Handle

18. Mayo’s Instrument Trolley

- Stainless steel framework
- Stainless Steel Tray
- Tray Size: 56L x 40W cms
- Height Adjustable by Knob
- On castors

19. Patient Stretcher Trolley

- Overall Size: 180L x 56W x 81H cms
- Frame work made of tubular M.S. Pipe
- Swing away type Safety Side Railing
- Adjustable I.V. rod, Utility Tray, Cylinder Cage
- Removable Stretcher Top
- Foam padded Top
- Trolley mount on 15 cms Diameter Castors – Two with Brakes
- Epoxy Powder Coated Finish

20. THEATRE HOSPITAL BED FOR RECOVERY

Hospital Fowler Bed 1 function, backlift
 Size : 210L x 90W x 60H cms.
 Framework of steel, 4 section top.
 Finish : Beautiful Epoxy Powder Coating.
 Castors : 125mm diameter two with Brakes
 Provided with Mattress, Drip stand

21. General Surgical Instruments for Orthopaedics

Made of high quality stainless steel grade
 Configuration of set to be as specified below

	ORTHO MAJOR SET	
S.NO	PARTICULAR	QUANTITY
1	SS TRAY - BIG 12" x15"	2
2	SS BOWL -BIG	2
3	KIDNEY TRAY - LARGE	2
4	KIDNEY TRAY - MEDIUM	2
5	TOWEL CLIP	12
6	SPONGE HOLDER	6
7	BP HANDLE NO. 3,4 AND 7	6
8	LENGAN BAG RETRACTOR - SMALL,MEDIUM,LARGE	3
9	C-ZERNEY RETRACTOR	1
10	SUCTION TIP - NO. 15	2
11	ADSON FORCEP - NON TOOTHED 12 CM	2
12	ADSON FORCEP - TOOTHED 12 CM	2
13	DISSECTING FORCEP - NON TOOTHED 12CM,15CM,20CM	2
14	DISSECTING FORCEP - TOOTHED 12CM,15 CM,20CM	6
15	PERIOSTAL ELEVATOR - CURVED	2
16	PERIOSTAL ELEVATOR - STRAIGHT	2
17	MOSQUITO ARTERY - CURVED 10 CM	10
18	MOSQUITO ARTERY - STRAIGHT 10 CM	10
19	ARTERY FORCEP - CURVED 12 CM	6
20	ARTERY FORCEP - STRAIGHT 12 CM	6

21	ARTERY FORCEP - CURVED 15 CM	6
22	ARTERY FORCEP - STRAIGHT 15 CM	6
23	ARTERY FORCEP - CURVED 18CM	6
24	ARTERY FORCEP - STRAIGHT 18CM	6
25	ALLIS FORCEP - 12 CM,15CM,20 CM	6
26	KOCHERS CLAMP - STRAIGHT 12CM,15 CM,20 CM	12
27	KOCHERS CLAMP - CURVED 12CM,15CM,20 CM	12
28	BABCOCK FORCEP - 15 CM,20 CM	2
29	NEEDLE HOLDER - HEAVY 18 CM,15 CM,12CM	6
30	NEEDLE HOLDER - FINE TIP 12 CM	2
31	METZ SCISSOR - CURVED 20 CM	2
32	METZ SCISSOR - STRAIGHT 20 CM	2
33	METZ SCISSOR - CURVED 15 CM	2
34	METZ SCISSOR - STRAIGHT 15 CM	2
35	MAYO SCISSOR - CURVED 15 CM	2
36	MAYO SCISSOR - STRAIGHT 15 CM	2
37	MIXTARD ARTERY - 12 CM	2
38	MIXTARD ARTERY - 15 CM	2
38	Lamboeet bone holding forceps 26cm	1
40	Lane bone holding forcep with rachet 32cm	1
41	Stille lower bone rounger forceps 23cm curved	1
42	Ruskin-liston bone cutting forceps 16.5 cm	1
43	Osteteome set	1
44	Screw driver set	1
45	Currete bone set	1
46	Drill bit, bone, twist,	1
47	Drill, bone, hand operated	1
48	Saw, Amputation, 350mm	1
49	liston amputation knife Amputation,	1
50	Introducer for steinmans pins	1
51	Scissors, wire cutting, 130mm	1
52	Mallet (Hammer)	1
53	Gauge (Bone)	1
54	Bone levers	1
55	Hand drill	1
56	Backmann retractor hinged blade 4x4, 21cm	1
57	Gigli saw handle, apair	1
58	K NAILS. Different sizes	2 of each size
59	Electrical Drill	1

22. Amputation set

ITEM DESCRIPTION	QTY
Liston bone cuttingforceps	4
Straight 140mm	
Straight 220mm	
Curved 140mm	
Curved 220mm	
Briston periosteal elevator	1
Bone Rongeurforceps:	2
Angular 230mm ± 10	
Straight 230 mm ±10	
Large Heygroove bone holding forceps	2
Sequestrum forceps	1
Bone file large	1
Amputation sheild	1
Butcher saw or charriere 35mm	1
Army amputation saw	1
Gigli saw handle, apair	1

23. Large Fragment Set	QTY
Bone reduction forceps large 240mm with thread lock.	2
Bone reduction forceps small 160mm with thread lock.	2
Plate and bone holding forceps large [270mm].	2
Plate and bone holding forceps medium [260mm].	2
Plate and bone holding forceps small [250mm].	2
Malleolar forceps with pointed tips.	1
Aluminum case with its cover perforated.	1
Sharp hook.	1
Combination wrech, width across flat, 11mm.	1
Articulated tension device with gauge 20mm span.	1
Counter sink large 4.5mm	1
Hex screw driver large with wooden handle for quick coupling width across 3.5mm.	1
Universal drill guide 4.5/3.2mm.	
Depth gauge with sleeve for 4.5mm and 6.5mm screws.	1
Drill sleeve double 6.5mm/3.2mm.	1
Drill sleeve double neutral and load drill guide3.2mm	1
Screwdriver Shaft, hexagonal, large 100mm	1
Bending Press	1

24. Small Fragment Set

Name of Item	QTY
Aluminium Case, perforated	1
Drill Bit, 2.5mm dia.,for quick coupling 110/85mm	4
Drill Bit, 3.5mm dia., for quick coupling 110/85mm	4

Countersink Shaft 3.5 72mm	1
Tap for Cortex Screws 3.5mm	2
Tap for Cancellous Bone Screws 4.0mm	2
T-Handle with quick coupling 80mm	2
Double Drill Sleeve 3.5/2.5	1
Insert Drill Sleeve 3.5/2.5 42mm Drill Bit 2.5mm dia.	1
Screwdriver, hexagonal, small, with Holding Sleeve	1
Screwdriver Shaft, hexagonal, small, for quick coupling 100mm	1
Screwdriver, hexagonal, small, with groove 200mm	1
Holding Sleeve 80mm	1
Depth Gauge for Screws 2.7mm to 4.0mm	1
Sharp Hook 155mm	1
Screw Forceps, self-retaining 85mm	1
DCP Drill Sleeve 3.5 for neutral and load position	1
Bending Iron, slit widths 4.5/2.5mm 150mm, for Plates 2.7 and 3.5	1
Bending Iron, slit widths 2.5/4.5mm 150mm, for Plates 2.7 and 3.5	1
Bending Pliers for Plates 2.4 to 4.0mm	1
Bending Template for DCP 3.5 and LC-DCP 3.5 80mm	1
Bending Template for DCP 3.5 and LC-DCP 3.5 110mm	1
Wire Bending Pliers 150mm	1
Bending Iron, for Kirschner Wires 1.25 to 2.5mm dia. 120mm	1
Bending Pliers for Reconstruction Plates 2.7 and 3.5m	1
SMALL CORTICALS CREW SIZE	
SMALL CANCELLOUS SCREWS [SHORT THREAD]SIZE	
CONCELLOUS SCREW 4.0MM (FULLY THREADED)	
PLATES	
Clover leaveplates	
One third tubular platessizes	
One third tubular platessizes	
Dynamic compression plate3.5mm	
T- Plates R &L	
CORTEX crews – Sizes as per platehole	

25. Kuntscher instrumentation set

Container Tray	1
diamond point awl.	1
Femur 10mm	1
Reamer	1
Slotted hammer	1
slotted nail driver	1
nail driver 6-8 mm	1
nail driver 9-12mm	1
nail driver 13-20mm	1
nail extractor with hooks.	1

measuring gauge	1
mallet	1

26. WIRE INSTRUMENTS SETS	QTY
Forceps for holding circlage wire[Finochietto].	1
Wire bending, cuttingplier.	1
Vise grip	1
Flat nosed parallel plier with lateral wire cutter	1
Wire cutter small 180mm.	1
Wire cutter large 220mm	1
Wire guide 45mm different sizes	1
Wire tightener.	1
Cerclage wire coil differnet sizes	1

27. Diagnostic Complete Set

The Complete Set features

- Bayonet locking mounts for each instrument head to allow secure connection to the battery handle
- "C" cell powered, satin finish battery handle with knurled finish
- Rheostatic on/off switch
- Complete in zippered case with fitted insert that is scuff and scratch resistant and cleans easily
- Weighs 23 1/2 oz (666g)

Otoscope features

- Chrome-plated Otoscope head with removable 4x magnifying lens, and insufflator fitting
- Auto-clavable, polypropylene ear specula in 2.5mm, 3.5mm, and 4.5mm sizes
- Adapter to allow use with Welch Allyn or compatible disposable specula
- Nasal speculum adapter with manual screw opening for instrumentation connects to the otoscope head
- Welch Allyn disposable polypropylene ear specula in 2.75mm and 4.25mm sizes are convenient, safe, and economical

Ophthalmoscope features

- Ophthalmoscope head with lens wheel featuring 24 corrective lenses from –25 to +40 diopters

Bent Arm Illuminator features

- Chrome-plated bent arm larynx and nasopharynx illuminator for lighting the oral cavity and pharyngeal area
- One 3.0mm and one 4.0mm mirror with integral tongue depressor holder that attaches to the illuminator
- One tongue depressor attachment for the illuminator
- One disposable tongue depressor adapter for the illuminator

Warranty: 1 year

28. Ambu Bag - Adult

Self-Inflating Bag, Patient Valve, Face Masks size 3, 4 and 5, Translucent Guedel Airways sizes 2, 3 and 5. Oxygen Reservoir Bag. Capacity: 2.6 Litres. Patient Connection is 22 / 15mm.

29. Electronic Adult Weighing Scale

- ❖ Electronic professional weighing scale with 250 kg capacity.
- ❖ Heavy duty platform with 2 castors for easy movement.
- ❖ Automatic length measuring and BMI calculation.
- ❖ Battery and mains operation are supplied as standard.
- ❖ Bioelectrical impedance analysis of body fat, body water, muscle and bone mass and analysis of the fat free mass. Functions:
 - Tare,
 - hold,
 - automatic zero setting,
 - low battery indication,
 - auto switch off,
 - BMI,
 - memory,
 - RJ11 interface for electronic height measure

Capacity	250 kg
Graduation	100 g
UT	kg, lbs
Dimensions	320 x 320 mm

30. Infant scale Digital

Electronic baby and toddler weighing scale for clinic and hospital use.

Digital LCD screen.

Removable soft curved baby tray that gives comfortable space to babies.

Allows toddlers to be weighed in a standing up position.

The weight of the infants is measured precisely in 5 g steps.

Functions:

- Tare,
- hold,
- automatic zero setting,
- low battery indication

Capacity: 20 kg

Graduation: 5 g

Dimension: 560 x 280 x 95mm

31. Fiberoptic Laryngoscope Set

- 4 Macintosh blades
- Both “AA” and “C” cell battery handles
- Foam lined, fitted case with carry handle
- Batteries included

Fiberoptic Battery Handles

- Light source in handle simplifies blade cleaning, allows for use of brighter, whiter light
- Satin handles with a knurled finish for a positive grip
- Color coded green to signify compatibility ONLY with fiberoptic blades

32. Infra-Red Thermometer

Thermometer features

- One-second measurement using scan/peak technology
- Large 6mm illuminated display
- Temp range from 89.6°F - 108°F +/- .2°F (32°C - 42.2°C +/- .1°C)
- °F/°C switchable display
- Fever alarm at 99.5°F (37.5°C)
- Last reading memory
- Audible beep when measurement is complete
- Auto off conserves battery life
- Compact design - 5 1/2” (13.97cm) long, weighs 1.6oz. (45.3g) including battery
- Powered by 1.55v (CR2032) lithium battery (included)
- Includes 20 probe covers in convenient dispenser
- Desktop storage caddy

33. Penlight Torch

- LED lamp for bright, white illumination for true tissue rendering
- LED lamp provides 10,000 hours of use eliminating the high cost of replacement lamps
- Durable CNC machined brass housing in a striking blackmatte finish

- Measures 55/8" long, 1/2" diameter
- Positive feel power switch
- Convenient Pocket Clip
- Complete with two "AAA" batteries and an attractive gift box
- Lifetime warranty on lamp cartridge, two-year warranty on penlight

34. Stethoscope Adult / Pediatric

- Convertible chestpiece provides adult diaphragm/bell or adult/pediatric diaphragm configurations
- ADC's AFD Technology provides enhanced acoustic response in both adult and pediatric diaphragm
- Stainless steel chestpiece and aural tube construction.
- Extra deep bell for unsurpassed low frequency response
- Non-chill bell and diaphragm retaining rims for patient comfort
- Cardiology headset with large bore stainless steel binaurals are fixed at 15° angle to maximize comfort and acoustic seal
- Bi-lumen (dual bore) 19" PVC tubing stays soft and flexible
- Adsoft™ threaded PVC eartips for the ultimate in wearing comfort and acoustic seal
- Includes accessory kit with bell chestpiece, extra Adsoft™ and standard eartips
- Scope ID Tag included
- Weighs 7.57 oz. (adult bell) and 8.57 oz. (pediatric diaphragm)
- Overall length 28"

35. X-Ray View Box-CFL Tube Illumination

- Elegant Plastic Body
- High Quality Viewing Screen for Uniform and Soft Light
- On/Off Switch on Panel
- Automatic On/Off Switch with film insertion
- Input Power supply: AC 240V

36. Wheel Chair Specification

Weight Capacity	Upto 250 Lbs.
Type of Wheelchairs	Manual
Rear Wheel Diameter	60 inch
Handle Height	90 inch
Front Wheel Diameter	1.5 inch
Frame Material	Stainless Steel
Seat Material	Rexine and Foam padding
Rear Wheel Distance	58 inch
Feature	With rear wheel brakes

37. ULTRASONIC NEBULIZER FOR MEDICAL USE SPECIFICATIONS

TECHNICAL DATA

COMPRESSOR: PISTON COMPRESSOR
MAX PRESSURE: 350 kPa
OPERATING PRESSURE: 0 - 130 kPa
AIR FLOW: 17 lt/min
OPERATING CYCLE: CONTINUOUS
NOISE LEVEL: 60 dBA
DIMENSIONS: 37 x 10 x 24H cm
WEIGHT: 2.6 kg

ACCESSORIES INCLUDED

FASTERJET NEBULIZER WITH VALVE SYSTEM (POLYPROPYLENE)
NOSEPIECE (POLYPROPYLENE)
MOUTHPIECE (POLYPROPYLENE) WITH VALVE (SILICONE)
ADULT MASK (PVC DEPH FREE)
CHILD MASK (PVC DEPH FREE)
AIR TUBE (PVC DEPH FREE)
SPARE FILTER
POWER CORD

NEBULIZER TECHNICAL DATA

CAPACITY: 17 ml
RESPIRABLE VOLUME: < 5 µm 80%
MMAD (Mass Median Aerodynamic Diameter): 2, 11 µm
NEB RATE: 0.35 ml/min (60kPa) – 0.80 ml/min (130kPa)
RESIDUAL VOLUME: 0.7 ml

Warranty: Minimum of 1 year.

38. Bed Side Screen (4 Panels)

- Size: 165 H x 240 L cms
- Tubular Framework mounted on 5cms castors with Curtains
- Framework of Mild Steel, epoxy powder coated
- On Castors
- Supplied with 1 set of curtains, 4 Fold

39. Blood Donor Couch (Three Sections)

- Overall Size: 150L x 50W x 46H cms
- Framework made of Stainless Steel
- Back rest & leg rest section adjustable on Ratchet / Lever
- Legs fitted with PVC Stumps
- 5 cms foam cushioned top covered with rexine
- Adjustable Arm Rest

40. Drip stand with 4 hooks

IV / Drip Stand

Material: Stainless steel frame work. **Dimensions (mm):** 635 (W) x 1570x2560 (H).

Standard Features: Knob screw for adjustable height. 50 mm swivel castor on 4 prong legs. Double IV hook.

41. Examination Couch

- Approx Size: 180L x 60W x 75H cms
- Framework of CRC Tube
- Legs fitted with PVC stumps
- 5 cms foam cushioned top covered with rexine
- Pre-treated & Epoxy powder coated

42. Medicine Trolley/Utility Trolley

- Size: 76×46×81
- Mild steel epoxy powder coated framework
- Stainless Steel shelves
- 1 Drawer below top shelf
- On castors

43. Fetal Doppler

High performance fetal heart beat detector

Which can detect real-time

Fetal heart rate and average FHR

Should have a large LCD screen display the FHR and an audio output port connected with earphone or recorder with audio input

Uses 9V battery standby for 3 months or continual using for 5 hours

FEATURES:

Should be Light weight and portable, easy to use

Should have Large back light LCD display FHR, Built in HI-FI speaker, clear fetal heart beat sound

Should be accurate FHR detection, has real-time FHR mode and average FHR mode

Optional rechargeable battery and charger

Technical specifications

Work mode: continue wave ultrasonic Doppler

Frequency: 2.0 MHz $\pm$ 10%

Max ultrasound output :< 20Mw

ISPTA :< 10Mw/cm²

FHR Range: 60-210BPM (time/minute)

FHR Resolution: 1 BPM

FHR accuracy: $\pm$ BPM

Display: 45x25mm LCD, 3 bit FHR

Audio output: 0.5W

Auto –off: 2 minutes

Battery: 9V, recommend NANFU 6LR61

Size: 36mmx115mmx130mm

Net weight: 300g (with battery)

Work environment temperature: +5⁰c-+40⁰c

Humidity: $\leq$ 80%

Atmospheric pressure: 86kpa-106kpa

44. Handheld Pulse Oximeter

- Easy Operation by 2.8" color TFT & Touch Screen
- Large Font and Waveform Display
- Patient History Data Recall
- Two Display Directions
- Graphic and Tabular Trends
- Data Transfer and Storage to PC via
- USB or Bluetooth
- Continuously Adjustable Brightness
- Audio and Visual Alarm
- SpO2 Pulse-tone Modulation (Pitch Tone)

PERFORMANCE SPECIFICATIONS

Display: 2.8_color TFT, touch screen

Resolution: 320 _ 240

Indicator: Alarm indicator

Power indicator

Alarm: Probe off, Finger out, Low power

Modes: Visual and Audio

User-adjustable High and Low limits

Display direction: Two

Trend storage: Min 72 hours

SPO2

Measurement range: 0% ~100%

Resolution: 1%

Accuracy: $\pm$ 2% (70~100%)

Unspecified (0~69%)

Alarm range: 50~100%

Refreshing rate: 1s

PULSE RATE

Range: 30 ~ 254 bpm
Resolution: 1bpm
Accuracy: ± 2 bpm
Alarm range: 30~250 bpm
Refreshing rate: 1s

ENVIRONMENT SPECIFICATIONS

Temperature: Operating: 0_50 °C
Storage: -20_65 °C
Humidity: Operating: 10_90 °C non-condensing
Storage: 10_95 °C non-condensing

POWER

Type: 3 AA Alkaline
Operation time: About 9 hours for normal operation

Warranty: 1 year

45. Oxygen Concentrator Specifications

Single Flow 5lpm
Noticeably quiet operation.
Readily accessible patient controls, protected cannula fitting and recessed humidifier nook to prevent damage.
Lockable flow meter.
Convenient top and side handles for easy transport.
Accommodating up to a 50-foot oxygen tubing plus 7-foot cannula (15.3 meters).
Robust design for improved durability
Easy to assemble/disassemble two-piece cabinet for ease of maintenance

Alarms indicate:

- Power failure
- High/low pressure
- Low oxygen
- Service required

Pressure-compensated flow meter to ensure accurate flow display.
Pressure-relief valve and thermal protection on the compressor.
Flame-retardant cabinet.
Double insulated unit; two-prong plug.

High Oxygen concentration levels over the whole flow range
Variable Flow rate up to 5 l/min
OSD Sensor for continuously monitoring Oxygen levels

Dimensions: 62.2 x 34.2 x 30.4cm (HxWxD)
Flow Rate: 0.5 – 5Litres / Min.
Oxygen Concentration at 0.5 – 5Litres/min: 93% $\pm 3\%$.
Weight: 16.3Kg.
Power: 230V/50Hz.

Warranty: 1 year

46. Vital Signs Monitor Specifications

1. General Description

Patient Monitor suitable for use in operating theaters, HDU, wards. Should be capable of continuous measuring/ monitoring of the following parameters in adults, neonatal and pediatric.

- Temperature –
- Blood pressure –
- Pulse Rate –

The unit should be mounted on a mobile cart.

- Flexible configurations to meet different clinical needs
- Lightweight & portable design
- User-friendly interface
- Auto/Manual/Continuous/Average

2. Composition

2.1 Main unit

2.2 Mobile cart

3. Performance Specifications

3.1 Main Unit

3.1.1 The unit should be a model or type on current production capable of measuring/monitoring the following parameters

3.1.2 SpO₂, with reusable sensor 0 - 100% ± 3% -

3.1.3 Pulse Rate 30-300 bpm ± 1%

3.1.4 Temperature 0-50⁰C ± 0.1%

3.1.5 NIBP Mean 10- 300mmHg ± 5 mmHg

3.1.6 IBP Mean 50 – 300mm Hg ± 1 mmHg

3.2 Display 5.6 inches color TFT colour LCD,

3.2.1 Resolution about 800X 600

3.2.2 6 to 8 waveforms mode with large font

3.4 Recorder Inbuilt, thermal array or equivalent

3.4.1 Two speed, selectable

3.4.2 Port for external printer

3.5 Networking Port for networking with Ethernet or equivalent Or Serial Port RS 232

3.6 Input In built with provision for connection of external Keyboard.

3.7 Storage Capable of storing patient data and transferring to a PC for viewing or printing.

4 Safety requirements

4.1 Audio and visual alarm For all parameter.

4.2 Alarm setting limits Adjustable by user

4.3 Low battery indicator Audio and visual alarm

4.4	Internal battery	Provided, rechargeable, can operate for at least 3 hours
5	Mobile cart	On four castors ϕ 60mm, two with brakes
6.1	Power Requirements	240V, A/c 50 Hz, Single phase, 3 Pin Plug, 3m long cord BS type with PE
6.2	Internal rechargeable battery	Maintenance free type, Up to 8 hours operating time
6.3	Ambient temperature	10° C to 40° C
6.4	Relative humidity	40% to 90%

Should be CE /ISO/FDA approved.

Warranty of 1 year.

47. Examination Lamp LED

Cold Lamp LED Technology

Gooseneck for ease of movement

Luminance: 55,000 lux at a distance of 50cm and 25,000 lux at 100cm (1 m)

Ra Index: >93

Illumination Field up to 50cm

Mobile with 5 castors and brake system.

LED lifetime: >50,000 hours

48. ECG 12 channel Machine

ECG signals	12 standard leads according to Einthoven, Goldberg, Wilson and Cabrer
Working mode	automatic and manual
Printout	Should be capable to have 3/6/12 channels
	Settable printout – accuracy thickness of printed curve lines
	In-built printer
	A4 printout directly on an external PCL5/6 printer option
Analysis and interpretation	automatic analysis and interpretation in compliance with EN60601-2-51 (CSE base)
	Depends on age and gender of a patient
Heart pacemaker detection	Detection of heart pacemaker peaks
	Acoustic signalling of detected beats

Functional features	database of patients and examinations
	menu displayed on a touch screen for easy operation
	multilingual menu
	continuous HR measurement presented on a screen
	ECG examinations on an open heart available
	ECG-M@IL function for examinations' sending to an e-mail address
	saving ECG examinations in CadioTEKA or SCP format
	signalisation of accumulator voltage reduction
	signalisation of accumulator charging
	INOP signalisation independent for each electrode
Display	full-colour, graphical LCD TFT 10.4" 480x640 with a touch panel
	presentation of 3/6/12 leads on a screen
	reviewing saved examinations on a screen
	presentation of analyses and interpretation on a screen
Keyboard	membrane alphanumeric keyboard with functional keys
Sensitivity	2.5/5/10/20 mm/mV
Speed	5/10/25/50 mm/s
Filters	contour line filters available: 0.15 Hz, 0.45 Hz, 0.75 Hz, 1.5 Hz
	mains disturbance filter 50 Hz, 60 Hz
	muscular disturbances filter 25 Hz, 35 Hz, 45 Hz
Paper	EASY LOAD – automatic paper loading system
	thermoactive, wax and dust free
	210 mm wide
Memory	memory of 2000 examinations
Power supply	main supply 90 - 264 V, 47-63 Hz
	internal accumulator with charger, 21.6 V/2.2 Ah to perform 300 automatic examinations
Communication interface	USB Host x 2 – communication with an external PCL5/6 printer and/or FlashDrive
	USB Device – communication with PC
	ethernet – communication with a local network
Dimensions	(LxWxH) 370x372x94 mm
Gross weight/packing dimensions	Weight 4.7 kg
	8 kg / (LxWxH) 430x440x195 mm
Standard accessories	patient cable KEKG30
	suction electrodes EPP – set of 6
	clamp electrodes EKK – set of 4

	ECG gel – 250 g
	ECG paper R210 – 1 pc
	ethernet cable
	supply cable
Warranty	1 year
Certifications	CE/ISO

49.

Foetal Monitor – Cardiotocography CTG Specifications

		TENDER SPECIFICATIONS
NAME, CATEGORY AND CODING		
1	Generic name	Cardiotocography (CTG)
2	Alternative name/s	Electronic fetal monitor
3	Keywords	Fetal heart rate (FHR), fetal movement, uterine contraction, intra-partum care
PURPOSE OF USE		
4	Clinical or other purpose	Noninvasively detect, measure, and display FHR, fetal movement, uterine contraction, SpO2, and maternal heart rate at minimum. Ideally detect, measure, and display maternal pulse rate, maternal blood pressure, and multiple births in a noninvasive way. The primary purpose of the CTG is to provide quick reassurance of fetal well-being to both the mother and the healthcare worker.
5	Level of use (if relevant)	Health centers and above.
6	Clinical department/ ward (if relevant)	Obstetrics, gynecology, and maternity wards, Gynecology physician office
7	Overview of functional requirements	CTGs are routinely used by physicians, medical doctors, nurses, and midwives to record FHR values. Abnormal readings can quickly alert them to possible complications. Alarm should be either visual or audible.
TECHNICAL		

CHARACTERISTICS		
8	Detailed requirements	• Microprocessor controlled equipment
		• LCD display with numeric information of at least fetal heart rate, fetal movement, uterine contraction, SpO2, and maternal heart rate.
		• Integrated software to provide objective numerical analysis of CTG trace
		• Audio output
		• Audio volume control system integrated
		• Ultrasound working frequency in the range 1 MHz to 2 MHz
		• Sensitivity to detect fetal heart beats should be appropriate for pre-natal check-ups to antepartum monitoring and during labor and delivery.
		• Heart rate measurement range should be between 50-240 bpm
		• SpO2 ranges 0-100% (+/- 3 digits)
		• Toco range: 0100% (+/- 1 unit)
		• Fetal movement: 0-100.
		• Maternal heart rate: 30-240 bpm (+/- 1bpm)
		• At least one integrated serial port for PC connection and data transmission.
		• Cable for data transmission.
		• Memory storage capacity of at least 8 hours of working data.
		• Printing speed should be between 1cm and 3 cm per minute with capability to adjust the speed.
		• In-built printer.
9	Displayed parameters	Numeric information of FHR, maternal heart rate, and maternal SpO2 at minimum. Size of the display should be 5-7 inches. Easily readable font size.
10	User adjustable settings	Volume control; power on/off.

PHYSICAL/CHEMICAL CHARACTERISTICS		
11	Mobility, portability (if relevant)	Table-top size, easy to be carried by health workers by hand or on a trolley.
UTILITY REQUIREMENTS		
12	Electrical, water and/ or gas supply (if relevant)	Should meet Tanzania Electrical Standards (voltage of between 220-240 V and the standard frequency of 50-60 Hz) with type G adaptor System.Should have rechargeable batteries. Battery operation supports at least 8 hours of operation.
ACCESSORIES, CONSUMABLES, SPARE PARTS, OTHER COMPONENTS		
13	Accessories (if relevant)	Transducers, Toco transducers, Sizeadjustable belt, SpO2 transducers/sensors, Maternal ECG, Other accessories to be included in order to enable monitoring and measurement of FHR, fetal movement, uterine contraction, SpO2, and maternal heart rate. Need to be available for separate purchase.
14	Consumables / reagents (if relevant)	Gel and recording paper. A start-up kit that includes gel (at least 350mL) and paper (at least two rolls or packs) should be packaged with the device at time of purchase.
15	Spare parts (if relevant)	Spare parts can be ordered from domestic sources. Lead-time for spare parts should be no more than 1 week.
PACKAGING		
16	Shelf life (if relevant)	Shelf life of gel: at least 24 months from the date of manufacture. Shelf life of Thermal paper: at least 3 years from the date of manufacture.
ENVIRONMENTAL REQUIREMENTS		

17	Context-dependent requirements	Operating temperature: 10-40°C, Operating humidity: <95%
		Thermal paper: should be stored in a dark place at a relative humidity less than 65% and a temperature below 26.5°C.
TRAINING, INSTALLATION AND UTILISATION		
18	Training (if relevant)	User training is required regarding operation of the device, first-line preventive maintenance, and interpretation of results. Training to MSD and service personnel is also required in order for provide inspection upon receipt of the device, maintenance, and repair. Training of trainers should be arranged by a supplier.
19	User care (if relevant)	Capable of easy cleaning. Patient worn straps to be detachable and washable. No sterilization required. Instructions for routine care should be provided by a supplier.
WARRANTY AND MAINTENANCE		
20	Warranty	1 year full warranty

Must be ISO and FDA approved

- 50. Patella Hammer
- 51. Wall Mounted Diagnostic System
- 1. **Wall mounted Diagnostic set**
- 2. **complete with Ophthalmoscope and Otoscope with Blood Pressure measurement.**

CRANIOTOMY SET

Ramphley Sponge Holding Forceps	5
Band Parker Handle No. 4	2
Band Parker Handle No. 3	1
Band Parker Handle No. 5	1
Mayo Scissors 7 1/2" Curved	1
Mayo Scissors 7" Curved	2
MacIndoes Scissors 7" Curved	2
Delicate Metzebaum Scissors Curved 7"	1
Careless Ligature Scissor	1
Bonney Dissecting Forceps Toothed 7"	1
Adson Dissecting Forceps Non Toothed 5"	1
Adson Dissecting Forceps Toothed 5"	1
Trevers Dissecting Forceps Non Toothed 8"	1
Cairn Artery Forceps Curved 7"	24
Cairn Artery Forceps Straight 7"	6
Allis Tissue Forceps 6"	4
Kocher Artery Forceps Straight 7"	2
Back Hauls Towel Clips 5 1/4"	12
Cairns Rake Scalp Retractor 4 Prong 8 1/4"	2
Electric Drill	1
Harper Laminectomy Punch	1
Cone Laminectomy Retractor 5 1/4"	2
Cone Laminectomy Retractor 10 1/2"	2
Lakellis Ronguor Double Action 9 3/4	1
Luer Jansen Rongour Forceps (Duckbill) 2x10mm	1
Mack socks Periosteal Elevator	1
Cushing Periosteal Elevator 2x10mm	1
Nasal Polyp Forceps Watson Williams	1
Cushing Intravertebrae Roungain Upwards 2x10mm	1
Swedish Model Double Ended Dissector	1
Macdonald Dissector	1
Gilgil Saw Handle	4
Gilgil Saw Guide & Protector	4
Johnson Tumor Forceps	1
Cairn Dura hook 5 1/2"	1
Cairn Brain Cannular with Stillet	1
Frazier Suction Tube 11 Fr with Stillet	1
Frazier Suction Tube 9 Fr with Stillet	1
Stanley Boyd Scoop Double Ended 6"	1
Kilner Needle Holder 5 1/2"	1
Mayo Needle Holder 6"	1

Insulated Bayonate Bipolar Forceps	1
Bayonate Bipolar Forceps Non – Toothed (Blue Holder) 7 1/4"	4
Mayo Pins 4"	4
Carbide Tip Needle Holder 5"	1
Burs No. 14	2
Ligature Clip Applying Forceps (Blue Handles)	1
Malleable Brain Retractor	4
Adson Dura Needle Holder 5 1/2"	1
Perforator	1
Stille Luer Ronguer (Straight)	1
Lane Dissecting Forceps Toothed 5"	1
SS tray 18" x 24"	1
penfield dissector	1
micro adson forceps serated	2
Yasargil microform bayo forceps 9mm	3
Yasargil Tumor Holding forceps	3

KEY SPECIFICATIONS OF ENDOSCOPY (GASTROSCOPY) EQUIPMENT

PROCESSOR & LIGHT SOURCE QTY 1

- Processor and Light Source must be in one unit
- Processor & Light Source must be capable of providing **Narrow Band Imaging (NBI)** a natural optical light enhancement technology
- The light must be provided by a LED Light source to minimise energy consumption and also decrease sound and energy during use
- 16:9 and 16:10 output for HDTV monitor should be available
- A Portable memory slot must be available to save still images
- The system must provide Auto Peak and Average Iris modes available for observation
- The system should be able to register up to 50 patient data. Registration details should include:-
 - Patient ID • Patient name • Sex and age • Date of birth
- There must be availability of Pre Freeze to obtain least blurry image for printing
- White balance should be adjustable from the front panel of the system
- There must be availability of 2 types of structure enhancements to obtain best results
- The functions of the remote switches on the endoscope should be programmable

MONITOR QTY 1

- 26 Inch full HD LCD Monitor
- Aspect Ration 16:10

TROLLEY/ WORKSTATION QTY 1

- The workstation should be supplied with an isolation transformer which complies with BS- EN 60601- 1 and have anti static castors
- The workstation should have an articulating arm with both horizontal and vertical movement to allow the monitor to be positioned at the optimal height and position.
- Scope hangar pole must be present to enable users to rest scopes before use
- Must have an ergonomic and clean design

!

GASTROSCOPE QTY 1

- Must provide for HD (High definition) imaging
- Must be able to provide Narrow Band Imaging
- Must have one touch **Waterproof** Connectors, to enable cleaning scopes by total immersion and no requirement of waterproof caps.
- Must have close focus of up to only 2mm from surface of mucosa
- Field of View 140Deg
- Depth of field 2- 100mm
- Distal Outer Diameter 9.2mm
- Channel Diameter 2.8mm
- Total Length of endoscope should be 1350mm
- Angulation
 - UP 210Deg
 - DOWN 90Deg
 - RIGHT 100Deg
 - LEFT 100Deg
- Must be compatible with quoted light source/ processor

COLONOSCOPE QTY 1

- Must provide for HD (High definition) imaging
- Must be able to provide Narrow Band Imaging
- Must have one touch **Waterproof** Connectors, to enable cleaning scopes by total immersion and no requirement of waterproof caps.
- Must have a variable stiffness function to assist users for easy and efficient colonic examination
- Must have an Auxiliary Water jet Channel
- Field of View 140Deg
- Depth of field 2- 100mm
- Distal Outer Diameter 12.8mm
- Channel Diameter 3.7mm
- Total Length of endoscope must be
- Angulation
 - UP 180Deg
 - DOWN 180Deg
 - RIGHT 160Deg
 - LEFT 160Deg
- Must be compatible with quoted light source/ processor

PRINTER QTY 1

- Must be an analogue Colour printer to be compatible with quoted light source/ processor
- Should have a front Panel LCD Display
- Must use Dye Sublimation Thermal Transfer Print Method for printing
- 423dpi Resolution

MANUAL DISINFECTOR WITH LEAK TESTER QTY 1

- With an Integral Hand Pump
- Consist of three fluid containers with lids for rinse water, disinfectant and detergent
- Integral Timer with Alarm
- Customised Instrument tray to place endoscope in
- General dimensions should be approx: 930(H)X 510(D)X 960(W)mm
- Instrument Tray capacity should be of 6Litres

ENDOSCOPIC DIATHERMY MACHINE QTY 1

- Should be High frequency 330 – 380 kHz
- Approx Size (W ×D× H) 295 × 375 ×115mm
- Monopolar output
 - Sockets 6 mm A- cord
 - Single/split neutral electrode 10 mm 2- pins
 - Cut 1/2/3 120W @ 500 Ohms
 - PulseCut slow/fast 120W @ 500 Ohms
 - SoftCoag 120W @ 100 Ohms
 - ForcedCoag 1 50 W @ 500 Ohms
 - ForcedCoag 2 120W @ 500 Ohms
- Bipolar output
 - Sockets 28.8mm 2- pins and 4/8 mm coaxial
 - Cut 1/2/3 120W @ 500 Ohms
 - SoftCoag 120W @ 100 Ohms
 - RFCoag incl. RCAP 40 W @ 100 Ohms
- Incorporates Rapid Spark Technology
- Features High Power Cut Support (HPCS) and Fast Spark Monitor (FSM)
- Should be compatible to Endoscopic Procedures

Item No	Description of Product	Qty	UNIT COST	TOTAL COST
1	ICU Bed 5 Function Electric	14		
2	ICU Ventilator	10		
3	ICU Fluid Warmer	8		
4	ICU Infusion Pump	10		
5	ICU Syringe Pump	10		
6	Bedside Patient Monitor	14		
7	Central Monitoring Station	2		
8	ICU Defibrillator	4		
9	Suction Machine	8		
10	Blood Gas Analyzer	2		
11	Anaesthesia Machine provided with Patient Monitor	2		
12	Autoclave Digital 80Litres	2		
13	Diathermy	2		
14	Electro-Hydraulic Operating Table	2		
15	LED Operating Lights Dual Dome Ceiling Mounted	2		
16	Dressing Trolley	4		
17	Emergency Trolley	10		
18	Mayo Instrument Trolley	4		
19	Patient Trolley Stretcher	4		
20	Recovery Room Bed Single Crank	4		

21	General Orthopaedic Set	2		
22	Amputation Set	2		
23	Large Fragment Set	2		
24	Small Fragment Set	2		
25	Kuntscher Instrumentation Set	2		
26	Wire Instrument Sets	2		
27	Diagnostic Set	4		
28	Ambu Bag Reusable	4		
29	Adult Weighing Scale Digital with Height Meter and BMI	4		
30	Infant Weighing Scale	4		
31	Laryngoscope	2		
32	Infra Red Gun Thermometer	4		
33	Pen Torch	6		
34	Stethoscope	14		
35	X-Ray Viewing – Single	2		
36	Wheel Chair	6		
37	Ultrasonic Nebulizer	8		
38	Ward Screens 4 Fold	6		
39	Blood Donation Bed/Chair	4		
40	Drip Stand	10		
41	Examination Couch	14		
42	Drug Medicine Trolley	4		
43	Foetal Doppler	4		

44	SPO2 Pulse Oximeter Machine	4		
45	Oxygen Concentrator	4		
46	Vital Sign Monitor	4		
47	Examination Light	10		
48	ECG Machine 12 channel	4		
49	Foetal Monitor CTG	2		
50	Patella Harmer	8		
51	Wall Mounted Ophthalmoscope and Otoscope Set Diagnostic with BP Measuring	6		
52	Craniotomy Set	2		
53	Processor & Light Source	1		
54	Monitor	1		
55	Trolley/ Workstation	1		
56	Gastroscope	1		
57	Colonoscope	1		
58	Printer	1		
59	Manual Disinfector With Leak Tester	1		
60	Endoscopic Diathermy Machine	2		
TOTAL COST				

ITEM DESCRIPTION		TOTAL
1	SUB-TOTAL	
2	Add 16% VAT	
3	TOTAL	

In words Kenya Shillings

.....

Contractor:

VAT Registration No:

Pin No:

Address:

Signature: Date:

Witness:

Address:

Signature: Date: