REPUBLIC OF KENYA

COUNCIL OF GOVERNORS

MINISTRY OF HEALTH

STATE DEPARTMENT FOR MEDICAL SERVICES

P.O. B OX 30016 – 00100
NAIROBI
Email:procurement@health.go.ke

TENDER DOCUMENT

SUPPLY AND DELIVERY OF MEDICAL EQUIPMENT, ACCESSORIES AND ASSOCIATED SUPPLIES ON A FRAMEWORK BASIS IN PUBLIC HEALTH FACILITIES

TENDER NO: MOH & CoG/OT/FA/001/2025-2026

IFMIS NEGOTIATION NO:2082730

CLOSING/OPENING DATE: 27TH JANUARY 2026 AT 11:00 AM

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INVITATION TO TENDER

DATE: 8TH JANUARY 2026

PROCURING ENTITY: MINISTRY OF HEALTH - STATE DEPARTMENT FOR MEDICAL SERVICES JOINTLY WITH THE COUNCIL OF GOVERNORS.

CONTRACT NAME AND DESCRIPTION: SUPPLY AND DELIVERY OF MEDICAL EQUIPMENT, ACCESSORIES AND ASSOCIATED SUPPLIES ON A FRAMEWORK BASIS IN PUBLIC HEALTH FACILITIES.

TENDER NO. MOH & CoG/OT/FA/2025-2026

IFMIS NEGOTIATION NO: 2082730

1. The **Ministry of Health** through the **State Department for Medical Services jointly with the Council of Governors** intend to enter into a three (3) years framework agreement for **Supply and Delivery of Medical Equipment, Accessories and Associated Supplies on a Framework Basis in Public Health Facilities.**

2. Tendering is conducted under open competitive method- (Open Tender) using a standardized tender document. Tendering is open to all qualified and interested Tenderers and will be awarded on basis of **Framework Agreement.**

3. Qualified and interested tenderers may obtain further information and inspect the Tender Document during office hours *0900 to 1700 at the address given below:*

   Ministry of Health
   State Department for Medical Services
   P.O Box 30016-00100 Nairobi
   Head Supply Chain Management Office 5th Floor, Room 514B
   Afya House, Cathedral Road, Nairobi.

4. A complete set of tender documents may be obtained by interested tenderers electronically from the Ministry of Health website www.health.go.ke, Public Procurement Information Portal www.tenders.go.ke and IFMIS portal: supplier.treasury.go.ke and search using the unique IFMIS Negotiation Number provided against the Tender.

5. Tenderers who download the tender document must forward their particulars immediately to the State Department for Medical Services, P.O Box 30016-00100 Nairobi Procurement Office, 5th Floor Room 514B Afya House, Cathedral Road, Nairobi or Email: **procurement@health.go.ke** to facilitate any further clarification or addendum.

6. All tenders must be accompanied by a Tender Security as follows:

   - Category A- Kenya Shillings One Million (Kshs. 1,000,000)
   - Category B- Kenya Shillings Five Hundred Thousand (Kshs. 500,000)
   - Category C- Kenya Shillings Five Hundred Thousand (Kshs. 500,000)
   - Category D- Kenya Shillings Two Hundred Thousand (Kshs. 200,000)

   The Tender Securities must be from a reputable Bank or an Insurance Company approved by the Insurance Regulatory Authority and listed by Public Procurement Regulatory Authority (PPRA) as provided in the Tender Data Sheet. A Tender-Securing Declaration *"shall be"* required for firms bidding under Public Procurement Preferences and Reservations Scheme. No other Tender Security will be required from such firms for the reserved items.

7. The Tenderer shall chronologically serialize all pages of the tender documents submitted.

8. Tenders shall be quoted be in Kenya Shillings and shall include all taxes and the 0.03% Public Procurement capacity building levy as provided vide legal Notice No 206 of 6th November 2023. Tenders shall remain valid for **210** days from the date of tender opening.

9. Completed Tenders must be submitted online in the IFMIS Portal with select original tendering documents being physically dropped in the Tender Box located at the entrance of 1st floor Afya House in a single sealed envelope bearing the name and reference number of the tender, addressed to the Principal Secretary, State Department for Medical Services so as to be received on or before the tender opening date, and a warning not to open before the date and time of tender opening **Tuesday 27th January 2026 at 11am.** Manual submissions will not be accepted except for the select documents.

10. Tenders will be opened immediately after the deadline date and time specified above or any deadline date and time specified later. Tenders will be publicly opened in the presence of the Tenderers' designated representatives who choose to attend at the address below.

A. **The address referred to above are:**
Address for obtaining further information and inspecting tender documents Ministry of Health-State Department for Medical Services P.O Box 30016-00100 Nairobi. Procurement office 5th floor, Room 514B, Afya House, Cathedral Road, Nairobi. Email: procurement@health.go.ke

B. **Address for Submission of Tenders**
Tenders to be submitted online in the **IFMIS Portal: www.supplier.treasury.go.ke But the original of the Form of Tender, Price Schedule, Power of Attorney and Tender Security MUST** be dropped to the Tender box located at the entrance of 1st Floor Afya House in a single sealed envelope bearing the name and reference number of the tender, addressed to the procuring entity and warning not to open before the date and time of tender opening.

C. **Address for opening of tenders**
State Department for Medical Services
ADB Boardroom Afya House Nairobi, Cathedral Road

D. Tenders Will be submitted online in the IFMIS Portal but the Original of the following documents MUST be dropped to the Tender box located at the entrance of 1st Floor Afya House in a single sealed envelope bearing the name and reference number of the tender, addressed to the Principal Secretary, State Department for Medical Services and warning not to open before the date and time of tender opening.

1. Dully filled and stamped Form of Tender
2. Dully filled and stamped Price Schedule
3. Power of Attorney
4. Tender Security from a reputable financial institution in Kenya **OR** Insurance Company approved by IRA as specified in the Tender Data Sheet.

11. Late tenders will be rejected.

Head, Supply Chain Management Services
FOR: PRINCIPAL SECRETARY

PART 1 - TENDERING PROCEDURES

SECTION I: INSTRUCTIONS TO TENDERERS

A General Provisions

1. Scope of Tender

1.1 The Procuring Entity as defined in the **TDS** invites tenders for supply of goods and, if applicable, any Related Services incidental thereto, as specified in Section V, Supply Requirements. The name, identification, and number of lots (contracts) of this Tender Document are specified in the **TDS**.

1.2 Throughout this tendering document:

a) the term "in writing" means communicated in written form (e.g. by mail, e-mail, fax, including if specified in the **TDS**, distributed or received through the electronic-procurement system used by the Procuring Entity) with proof of receipt;

b) if the context so requires, "singular" means "plural" and vice versa;

c) "Day" means calendar day, unless otherwise specified as "Business Day". A Business Day is any day that is an official working day of the Procuring Entity. It excludes official public holidays.

2. Fraud and Corruption

2.1 The Procuring Entity requires compliance with the provisions of the Public Procurement and Asset Disposal Act, 2015, Section 62 "Declaration not to engage in corruption". The tender submitted by a person shall include a declaration that the person shall not engage in any corrupt or fraudulent practice and a declaration that the person or his or her sub-contractors are not debarred from participating in public procurement proceedings.

2.2 The Procuring Entity requires compliance with the provisions of the Competition Act 2010, regarding collusive practices in contracting. Any tenderer found to have engaged in collusive conduct shall be disqualified and criminal and/or civil sanctions may be imposed. To this effect, Tenders shall be required to complete and sign the "Certificate of Independent Tender Determination" annexed to the Form of Tender.

2.3 Unfair Competitive Advantage - Fairness and transparency in the tender process require that the firms or their Affiliates competing for a specific assignment do not derive a competitive advantage from having provided consulting services related to this tender. To that end, the Procuring Entity shall indicate in the **Data Sheet** and make available to all the firms together with this tender document all information that would in that respect give such firm any unfair competitive advantage over competing firms.

3. Eligible Tenderers

3.1 A Tenderer may be a firm that is a private entity, an individual, a state-owned enterprise or institution subject to ITT3.7, or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. Public employees and their close relatives *(spouses, children, brothers, sisters and uncles and aunts)* are not eligible to participate in the tender.

In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the Tendering process and, in the event the JV is awarded the Contract, during contract execution. The maximum number of JV members shall be specified in the **TDS.**

3.2 Public Officers of the Procuring Entity, their Spouses, Child, Parent, Brothers or Sister. Child,

Parent, Brother or Sister of a Spouse their business associates or agents and firms/organizations in which they have a substantial or controlling interest shall not be eligible to tender or be awarded a contract. Public Officers are also not allowed to participate in any procurement proceedings.

3.3 A Tenderer shall not have a conflict of interest. Any Tenderer found to have a conflict of interest shall be disqualified. A Tenderer may be considered to have a conflict of interest for the purpose of this Tendering process, if the Tenderer:

a) directly or indirectly controls, is controlled by or is under common control with another Tenderer; or
b) receives or has received any direct or indirect subsidy from another Tenderer; or
c) has the same - representative or ownership as another Tenderer; or
d) has a relationship with another Tenderer, directly or through common third parties, that puts it in a position to influence the Tender of another Tenderer, or influence the decisions of the Procuring Entity regarding this Tendering process; or
e) or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the goods that are the subject of the Tender; or
f) or any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity or Procuring Entity for the Contract implementation; or
g) would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the **TDS** ITT 1.1 that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or has a close business or family relationship with a professional staff of the Procuring Entity (or of the project implementing agency, who: (i) are directly or indirectly involved in the preparation of the tendering document or specifications of the Contract, and/or the Tender evaluation process of such Contract; or (ii) would be involved in the implementation or supervision of such Contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Procuring Entity throughout the Tendering process and execution of the Contract.

3.4 A tenderer shall not be involved in corrupt, coercive, obstructive, collusive or fraudulent practice. A tenderer that is proven to have been involved in any of these practices shall be automatically disqualified.

3.5 A firm that is a Tenderer (either individually or as a JV member) shall not submit more than one Tender, except for permitted alternative Tenders. This includes participation as a subcontractor. Such participation shall result in the disqualification of all Tenders in which the firm is involved. A firm that is not a Tenderer or a JV member, may participate as a subcontractor in more than one Tender. Members of a joint venture may not also make an individual tender, be a subcontractor in a separate tender or be part of another joint venture for the purposes of the same Tender.

3.6 A Tenderer may have the nationality of any country, subject to the restrictions pursuant to ITT3.9. A Tenderer shall be deemed to have the nationality of a country if the Tenderer is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed subcontractors or sub consultants for any part of the Contract including related Services.

3.7 A Tenderer that has been debarred by the PPRA from participating in public procurement shall be ineligible to tender or be awarded a contract. The list of debarred firms and individuals is available from the PPRA's website www.ppra.go.ke

3.8 Tenderers that are state-owned enterprises or institutions may be eligible to compete and be awarded a Contract(s) only if they are (i) a legal public entity of the state Government and/or public administration, (ii) financially autonomous and not receiving any significant subsidies or budget support from any public entity or Government, and (iii) operating under commercial law and vested with legal rights and liabilities similar to any commercial

enterprise to enable it compete with firms in the private sector on an equal basis. Public employees and their close relatives are not eligible to participate in the tender.

3.9 Tenderers may be ineligible if their countries of origin (a) as a matter of law or official regulations, Kenya prohibits commercial relations with that country, or(b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Kenya prohibits any import of goods or contracting for supply of goods or services from that country, or any payments to any country, person, or entity in that country. A tenderer shall provide such documentary evidence of eligibility satisfactory to the Procuring Entity, as the Procuring Entity shall reasonably request.

3.10 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.

3.11 Where the law requires tenderers to be registered with certain authorities in Kenya, such registration requirements shall be defined in the **TDS**

3.12 The Competition Act of Kenya requires that firms wishing to tender as Joint Venture undertakings which may prevent, distort or lessen competition in provision of services are prohibited unless they are exempt in accordance with the provisions of Section 25 of the Competition Act, 2010. JVs will be required to seek for exemption from the Competition Authority. Exemption shall not be a condition for tender, but it shall be a condition of contract award and signature. A JV tenderer shall be given opportunity to seek such exemption as a condition of award and signature of contract. Application for exemption from the Competition Authority of Kenya may be accessed from the website www.cak.go.ke.

3.13 A Kenyan tenderer shall provide evidence of having fulfilled his/her tax obligations by producing a current tax clearance certificate or tax exemption certificate issued by the Kenya Revenue Authority.

4. Eligible Goods and Related Services

4.1 All the Goods and Related Services to be supplied under the Contract shall have their origin in any country that is eligible in accordance with ITT 3.9.

4.2 For purposes of this ITT, the term "goods" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" include services such as insurance, installation, training, and initial maintenance.

4.3 The term "origin" means the country where the goods have been mined, grown, cultivated, produced, manufactured or processed; or, through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

4.4 A procuring entity shall ensure that the items listed below shall be sourced from Kenya and there shall be no substitutions from foreign sources. The affected items are:

a) motor vehicles, plant and equipment which are assembled in Kenya;
b) furniture, textile, foodstuffs, oil and gas, information communication technology, steel, cement, leather, agro-processed products, sanitary products, and other goods made in Kenya; or
c) goods manufactured, mined, extracted or grown in Kenya.

4.5 Any goods, works and production processes with characteristics that have been declared by the relevant national environmental protection agency or by other competent authority as harmful to human beings and to the environment shall not be eligible for procurement.

5. Sections of Tendering Document

5.1 The tendering document consist of Parts 1, 2, and 3, which include all the sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITT8.

PART 1: Tendering Procedures
i) Section I - Instructions to Tenderers (ITT)
ii) Section II - Tendering Data Sheet (TDS)
iii) Section III - Evaluation and Qualification Criteria
iv) Section IV - Tendering Forms

PART 2: Supply Requirements
v) Section V - Schedule of Requirements

PART 3: Contract
vi) Section VI - General Conditions of Contract (GCC)

vii) Section VII - Special Conditions of Contract (SCC)

viii) Section VIII- Contract Forms

5.2 The notice of Invitation to Tender or the notice to the prequalified Tenderers issued by the Procuring Entity is not part of the tendering document.

5.3 Unless obtained directly from the Procuring Entity, the Procuring Entity is not responsible for the completeness of the document, responses to requests for clarification, the minutes of the pre-tender meeting (if any), or addenda to the tendering document in accordance with ITT7.

5.4 The Tenderer is expected to examine all instructions, forms, terms, and specifications in the tendering document and to furnish with its Tender all information or documentation as is required by the tendering document.

6. Clarification of Tendering Document

6.1 A Tenderer requiring any clarification of the Tender Document shall contact the Procuring Entity in writing at the Procuring Entity's address specified in the **TDS** or raise its enquiries during the pre-Tender meeting if provided for in accordance with ITT 6.4. The Procuring Entity will respond in writing to any request for clarification, provided that such request is received no later than the period specified in the **TDS** prior to the deadline for submission of tenders. The Procuring Entity shall forward copies of its response to all tenderers who have acquired the Tender documents in accordance with ITT 5.3, including a description of the inquiry but without identifying its source. If so specified in the **TDS,** the Procuring Entity shall also promptly publish its response at the web page identified in the **TDS.** Should the clarification result in changes to the essential elements of the Tender Documents, the Procuring Entity shall amend the Tender Documents following the procedure under ITT 7.

6.2 The Procuring Entity shall specify in the **TDS** if a pre-tender conference will be held, when and where. The Tenderer's designated representative is invited to attend a pre-Tender meeting. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.

6.3 The Tenderer is requested to submit any questions in writing, to reach the Procuring Entity not later than the period specified in the **TDS** before the meeting.

6.4 Minutes of the pre-Tender meeting, if applicable, including the text of the questions asked by Tenderers and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Tenderers who have acquired the Tender Documents in accordance with ITT 6.3. Minutes shall not identify the source of the questions asked.

6.5 The Procuring Entity shall also promptly publish anonymized (*no names*)Minutes of the pre-Tender meeting at the web page identified **in the TDS**. Any modification to the Tender Documents that may become necessary as a result of the pre-Tender meeting shall be made by the Procuring Entity exclusively through the issue of an Addendum pursuant to ITT 7 and not through the minutes of the pre-Tender meeting. Nonattendance at the pre- Tender meeting will not be a cause for disqualification of a Tenderer.

7. Amendment of Tendering Document

7.1 At any time prior to the deadline for submission of Tenders, the Procuring Entity may amend the tendering document by issuing addenda.

7.2 Any addendum issued shall be part of the tendering document and shall be communicated in writing to all who have obtained the tender document from the Procuring Entity in accordance with ITT 6.3. The Procuring Entity shall also promptly publish the addendum on the Procuring Entity's web page in accordance with ITT 7.1.

7.3 To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their Tenders, the Procuring Entity may, at its discretion, extend the deadline for the submission of Tenders, pursuant to ITT 21.2.

C. Preparation of Tenders

8. Cost of Tendering

8.1 The Tenderer shall bear all costs associated with the preparation and submission of its Tender, and the Procuring Entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering process.

9. Language of Tender

9.1 The Tender, as well as all correspondence and documents relating to the Tender exchanged by the Tenderer and the Procuring Entity, shall be written in English Language**.** Supporting documents and printed literature that are part of the Tender may be in another language provided they are accompanied by an accurate translation of the relevant passages into the English Language**,** in which case, for purposes of interpretation of the Tender, such translation shall govern.

10. Documents Comprising the Tender

10.1 The Tender shall comprise the following:

a) Form of Tender prepared in accordance with ITT11;

b) Price Schedules: completed in accordance with ITT 11 and ITT 13;

c) Tender Security or Tender-Securing Declaration, in accordance with ITT 18.1;

d) Alternative Tender: if permissible, in accordance with ITT12;

e) Authorization: written confirmation authorizing the signatory of the Tender to commit the Tenderer, in accordance with ITT19.3;

f) Qualifications: documentary evidence in accordance with ITT 16.2 establishing the Tenderer qualifications to perform the Contract if its Tender is accepted;

g) Tenderer Eligibility: documentary evidence in accordance with ITT16.1 establishing the Tenderer eligibility to tender;

h) Eligibility of Goods and Related Services: documentary evidence in accordance with ITT 15, establishing the eligibility of the Goods and Related Services to be supplied by the Tenderer;

i) Conformity: documentary evidence in accordance with ITT15.2 that the Goods and

Related Services conform to the tender document; and

j) any other document required in the **TDS**.

10.2 In addition to the requirements under ITT 10.1, Tenders submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Tender shall be signed by all members and submitted with the Tender, together with a copy of the proposed Agreement.

10.3 The Tenderer shall furnish in the Form of Tender information on commissions gratuities, and fees, if any, paid or to be paid to agents or any other party relating to this Tender.

11. Form of Tender and Price Schedules

11.1 The Form of Tender and Price Schedules shall be prepared using the relevant forms furnished in Section IV, Tendering Forms. The forms must be completed without any alterations to the text. All blank spaces shall be filled in with the information requested. The Tenderer shall chronologically serialise pages of all tender documents submitted.

12. Alternative Tenders

12.1 Unless otherwise specified **in the TDS,** alternative Tenders shall not be considered.

13. Tender Prices and discounts

13.1 The prices quoted by the Tenderer in the Form of Tender and in the Price, Schedules shall conform to the requirements specified below.

13.2 All lots (contracts) and items must be listed and priced separately in the Price Schedules.

13.3 The price to be quoted in the Form of Tender in accordance with ITT10.1 shall be the total price of the Tender, including any discounts offered.

13.4 The Tenderer shall quote any discounts and indicate the methodology for their application in the form of tender. Conditional discounts will be rejected.

13.5 Prices quoted by the Tenderer shall be fixed during the performance of the Contract and not subject to variation on any account, unless otherwise specified **in the TDS.** A Tender submitted with an adjustable price quotation shall be treated as non-responsive and shall be rejected, pursuant to ITT 28. However, if in accordance with **the TDS**, prices quoted by the Tenderer shall be subject to adjustment during the performance of the Contract, a Tender submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero.

13.6 If specified in ITT 1.1, Tenders are being invited for individual lots (contracts) or for any combination of lots (packages). Unless otherwise specified **in the TDS,** prices quoted shall correspond to 100 % of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Tenderers wishing to offer discounts for the award of more than one Contract shall specify in their Tender the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITT 13.4 provided the Tenders for all lots (contracts) are opened at the same time.

13.7 The terms EXW, CIP, CIF, DDP and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by the International Chamber of Commerce.

13.8 Prices shall be quoted as specified in each Price Schedule included in Section IV, Tendering

Forms. The disaggregation of price components is required solely for the purpose of facilitating the comparison of Tenders by the Procuring Entity. This shall not in any way limit the Procuring Entity's right to contract on any of the terms offered. In quoting prices, the Tenderer shall be free to use transportation through carriers registered in any eligible country. Similarly, the Tenderer may obtain insurance services from any eligible country in accordance with ITT 3.6, Eligible Tenders. Prices shall be entered in the following manner:

a) For Goods manufactured in Kenya:

   I) the price of the Goods quoted EXW (ex-works, ex-factory, ex warehouse, ex showroom, or off-the- shelf, as applicable) final destination point indicated in the **TDS**, including all customs duties and sales and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of the Goods;

   ii) any sales tax and other taxes which will be payable in Kenya on the Goods if the Contract is awarded to the Tenderer; and

   iii) the price for inland transportation, insurance, and other local services required to convey the Goods to their final destination specified **in the TDS.**

b) For Goods manufactured outside Kenya, to be imported:

   i) the price of the Goods, quoted CIP named place of destination, in Kenya, as specified **in the TDS;**

   ii) the price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final destination specified **in the TDS;**

c) For Goods manufactured outside Kenya, already imported:

   i) the price of the Goods, including the original import value of the Goods; plus, any mark-up (or rebate); plus, any other related local cost, and custom duties and other import taxes already paid or to be paid on the Goods already imported;

   ii) the custom duties and other import taxes already paid (need to be supported with documentary evidence) or to be paid on the Goods already imported;

   iii) any sales and other taxes levied in Kenya which will be payable on the Goods if the Contract is awarded to the Tenderer; and

   iv) the price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final destination (Project Site) specified **in the TDS.**

d) for Related Services, other than inland transportation and other services required to convey the Goods to their final destination, whenever such Related Services are specified in the Schedule of Requirements, the price of each item comprising the Related Services (inclusive of any applicable taxes).

14. Currencies of Tender and Payment

14.1 The currency (ies) of the Tender, the currency (ies) of award and the currency (ies) of contract payments shall be the same**.**

14.2 The Tenderer shall quote in Kenya shillings. If allowed in the **TDS**, the Tenderer may express the Tender price in any currency, provided it shall use no more than two foreign currencies in addition to the Kenya Shilling.

14.3 The rates of exchange to be used by the Tenderer shall be based on the exchange rates provided by the Central Bank of Kenya on the date 30 days prior to the actual date of tender opening.

15. Documents Establishing the Eligibility and Conformity of the Goods and Related Services

15.1 To establish the eligibility of the Goods and Related Services in accordance with ITT 15, Tenderers shall complete the country of origin declarations in the Price Schedule Forms, included in Section IV, Tendering Forms.

15.2 To establish the conformity of the Goods and Related Services to the tendering document, the Tenderer shall furnish as part of its Tender the documentary evidence that the Goods conform to the technical specifications and standards specified in Section VII, Schedule of Requirements.

15.3 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if applicable, a statement of deviations and exceptions to the provisions of the Section VII, Schedule of Requirements.

15.4 The Tenderer shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period **specified in the TDS** following commencement of the use of the goods by the Procuring Entity.

15.5 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Procuring Entity in the Schedule of Requirements, are intended to be descriptive only and not restrictive. The Tenderer may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to the Procuring Entity's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Section VII, Schedule of Requirements.

16. Documents Establishing the Eligibility and Qualifications of the Tenderer

16.1 To establish Tenderer eligibility in accordance with ITT 4, Tenderers shall complete the Form of Tender, included in Section IV, Tendering Forms.

16.2 The documentary evidence of the Tenderer qualifications to perform the Contract if its Tender is accepted shall establish to the Procuring Entity's satisfaction:

a) that, if required **in the TDS**, a Tenderer that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IV, Tendering Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in Kenya;

b) that, if required **in the TDS**, in case of a Tenderer not doing business within the Kenya, the Tenderer is or will be (if awarded the Contract) represented by an Agent in the country equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and

c) that the Tenderer meets each of the qualification criterion specified in Section III, Evaluation and Qualification Criteria.

17. Period of Validity of Tenders

17.1 Tenders shall remain valid for the Tender Validity period specified **in the TDS**. The Tender Validity period starts from the date fixed for the Tender submission deadline (as prescribed by the Procuring Entity in accordance with ITT 21.1). A Tender valid for a shorter period shall be rejected by the Procuring Entity as non-responsive.

17.2 In exceptional circumstances, prior to the expiration of the Tender validity period, the Procuring Entity may request Tenderers to extend the period of validity of their Tenders. The request and the responses shall be made in writing. If a Tender Security is requested in accordance with ITT 18, it shall also be extended for a corresponding period. A Tenderer may refuse the request without forfeiting its Tender Security. A Tenderer granting the request shall not be required or permitted to modify its Tender, except as provided in ITT 17.3.

17.3 If the award is delayed by a period exceeding the number of days to be specified in the **TDS** days beyond the expiry of the initial tender validity period, the Contract price shall be determined as follows:

a) in the case of **fixed price** contracts, the Contract price shall be the tender price adjusted by the factor specified **in the TDS**;

b) in the case of **adjustable price** contracts, no adjustment shall be made; or in any case,

tender evaluation shall be based on the tender price without taking into consideration the applicable correction from those indicated above.

18. Tender Security

18.1 The Tenderer shall furnish as part of its Tender, either a Tender-Securing Declaration or a Tender Security, as specified **in the TDS,** in original form and, in the case of a Tender Security**,** in the amount and currency specified **in the TDS.**

18.2 A Tender Securing Declaration shall use the form included in Section IV, Tendering Forms.

18.3 If a Tender Security is specified pursuant to ITT 18.1, the Tender Security shall be a demand guarantee in any of the following forms at the Tenderer option:
i) cash;
ii) a bank guarantee;
iii) a guarantee by an insurance company registered and licensed by the Insurance Regulatory Authority listed by the Authority; or
iv) a letter of credit; or
v) guarantee by a deposit taking micro-finance institution, Sacco society, the Youth Enterprise Development Fund or the Women Enterprise Fund.

18.4 If an unconditional guarantee is issued by a non-Bank financial institution located outside Kenya, the issuing non-Bank financial institution shall have a correspondent financial institution located in Kenya to make it enforceable unless the Procuring Entity has agreed in writing, prior to Tender submission, that a correspondent financial institution is not required. In the case of a bank guarantee, the Tender Security shall be submitted either using the Tender Security Form included in Section IV, Tendering Forms, or in another substantially similar format approved by the Procuring Entity prior to Tender submission. The Tender Security shall be valid for thirty
(30) days beyond the original validity period of the Tender, or beyond any period of extension if requested under ITT 17.2.

18.5 If a Tender Security is specified pursuant to ITT 18.1, any Tender not accompanied by a substantially responsive Tender Security shall be rejected by the Procuring Entity as non-responsive.

18.6 If a Tender Security is specified pursuant to ITT 18.1, the Tender Security of unsuccessful Tenderers shall be returned as promptly as possible upon the successful Tenderer signing the Contract and furnishing the Performance Security pursuant to ITT 46.The Procuring Entity shall also promptly return the tender security to the tenderers where the procurement proceedings are terminated, all tenders were determined non-responsive or a bidder declines to extend tender validity period.

18.7 The Tender Security of the successful Tenderer shall be returned as promptly as possible once the successful Tenderer has signed the Contract and furnished the required Performance Security.

18.8 The Tender Security may be forfeited or the Tender Securing Declaration executed:
a) if a Tenderer withdraws its Tender during the period of Tender validity specified by the Tenderer in the Form of Tender, or any extension thereto provided by the Tenderer; or
b) if the successful Tenderer fails to:
   i) sign the Contract in accordance with ITT 45; or
   ii) furnish a Performance Security in accordance with ITT 46.

18.9 Where tender securing declaration is executed, the Procuring Entity shall recommend to the PPRA that PPRA debars the Tenderer from participating in public procurement as provided in the law.

18.10 The Tender Security or Tender- Securing Declaration of a JV must be in the name of the

JV that submits the Tender. If the JV has not been legally constituted into a legally enforceable JV at the time of Tendering, the Tender Security or Tender-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in ITT3.1 and ITT 10.2.

18.11 A tenderer shall not issue a tender security to guarantee itself.

19. Format and Signing of Tender

19.1 The Tenderer shall prepare one original of the documents comprising the Tender as described in ITT 11 and clearly mark it "ORIGINAL." Alternative Tenders, if permitted in accordance with ITT 12, shall be clearly marked "ALTERNATIVE." In addition, the Tenderer shall submit copies of the Tender, in the number **specified in the TDS** and clearly mark them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.

19.2 Tenderers shall mark as "CONFIDENTIAL" information in their Tenders which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.

19.3 The original and all copies of the Tender shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Tenderer. This authorization shall consist of a written confirmation **as specified in the TDS** and shall be attached to the Tender. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Tender where entries or amendments have been made shall be signed or initialed by the person signing the Tender.

19.4 In case the Tenderer is a JV, the Tender shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by each members' legally authorized representatives.

19.5 Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Tender.

D. Submission and Opening of Tenders

20 Sealing and Marking of Tenders

20.1 Depending on the sizes or quantities or weight of the tender documents, a tenderer may use an envelope, package or container. The Tenderer shall deliver the Tender in a single sealed envelope, or in a single sealed package, or in a single sealed container bearing the name and Reference number of the Tender, addressed to the Procuring Entity and a warning not to open before the time and date for Tender opening date. Within the single envelope, package or container, the Tenderer shall place the following separate, sealed envelopes:

a) in an envelope or package or container marked "ORIGINAL", all documents comprising the Tender, as described in ITT 11; and
b) in an envelope or package or container marked "COPIES", all required copies of the Tender; and
c) if alternative Tenders are permitted in accordance with ITT 12, and if relevant:
   i) in an envelope or package or container marked "ORIGINAL –ALTERNATIVE TENDER", the alternative Tender; and
   ii) in the envelope or package or container marked "COPIES- ALTERNATIVE TENDER", all required copies of the alternative Tender.

20.2 The inner envelopes or packages or containers shall:

a) bear the name and address of the Procuring Entity.
b) bear the name and address of the Tenderer; and
c) bear the name and Reference number of the Tender.

20.3 Where a tender package or container cannot fit in the tender box, the procuring entity shall:

a) Specify in the **TDS where** such documents should be received.
b) maintain a record of tenders received and issue acknowledgement receipt note to each

tenderer specifying time and date of receipt.

c) Ensure all tenders received are handed over to the tender opening committee for opening at the specified opening place and time.

20.4 If an envelope or package or container is not sealed and marked as required, the *Procuring Entity* will assume no responsibility for the misplacement or premature opening of the Tender. Tenders misplaced or opened prematurely will not be accepted.

21. Deadline for Submission of Tenders

21.1 Tenders must be received by the Procuring Entity at the address and no later than the date and time specified **in the TDS.** When so specified **in the TDS**, Tenderers shall have the option of submitting their Tenders electronically. Tenderers submitting Tenders electronically shall follow the electronic Tender submission procedures **specified in the TDS**.

21.2 The Procuring Entity may, at its discretion, extend the deadline for the submission of Tenders by amending the tendering document in accordance with ITT7, in which case all rights and obligations of the Procuring Entity and Tenderers previously subject to the deadline shall thereafter be subject to the deadline as extended.

22. Late Tenders

22.1 The Procuring Entity shall not consider any Tender that arrives after the deadline for submission of Tenders. Any Tender received by the Procuring Entity after the deadline for submission of Tenders shall be declared late, rejected, and returned unopened to the Tenderer.

23. Withdrawal, Substitution, and Modification of Tenders

23.1 A Tenderer may withdraw, substitute, or modify its Tender after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization (the power of attorney) in accordance with ITT19.3, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Tender must accompany the respective written notice. All notices must be:

a) prepared and submitted in accordance with ITT 20 and 21 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked "WITHDRAWAL," "SUBSTITUTION," or "MODIFICATION;" and

b) received by the Procuring Entity prior to the deadline prescribed for submission of Tenders, in accordance with ITT 22.

23.3 Tenders requested to be withdrawn in accordance with ITT 23.1 shall be returned unopened to the Tenderers.

23.4 No Tender may be withdrawn, substituted, or modified 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 Form of Tender or any extension thereof.

24. Tender Opening

24.1 Except as in the cases specified in ITT 23, the Procuring Entity shall, at the Tender opening, publicly open and read out all Tenders received by the deadline at the date, time and place specified **in the TDS** in the presence of Tenderers' designated representatives who choose to attend, including to attend any specific electronic tender opening procedures if electronic tendering is permitted in accordance with ITT 21.1, shall be as specified **in the TDS.**

24.2 First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding Tender shall not be opened, but returned to the Tenderer. If the withdrawal envelope does not contain a copy of the "power of attorney" confirming the

signature as a person duly authorized to sign on behalf of the Tenderer, the corresponding Tender will be opened. No Tender withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at Tender opening.

24.3 Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Tender being substituted, and the substituted Tender shall not be opened, but returned to the Tenderer. No Tender substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Tender opening.

24.4 Next, envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Tender. No Tender modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Tender opening.

24.5 Next, all remaining envelopes shall be opened one at a time, reading out: the name of the Tenderer and whether there is a modification; the total Tender Prices, per lot (contract) if applicable, including any discounts and alternative Tenders; the presence or absence of a Tender Security, if required; and any other details as the Procuring Entity may consider appropriate.

24.6 Only Tenders, alternative Tenders and discounts that are opened and read out at Tender opening shall be considered further for evaluation. The Form of Tender and pages of the Bills of Quantities are to be initialed by the members of the tender opening committee attending the opening. The number of representatives of the Procuring Entity to sign shall be specified in the **TDS.**

24.7 The Procuring Entity shall neither discuss the merits of any Tender nor reject any Tender (except for late Tenders, in accordance with ITT 22.1).

24.8 The Procuring Entity shall prepare a record of the Tender opening that shall include, as a minimum:

a) the name of the Tenderer and whether there is a withdrawal, substitution, or modification;
b) the Tender Price, per lot (contract) if applicable, including any discounts;
c) any alternative Tenders;
d) the presence or absence of a Tender Security or Tender-Securing Declaration, if one was required;
e) number of pages of each tender document submitted.

24.9 The Tenderers' representatives who are present shall be requested to sign the record. The omission of a Tenderer signature on the record shall not invalidate the contents and effect of the record. A copy of the tender opening register shall be issued to a Tenderer upon request.

E. Evaluation and Comparison of Tenders

25. Confidentiality

25.1 Information relating to the evaluation of Tenders and recommendation of contract award, shall not be disclosed to Tenderers or any other persons not officially concerned with the tendering process until the information on Intention to Award the Contract is transmitted to all Tenderers in accordance with ITT 41.

25.2 Any effort by a Tenderer to influence the Procuring Entity in the evaluation or contract award decisions may result in the rejection of its Tender.

25.3 Notwithstanding ITT 25.2, from the time of Tender opening to the time of Contract Award, if any Tenderer wishes to contact the Procuring Entity on any matter related to the Tendering process, it should do so in writing.

26. Clarification of Tenders

26.1 To assist in the examination, evaluation, comparison of the Tenders, and qualification of the Tenderers, the Procuring Entity may, at its discretion, ask any Tenderer for a clarification of its Tender. Any clarification submitted by a Tenderer in respect to its Tender and that is not in response to a request by the Procuring Entity shall not be considered. The Procuring Entity's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the Tender shall be sought, offered, or permitted except to confirm the correction of arithmetic errors discovered by the Procuring Entity in the Evaluation of the Tenders, in accordance with ITT 30.

If a Tenderer does not provide clarifications of its Tender by the date and time set in the Procuring Entity's request for clarification, its Tender may be rejected.

27. Deviations, Reservations, and Omissions

27.1 During the evaluation of Tenders, the following definitions apply:

a) "Deviation" is a departure from the requirements specified in the Tendering document;

b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the tendering document; and

c) "Omission" is the failure to submit part or all of the information or documentation required in the tendering document.

28. Determination of Responsiveness

28.1 The Procuring Entity's determination of a Tender's responsiveness is to be based on the contents of the Tender itself, as defined in ITT28.2.

28. A substantially responsive Tender is one that meets the requirements of the tendering document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:

a) if accepted, would:

i) affect in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; or

ii) limit in any substantial way, inconsistent with the tendering document, the Procuring Entity's rights or the Tenderer obligations under the Contract; or

b) if rectified, would unfairly affect the competitive position of other Tenderers presenting substantially responsive Tenders.

28.2 The Procuring Entity shall examine the technical aspects of the Tender submitted in accordance with ITT 15 and ITT 16, in particular, to confirm that all requirements of Section VII, Schedule of Requirements have been met without any material deviation or reservation, or omission.

28.3 If a Tender is not substantially responsive to the requirements of tendering document, it shall be rejected by the Procuring Entity and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

29. Non-conformities, Errors and Omissions

29.1 Provided that a Tender is substantially responsive, the Procuring Entity may waive any non-conformities in the Tender.

29.2 Provided that a Tender is substantially responsive, the Procuring Entity may request that the Tenderer submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial non- conformities or omissions in the Tender related to

documentation requirements. Such omission shall not be related to any aspect of the price of the Tender. Failure of the Tenderer to comply with the request may result in the rejection of its Tender.

29.3 Provided that a Tender is substantially responsive, the Procuring Entity shall rectify quantifiable nonmaterial non-conformities related to the Tender Price. To this effect, the Tender Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component in the manner specified **in the TDS**. The adjustment shall be based on the ***average*** price of the item or component as quoted in other substantially responsive Tenders. If the price of the item or component cannot be derived from the price of other substantially responsive Tenders, the Procuring Entity shall use its best estimate.

30. Arithmetical Errors

30.1 The tender sum as submitted and read out during the tender opening shall be absolute and final and shall not be the subject of correction, adjustment or amendment in any way by any person or entity.

30.2 Provided that the Tender is substantially responsive, the Procuring Entity shall handle errors on the following basis:

a) Any error detected if considered a major deviation that affects the substance of the tender, shall lead to disqualification of the tender as non-responsive .

b) Any errors in the submitted tender arising from a miscalculation of unit price, quantity, subtotal and total bid price shall be considered as a major deviation that affects the substance of the tender and shall lead to disqualification of the tender as non-responsive. and

c) if there is a discrepancy between words and figures, the amount in words shall prevail.

30.3 Tenderers shall be notified of any error detected in their bid during the notification of a ward.

31. Conversion to Single Currency

31.1 For evaluation and comparison purposes, the currency(ies) of the Tender shall be converted in a single currency as specified **in the TDS.**

32. Margin of Preference and Reservations

32.1 A margin of preference may be allowed on locally manufactured goods only when the contract is open to international tendering, where the tender is likely to attract foreign goods and where the contract exceeds the threshold specified in the Regulations.

32.2 For purposes of granting a margin of preference on locally manufactured goods under international competitive tendering, a procuring entity shall not subject the items listed below to international tender and hence no margin of preference shall be allowed. The affected items are:

a) Motor vehicles, plant and equipment which are assembled in Kenya;

b) furniture, textile, foodstuffs, oil and gas, information communication technology, steel, cement, leather agro-processing, sanitary products, and other goods made in Kenya; or

c) goods manufactured, mined, extracted or grown in Kenya.

32.3 A margin of preference shall not be allowed unless it is specified so in the **TDS**.

32.4 Contracts procured on basis of international competitive tendering shall not be subject to reservations to specific groups s as provided in ITT 32.5.

32.5 Where it is intended to reserve a contract to a specific group of businesses (these groups are Small and Medium Enterprises, Women Enterprises, Youth Enterprises and Enterprises of persons living with disability, as the case may be), and who are appropriately registered as such by the authority to be specified in the **TDS**, a procuring entity shall ensure that the invitation to tender specifically indicates that only businesses or firms belonging to the specified group are eligible to tender as specified in the **TDS**. No tender shall be reserved to more than one group. If not so stated in the Tender documents, the invitation to tender will be open to all interested tenderers.

33. Evaluation of Tenders

33.1 The Procuring Entity shall use the criteria and methodologies listed in this ITT and Section III, Evaluation and Qualification criteria. No other evaluation criteria or methodologies shall be permitted. By applying the criteria and methodologies, the Procuring Entity shall determine the Lowest Evaluated Tender. This is the Tender of the Tenderer that meets the qualification criteria and whose Tender has been determined to be:

a) substantially responsive to the tender documents; and

b) the lowest evaluated price.

33.2 Price evaluation will be done for Items or Lots (contracts), as specified **in the TDS;** and the Tender Price as quoted in accordance with ITT 14. To evaluate a Tender, the Procuring Entity shall consider the following:

a) price adjustment due to unconditional discounts offered in accordance with ITT 13.4;
b) converting the amount resulting from applying (a) and (b) above, if relevant, to a single currency in accordance with ITT 31;
c) price adjustment due to quantifiable nonmaterial non-conformities in accordance with ITT 29.3; and
d) any additional evaluation factors specified **in the TDS** and Section III, Evaluation and Qualification Criteria.

33.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be considered in Tender evaluation.

33.4 Where the tender involves multiple lots or contracts, the tenderer will be allowed to tender for one or more lots (contracts). Each lot or contract will be evaluated in accordance with ITT 33.2. The methodology to determine the lowest evaluated tenderer or tenderers based on one lot (contract) or based on a combination of lots (contracts), will be specified in Section III, Evaluation and Qualification Criteria. In the case of multiple lots or contracts, tenderer will be required to prepare the Eligibility and Qualification Criteria Form for each Lot.

33.5 The Procuring Entity's evaluation of a Tender will include and consider:

a) in the case of Goods manufactured in Kenya, sales and other similar taxes, which will be payable on the goods if a contract is awarded to the Tenderer;
b) in the case of Goods manufactured outside Kenya, already imported or to be imported, customs duties and other import taxes levied on the imported Good, sales and other similar taxes, which will be payable on the Goods if the contract is awarded to the Tenderer;

33.6 The Procuring Entity's evaluation of a Tender may require the consideration of other factors, in addition to the Tender Price quoted in accordance with ITT 14. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of Tenders, unless otherwise specified in the **TDS** from amongst those set out in Section III, Evaluation and Qualification Criteria. The additional criteria and methodologies to be used shall be as specified in ITT 33.2(d).

34. Comparison of Tenders

34.1 The Procuring Entity shall compare the evaluated costs of all substantially responsive Tenders established in accordance with ITT 33.2 to determine the Tender that has the lowest evaluated cost. The comparison shall be on the basis of total cost (place of final destination) prices for all goods and all prices, plus cost of inland transportation and insurance to place of destination, for goods manufactured within the Kenya, together with prices for any required installation, training, commissioning and other services.

35. Abnormally Low Tenders

35.1 An Abnormally Low Tender is one where the Tender price, in combination with other constituent elements of the Tender, appears unreasonably low to the extent that the Tender price raises material concerns with the Procuring Entity as to the capability of the Tenderer to perform the Contract for the offered Tender price.

35.2 In the event of identification of a potentially Abnormally Low Tender by the evaluation committee, the Procuring Entity shall seek written clarification from the Tenderer, including a detailed price analyses of its Tender price in relation to the subject matter of the contract, scope, delivery schedule, allocation of risks and responsibilities and any other requirements of the tendering document.

35.3 After evaluation of the price analysis, in the event that the Procuring Entity determines that the Tenderer has failed to demonstrate its capability to perform the contract for the offered Tender price, the Procuring Entity shall reject the Tender.

36. Abnormally High Tenders

36.4 An abnormally high price is one where the tender price, in combination with other constituent elements of the Tender, appears unreasonably too high to the extent that the Procuring Entity is concerned that it (the Procuring Entity) may not be getting value for money or it may be paying too high a price for the contract compared with market prices or that genuine competition between Tenderers is compromised.

36.5 In case of an abnormally high tender price, the Procuring Entity shall make a survey of the market prices, check if the estimated cost of the contract is correct and review the Tender Documents to check if the specifications, scope of work and conditions of contract are contributory to the abnormally high tenders. The Procuring Entity may also seek written clarification from the tenderer on the reason for the high tender price. The Procuring Entity shall proceed as follows:

i) If the tender price is abnormally high based on wrong estimated cost of the contract, the Procuring Entity may accept or not accept the tender depending on the Procuring Entity's budget considerations.

ii) If specifications, scope of work and/or conditions of contract are contributory to the abnormally high tender prices, the Procuring Entity shall reject all tenders and may retender for the contract based on revised estimates, specifications, scope of work and conditions of contract, as the case may be.

36.6 If the Procuring Entity determines that the Tender Price is abnormally too high because genuine competition between tenderers is compromised (*often due to collusion, corruption or other manipulations*), the Procuring Entity shall reject all Tenders and shall institute or cause relevant Government Agencies to institute an investigation on the cause of the compromise, before retendering.

37. Post-Qualification of the Tenderer

37.1 The Procuring Entity shall determine, to its satisfaction, whether the eligible Tenderer that is selected as having submitted the lowest evaluated cost and substantially responsive Tender, meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.

37.2 The determination shall be based upon an examination of the documentary evidence of the Tenderer qualifications submitted by the Tenderer, pursuant to ITT 15 and 16. The determination shall not take into consideration the qualifications of other firms such as the Tenderer subsidiaries, parent entities, affiliates, subcontractors (other than specialized subcontractors if permitted in the tendering document), or any other firm(s) different from the Tenderer.

37.3 An affirmative determination shall be a prerequisite for award of the Contract to the Tenderer. A negative determination shall result in disqualification of the Tender, in which event the Procuring Entity shall proceed to the Tenderer who offers a substantially responsive Tender with the next lowest evaluated cost to make a similar determination of that Tenderer qualifications to perform satisfactorily.

38. Lowest Evaluated Tender

38.1 Having compared the evaluated prices of Tenders, the Procuring Entity shall determine the Lowest Evaluated Tender. The Lowest Evaluated Tender is the Tender of the Tenderer that meets the Qualification Criteria and whose Tender has been determined to be:

a) most responsive to the Tender document; and
b) the lowest evaluated price.

39. Procuring Entity's Right to Accept Any Tender, and to Reject Any or All Tenders.

39.1 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 notification of Award, without thereby incurring any liability to Tenderers. In case of annulment, all Tenderers shall be notified with reasons and all Tenders submitted and specifically, tender securities, shall be promptly returned to the Tenderers.

F. Award of Contract

40. Award Criteria

40.1 The Procuring Entity shall award the Contract to the successful tenderer whose tender has been determined to be the Lowest Evaluated Tender in accordance with procedures in Section 3: Evaluation and Qualification Criteria.

41. Procuring Entity's Right to Vary Quantities at Time of Award

41.1 The Procuring Entity reserves the right at the time of Contract award to increase or decrease, by the percentage (s) for items as indicated **in the TDS.**

42. Notice of Intention to enter into a Contract

Upon award of the contract and Prior to the expiry of the Tender Validity Period the Procuring Entity shall issue a Notification of Intention to Enter into a Contract / Notification of award to all tenderers which shall contain, at a minimum, the following information:

a) the name and address of the Tenderer submitting the successful tender;

b) the Contract price of the successful tender;

c) a statement of the reason(s) the tender of the unsuccessful tenderer to whom the letter is addressed was unsuccessful, unless the price information in (c) above already reveals the reason;

d) the expiry date of the Standstill Period; and

e) instructions on how to request a debriefing and/or submit a complaint during the standstill period;

43. Standstill Period

43.1 The Contract shall not be awarded earlier than the expiry of a Standstill Period of 14 days to allow any dissatisfied candidate to launch a complaint. Where only one Tender is submitted, the Standstill Period shall not apply.

43.2 Where standstill period applies, it shall commence when the Procuring Entity has transmitted to each Tenderer the Notification of Intention to Enter into a Contract to the successful Tenderer.

44. Debriefing by the Procuring Entity

44.1 On receipt of the Procuring Entity's Notification of Intention to Enter into a Contract referred to in ITT 41, an unsuccessful tenderer may make a written request to the Procuring Entity for a debriefing on specific issues or concerns regarding their tender. The Procuring Entity shall provide the debriefing within five days of receipt of the request.

44.2 Debriefings of unsuccessful Tenderers may be done in writing or verbally. The Tenderer shall bear its own costs of attending such a debriefing meeting.

45. Letter of Award

Prior to the expiry of the Tender Validity Period and upon expiry of the Standstill Period specified in ITT 42, upon addressing a complaint that has been filed within the Standstill Period, the Procuring Entity shall transmit the Letter of Award to the successful Tenderer. The letter of award shall request the successful tenderer to furnish the Performance Security within 21days of the date of the letter.

46. Signing of Contract

46.1 Upon the expiry of the fourteen days of the Notification of Intention to enter into contract and upon the parties meeting their respective statutory requirements, the Procuring Entity shall send the successful Tenderer the Contract Agreement.

46.2 Within fourteen (14) days of receipt of the Contract Agreement, the successful Tenderer shall sign, date, and return it to the Procuring Entity.

46.3 The written contract shall be entered into within the period specified in the notification of award and before expiry of the tender validity period.

47. Performance Security

47.1 Within twenty-one (21) days of the receipt of Letter of Acceptance from the Procuring Entity, the successful Tenderer, if required, shall furnish the Performance Security in accordance with the GCC 18, using for that purpose the Performance Security Form included in Section X, Contract Forms. If the Performance Security furnished by the successful Tenderer is in the form of a bond, it shall be issued by a bonding or insurance company that has been determined by the successful Tenderer to be acceptable to the Procuring Entity. A foreign institution providing a bond shall have a correspondent financial institution located in Kenya, unless the Procuring Entity has agreed in writing that a correspondent financial institution is not required.

47.2 Failure of the successful Tenderer to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Tender Security. In that event the Procuring Entity may award the Contract to the Tenderer offering the next lowest Evaluated Tender.

47.3 Performance security shall not be required for a contract, if so specified in the **TDS**.

48. Publication of Procurement Contract

48.1 Within fourteen days after signing the contract, the Procuring Entity shall publish and publicize the awarded contract at its notice boards, entity website; and on the Website of the Authority in manner and format prescribed by the Authority. At the minimum, the notice shall contain the following information:

a) name and address of the Procuring Entity;
b) name and reference number of the contract being awarded, a summary of its scope and the selection method used;
c) the name of the successful Tenderer, the final total contract price, the contract duration.
d) dates of signature, commencement and completion of contract;
e) names of all Tenderers that submitted Tenders, and their Tender prices as read out at Tender opening;

49. Procurement Related Complaints and Administrative Review

49.1 The procedures for making a Procurement-related Complaint are as specified in the **TDS**.

49.2 A request for administrative review shall be made in the form provided under contract forms.

SECTION II – TENDER DATA SHEET (TDS)

The following specific data shall complement, supplement, or amend the provisions in the Instructions to Tenderers (ITT). Whenever there is a conflict, the provisions herein shall prevail over those in ITT.

ITT Reference	**Particulars Of Appendix To Instructions To Tenders**
A. General	
ITT 1.1	The reference number of the Invitation for Tenders is: ***TENDER NO*: *MOH & CoG /OT/FA/01/2025-2026.*** ***IFMIS NEGOTIATION NO. 2082730*** The Procuring Entity is: ***MINISTRY OF HEALTH*- STATE DEPARTMENT FOR MEDICAL SERVICES JOINTLY WITH THE *COUNCIL OF GOVERNORS*** The name of the Contract is: **Supply and Delivery of Medical Equipment, Accessories and Associated Supplies on a Framework Basis in Public Health Facilities.**
ITT 1.2(a)	**Uploaded in any of the Reference Sites**
ITT 2.3	**N/A**
ITT 3.1	Maximum number of members in the Joint Venture (JV) shall be: **TWO (2 NO)**
ITT 3.11	Tenderers shall be required to submit the following: ***As per Specifications***
	B. Contents of Tendering Document
ITT 6.1	Address where to send enquiries is procurement@health.go.ke to reach the procuring entity not later than 3 days before tender submission date. The Procuring Entity will publish its response at the website: www.health.go.ke
ITT 6.2	A pre-tender conference will **not be held**
ITT 6.3	The questions to reach the Procuring Entity not later than 3 days before the tender submission date.
ITT 6.5	The Minutes of the Pre-Tender meeting shall be published on the website ***N/A)***
	C. Preparation of Tenders
ITT 10 (j)	The Tenderer shall submit the following additional documents in its Tender: ***(Refer to Evaluation criteria and specifications provided)***
ITT 12.1	Alternative Tenders ***[shall not be]*** considered.
ITT 13.5	The prices quoted by the Tenderer **shall not be** subject to adjustment during the performance of the Contract.
ITT 13.6	Prices quoted for each Category (contract) shall correspond at least **to *[100*]** percent of the items specified for each category (contract). N/A Prices quoted for each item of a category shall correspond at least to ***[100]*** percent of the quantities specified for this item of a category.
ITT 13.8 (a) (i) and (iii)	Place of final destination: ***Within in any of the Public Facilities all the 47 counties***.

ITT Reference	Particulars Of Appendix To Instructions To Tenders
ITT 13.8 (a) (iii)	Final Destination (Project Site): **Within any of the Public Health Facilities in all the 47 Counties**
ITT 13.8 (b) (i)	Named place of destination, in Kenya is **N/A** _____
ITT 13.8 (b) (ii)	The price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final destination, which is **in any of the Public Health Facilities in all the 47 Counties**
13.8 (c) (iv)	The place of final destination (Project Site) is **any of the Public Health Facilities in all the 47 Counties**
ITT 14.2	Foreign currency requirements **not allowed.**
ITT 15.4	Period of time the Goods are expected to be functioning (for the purpose of spare parts): ***[Three (3) years]***
ITT 16.2 (a)	Manufacturer's authorization is: ***[see Evaluation and Qualification Criteria]***
ITT 16.2 (b)	After sales service is: ***[Required]***
ITT 17.1	The Tender validity period shall be ***[210]*** days.
ITT 17.3	**a)** The number of days beyond the expiry of the initial tender validity period will be 30 days b)The tender price shall be adjusted by the following percentages of the tender price: **Within provisions of the PPADA 2015.**
ITT 18.1	A *Tender Security* ***"shall be "*** required as indicated below: - Category A Kenya Shillings. One Million (Kshs. 1,000,000) - Category B Kenya Shillings Five Hundred Thousand Kshs. 500,000) - Category C Kenya Shillings Five Hundred Thousand (Kshs. 500,000) - Category D- Kenya Shillings Two Hundred Thousand (Kshs. 200,000) in the form of unconditional demand bank guarantee or an Insurance Company registered and approved by Insurance Regulatory Authority and listed by the Public Procurement Regulatory Authority (PPRA) valid for 30 days beyond tender validity **A Tender-Securing Declaration *"shall be"* required for firms bidding under Public Procurement Preferences and Reservations Scheme. No other Tender Security will be required from such firms for the reserved items.**
ITT 19.1	In addition to the original of the Tender, the number of copies is**: *Not Applicable***
ITT 19.3	The written confirmation of authorization to sign on behalf of the Tenderer shall consist of**: *[POWER OF ATTORNEY committing the signatory of the tender to the tender proceedings.***
	D. Submission and Opening of Tenders
ITT 21.1	For **Tender submission purposes** only, the Procuring Entity's address is: Tenders to be submitted online in the IFMIS Portal: www.supplier.treasury.go.ke But the original of the Form of tender & Price Schedules, Power of Attorney and Tender Security Must be dropped to the Tender box located at the entrance of 1st Floor Afya House in a single sealed envelope bearing the name and reference number of the tender, addressed to the Principal Secretary, State Department for

ITT Reference	Particulars Of Appendix To Instructions To Tenders
	Medical Services and warning not to open before date and time of tender opening. **The deadline for Tender submission is:** Date: ***Tuesday 27th January 2026 at 11:00am*** Time: *11:00am*
ITT 24.1	The Tender opening shall take place at: ***Principal Secretary*** ***Ministry of Health*** ***State Department for Medical Services*** ***Afya House, Cathedral Road*** ***P. O. Box 30016 - 00100*** ***NAIROBI*** ***ADB Boardroom]*** Date: ***Tuesday*** ***27th January 2026 at 11:00am***
E. Evaluation and Comparison of Tenders	
ITT 31.1	The currency that shall be used for Tender evaluation and comparison purposes to convert at the selling exchange rate all Tender prices expressed in various currencies into a single currency is: ***[Kenya Shillings]*** *The source of exchange rate shall be:* ***The Central Bank in Kenya*** *The date for the exchange rate shall be:* ***Tender Opening date***
ITT 32.3	A margin of preference and/ or reservation "shall not" apply
ITT 33.2	**Price evaluation will be done for items**
ITT 33.2 (d)	Additional evaluation factors are: **Refer to evaluation Criteria**
ITT 33.6	The adjustments shall be determined using the following criteria, from amongst those set out in Section III, Evaluation and Qualification Criteria: ***[refer to Section III, Evaluation and Qualification Criteria;***
ITT 34.1	The Framework agreement Award prices per item shall be informed by the market Survey conducted by the **State Department for Medical Services jointly with the Council of Governors.**
ITT 40.1	Multiple contracts may be awarded at the lowest evaluated cost within the provisions of the PPADA 2015 with regard to Framework Contracting.
	F. Award of Contract
ITT 41.1	The maximum percentage by which quantities may be increased is: ***[N/A]*** The maximum percentage by which quantities may be decreased is: ***[N/A]***
ITT 41.1	The Procuring Entity shall increase or decrease the quantity of Goods and Related Services by an amount not exceed _____N/A_____% and without any change in the unit prices or other terms and conditions of the Tender and the tendering document.
ITT 47.3	Performance security if so required shall be 5% of the Tender Amount.
ITT 49.1	The procedures for making a Procurement-related Complaint are detailed in the "Notice of Intention to Award the Contract" herein and are also available from the PPRA Website www.ppra.go.ke.

SECTION III - EVALUATION AND QUALIFICATION CRITERIA

1. General Provisions

1.1 Wherever a Tenderer is required to state a monetary amount, Tenderers should indicate the Kenya Shilling equivalent using the rate of exchange determined as follows:

a) For business turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year is to be converted) was originally established.

b) Value of single contract - Exchange rate prevailing on the date of the contract signature.

c) Exchange rates shall be taken from the publicly available source identified in **the ITT 14.3.** Any error in determining the exchange rates in the Tender may be corrected by the Procuring Entity.

1.2 This section contains the criteria that the Procuring Entity Procuring Entity shall use to evaluate tender and qualify tenderers. No other factors, methods or criteria shall be used other than those specified in this tender document. The Tenderer shall provide all the information requested in the forms included in Section IV, Tendering Forms. The Procuring Entity should use the Standard Tender Evaluation Report for Goods and Works for evaluating Tenders.

2. Evaluation of Tenders (ITT 33)

2.1 Successful Tender or Tenders

The Procuring Entity shall use the criteria and methodologies listed in this Section to evaluate Tenders. By applying these criteria and methodologies, the Procuring Entity shall determine the successful Tender or Tenders which has/have been determined to:

a) be substantially responsive to the tender documents;

b) offer the lowest evaluated cost to the Procuring Entity for all items of Goods to be procured based on either a single Contract or all multiple Contracts combined, as the case may be, in accordance with the ITT 13.6 inviting Tender prices and discounts, and provisions made of the Tender Document for evaluation of tenders and award of contract (s); and

c) be offered by Tenderer or Tenderers that substantially meet the qualification criteria applicable for Contract or combined Contracts for which they are selected.

2.2 Evaluation of Tenders

Preliminary examination for Determination of Responsiveness

The Procuring Entity will start by examining all tenders to ensure they meet in all respects the eligibility criteria and other mandatory requirements in the ITT, and that the tender is complete in all aspects in meeting the requirements provided for in the preliminary evaluation criteria outlined below. The Standard Tender Evaluation Report Document for Goods and Works for evaluating Tenders provides very clear guide on how to deal with review of these requirements. Tenders that do not pass the Preliminary Examination will be

considered non-responsive and will not be considered further.

EVALUATION CRITERIA

Tenders will be evaluated in three (3) stages as follows:

1. Preliminary Evaluation
2. Technical Evaluation
3. Financial Evaluation

STAGE 1: PRELIMINARY EVALUATION – Mandatory Requirements

S/NO	REQUIREMENTS	PASS/FAIL
1.	Copy of Certificate of Incorporation/Registration	
2.	Copy of CR12 not more than 6 months from the date of tender or CR13 for Partnership or Proprietor IDs for Sole Proprietors.	
3.	Power of Attorney issued to the person who shall be the signatory of all documents and the contract.	
4.	Copy of a valid Tax Compliance Certificate	
5.	Valid Business Permit/License	
6	Tenders to be accompanied by a duly filled Tender Securing Declaration Form for firms bidding exclusively for the Reserved Items	
7.	Valid Registration Certificate of Access to Government Procurement Opportunities (AGPO) **where applicable**	
8.	Tenders to be accompanied by a Tender Security as follows: Category A - Kshs. 1,000,000 Category B - Kshs. 500,000 Category C - Kshs. 500,000 Category D - Kshs. 200,000	
9.	Duly filled, signed and stamped Form of Tender	
10.	Dully Filled, signed and stamped Price Schedule in the format provided.	
11.	Duly filled, signed and stamped FORM SD1 (Non-Debarment Form)	
12.	Duly filled, signed and stamped FORM SD2 (Anti-Corruption Form)	
13.	Duly filled, signed and stamped Confidential Business Questionnaire	
14.	Duly filled, signed and stamped certificate of Independent Tender Determination	
15.	Tenders should be valid for **210 days** from the date of tender opening.	
16.	Dully filled signed dated and stamped Declaration and Commitment to the Code of Ethics	
17.	Tenderer Information Form dully filled	
18.	Tender documents as uploaded to be properly serialized/paginated with proper cross-referencing on each of the subject evaluation and qualification criteria compliance.	

The above requirements are mandatory and failure to meet any of them will lead to the tender being considered as non-responsive and eliminated from further evaluation process.

2.2.1 Evaluation of Technical aspects of the Tender

The Procuring Entity shall evaluate the technical aspects of the Tender to determine compliance with the Procuring Entity's requirements under Section V 'Schedule of Requirement' and whether the Tenders are substantially responsive to the Technical Specifications and other Requirements.

STAGE 2: TECHNICAL EVALUATION

This Stage of evaluation shall be done on the following criteria.

CATEGORY A: MEDICAL AND SURGICAL EQUIPMENT

a. Dully filled, signed and stamped Delivery Schedule

b. Experience

The bidder has satisfactorily and substantially completed at least two (2) No contract (s) of a similar nature, amounting to not less than Kenya Shillings 100,000,000 or equivalent within the last five (5) years. (provide evidence).

c. Financial Capability

The tenderer shall demonstrate that it has access to, or has available liquid assets, lines of credit to the tune of Kenya Shillings 200,000,000.
Minimum average annual turnover of Kenya Shillings (kshs.300,000,000) or equivalent calculated as total certified payments received for contracts in progress and /or completed within the last three (3) years.

d. Logistic Capability

Bidders to demonstrate ability to offer logistics in delivering the goods to point of use safely and in good condition. Provide a proposal in terms of transport/ courier services. The bidder to demonstrate ownership of transportation equipment or ability to hire as the case may be (Provide documentary evidence).

e. Technical Staff requirements for:

a) Team Leader-
- Minimum of ten (10) years' experience in the technical field and project management.
- Holder of minimum Degree with 10 years and above relevant experience, Certificates and relevant experience must be provided
- Must attach CVs and Certificates.

b) Technicians
- Minimum of five (5) years' experience in the technical field
- At least two (2) Bio Medical Engineering Technicians
- Diploma in Bio Medical Engineering
- Certificates and relevant experience must be provided
- Must attach CVs and Certificates

The staff whose documents are provided must be part of the bidder or its subcontractors, partners or vendors organization and should be nominated by the bidder for this assignment.

f). Manufacturer Authorization

Tenderers shall be required to provide Manufacturer authorization/proof of dealership/agreements with the authorized dealers (Dealership authorization letters) for the equipment.

g). Back Up Support

Bidders must also commit to providing servicing and maintenance of the equipment for a period of 2 years upon installation and any required site training.

h). Technical Specifications Compliance

The product is expected to meet the minimum technical specifications provided.

Tenders that are technically responsive and fall within the client's delivery timelines will proceed to financial evaluation.

CATEGORY B: CERVICAL SPINE SURGERY IMPLANTS AND CAGES

a. Dully filled, signed and stamped Delivery Schedule

b. Experience

The bidder has satisfactorily and substantially completed at least two (2) No contract (s) of a similar nature, amounting to not less than Kenya Shillings 50,000,000 or equivalent within the last five (5) years. (provide evidence).

c. Financial Capability

The tenderer shall demonstrate that it has access to, or has available liquid assets, lines of credit to the tune of Kenya Shillings 50,000,000.
Minimum average annual turnover of Kenya Shillings (kshs.100,000,000) or equivalent calculated as total certified payments received for contracts in progress and /or completed within the last three (3) years.

d. Logistic Capability

Bidders to demonstrate ability to offer logistics in delivering the goods to point of use safely and in good condition. Provide a proposal in terms of transport/ courier services. The bidder to demonstrate ownership of transportation equipment or ability to hire as the case may be (Provide documentary evidence).

f). **Manufacturer Authorization**

Tenderers shall be required to provide Manufacturer authorization/proof of dealership/agreements with the authorized dealers for the items.

g). Brochures

Tenderers are required to provide brochures of the proposed items with the appropriate product technical data.

h). Technical Specifications Compliance

The products is expected to meet the minimum technical specifications provided.

Tenders that are technically responsive and fall within the client's delivery timelines will proceed to financial evaluation.

CATEGORY C: BLOOD TRANSFUSION SUPPLIES AND CONSUMABLES

a. Dully filled, signed and stamped Delivery Schedule

b. Experience

The bidder has satisfactorily and substantially completed at least two (2) No contract (s) of a similar nature, amounting to not less than Kenya Shillings 50,000,000 or equivalent within the last five (5) years. (provide evidence).

c. Financial Capability

The tenderer shall demonstrate that it has access to, or has available liquid assets, lines of credit to the tune of Kenya Shillings 50,000,000.
Minimum average annual turnover of Kenya Shillings (kshs.100,000,000) or equivalent calculated as total certified payments received for contracts in progress and /or completed within the last three (3) years.

d. Logistic Capability

Bidders demonstrate ability to offer logistics in delivering the goods to point of use safely and in good condition. Provide a proposal in terms of transport/ courier services. The bidder to demonstrate ownership of transportation equipment or ability to hire as the case may be (Provide documentary evidence).

e. Manufacturer Authorization

Tenderers shall be required to provide a Manufacturer authorization/proof of dealership/agreements with the authorized dealers for the items.

f. Brochures

Tenderers are required to provide brochures of the proposed items with the appropriate product technical data.

g. Technical Specifications Compliance

The product is expected to meet the minimum technical specifications provided.

Tenders that are technically responsive and fall within the client's delivery timelines will proceed to financial evaluation.

CATEGORY D- DECONTAMINATION OF PUBLIC HEALTH FACILITIES

a. Dully filled, signed and stamped Delivery Schedule.

b. Experience

The bidder has satisfactorily and substantially completed at least two (2) No contract (s) of a similar nature, amounting to not less than Kenya Shillings 15,000,000 or equivalent in the last five (5) years. (provide evidence).

c. Financial Capability

The tenderer shall demonstrate that it has access to, or has available liquid assets, lines of credit to the tune of Kenya Shillings (Kshs.20,000,000).

Minimum average annual turnover of Kenya Shillings (kshs.30,000,000) or equivalent calculated as total certified payments received for contracts in progress and /or completed within the last three (3) years.

d. Technical Specifications Compliance

The service is expected to meet the minimum technical specifications and requirements as provided

CATEGORY C AND B RESERVED ITEMS

For items exclusively reserved for AGPO Registered Firms, the Technical Qualifications criteria is as follows:

e. Dully filled, signed and stamped Delivery Schedule.

f. Experience

The bidder has satisfactorily and substantially completed at least two (2) No contract (s) of a similar nature, amounting to not less than Kenya Shillings 15,000,000 or equivalent in the last five (5) years. (provide evidence).

g. Financial Capability

The tenderer shall demonstrate that it has access to, or has available liquid assets, lines of credit

to the tune of Kenya Shillings (Kshs.20,000,000).

Minimum average annual turnover of Kenya Shillings (kshs.30,000,000) or equivalent calculated as total certified payments received for contracts in progress and /or completed within the last three (3) years.

h. Logistic Capability

Bidders demonstrate ability to offer logistics in delivering the goods to point of use safely and in good condition. Provide a proposal in terms of transport/ courier services. The bidder to demonstrate ownership of transportation equipment or ability to hire as the case may be (Provide documentary evidence).

i. Brochures

Tenderers are required to provide brochures of the proposed items with the appropriate product technical data.

j. Technical Specifications Compliance

The product is expected to meet the minimum technical specifications provided.

FINANCIAL EVALUATION

This will involve comparison to determine the evaluated price of each tender. Any minor deviations will also be taken into account. Where applicable, tenders will be converted to the same currency using Central Bank of Kenya exchange rate prevailing at the tender opening date.

The evaluation committee shall compare prices of the technically responsive tenders and make recommendation for award of the lowest evaluated tender. Items can be awarded together or separately.

Consistent with and in addition to the criteria listed in ITT 33.3 and ITT 29.3; and ITT 34 and its subparagraphs the following criteria shall apply:

22.1 Evaluation of Technical aspects of the Tender

The Procuring Entity shall evaluate the Technical aspects of the Tender to determine compliance with the Procuring Entity's requirements under Section V 'Schedule of Requirement' and whether the Tenders are substantially responsive to the Technical Specifications and other Requirements.

22.2 Evaluation of Commercial Terms and Conditions of the Tender (ITT 33.1(a)):

The Procuring Entity shall determine whether the Tenders are substantially responsive to the Commercial and Contractual Terms and Conditions (e.g. Performance securities, Payment and delivery schedules).

22.3 Evaluation Criteria (Other Factors) (ITT 33.6)

The Procuring Entity's evaluation of a Tender may take into account, in addition to the Tender Price quoted in accordance with ITT 13.8, one or more of the following factors as specified in ITT 33.2(d) and in TDS ITT 33.6**,** using the following criteria and methodologies.

a) Delivery schedule.

The Goods specified in the List of Goods are required to be delivered within the acceptable time range (after the earliest and before the final date, both dates inclusive) specified in Section V, Schedule of Requirements. No credit will be given to deliveries before the earliest date, and Tenders offering delivery after the final date shall be treated as non-responsive. Within this acceptable period, an adjustment of [insert the adjustment factor], will be added, for evaluation purposes only, to the Tender price of Tenders offering deliveries later than the "Earliest Delivery Date" specified in Section V, Schedule of Requirements.

[An adjustment factor of 0.5% per week of delay would be reasonable. However, the adjustment factor should not be more than the rate of Liquidated Damages to be applied in case of delay in delivery of Goods and Services under the Contract conditions.]

b) **Deviation in payment schedule**.

i. tenderers shall state their Tender price for the payment schedule outlined in the SCC. Tenders shall be evaluated on the basis of this base price. tenderers are, however, permitted to state an alternative payment schedule and indicate the reduction in Tender price they wish to offer for such alternative payment schedule. The Procuring Entity may consider the alternative payment schedule and the reduced Tender price offered by the tenderer selected on the basis of the base price for the payment schedule outlined in the SCC.

22.4. Technical Specifications and other Requirements. Multiple Contracts (ITT 33.4)

Tenders are invited for individual lots, the contract will be awarded to the tenderer offering a substantially responsive Tender(s) and the lowest evaluated cost for individual lots, subject to the selected tenderer(s) meeting the required qualification criteria (this Section III, Sub-Section ITT 36 Qualification Requirements) for each lot. In determining tenderer that offer the lowest evaluated cost to the Procuring Entity for each lot, the Procuring Entity shall apply the following steps in sequence:

(a) evaluate individual lots to determine the substantially responsive Tenders and corresponding evaluated costs;

(b) for each lot, rank the substantially responsive Tenders starting from the lowest evaluated cost for the lot;

(c) apply to the evaluated costs listed in (b) above, any applicable discounts/price reductions offered by a tenderer (s) for the award of each Lot based on the discounts and the methodology for their application offered by the respective Tenderer; and

(d) determine contract award based on the lots that offer the tender offers each of which has the lowest evaluated cost to the Procuring Entity.

22.5. Alternative Tenders

(ITT 13.1) *An alternative if permitted under*

ITT 13.1, will be evaluated as follows: [insert

one of the following]

"A Tenderer may submit an alternative Tender only with a Tender for the base case. The Procuring Entity shall only consider the alternative Tenders offered by the Tenderer whose Tender for the base case was determined to be the Lowest Evaluated Tender."

or

"A Tenderer may submit an alternative Tender with or without a Tender for the base case. The Procuring Entity shall consider Tenders offered for alternatives as specified in the Technical Specifications of Section V, Schedule of Requirements. All Tenders received, for the base case, as well as alternative Tenders meeting the specified requirements, shall be evaluated on their own merits in accordance with the same procedures, as specified in the ITT 33."

50. MARGIN OF PREFERENCE

50.1 If the TDS so specifies, the Procuring Entity will grant a margin of preference of 15% (fifteen percent) to Tenderers offering goods manufactured, mined, extracted, grown, assembled or semi-processed in Kenya. Goods assembled or semi-processed in Kenya shall have a local content of not less than 40%.

50.2 The margin of preference will be applied in accordance with, and subject to, the following provisions:

a) Tenderers applying for such preference on goods offered shall provide, as part of the data for qualification, such information, including details of the goods produced in Kenya, so as to determine whether, according to the classification established by the Procuring Entity, a particular category of goods or group of goods qualifies for a margin of preference.

b) After Tenders have been received and reviewed by the Procuring Entity, goods offered in the responsive Tenders shall be assessed to ascertain they are manufactured, mined, extracted, grown, assembled or semi- processed in Kenya. Responsive tenders shall be classified into the following groups:

- **Group A:** Tenders offering goods manufactured in Kenya, for which (a) labour, raw materials, and components from within Kenya account for more than forty (40) percent of the Ex-Works price; and (b) the production facility in which they will be manufactured or assembled has been engaged in manufacturing or assembling such goods at least since the date of Tender Submission date;

- **Group B:** All other Tenders offering Goods manufactured in Kenya;
- **Group C:** Tenders offering Goods manufactured outside Kenya that have been already imported or that will be imported.

c) To facilitate this classification by the Procuring Entity, the Tenderer shall complete whichever version of the Price Schedule furnished in the Tender Documents is appropriate. Incorrect classification may render the Tender non-responsive as no reclassification will be permitted after Tender opening. Tenderers shall provide correct information especially with respect to duties, taxes etc. paid on previously imported Goods and percentage of local labour, materials and components for Goods manufactured in Kenya as any false information which cannot be supported by documentation may render the Tender non-responsive besides other sanctions for providing falsified information.

d) The Procuring Entity will first review the Tenders to confirm the

appropriateness of the Tender group classification to which Tenderers assigned their Tenders in preparing their Tender Forms and Price Schedules.

e) All evaluated Tenders in each group will then be compared to determine the lowest evaluated Tender of each group. Such lowest evaluated Tenders shall be compared with each other and if as a result of this comparison a Tender from Group A or Group B is the lowest, it shall be selected for the award.

f) If as a result of the preceding comparison, the lowest evaluated Tender is a Tender from Group C, all Tenders from Group C shall be further compared with the lowest evaluated Tender from Group A after adding to the evaluated price of goods offered in each Tender from Group C, for the purpose of this further comparison only, an amount equal to 15% (fifteen percent) of the respective CIP Tender price for goods to be imported and already imported goods. Both prices shall include unconditional discounts and be corrected for arithmetical errors. If the Tender from Group A is the lowest, it shall be selected for award. If not, the lowest evaluated Tender from Group C shall be selected as per paragraph (e) above."

51. Post-Qualification of Tenderers (ITT 37)

***[Note for Procuring Entity to be deleted before issuing the tender documents**.*

This STD for Procurement of Goods assumes that no Prequalification has taken place before tendering. However, if a Prequalification process is undertaken, the Qualification Criteria stipulated in this Section III, Evaluation and Qualification Criteria must be updated to ensure that the Tenderer and any Sub- Suppliers shall meet or continue to meet the Criteria used at the time of Prequalification.]

51.1 Post-Qualification Criteria (ITT 37.1)

In case the tender was not subject to pre-qualification, the tender that has been determined to be the lowest evaluated tenderer shall be considered for contract award, subject to meeting each of the following conditions (post qualification Criteria applied on a GO/NO GO basis). The Procuring Entity shall carry out the post- qualification of the Tenderer in accordance with ITT 37, using only the requirements specified herein. Requirements not included in the text below shall not be used in the evaluation of the Tenderer's qualifications. The minimum qualification requirements for multiple contracts will be the sum of the minimum requirements for respective individual contracts, unless otherwise specified.

Due diligence will be carried out to the successful bidders before contract award to give an affirmative determination for award.

51.2 If the Tenderer is a manufacturer

a) Financial Capability

i) The Tenderer shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the supply cash flow of Kenya Shillings _____ [or equivalent].

ii) Minimum average annual supply turnover of Kenya Shillings_____*[insert amount, specify a figure about 2.5 times the total Tender price)] or* equivalent calculated as total certified payments received for contracts of

goods manufactured and supplied within the last_____ _____*[insert number of years)*. In case of multiple contracts, limitation will be placed on the number of item(s) that will be awarded to the Tenderer.

b) Experience and Technical Capacity

The Tenderer shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s) using the form provided in Section IV. In case the Tenderer is a JV, experience and demonstrated technical capacity of only the JV shall be taken into account and not of individual members nor their individual experience/capacity will be aggregated unless all members of the JV have been manufacturing and supplying Goods offered in the Tender to the same technology, processing, design, materials, specifications, model number, etc. in all respects such that Goods manufactured have the same functional characteristics, performance parameters, outputs and other guarantees and fully interchangeable which shall be documented along with other required documents demonstrating capacity to the satisfaction of the Procuring Entity in case individual members claim experience. Otherwise, documents evidencing experience and technical capacity shall be in the name of the JV that submitted the Tender. Wherever the Words "Similar Goods" have been used it includes upgrades, latest and improved versions or models of similar specifications and technology. Refer to Form Exp-1 to provide the required information.

[list the requirement(s), including experience in successfully implementing sustainable procurement requirements, if specified in the tender document.] Samples of Experience Requirements:

i) The Tenderer shall be manufacturing similar Goods for the last _____(*specify the number of years to cover a sufficiently long period ranging from 2 to 5 years depending upon the Goods to be procured*).

ii) The Tenderer shall furnish documentary evidence to demonstrate successful completion of at least _____(*Insert number*) of contracts of similar Goods in the last _____ (*specify number*) each contract costing at least Kenya shillings_____equivalent and involving a supply of at least_____percentage of required quantity (*usually the percentage is about 70-80%*) *in some cases where Procuring Entity requires deliveries in a scheduled manner over a specified time, include item (iii) below.*

iii) (**Optional**) The installed capacity to manufacture_____number of items (*specify the relevant item number*) shall not be less than _____units per _____ (*specify week or month*).

c) **(Optional) Documentary Evidence of Usage of Goods (When appropriate**) The Tenderer shall furnish documentary evidence satisfactory to the Procuring Entity to demonstrate that similar Goods as offered in the Tender have been in successful use or operation for the last _____years. If the Tenderer is a JV, the evidence of demonstrated usage of Goods supplied in the past shall be in the name of the JV.

51.3 If Tenderer is a Supplier:

If a Tenderer is a Supplier offering the Goods on behalf of or from a Manufacturer under Manufacturer's Authorization Form (Section IV, Tendering Forms), the Manufacturer shall demonstrate the above qualifications 4.2 (b) (i),

(ii), and (iii) and the Tenderer shall demonstrate it meets the following criteria.

i) The Tenderer shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the supply cash flow of Kenya Shillings _____

ii) Minimum average annual supply turnover of Kenya Shillings _____*[in sert amount]* or equivalent calculated as total certified payments received for contracts in progress and/or completed within the last *[insert of year]* years, divided by *[insert number of years]* years**.**

iii) Has satisfactorily and substantially completed at least_____(*specify number*) contract(s) of a similar nature either within Kenya, the East African Community or abroad, as a prime supplier or a joint venture member, each of a minimum value in Kenya shillings _____ _____equivalent.

51.4 **History of non-performing contracts**:

Tenderer (Supplier or/and manufacturer, and each member of JV in case the Tenderer is a JV, shall demonstrate that Non-performance of a contract did not occur as a result of the default of the Tenderer, manufacturer or the member of JV as the case may be, in the last_____(*specify years*). The required information shall be furnished as per form CON-2].

51.5 Pending Litigation

Financial position and prospective long-term profitability of the Single Tenderer, and in the case the Tenderer is a JV, of each member of the JV, shall remain sound according to criteria established with respect to Financial Capability under paragraph I (i) above assuming that all pending litigation will be resolved against the Tenderer. Tenderer shall provide information on pending litigations as per Form CON-2.

4.6**. Litigation History**

There shall be no consistent history of court/arbitral award decisions against the Tenderer, in the last_____(*specify years*). All parties to the contract shall furnish the information on the related Form (CON-2) about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the years specified. A consistent history of awards against the Tenderer or any member of a JV may result in rejection of the tender.

SECTION IV - TENDERING FORMS

Form of Tender Tenderer Information Form Tenderer JV Members Information Form Price Schedule: Goods Manufactured Outside Kenya, to be Imported Price Schedule: Goods Manufactured Outside Kenya, already imported Price Schedule: Goods Manufactured in Kenya Price and Completion Schedule – Related Services Form of Tender Security – Demand Guarantee Form of Tender Security (Tender Bond)

Form of Tender-Securing Declaration Manufacturer's Authorization Form

FORM OF TENDER

(Amended and issued pursuant to PPRA CIRCULAR No. 02/2022)

INSTRUCTIONS TO TENDERERS

i) All italicized text is to help the Tenderer in preparing this form.

ii) The Tenderer must prepare this Form of Tender on stationery with its letterhead clearly showing the Tenderer's complete name and business address. Tenderers are reminded that this is a mandatory requirement.

iii) Tenderer must complete and sign CERTIFICATE OF INDEPENDENT TENDER DETERMINATION and the SELF DECLARATION FORMS OF THE TENDERER as listed under (s) below.

Date of this Tender submission:.....*[insert date (as day, month and year) of Tender submission]*

Tender Name and Identification:.....*[insert identification]*

Alternative No.:.....*[insert identification No if this is a Tender for an alternative]*

To: ..... *[Insert complete name of Procuring Entity]*

a) **No reservations:** We have examined and have no reservations to the Tendering document, including Addenda issued in accordance with Instructions to tenderers (ITT 7);

b) **Eligibility**: We meet the eligibility requirements and have no conflict of interest in accordance with ITT 3;

c) **Tender/Proposal-Securing Declaration**: We have not been suspended nor declared ineligible by the Procuring Entity based on execution of a Tender-Securing Declaration. Or Proposal-Securing Declaration in Kenya in accordance with ITT 3.6;

d) **Conformity:** We offer to supply in conformity with the Tendering document and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods: [*insert a brief description of the Goods and Related Services*];

e) **Tender Price**: The total price of our Tender, excluding any discounts offered in item (f) below as per listed Lots (list each lot with its price)" [insert the prices of the Tender in words and figures, indicating the various amounts for lots and the respective currencies];

f) **Discounts**: The discounts offered and the methodology for their application are:

i) The discounts offered are: [*Specify in detail each discount offered.*]

ii) The exact method of calculations to determine the net price after application of discounts are shown below: [*Specify in detail the method that shall be used to apply the discounts*];

g) **Tender Validity Period**: Our Tender shall be valid for the period specified in TDS 17.1 (as amended, if applicable) from the date fixed for the Tender submission deadline specified in TDS 21.1 (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

h) **Performance Security**: If our Tender is accepted, we commit to obtain a performance security in accordance with the Tendering document;

i) **One Tender per tenderer**: We are not submitting any other Tender(s) as an individual tenderer, and we are not participating in any other Tender(s) as a Joint Venture member, or as a subcontractor, and meet the requirements of ITT 3.9, other than alternative Tenders submitted in accordance with ITT 12;

j) **Suspension and Debarment**: We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the Procuring Entity. Further, we are not ineligible under the Kenya laws or official regulations or pursuant to a decision of the United Nations Security Council;

k) **State-owned enterprise or institution**: *[select the appropriate* **option** *and delete the other] [We are not a state- owned enterprise or institution] / [We are a state-owned enterprise or institution but meet the requirements of ITT 3.7];*

l) **Commissions, gratuities, fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the Tendering process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")

m) **Binding Contract**: We understand that this Tender, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;

n) **Procuring Entity Not Bound to Accept**: We understand that you are not bound to accept the lowest evaluated cost Tender, the Best Evaluated Tender or any other Tender that you may receive; and

o) **Fraud and Corruption**: We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Fraud and Corruption.

p) **Code of Ethical Conduct**: We undertake to adhere by the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal, copy available from_____(*specify website*) during the procurement process and the execution of any resulting contract.

q) **Collusive practices**: We hereby certify and confirm that the tender is genuine, non-collusive and made with the intention of accepting the contract if awarded. To this effect we have signed the "Certificate of Independent tender Determination" attached below.

r) **Beneficial Ownership Information:** We commit to provide to the procuring entity the Beneficial Ownership Information in conformity with the Beneficial Ownership Disclosure Form upon receipt of notification of intention to enter into a contract in the event we are the successful tenderer in this subject procurement proceeding.

s) We, the Tenderer, have duly completed, signed and stamped the following Forms as part of our Tender:

a) Tenderer's Eligibility; Confidential Business Questionnaire – to establish we are not in any conflict to interest;

b) Certificate of Independent Tender Determination – to declare that we completed the tender without colluding with other tenderers;

c) Self-Declaration of the Tenderer – to declare that we will, if awarded a contract, not engage in any form of fraud and corruption; and

d) Declaration and Commitment to the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal.

Further, we confirm that we have read and understood the full content and scope of fraud and corruption as informed in **"Appendix 1- Fraud and Corruption**" attached to the Form of Tender.

Name of the tenderer: *[*insert complete name of the tenderer*]

Name of the person duly authorized to sign the Tender on behalf of the tenderer: **[*insert complete name of person duly authorized to sign the Tender*]

Title of the person signing the Tender: [*insert complete title of the person signing the Tender*]

Signature of the person named above: [*insert signature of person whose name and capacity are shown above*] **Date signed** [*insert date of signing*] **day of** [*insert month*], [*insert year*]

*: In the case of the Tender submitted by a Joint Venture specify the name of the Joint Venture as tenderer.

**: Person signing the Tender shall have the power of attorney given by the tenderer. The power of attorney shall be attached with the Tender Schedules.

CERTIFICATE OF INDEPENDENT TENDER DETERMINATION

I, the undersigned, in submitting the accompanying Letter of Tender to the _____ *[Name of Procuring Entity]* for: _____ *[Name and number of tender]* in response to the request for tenders made by: _____ *[Name of Tenderer]* do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of _____ *[Name of Tenderer]* that:

1. I have read and I understand the contents of this Certificate;

2. I understand that the Tender will be disqualified if this Certificate is found not to be true and complete in every respect;

3. I am the authorized representative of the Tenderer with authority to sign this Certificate, and to submit the Tender on behalf of the Tenderer;

4. For the purposes of this Certificate and the Tender, I understand that the word "competitor" shall include any individual or organization, other than the Tenderer, whether or not affiliated with the Tenderer, who:

   a) has been requested to submit a Tender in response to this request for tenders;

   b) could potentially submit a tender in response to this request for tenders, based on their qualifications, abilities or experience;

5. The Tenderer discloses that [check one of the following, as applicable]:

   a) The Tenderer has arrived at the Tender independently from, and without consultation, communication, agreement or arrangement with, any competitor;

   b) the Tenderer has entered into consultations, communications, agreements or arrangements with one or more competitors regarding this request for tenders, and the Tenderer discloses, in the attached document(s), complete details thereof, including the names of the competitors and the nature of, and reasons for, such consultations, communications, agreements or arrangements;

6. In particular, without limiting the generality of paragraphs (5)(a) or (5)(b) above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:

   a) prices;

   b) methods, factors or formulas used to calculate prices;

   c) the intention or decision to submit, or not to submit, a tender; or

   d) the submission of a tender which does not meet the specifications of the request for Tenders; except as specifically disclosed pursuant to paragraph (5)(b) above;

7. In addition, there has been no consultation, communication, agreement or arrangement with any competitor regarding the quality, quantity, specifications or delivery particulars of the works or services to which this request for tenders relates, except as specifically authorized by the procuring authority or as specifically disclosed pursuant to paragraph (5)(b) above;

8. the terms of the Tender have not been, and will not be, knowingly disclosed by the Tenderer, directly or indirectly, to any competitor, prior to the date and time of the official tender opening, or of the awarding of the Contract, whichever comes first, unless otherwise required by law or as specifically disclosed pursuant to paragraph (5)(b) above.

Name

_____

Title

_____

Date

_____

[Name, title and signature of authorized agent of Tenderer and Date]

SELF-DECLARATION FORMS

FORM SD1

SELF DECLARATION THAT THE PERSON/TENDERER IS NOT DEBARRED IN THE MATTER OF THE PUBLIC PROCUREMENT AND ASSET DISPOSAL ACT 2015.

I ..... of Post Office Box.....being a resident of ..... in the Republic of.....do hereby make a statement as follows:-

1. THAT I am the Company Secretary/ Chief Executive/Managing Director/Principal Officer/Director of ..... *(insert name of the Company)* who is a Bidder in respect of **Tender No.** ..... for..... *(insert tender title/description)* for.....*(insert name of the Procuring entity)* and duly authorized and competent to make this statement.

2. THAT the aforesaid Bidder, its Directors and subcontractors have not been debarred from participating in procurement proceeding under Part IV of the Act.

3. THAT what is deponed to herein above is true to the best of my knowledge, information and belief.

……. ……..…. ……
(Title) (Signature) (Date)

Bidder Official Stamp

FORM SD2

SELF DECLARATION THAT THE PERSON/TENDERER WILL NOT ENGAGE IN ANY CORRUPT OR FRAUDULENT PRACTICE

I, ……..... of P.O. Box.....being a resident of..... in the Republic of ..... do hereby make a statement as follows:-

1. THAT I am the Chief Executive/Managing Director/Principal Officer/Director of.....……..…… *(insert name of the Company)* who is a Bidder in respect of **Tender No**. ..... for..... *(Insert tender title/description) f*or..... *(insert name of the Procuring entity)* and duly authorized and competent to make this statement.

2. THAT the aforesaid Bidder, its servants and/or agents /subcontractors will not engage in any corrupt or fraudulent practice and has not been requested to pay any inducement to any member of the Board, Management, Staff and/or employees and/or agents of ……..*(insert name of the Procuring entity)* which is the procuring entity.

3. THAT the aforesaid Bidder, its servants and/or agents /subcontractors have not offered any inducement to any member of the Board, Management, Staff and/or employees and/or agents of ……..*(name of the procuring entity).*

4. THAT the aforesaid Bidder will not engage/has not engaged in any corrosive practice with other bidders participating in the subject tender.

5. THAT what is deponed to herein above is true to the best of my knowledge information and belief.

…… ……...…
…… (Title) (Signature)
(Date)

Bidder's Official Stamp

DECLARATION AND COMMITMENT TO THE CODE OF ETHICS

I..... (Person) on behalf of (***Name of the Business/ Company/Firm***).....declare that I have read and fully understood the contents of the Public Procurement & Asset Disposal Act, 2015, Regulations and the Code of Ethics for persons participating in Public Procurement and Asset Disposal and my responsibilities under the Code.

I do hereby commit to abide by the provisions of the Code of Ethics for persons participating in Public Procurement and Asset Disposal.

Name of Authorized signatory.....

Sign…….....
.....

Position.....
.....

Office address…….

Telephone…….....…….

E-

mail…….....……

……

Name of the Firm/Company…….....……

Date…….....……
……

(Company Seal/ Rubber Stamp where applicable)

Witness

Name

…….....……

.

Sign…….....…
……

Date…….....
……

APPENDIX 1- FRAUD AND CORRUPTION

(Appendix 1 shall not be modified)

1. Purpose

1.1 The Government of Kenya's Anti-Corruption and Economic Crime laws and their sanction's policies and procedures, Public Procurement and Asset Disposal Act *(no. 33 of 2015)* and its Regulation, and any other Kenya's Acts or Regulations related to Fraud and Corruption, and similar offences, shall apply with respect to Public Procurement Processes and Contracts that are governed by the laws of Kenya.

2. Requirements

2.1 The Government of Kenya requires that all parties including Procuring Entities, Tenderers, (applicants/proposers), Consultants, Contractors and Suppliers; any Sub-contractors, Sub-consultants, Service providers or Suppliers; any Agents (whether declared or not); and any of their Personnel, involved and engaged in procurement under Kenya's Laws and Regulation, observe the highest standard of ethics during the procurement process, selection and contract execution of all contracts, and refrain from Fraud and Corruption and fully comply with Kenya's laws and Regulations as per paragraphs 1.1 above.

2.2 Kenya's public procurement and asset disposal act *(no. 33 of 2015)* under Section 66 describes rules to be followed and actions to be taken in dealing with Corrupt, Coercive, Obstructive, Collusive or Fraudulent practices, and Conflicts of Interest in procurement including consequences for offences committed. A few of the provisions noted below highlight Kenya's policy of no tolerance for such practices and behavior:

1) a person to whom this Act applies shall not be involved in any corrupt, coercive, obstructive, collusive or fraudulent practice; or conflicts of interest in any procurement or asset disposal proceeding;

2) A person referred to under subsection (1) who contravenes the provisions of that sub-section commits an offence;

3) Without limiting the generality of the subsection (1) and (2), the person shall be—
   a) disqualified from entering into a contract for a procurement or asset disposal proceeding; or
   b) if a contract has already been entered into with the person, the contract shall be voidable;

4) The voiding of a contract by the procuring entity under subsection (7) does not limit any legal remedy the procuring entity may have;

5) An employee or agent of the procuring entity or a member of the Board or committee of the procuring entity who has a conflict of interest with respect to a procurement:-
   a) shall not take part in the procurement proceedings;
   b) shall not, after a procurement contract has been entered into, take part in any decision relating to the procurement or contract; and
   c) shall not be a subcontractor for the bidder to whom was awarded contract, or a member of the group of bidders to whom the contract was awarded, but the subcontractor appointed shall meet all the requirements of this Act.

6) An employee, agent or member described in subsection (1) who refrains from doing anything prohibited under that subsection, but for that subsection, would have been within his or her duties shall disclose the

conflict of interest to the procuring entity;

7) If a person contravenes subsection (1) with respect to a conflict of interest described in subsection (5)(a) and the contract is awarded to the person or his relative or to another person in whom one of them had a direct or indirect pecuniary interest, the contract shall be terminated and all costs incurred by the public entity shall be made good by the awarding officer. Etc.

2.3 In compliance with Kenya's laws, regulations and policies mentioned above, the Procuring Entity:

a) Defines broadly, for the purposes of the above provisions, the terms set forth below as follows:

i) "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;

ii) "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;

iii) "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

iv) "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

v) "obstructive practice" is:

- deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede investigation by Public Procurement Regulatory Authority (PPRA) or any other appropriate authority appointed by Government of Kenya into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

- acts intended to materially impede the exercise of the PPRA's or the appointed authority's inspection and audit rights provided for under paragraph 2.3 e. below.

b) Defines more specifically, in accordance with the above procurement Act provisions set forth for fraudulent and collusive practices as follows:

"fraudulent practice" includes a misrepresentation of fact in order to influence a procurement or disposal process or the exercise of a contract to the detriment of the procuring entity or the tenderer or the contractor, and includes collusive practices amongst tenderers 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.

c) Rejects a proposal for award[1] of a contract if PPRA determines that the

firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;

d) Pursuant to the Kenya's above stated Acts and Regulations, may sanction or debar or recommend to appropriate authority (ies) for sanctioning and debarment of a firm or individual, as applicable under the Acts and Regulations;

e) Requires that a clause be included in Tender documents and Request for Proposal documents requiring (i) Tenderers (applicants/proposers), Consultants, Contractors, and Suppliers, and their Sub-contractors, Sub-consultants, Service providers, Suppliers, Agents personnel, permit the PPRA or any other appropriate authority appointed by Government of Kenya to inspect[2] all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the PPRA or any other appropriate authority appointed by Government of Kenya; and

f) Pursuant to Section 62 of the above Act, requires Applicants/Tenderers to submit along with their Applications/Tenders/Proposals a "Self-Declaration Form" as included in the procurement document declaring that they and all parties involved in the procurement process and contract execution have not engaged/will not engage in any corrupt or fraudulent practices.

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[1] *For the avoidance of doubt, a party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and tendering, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.*

[2] *Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Investigating Authority or persons appointed by the Procuring Entity to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.*

TENDERER INFORMATION FORM

[The tenderer shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: …… *[insert date (as day, month and year) of Tender submission*]

Tender Name and Identification:..... [*Insert identification*

Alternative No.: ..... *[insert identification No if this is a Tender for an alternative]* Page_____of_____pages

1. Tenderer's Name *[insert Tenderer's legal name]*
2. In case of JV, legal name of each member: *[insert legal name of each member in JV]*
3. Tenderer's actual or intended country of registration: *[insert actual or intended country of registration]*
4. Tenderer's year of registration: *[insert Tenderer's year of registration]*
5. Tenderer's Address in country of registration: *[insert Tenderer's legal address in country of registration]*
6. Tenderer's Authorized Representative Information Name: *[insert Authorized Representative's name]* Address: *[insert Authorized Representative's Address]* Telephone/Fax numbers: *[insert Authorized Representative's telephone/fax numbers]* Email Address: *[insert Authorized Representative's email address]*
7. Attached are copies of original documents of *[check the box(es) of the attached original documents]* ☐ For Kenyan Tenderers a current tax clearance certificate or tax exemption certificate issued by the Kenya Revenue Authority in accordance with ITT 3.14. ☐Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITT 3.4. ☐ In case of JV, letter of intent to form JV or JV agreement, in accordance with ITT 3.1. ☐ In case of state-owned enterprise or institution, in accordance with ITT 4.6 documents establishing: (i) Legal and financial autonomy (ii) Operation under commercial law (iii) Establishing that the tenderer is not under the supervision of the Procuring Entity 2. Included are the organizational chart and a list of Board of Directors

TENDERER'S ELIGIBILITY- CONFIDENTIAL BUSINESS QUESTIONNAIRE FORM

a) Instruction to Tenderer

Tender is instructed to complete the particulars required in this Form, *one form for each entity if Tender is a JV.* Tenderer is further reminded that it is an offence to give false information on this Form.

A. Tenderer's details

	ITEM	DESCRIPTION
1	Name of the Procuring Entity	
2	Name of the Tenderer	
3	Full Address and Contact Details of the Tenderer.	1. Country 2. City 3. Location 4. Building 5. Floor 6. Postal Address 7. Name and email of contact person.
4	Reference Number of the Tender	
5	Date and Time of Tender Opening	
6	Current Trade License No and Expiring date	
7	Maximum value of business which the Tenderer handles.	
8		

General and Specific Details

b) Sole Proprietor, provide the following details.

Name in full_____

Age_____Nationality_____

Country of Origin_____ Citizenship _____

c) Partnership, provide the following details.

	Names of Partners	Nationality	Citizenship	% Shares owned
1				
2				
3				

(d) Registered Company, provide the following details.

i) Private or public Company _____

ii) State the nominal and issued capital of the Company-

Nominal Kenya Shillings (Equivalent) ……
Issued Kenya Shillings (Equivalent) ……

iii) Give details of Directors as follows.

	Names of Director	**Nationality**	**Citizenship**	**% Shares owned**
1				
2				
3				

(e) DISCLOSURE OF INTEREST- Interest of the Firm in the Procuring Entity.

(i) Are there any person/persons in …… (*Name of Procuring Entity)* who has an interest or relationship in this firm? Yes/No……

If yes, provide details as follows.

	Names of Person	Designation in the Procuring Entity	Interest or Relationship with Tenderer
1			
2			
3			

(ii) Conflict of interest disclosure

	Type of Conflict	**Disclosure YES OR NO**	**If YES provide details of the relationship with Tenderer**
1	Tenderer is directly or indirectly controlled by or is under common control with another tenderer.		
2	Tenderer receives or has received any direct or indirect subsidy from another tenderer.		
3	Tenderer has the same legal representative as another tenderer		
4	Tender has a relationship with another tenderer, directly or through common third parties that puts it in a position to influence the		

	Type of Conflict	Disclosure YES OR NO	If YES provide details of the relationship with Tenderer
	tender of another tenderer, or influence the decisions of the Procuring Entity regarding this tendering process.		
5	Any of the Tenderer's affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the tender.		
6	Tenderer would be providing goods, works, non-consulting services or consulting services during implementation of the contract specified in this Tender Document.		
7	Tenderer has a close business or family relationship with a professional staff of the Procuring Entity who are directly or indirectly involved in the preparation of the Tender document or specifications of the Contract, and/or the Tender evaluation process of such contract.		
8	Tenderer has a close business or family relationship with a professional staff of the Procuring Entity who would be involved in the implementation or supervision of the Contract.		
9	Has the conflict stemming from such relationship stated in item 7 and 8 above been resolved in a manner acceptable to the Procuring Entity throughout the tendering process and execution of the Contract?		

(f) Certification

On behalf of the Tenderer, I certify that the information given above is correct.

Full Name_____

Title or Designation_____

(Signature) *(Date)*

TENDERER'S JV MEMBERS INFORMATION FORM

[The tenderer shall fill in this Form in accordance with the instructions indicated below. The following table shall be filled in for the tenderer and for each member of a Joint Venture]].

Date:.....*[insert date (as day, month and year) of Tender submission].*

Tender Name and Identification:.....*[insert identification* Alternative No.:.....*[insert identification No if this is a Tender for an alternative].*

Page_____of_____pages

1. Tenderer's Name: *[insert Tenderer's legal name]*
2. Tenderer's JV Member's name: *[insert JV's Member legal name]*
3. Tenderer's JV Member's country of registration: *[insert JV's Member country of registration]*
4. Tenderer's JV Member's year of registration: *[insert JV's Member year of registration]*
5. Tenderer's JV Member's legal address in country of registration: *[insert JV's Member legal address in country of registration]*
6. Tenderer's JV Member's authorized representative information Name: *[insert name of JV's Member authorized representative]* Address: *[insert address of JV's Member authorized representative]* Telephone/Fax numbers: *[insert telephone/fax numbers of JV's Member authorized representative]* Email Address: *[insert email address of JV's Member authorized representative]*
7. Attached are copies of original documents of *[check the box(es) of the attached original documents]* ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITT 4.4. ☐ In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and that they are not under the supervision of the Procuring Entity, in accordance with ITT 4.6. 8. Included are the organizational chart and a list of Board of Directors

PRICE SCHEDULE FORMS

[The tenderer shall fill in these Price Schedule Forms in accordance with the instructions indicated. The list of line items in column 1 of the ***Price Schedules shall*** *coincide with the List of Goods and Related Services specified by the Procuring Entity in the Schedule of Requirements.*

PRICE SCHEDULE: GOODS MANUFACTURED OUTSIDE KENYA, TO BE IMPORTED

				(Group C Tenders, goods to be imported) Currencies in accordance with ITT 15			Date: _____ ITT No: _____ Alternative No: _____ Page N° _____ of _____	
1	2	3	4	5	6	7	8	9
Line Item N°	Description of Goods	Country of Origin	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price CIP *[insert place of destination]* in accordance with ITT 14.8(b)(i)	CIP Price per line item (Col. 5x6)	Price per line item for inland transportation and other services required in Kenya to convey the Goods to their final destination specified in TDS	Total Price per Line item (Col. 7+8)
[insert number of the item]	*[insert name of good]*	*[insert country of origin of the Good]*	*[insert quoted Delivery Date]*	*[insert number of units to be supplied and name of the physical unit]*	*[insert unit price CIP per unit]*	*[insert total CIP price per line item]*	*[insert the corresponding price per line item]*	*[insert total price of the line item]*
							Total Price	

Name of tenderer *[insert complete name of tenderer]* Signature of tenderer *[signature of person signing the Tender]* Date *[Insert Date]*

Note:

1. As guided under the pricing schedules, tenderers are expected to quote for the physical units as per the package indicated and the sum total of the unit prices for all the categories quoted for, is the amount to be transferred to the Form of Tender.

2. All supply requirements during the expected framework agreement period will be processed on *a **"call off basis" or mini competition within the provisions of the PPDA 2015 on "as and when required (AWR)" basis.***

PRICE SCHEDULE: GOODS MANUFACTURED OUTSIDE KENYA, ALREADY IMPORTED

(Group C Tenders, Goods already imported)
Currencies in accordance with ITT 15

Date: _____
ITT No: _____
Alternative No: _____
Page N° _____ of _____

1	2	3	4	5	6	7	8	9	10	11	12
Line Item N°	Description of Goods	Country of Origin	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price including Custom Duties and Import Taxes paid, in accordance with ITT 14.8(c)(i)	Custom Duties and Import Taxes paid per unit in accordance with ITT 14.8(c)(ii), [to be supported by documents]	Unit Price net of custom duties and import taxes, in accordance with ITT 14.8 (c) (iii) (Col. 6 minus Col.7)	Price per line item net of Custom Duties and Import Taxes paid, in accordance with ITT 14.8(c)(i) (Col. 5×8)	Price per line item for inland transportation and other services required in Kenya to convey the goods to their final destination, as specified in TDS in accordance with ITT 14.8 (c)(v)	Sales and other taxes paid or payable per item if Contract is awarded (in accordance with ITT 14.8(c)(iv)	Total Price per line item (Col. 9+10)
[insert number of the item]	*[insert name of Goods]*	*[insert country of origin of the Good]*	*[insert quoted Delivery Date]*	*[insert number of units to be supplied and name of the physical unit]*	*[insert unit price per unit]*	*[insert custom duties and taxes paid per unit]*	*[insert unit price net of custom duties and import taxes]*	*[insert price per line item net of custom duties and import taxes]*	*[insert price per line item for inland transportation and other services required in* Kenya*]*	*[insert sales and other taxes payable per item if Contract is awarded]*	*[insert total price per line item]*
										Total Tender Price	

Name of tenderer [*insert complete name of tenderer*] Signature of tenderer [*signature of person signing the Tender*] Date [*insert date*]

** [For previously imported Goods, the quoted price shall be distinguishable from the original import value of these Goods declared to customs and shall include any rebate or mark-up of the local agent or representative and all local costs except import duties and taxes, which have been and/or have to be paid by the Procuring Entity. For clarity, the tenderers are asked to quote the price including import duties, and additionally to provide the import duties and the price net of import duties which is the difference of those values.]*

Note:

1. As guided under the pricing schedules, tenderers are expected to quote for the physical units as per the package indicated and the sum total of the unit prices for all the categories quoted for, is the amount to be transferred to the Form of Tender.

2. All supply requirements during the expected framework agreement period ***will be processed*** *on a* ***"call off basis" or mini competition within the provisions of the PPDA 2015 on "as and when required (AWR)" basis.***

PRICE SCHEDULE: GOODS MANUFACTURED IN KENYA

Kenya _____	(Group A and B Tenders) Currencies in accordance with ITT 15	Date: _____ ITT No: _____ Alternative No: _____ Page N° _____ of _____

1	2	3	4	5	6	7	8	9	10
Line Item N°	Description of Goods	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price EXW	Total EXW price per line item (Col. 4×5)	Price per line item for inland transportation and other services required in Kenya to convey the Goods to their final destination	Cost of local labor, raw materials and components from with origin in Kenya % of Col. 5	Sales and other taxes payable per line item if Contract is awarded (in accordance with ITT 14.8(a)(ii)	Total Price per line item (Col. 6+7)
[insert number of the item]	*[insert name of Good]*	*[insert quoted Delivery Date]*	*[insert number of units to be supplied and name of the physical unit]*	*[insert EXW unit price]*	*[insert total EXW price per line item]*	*[insert the corresponding price per line item]*	*[Insert cost of local labor, raw material and components from within the Purchase's country as a % of the EXW price per line item]*	*[insert sales and other taxes payable per line if Contract is awarded]*	*[insert total price per item]*
								Total Price	

Name of tenderer [*insert complete name of tenderer*] Signature of tenderer [*signature of person signing the Tender*] Date [*insert date*]

Note:

1. As guided under the pricing schedules, tenderers are expected to quote for the physical units as per the package indicated and the sum total of the unit prices for all the categories quoted for, is the amount to be transferred to the Form of Tender.

2. All supply requirements during the expected framework agreement period will be processed on *a* ***"call off basis" or mini competition within the provisions of the PPDA 2015 on "as and when required (AWR)" basis.***

Price and Completion Schedule - Related Services

Currencies in accordance with ITT 15					Date IITT Alternative Page N°	No: No: of _
1	2	3	4	5	6	7
Service N°	Description of Services (excludes inland transportation and other services required in Kenya to convey the goods to their final destination)	Country of Origin	Delivery Date at place of Final destination	Quantity and physical unit	Unit price	Total Price per Service (Col. 5*6 or estimate)
[insert number of the Service]	*[insert name of Services]*	*[insert country of origin of the Services]*	*[insert delivery date at place of final destination per Service]*	*[insert number of units to be supplied and name of the physical unit]*	*[insert unit price per item]*	*[insert total price per item]*
				Total Tender Price		

Name of tenderer [*insert complete name of tenderer*] Signature of tenderer [*signature of person signing the Tender*] Date [*insert date*

Note:

1. As guided under the pricing schedules, tenderers are expected to quote for the unit of service as indicated and the sum total of the unit prices of all the categories quoted for, is the amount to be transferred to the Form of Tender.

2. All supply requirements during the expected framework agreement period *Will be processed on a* ***"call off basis" or mini competition within the provisions of the PPDA 2015 on "as and when required (AWR)" basis.***

FORM OF TENDER SECURITY-

[Option 1–Demand Bank Guarantee]

Beneficiary:_____

Request for Tenders No:

_____

Date:_____

TENDER GUARANTEE No.:_____

Guarantor: _____

1. We have been informed that_____(here in after called "the Applicant") has submitted or will submit to the Beneficiary its Tender (here in after called" the Tender") for the execution of_____ under Request for Tenders No. ("The ITT").

2. Furthermore, we understand that, according to the Beneficiary's conditions, Tenders must be supported by a Tender guarantee.

3. At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of_____(__) upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:

(a) has withdrawn its Tender during the period of Tender validity set forth in the Applicant's Letter of Tender ("the Tender Validity Period"), or any extension thereto provided by the Applicant; or

b) having been notified of the acceptance of its Tender by the Beneficiary during the Tender Validity Period or any extension there to be provided by the Applicant, (i) has failed to execute the contract agreement, or (ii) has failed to furnish the Performance.

4. This guarantee will expire: (a) if the Applicant is the successful Tenderer, upon our receipt of copies of the contract agreement signed by the Applicant and the Performance Security and, or (b) if the Applicant is not the successful Tenderer, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Tendering process; or (ii) thirty days after the end of the Tender Validity Period.

5. Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

_____

[signature(s)]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.

FORMAT OF TENDER SECURITY

[Option 2–Insurance Guarantee]

TENDER GUARANTEE No.: _____

1. Whereas …… [*Name of the tenderer]* (hereinafter called "the tenderer") has submitted its tender dated …… [*Date of submission of tender]* for the …… *[Name and/or description of the tender]* (hereinafter called "the Tender") for the execution of____under Request for Tenders No.___ _("the ITT").
2. KNOW ALL PEOPLE by these presents that WE …… of …… [**Name of Insurance Company**] having our registered office at …… (hereinafter called "the Guarantor"), are bound unto …….. [*Name of Procuring Entity*] (hereinafter called "the Procuring Entity") in the sum of …… (Currency and guarantee amount) for which payment well and truly to be made to the said Procuring Entity, the Guarantor binds itself, its successors and assigns, jointly and severally, firmly by these presents.

   Sealed with the Common Seal of the said Guarantor this ___day of _____ 20 __.

3. NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Applicant:

   a) has withdrawn its Tender during the period of Tender validity set forth in the Principal's Letter of Tender ("the Tender Validity Period"), or any extension thereto provided by the Principal; or

   b) having been notified of the acceptance of its Tender by the Procuring Entity during the Tender Validity Period or any extension thereto provided by the Principal; (i) failed to execute the Contract agreement; or (ii) has failed to furnish the Performance Security, in accordance with the Instructions to tenderers ("ITT") of the Procuring Entity's Tendering document.

   then the guarantee undertakes to immediately pay to the Procuring Entity up to the above amount upon receipt of the Procuring Entity's first written demand, without the Procuring Entity having to substantiate its demand, provided that in its demand the Procuring Entity shall state that the demand arises from the occurrence of any of the above events, specifying which event(s) has occurred.

4. This guarantee will expire: (a) if the Applicant is the successful Tenderer, upon our receipt of copies of the contract agreement signed by the Applicant and the Performance Security and, or (b) if the Applicant is not the successful Tenderer, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Tendering process; or (ii)twenty-eight days after the end of the Tender Validity Period.

5. Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

_____ _____

[Date] *[Signature of the Guarantor]*

_____ _____

[Witness] *[Seal]*

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.

FORM OF TENDER-SECURING DECLARATION

[The Bidder shall complete this Form in accordance with the instructions indicated]

Date:.....*[insert date (as day, month and year) of Tender Submission]*

Tender No.:..... *[Insert number of tendering process]*

To:.....*[insert complete name of*

Purchaser] I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Tender-Securing Declaration.

2. I/We accept that I/we will automatically be suspended from being eligible for tendering in any contract with the Purchaser for the period of time of .....*[insert number of months or years]* starting on .....*[insert date]*, if we are in breach of our obligation(s) under the bid conditions, because we – (a) have withdrawn our tender during the period of tender validity specified by us in the Tendering Data Sheet; or (b) having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity, (i) fail or refuse to execute the Contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the instructions to tenders.

3. I/We understand that this Tender Securing Declaration shall expire if we are not the successful Tenderer(s), upon the earlier of:

   a) our receipt of a copy of your notification of the name of the successful Tenderer; or

   b) thirty days after the expiration of our Tender.

4. I/We understand that if I am/we are/in a Joint Venture, the Tender Securing Declaration must be in the name of the Joint Venture that submits the bid, and the Joint Venture has not been legally constituted at the time of bidding, the Tender Securing Declaration shall be in the names of all future partners as named in the letter of intent.

Signed:……..…….....
.....

Capacity / title (director or partner or sole proprietor, etc.) …….……
….....

Name:
…….....
..

Duly authorized to sign the bid for and on behalf of: .....*[insert complete*

name of Tenderer]. Dated on ..... day of.....

[Insert date of signing].

Seal or stamp.

MANUFACTURER'S AUTHORIZATION FORM

[The tenderer shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The tenderer shall include it in its Tender, if so indicated in the ***TDS.****]*

Date:.....*[insert date (as day, month and year) of Tender submission]*

ITT No.:.....*[insert number of ITT*

process] Alternative No.:.....*[insert identification No if this is a*

Tender for an alternative]

To: ..... *[Insert complete name of*

Procuring Entity] WHEREAS

We..... *[insert complete name of Manufacturer],* who are official manufacturers of.....*[insert type of goods manufactured],* having factories at [insert full address of Manufacturer's factories], do hereby authorize *[insert complete name of tenderer]* to submit a Tender the purpose of which is to provide the following Goods, manufactured by us..... *[insert name and or brief description of the Goods],* and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed:..... *[Insert signature(s) of authorized representative(s) of the Manufacturer]*

Name:.....*[Insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title:..... *[Insert title]*

Dated on_____day of_____,_____*[insert date of signing]*

PART 2: SUPPLY REQUIREMENTS

SECTION V - SCHEDULE OF REQUIREMENTS

Notes for Preparing the Schedule of Requirements

The Schedule of Requirements shall be included in the Tendering document by the Procuring Entity, and shall cover, at a minimum, a description of the goods and services to be supplied and the delivery schedule.

The objective of the Schedule of Requirements is to provide sufficient information to enable tenderers to prepare their Tenders efficiently and accurately, in particular, the Price Schedule, for which a form is provided in Section IV. In addition, the Schedule of Requirements, together with the Price Schedule, should serve as a basis in the event of quantity variation at the time of award of contract pursuant to ITT 42.1.

The date or period for delivery should be carefully specified, taking into account (a) the implications of delivery terms stipulated in the Instructions to tenderers pursuant to the *Incoterms* rules that "delivery" takes place when goods are delivered to the final place of delivery, and (b) the date prescribed herein from which the Procuring Entity's delivery obligations start (i.e., notice of award, contract signature, opening or confirmation of the letter of credit).

LIST OF GOODS AND DELIVERY SCHEDULE

Line Item N°	Description of Goods	Quantity	Physical unit	Final Destination as specified in TDS	Delivery (as per Incoterms) Date		
					Earliest Delivery Date	Latest Delivery Date	Tenderer's offered Delivery date [*to be provided by the tenderer*]
	CATEGORY A MEDICAL AND SURGICAL EQUIPMENT	As and when required (AWR)			Contract Date	Six (6) Months	
1.	Adjustable crawler	AWR	No				
2.	Aluminum Trolley	AWR	No				
3.	Ambu Bag Adult	AWR	No				
4.	Ambu Bag Pead	AWR	No				
5.	Anaerobic Jar	AWR	No				
6.	Analytic balance	AWR	No				
7.	Anesthetic machine with ventilators	AWR	No				
8.	Apex locator	AWR	No				

9.	Autoclave Laboratory	AWR	No				
10.	Autoclave Large 20-25 Litres	AWR	No				
11.	Autoclave Small 28 litres	AWR	No				
12.	Autoclave large, 120 Litres	AWR	No				
13.	Autoclave table top, 85 litres	AWR	No				
14.	Autoclave, 100 litres with vacuum,	AWR	No				
15.	Autoclave, 80 litres with vacuum,	AWR	No				
16.	Autoclave-Table top	AWR	No				
17.	Automatic HbA1C analyzer	AWR	No				
18.	Automatic Urine Analyzer	AWR	No				
19.	Baby Cot	AWR	No				
20.	Baby Walker	AWR	No				
21.	Bacteriology Incubator	AWR	No				
22.	Basic Laparotomy Set	AWR	Set				
23.	Bedside Cabinet Trolley	AWR	No				

24.	Bed screen	AWR	No				
25.	Bedside Monitor	AWR	No				
26.	Bedside lockers	AWR	No				
27.	Biosafety Cabinet Class II	AWR	No				
28.	Blood Gas Analyzer	AWR	No				
29.	Blood pressure machine Digital	AWR	No				
30.	Blood Sugar Machine/Glucometer	AWR	No				
31.	Blood Warmer	AWR	No				
32.	Body dressing table	AWR	No				
33.	Caesarian Section Set	AWR	Set				
34.	Caliper	AWR	No				
35.	Cardiotocography Machine	AWR	No				
36.	Carrying Carts and Shelves	AWR	No				
37.	Central Monitoring Unit	AWR	No				
38.	Centrifuge	AWR	No				

39.	Cervical Traction Kit	AWR	Set				
40.	Chemistry Analyzer	AWR	No				
41.	Chest Expander	AWR	No				
42.	Cholesterol Analyzer	AWR	No				
43.	Clinical Binocular Microscope	AWR	No				
44.	Clinical Digital Thermometer	AWR	No				
45.	Commode Chair	AWR	No				
46.	Community Health Promoter's (CHP) kit	AWR	Kit				
47.	Crawler Height Adjustable	AWR	No				
48.	CRRT Machines/CPFA	AWR	No				
49.	Crutches	AWR	No				
50.	Cut down adult set	AWR	Set				
51.	Dartboard & Arrow	AWR	No				
52.	Defibrillator	AWR	No				
53.	Delivery Light	AWR	No				

54.	Delivery Set	AWR	Set				
55.	Oxygen delivery set, regulator, flow meter humidifier	AWR	No				
56.	Delivery bed with mattress	AWR	No				
57.	Dental chair unit	AWR	No				
58.	Dental scaler	AWR	No				
59.	Diagnostic set	AWR	Set				
60.	Diagnostic set- Wall Mounted	AWR	Set				
61.	Digital intraoral periapical X-ray	AWR	No				
62.	Dental Diagnostic Kit	AWR	Kit				
63.	Dental Extraction kit	AWR	Kit				
64.	Dental Instrument Set	AWR	Set				
65.	Deionizer	AWR	No				
66.	Dental Restorative kit	AWR	Kit				
67.	Digital Mobile X Ray Unit	AWR	No				
68.	Dissembling and Sorting Table	AWR	No				

69.	Dressing Trolley	AWR	No				
70.	Drip stand	AWR	No				
71.	Dryer	AWR	No				
72.	Dumb bells (1-5 Kg), 1 pair each	AWR	Set				
73.	ECG Machine, 5 leads	AWR	No				
74.	Electric Muscle Stimulator	AWR	No				
75.	Electric saw	AWR	No				
76.	Electrolyte Analyzer	AWR	No				
77.	Electrosurgical unit	AWR	No				
78.	Embalming Machine	AWR	No				
79.	Emergency examination Light	AWR	No				
80.	Emergency Trolley	AWR	No				
81.	Endodontic Motor	AWR	No				
82.	Endodontic Set	AWR	No				
83.	Endo Motor	AWR	No				

84.	Endoscopic Laryngoscope	AWR	No				
85.	Examination couch with stepper ladder	AWR	No				
86.	Examination light- Mobile	AWR	No				
87.	Exercise Mats	AWR	No				
88.	Exercise Mirror	AWR	No				
89.	Electrocautery unit/laser	AWR	No				
90.	Feeding Pump	AWR	No				
91.	Fetal Doppler	AWR	No				
92.	Fluid Warmer	AWR	No				
93.	Food trolley	AWR	No				
94.	Foreign Body (Ear/Nose) Set	AWR	Set				
95.	Freezer	AWR	No				
96.	Gas cooking system	AWR	No				
97.	Gas Cylinder Trolley	AWR	No				
98.	General Hysterectomy Set	AWR	Set				

99.	General Purpose Trolley	AWR	No				
100.	Goniometer	AWR	No				
101.	Gynecological couch	AWR	No				
102.	Hand exerciser	AWR	No				
103.	HB Meter	AWR	No				
104.	Heavy duty massager	AWR	No				
105.	Heavy duty handled poly scooter board (Square) 406 x 406cm)	AWR	No				
106.	Hematology Analyzer	AWR	No				
107.	Hot air Oven	AWR	No				
108.	Hot plate magnetic stirrer	AWR	No				
109.	Hydrotherapy	AWR	No				
110.	Incision & Excisional Biopsy set	AWR	Set				
111.	Incision Tray	AWR	Set				
112.	Infant Incubator	AWR	No				
113.	Infant Radiant Warmer	AWR	No				

114.	Resuscitaire	AWR	No				
115.	Digital Infant weighing scale	AWR	No				
116.	Infra-red lamp	AWR	No				
117.	Infusion pump	AWR	No				
118.	Instrument cabinet	AWR	No				
119.	Instrument drying Cabinet	AWR	No				
120.	Instrument Trolley	AWR	No				
121.	Intraoral camera	AWR	No				
122.	Ironer/Roller Tape	AWR	No				
123.	Kitchen Cold room	AWR	No				
124.	Laparoscopic Tower	AWR	Set				
125.	Laryngoscope with blade, adult	AWR	Set				
126.	Lead Apron	AWR	No				
127.	Light cure unit	AWR	No				
128.	Linen Trolley	AWR	No				
129.	Lumbar Traction	AWR	No				

130.	Medical gas system- Oxygen	AWR	Plant				
131.	Medical gas system-vacuum	AWR	Plant				
132.	Medical waste Microwave & Shredder Equipment	AWR	No				
133.	Medicine trolley	AWR	No				
134.	Micromotor with contra angle and straight hand pieces	AWR	No				
135.	Microwave Diathermy	AWR	No				
136.	Microwave Heater	AWR	No				
137.	MUAC tape	AWR	No				
138.	Nebulizer	AWR	No				
139.	Neonatal CPAP Machine	AWR	No				
140.	Neonatal Ventilator	AWR	No				
141.	Operating Theatre Light	AWR	No				
142.	Operating Theatre Table	AWR	No				
143.	Oral surgery kit	AWR	No				
144.	Oxygen Concentrator	AWR	No				

145.	Oxygen delivery set, regulator, flow meter humidifier (adult)	AWR	Set				
146.	Oxygen Pressure Regulator	AWR	Set				
147.	Pack heater	AWR	No				
148.	Parallel Bar	AWR	No				
149.	Patient Beds 3 Function	AWR	No				
150.	Patient chair	AWR	No				
151.	Patient Monitor, 5 Parameters	AWR	No				
152.	Patient Monitor, Handheld	AWR	No				
153.	Patient Monitor, Portable	AWR	No				
154.	Patient Stretcher/side rails	AWR	No				
155.	Phototherapy Unit	AWR	No				
156.	Pneumatic Pump	AWR	No				
157.	Portable cardiac monitor	AWR	No				
158.	Portable Examination Light	AWR	No				
159.	Portable Ultrasound Unit	AWR	No				

160.	Portable Mirror	AWR	No				
161.	Polyethylene Head rest	AWR	No				
162.	Procedure trolley	AWR	No				
163.	Pulse oximeter	AWR	No				
164.	Quadriceps Exerciser	AWR	No				
165.	Refrigerator -Blood	AWR	No				
166.	Refrigerator -Drug/pharmaceutical	AWR	No				
167.	Refrigerator -Food	AWR	No				
168.	Refrigerators - Laboratory/Vaccines 2-8 Deg C	AWR	No				
169.	Resuscitation tray	AWR	No				
170.	Resuscitation trolley	AWR	No				
171.	Ripple Mattresses	AWR	No				
172.	Rowing Machine	AWR	No				
173.	Shaker Electric	AWR	No				
174.	Shortwave diathermy	AWR	No				

175.	Shoulder Wheel	AWR	No				
176.	Sims Speculum Set	AWR	Set				
177.	Sitting Aid	AWR	No				
178.	Static Bicycle, Adult	AWR	No				
179.	Stainless Scrub Table	AWR	No				
180.	Sterilizing Drums (Assorted)	AWR	Set				
181.	Stethoscope, Adult	AWR	No				
182.	Stethoscope, Pediatric	AWR	No				
183.	Stitch Removing Set	AWR	Set				
184.	Surgical Set- Minor Surgery	AWR	Set				
185.	Surgical Set- General Surgery	AWR	Set				
186.	Suction Machine- electrical with bottle	AWR	Not				
187.	Suturing set	AWR	Set				
188.	Spot Light	AWR	No				
189.	Speculum Set	AWR	Set				

190.	Spinal Needle	AWR	No				
191.	Syringe pump	AWR	No				
192.	Temperature Management Units (Bair Hugger or equivalent)	AWR	No				
193.	Temporary Pacemaker	AWR	No				
194.	Tens Unit	AWR	No				
195.	Tool kits (Biomedical)	AWR	Set				
196.	Transport Monitor	AWR	No				
197.	Transport Resuscitation Kit	AWR	No				
198.	Transport Ventilator	AWR	No				
199.	Tricycle	AWR	No				
200.	Ultra Sound Combination Therapy	AWR	No				
201.	Ultrasonic Washer	AWR	No				
202.	Ultrasound Scanner (Routine Examination) - Mobile	AWR	No				
203.	Vaccine carrier	AWR	No				
204.	Vaccine refrigerator	AWR	No				

205.	Ventilator, Adult/Pediatric	AWR	No				
206.	Vital signs Monitor	AWR	No				
207.	Washer Extractor	AWR	No				
208.	Water Bath	AWR	No				
209.	Wax bath	AWR	No				
210.	Weighing scale with height meter, Adult	AWR	No				
211.	Weighing scale with height meter, Pead	AWR	No				
212.	Wheel chair	AWR	No				
213.	X- ray Dry Image Printer	AWR	No				
214.	X-Ray Film Illuminator	AWR	No				
215.	X-ray machine- Mobile Digital	AWR	No				
216.	X-ray viewer- LED	AWR	No				
217.	Handheld electrostatic mobile sprayer	AWR	No				
218.	Mobile misting system	AWR	No				
219.	Handheld ultrasound transducer	AWR	No				

220.	Theatreand ICU Decontamination Solution (5 litre container)	AWR	container				
221.	Wards and general areas decontamination solution (2 Litre bottle)	AWR	Bottle				
222.	Portable ultrasound kit	AWR	Kit				
223.	Ultrasound gel (250 ml bottle)	AWR	Bottle				
224.	Catheter Securement device	AWR	No				
225.	AI – enabled handheld point of care ultrasound machine	AWR	No				

LIST OF GOODS AND DELIVERY SCHEDULE

Line Item N°	Description of Goods	Quantity	Physical unit	Final Destination as specified in TDS	Delivery (as per Incoterms) Date		
					Earliest Delivery Date	Latest Delivery Date	Tenderer's offered Delivery date [*to be provided by the tenderer*]
	CATEGORY B CERVICAL SPINE SURGERY IMPLANTS AND CAGES	As and when required (AWR)			Contract Date	30 days	
1.	Anterior Cervical Plates, 23mm, TA	AWR	No				
2.	Anterior Cervical Plates, 25mm, TA	AWR	No				
3.	Anterior Cervical Plates, 27mm, TA	AWR	No				
4.	Anterior Cervical Plates, 29mm, TA	AWR	No				
5.	Anterior Cervical Plates, 31mm, TA	AWR	No				
6.	Anterior Cervical Plates, 33mm, TA	AWR	No				
7.	Anterior Cervical Plates, 35mm, TA	AWR	No				
8.	Anterior Cervical Plates, 37mm, TA	AWR	No				
9.	Anterior Cervical Plates, 35mm, TA	AWR	No				

10.	Anterior Cervical Plates, 37mm, TA	AWR	No				
11.	Anterior Cervical Plates, 39mm, TA	AWR	No				
12.	Anterior Cervical Plates, 41mm, TA	AWR	No				
13.	Anterior Cervical Plates, 43mm, TA	AWR	No				
14.	Anterior Cervical Plates, 45mm, TA	AWR	No				
15.	Anterior Cervical Plates, 47mm, TA	AWR	No				
16.	Anterior Cervical Plates, 49mm, TA	AWR	No				
17.	Anterior Cervical Plates, 51mm, TA	AWR	No				
18.	Anterior Cervical Plates, 53mm, TA	AWR	No				
19.	Anterior Cervical Plates, 55mm, TA	AWR	No				
20.	Anterior Cervical Plates, 58mm, TA	AWR	No				
21.	Anterior Cervical Plates, 61mm, TA	AWR	No				
22.	Anterior Cervical Plates, 64mm, TA	AWR	No				
23.	Anterior Cervical Plates, 67mm, TA	AWR	No				
24.	Anterior Cervical Plates, 70mm, TA	AWR	No				

25.	Anterior Cervical Plates, 73mm, TA	AWR	No				
26.	Anterior Cervical Plates, 76mm, TA	AWR	No				
27.	Fixed Screws, Φ4.0x12mm, TA	AWR	No				
28.	Fixed Screws, Φ4.0x14mm, TA	AWR	No				
29.	Fixed Screws, Φ4.0x16mm, TA	AWR	No				
30.	Fixed Screws, Φ4.5×12mm, TA	AWR	No				
31.	Fixed Screws, Φ4.5×14mm, TA	AWR	No				
32.	Fixed Screws, Φ4.5×16mm, TA	AWR	No				
33.	Variable Screws, Self-drilling, Φ4.0×13mm, TA set of 12pcs	AWR	Set				
34.	Variable Screws, Self-drilling, Φ4.0×15mm, TA of 12pcs	AWR	Set				
35.	Variable Screws, Self-drilling, Φ4.0×17mm, TA set of 12pcs	AWR	Set				
36.	Variable Screws, Self-drilling, Φ4.5×13mm, TA set of 12pcs	AWR	Set				
37.	Variable Screws, Self-drilling, Φ4.5×15mm, TA set of 12pcs	AWR	Set				
38.	Variable Screws, Self-drilling, Φ4.5×17mm, TA set of 12pcs	AWR	Set				
39.	Variable Screws, Self-tapping, Φ4.0×13mm, TA set of 12pcs	AWR	Set				

40.	Variable Screws, Self-tapping, Φ4.0×15mm, TA set of 12pcs	AWR	Set				
41.	Variable Screws, Self-tapping, Φ4.0×17mm, TA set of 12pcs	AWR	Set				
42.	Variable Screws, Self-tapping, Φ4.5×13mm, TA set of 12pcs	AWR	Set				
43.	Variable Screws, Self-tapping, Φ4.5×15mm, TA set of 12pcs	AWR	Set				
44.	Variable Screws, Self-tapping, Φ4.5×17mm, TA set of 12pcs	AWR	Set				
45.	Cormate Sterile Cervical Cage 12/5/14/4°	AWR	No				
46.	Cormate Sterile Cervical Cage 12/6/14/4°	AWR	No				
47.	Cormate Sterile Cervical Cage 12/7/14/4°	AWR	No				
48.	Cormate Sterile Cervical Cage 12/8/14/4°	AWR	No				
49.	Cormate Sterile Cervical Cage 14/5/15/4°	AWR	No				
50.	Cormate Sterile Cervical Cage 14/6/15/4°	AWR	No				
51.	Cormate Sterile Cervical Cage 14/7/15/4°	AWR	No				
52.	Cormate Sterile Cervical Cage 14/8/15/4°	AWR	No				
53.	Cormate Sterile Cervical Cage 14/5/16/4°	AWR	No				
54.	Cormate Sterile Cervical Cage 14/6/16/4°	AWR	No				

55.	Cormate Sterile Cervical Cage 14/7/16/4°	AWR	No				
56.	Cormate Sterile Cervical Cage 14/8/16/4°	AWR	No				
57.	Cormate Sterile Cervical Cage 12/5/14/4°	AWR	No				
58.	Multiaxial Pedicle Screws, Φ4.5×30mm, TA set of 12pcs	AWR	Set				
59.	Multiaxial Pedicle Screws, Φ4.5×35mm, TA set of 12pcs	AWR	Set				
60.	Multiaxial Pedicle Screws, Φ4.5×40mm, TA set of 12pcs	AWR	Set				
61.	Multiaxial Pedicle Screws, Φ4.5×45mm, TA set of 12pcs	AWR	Set				
62.	Multiaxial Pedicle Screws, Φ5.0×30mm, TA set of 12pcs	AWR	Set				
63.	Multiaxial Pedicle Screws, Φ5.0×35mm, TA set of 12pcs	AWR	Set				
64.	Multiaxial Pedicle Screws, Φ5.0×40mm, TA set of 12pcs	AWR	Set				
65.	Multiaxial Pedicle Screws, Φ5.0×45mm, TA set of 12pcs	AWR	Set				
66.	Multiaxial Pedicle Screws, Φ5.0×50mm, TA set of 12pcs	AWR	Set				
67.	Multiaxial Pedicle Screws, Φ5.5×30mm, TA set of 12pcs	AWR	Set				
68.	Multiaxial Pedicle Screws, Φ5.5×35mm, TA set of 12pcs	AWR	Set				
69.	Multiaxial Pedicle Screws, Φ5.5×40mm, TA set of 12pcs	AWR	Set				

70.	Multiaxial Pedicle Screws, Φ5.5×45mm, TA set of 12pcs	AWR	Set				
71.	Multiaxial Pedicle Screws, Φ5.5×50mm, TA set of 12pcs	AWR	Set				
72.	Multiaxial Pedicle Screws, Φ6.0×30mm, TA set of 12pcs	AWR	Set				
73.	Multiaxial Pedicle Screws, Φ6.0×35mm, TA set of 12pcs	AWR	Set				
74.	Multiaxial Pedicle Screws, Φ6.0×40mm, TA set of 12pcs	AWR	Set				
75.	Multiaxial Pedicle Screws, Φ6.0×45mm, TA set of 12pcs	AWR	Set				
76.	Multiaxial Pedicle Screws, Φ6.0×50mm, TA set of 12pcs	AWR	Set				
77.	Multiaxial Pedicle Screws, Φ6.0×55mm, TA set of 12pcs	AWR	Set				
78.	Multiaxial Pedicle Screws, Φ6.5×30mm, TA set of 12pcs	AWR	Set				
79.	Multiaxial Pedicle Screws, Φ6.5×35mm, TA set of 12pcs	AWR	Set				
80.	Multiaxial Pedicle Screws, Φ6.5×40mm, TA set of 12pcs	AWR	Set				
81.	Multiaxial Pedicle Screws, Φ6.5×45mm, TA set of 12pcs	AWR	Set				
82.	Multiaxial Pedicle Screws, Φ6.5×50mm, TA set of 12pcs	AWR	Set				
83.	Multiaxial Pedicle Screws, Φ6.5×55mm, TA set of 12pcs	AWR	Set				
84.	Pedicle Screw Cap, TA set of 12pcs	AWR	Set				

85.	Crosslink Bars,60mm, TA	AWR	No				
86.	Crosslink Bars,70mm, TA	AWR	No				
87.	Crosslink Bars,80mm, TA	AWR	No				
88.	Crosslink Hooks, TA set of 12pcs	AWR	Set				
89.	Crosslink, Adjustable,28～31mm, TA	AWR	No				
90.	Crosslink, Adjustable,31～36mm, TA	AWR	No				
91.	Crosslink, Straight Adjustable, 28～31mm, TA	AWR	No				
92.	Crosslink, Straight Adjustable,31～36mm, TA	AWR	No				
93.	Crosslink, Straight Adjustable,36～41mm, TA	AWR	No				
94.	Crosslink, Straight Adjustable,41～51mm, TA	AWR	No				
95.	Crosslink Assembly, φ6.0x60mm, TA	AWR	No				
96.	Crosslink Assembly, φ6.0x70mm, TA	AWR	No				
97.	Crosslink Assembly, φ6.0x80mm, TA	AWR	No				
98.	Crosslink Rod, φ4.0×60mm, TA	AWR	No				
99.	Crosslink Rod, φ4.0×70mm, TA	AWR	No				

100.	Crosslink Rod, φ4.0×80mm, TA	AWR	No				
101.	Rods, Φ5.5.x400mm,	AWR	Roll				
102.	Rods, Φ6.0x400mm,	AWR	Roll				
103.	Rods, Φ5.5x 550mm,	AWR	Roll				
104.	Rods, Φ6.0x 550mm,	AWR	Roll				
	Inter Body Cage Implants						
122.	Sterile Lumbar Cage 26/8/10/0°	AWR	No				
123.	Sterile Lumbar Cage 28/8/10/0°	AWR	No				
124.	Sterile Lumbar Cage 22/10/10/0°	AWR	No				
125.	Sterile Lumbar Cage 24/10/10/0°	AWR	No				
126.	Sterile Lumbar Cage 26/10/10/0°	AWR	No				
127.	Sterile Lumbar Cage 28/10/10/0°	AWR	No				
128.	Sterile Lumbar Cage 22/12/10/0°	AWR	No				
129.	Sterile Lumbar Cage 24/12/10/0°	AWR	No				
130.	Sterile Lumbar Cage 26/12/10/0°	AWR	No				

131.	Sterile Lumbar Cage 28/12/10/0°	AWR	No				
132.	Sterile Lumbar Cage 22/14/10/0°	AWR	No				
133.	Sterile Lumbar Cage 24/14/10/0°	AWR	No				
134.	Sterile Lumbar Cage 26/14/10/0°	AWR	No				
135.	Sterile Lumbar Cage 28/14/10/0°	AWR	No				
	Items exclusively reserved for firms registered under Public Procurement and Preferences scheme- (AGPO)						
	Surgical Sutures						
136.	Ethibond Suture Size No.5	AWR	Doz				
137.	Prolene sutures Rev. Cut No.1	AWR	Doz				
138.	Prolene sutures Rev. Cut No.2	AWR	Doz				
139.	Prolene sutures Rev. Cut No. 02	AWR	Doz				
140.	Prolene sutures Rev. Cut No. 03	AWR	Doz				
141.	Prolene sutures Rev. Cut No. 04	AWR	Doz				
142.	Prolene sutures Rev. Cut No. 05	AWR	Doz				
143.	Prolene sutures Rev. Cut No. 06	AWR	Doz				

144.	Vicryl sutures Rev. Cut 4/0	AWR	Doz				
145.	Vicryl sutures RC 5/0	AWR	Doz				
146.	Nylon sutures RC 2/0	AWR	Doz				
147.	Nylon sutures RC 3/0	AWR	Doz				
148.	Nylon sutures RC 4/0	AWR	Doz				
149.	Nylon sutures RC No. 5	AWR	Doz				
150.	Monofilament RC No 1	AWR	Doz				
151.	Monofilament RC 2/0	AWR	Doz				
152.	Monofilament RC 3/0	AWR	Doz				
153.	Monofilament RC 4/0	AWR	Doz				
154.	Monofilament RC 5/0	AWR	Doz				
155.	Monofilament RC 6/0	AWR	Doz				
156.	MRI/CT Films 14x12” box of 100 sheets	AWR	Box				
157.	MRI/CT Films 10x12” box of 100 sheets	AWR	Box				
158	MRI/CT Films 8x12” box of 100 sheets	AWR	Box				

	CATEGORY C BLOOD TRANSFUSION SUPPLIES AND CONSUMABLES	As and when required (AWR)			**Contract Date**	**30 days**	
1.	Hemoglobin Estimation Cuvettes of pack of 200pcs	AWR	Pkt				
2.	Lancets sterile packet of 100pcs	AWR	Pkt				
3.	Non-Powdered Gloves Nitrile pack of 50pcs	AWR	Pkt				
4.	Purple Top Vacutainer 6ml pack of 100pcs	AWR	Pkt				
5.	Purple Top Vacutainer 4ml pack of 100pcs	AWR	Pkt				
6.	Blood Bags Double	AWR	Pcs				
7.	Blood Bags Single	AWR	Pcs				
8.	Blood Bags Tripple	AWR	Pcs				
9.	Blood Bags Quadruple	AWR	Pcs				
10	Blood Bags Pediatrics	AWR	Pcs				
11	Laboratory cryovials 2ml pack of 1000pcs	AWR	Pkt				
12	Laboratory cryovials 1.8ml pack of 1000pcs	AWR	Pkt				
13	Syringe with needles 10ml pack of 100pcs	AWR	Pkt				
14	Syringes with needles 20ml pack of 100pcs	AWR	Pkt				

15	Syringes with needles 5ml pack of 100pcs	AWR	Pkt				
16	Biohazard Disposable Poly liners pack of 100pcs	AWR	Pkt				
17	Tourniquets packet of 25pcs	AWR	Pkt				
18	Laboratory Pasteur Pipettes pack of 500pcs	AWR	Pkt				
19	Dropping Tips pack of 500pcs	AWR	Pkt				
20	Multi Channel Pipettes 50-100ul pack of 500pcs	AWR	Pkt				
21	Billard Cue Tips pack of 100pcs	AWR	Pkts				
22	Medical Feeding Tubes	AWR	No				
23	Syringes with needles 5ml pack of 100pcs	AWR	Pkt				
24	Medical Stitching Set of 50pcs	AWR	Set				
25	Biohazard Disposable Poly liners pack of 100pcs	AWR	Pkt				
26	Tourniquets packet of 50pcs	AWR	Pkt				
27	Multi Channel Pipettes 100-1000ul pack of 500pcs	AWR	Pkt				
28	Billard Cue Tips pack of 100pcs	AWR	Pkt				
29	Suction Catheters with thumb control standard size box of 100pcs	AWR	Box				

30	Velcro Tapes 25m	AWR	Roll				
31	Blood Sugar Strips pack of 25pcs	AWR	Pkt				
32	Pregnancy Test Kits twin pack	AWR	Pkt				
33	Widal Test Kits 25 tests per kit	AWR	Pkt				
34	Plaster Spread	AWR	Roll				
35	Medical Body Bags	AWR	No				
36	Urine Bags 2000ml pack of 10pcs	AWR	Pkt				
37	Wound Dressing Kits	AWR	Kit				
38	Treated Mosquito nets (ITNs) size 180cm l x160cm W x 150cm H	AWR	No				
39	Bilateral Tuba ligation Set	AWR	Set				
40	Medical Endo Tracheal Tubes 8.5 pack of 10pcs	AWR	Pkt				
41	Medical Endo Tracheal Tubes 4.5 pack of 10pcs	AWR	Pkt				
42	Medical Biopsy needles box of 10 units	AWR	Box				
43	IV giving Sets packet of 25 sets	AWR	Set				
	Items exclusively reserved for firms registered under Public Procurement and Preferences scheme- (AGPO)						

44	Face masks packet of 500pcs	AWR	Pkt				
45	Sterile Gauze Rolls 750grms	AWR	Rolls				
46	Disinfectant Bleaches 5litre Can	AWR	Can				
47	Isopropyl Solution 5 litres	AWR	Litres				
48	Micropore strappings packet of 12pcs	AWR	Pkt				
49	Medical Sterilizer 5ltrs	AWR	Tin				
50	Emergency Medical First Aid Kits	AWR	No				
51	Alcohol Swab pads pack of 200pcs	AWR	Pkt				
52	Cotton Wool 400grms	AWR	Roll				
53	Hand Sanitizer alcohol based 500ml	AWR	Litres				
54	Hand Paper Towels pack of 240 sheets	AWR	Pkt				
55	Flavored Soft Drinks 500ml plastic pet can	AWR	No				
56	Fresh Bread 600gms	AWR	No				
57	Biscuits box of 60 pkts with 5pcs each packet	AWR	Box				
58	Mineral Water; Bottled 500ml	AWR	No				

59	Distilled Water can of 20 litres laboratory use	AWR	No				
60	Medical Zip Lock Bags pack of 100pcs resealable	AWR	Pkt				
61	Squeeze Balls pack of 10 -18g, spherical, slow rising, smooth	AWR	Pkt				
62	Biohazard Medical Safety Boxes 20l	AWR	No				
63	Serum Holders pack of 500pcs	AWR	Pkt				
64	Pap Smear Kits -Complete disposable sterile	AWR	No				
65	Tongue Depressors 15mm x20mm	AWR	No				
66	Surgical Blades box of 100. (50 to 58 HRC, length 42mm, single use, disposable, sterile (Gamma Radiation)	AWR	No				
67	Dressing Adhesives box of 50 (10x8cm, wound pad 5x4cm)	AWR	No				
68	Plaster of Paris Bandages pack of 40kgs	AWR	Pack of 40kgs				
69	Ribbon Gauzes 100% cotton, 4 fold	AWR	Pkt				
70	Synthetic Casting Tapes pack 10 rolls	AWR	Rolls				
71	Medical Disposable gowns assorted sizes - coated polypropylene	AWR	No				
72	Medical Caps pack of 100pcs -non woven double elastic	AWR	No				
73	Hospital Blankets size 150x220cm	AWR	No				

74	Medical Scrubs standard - polyester/cotton/spandex blends	AWR	No				
75	Tissue Bed spread-60cm x90cm, 3ply layer	AWR	Rolls				
76	Disposable Speculums- Central pin	AWR	No				
77	Maternal (Pre- Natal, Natal and Post Natal) and child care booklet	AWR	No				
78	Crepe Bandages 7.5cm x 5m	AWR	Rolls				

CATEGORY D -DECONTAMINATION OF PUBLIC HEALTH FACILITIES

Line Item N°	**Description of service**	**Quantity**	**Physical unit**	**Final Destination as specified in TDS**	**Delivery (as per Incoterms) Date**		
					Earliest Delivery Date	**Latest Delivery Date**	**Tenderer's offered Delivery date [*to be provided by the tenderer*]**
1.	Specialized decontamination and bio disinfection of the public Health facilities	AWR	Cubic meter		Contract date	14 days	

SECTION V - SCHEDULE OF REQUIREMENTS

Notes for Preparing the Schedule of Requirements

The Schedule of Requirements shall be included in the Tendering document by the Procuring Entity, and shall cover, at a minimum, a description of the goods and services to be supplied and the delivery schedule.

The objective of the Schedule of Requirements is to provide sufficient information to enable tenderers to prepare their Tenders efficiently and accurately, in particular, the Price Schedule, for which a form is provided in Section IV. In addition, the Schedule of Requirements, together with the Price Schedule, should serve as a basis in the event of quantity variation at the time of award of contract pursuant to ITT 42.1.

The date or period for delivery should be carefully specified, taking into account (a) the implications of delivery terms stipulated in the Instructions to tenderers pursuant to the *Incoterms* rules that "delivery" takes place when goods are delivered **to the final place of delivery**, and (b) the date prescribed herein from which the Procuring Entity's delivery obligations start (i.e., notice of award, contract signature, opening or confirmation of the letter of credit).

List of Related Services and Completion Schedule - (N/A)

[This table shall be filled in by the Procuring Entity. The Required Completion Dates should be realistic, and consistent with the required Goods Delivery Dates (as per Incoterms)].

Service	Description of Service	Quantity[1]	Physical Unit	Place where Services shall be performed	Final Completion Date(s) of Services
[insert Service No]	***[insert description of Related Services]***	***[insert quantity of items to be supplied]***	***[insert physical unit for the items]***	***[insert name of the Place]***	***[insert required Completion Date(s)]***

[1]If applicable

TECHNICAL SPECIFICATIONS

1.1 The purpose of the Technical Specifications (TS), is to define the technical characteristics of the Goods and Related Services required by the Procuring Entity. The Procuring Entity shall prepare the detailed TS consider that:

i) The TS constitute the benchmarks against which the Procuring Entity will verify the technical responsiveness of Tenders and subsequently evaluate the Tenders. Therefore, well-defined TS will facilitate preparation of responsive Tenders by tenderers, as well as examination, evaluation, and comparison of the Tenders by the Procuring Entity.

ii) The TS shall require that all goods and materials to be incorporated in the goods be new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided for otherwise in the contract.

iii) The TS shall make use of best practices. Samples of specifications from successful similar procurements in the same country or sector may provide a sound basis for drafting the TS.

iv) The PPRA encourages the use of metric units.

v) Standardizing technical specifications may be advantageous, depending on the complexity of the goods and the repetitiveness of the type of procurement. Technical Specifications should be broad enough to avoid restrictions on workmanship, materials, and equipment commonly used in manufacturing similar kinds of goods.

vi) Standards for equipment, materials, and workmanship specified in the Tendering document shall not be restrictive. Recognized international standards should be specified as much as possible. Reference to brand names, catalogue numbers, or other details that limit any materials or items to a specific manufacturer should be avoided as far as possible. Where unavoidable, such item description should always be followed by the words “or substantially equivalent.” When other particular standards or codes of practice are referred to in the TS, whether from the Procuring Entity's or from other eligible countries, a statement should follow other authoritative standards that ensure at least a substantially equal quality, then the standards mentioned in the TS will also be acceptable.

vii) Reference to brand names and catalogue numbers should be avoided as far as possible; where unavoidable the words “or at least equivalent” shall always follow such references.

viii) Technical Specifications shall be fully descriptive of the requirements in respect of, but not limited to, the following:

a) Standards of materials and workmanship required for the production and manufacturing of the Goods.

b) Any sustainable procurement technical requirements shall be clearly specified.

1.2 To encourage tenderers' innovation in addressing sustainable procurement requirements, as long as the Tender evaluation criteria specify the mechanism for monetary adjustments for the purpose of Tender comparisons, tenderers may be invited to offer Goods that exceeds the specified minimum sustainable procurement requirements.

i) Detailed tests required (type and number).

ii) Other additional work and/or Related Services required to achieve full delivery/completion.

iii) Detailed activities to be performed by the Supplier, and participation of the Procuring Entity thereon.

iv) List of detailed functional guarantees covered by the Warranty and the specification of the liquidated damages to be applied in the event that such guarantees are not met.

1.3 The TS shall specify all essential technical and performance characteristics and requirements, including guaranteed or acceptable maximum or minimum values, as appropriate. Whenever necessary, the Procuring Entity shall include an additional ad-hoc Tendering form (to be an Attachment to the Letter of Tender), where the tenderer shall provide detailed information on such technical performance characteristics in respect to the corresponding acceptable or guaranteed values.

1.4 When the Procuring Entity requests that the tenderer provides in its Tender a part or all of the Technical Specifications, technical schedules, or other technical information, the Procuring Entity shall specify in detail the nature and extent of the required information and the manner in which it has to be presented by the tenderer in its Tender.

1.5 If a summary of the Technical Specifications(TS) has to be provided, the Procuring Entity shall insert information in the table below. The tenderer shall prepare a similar table to justify compliance with the requirements.

Summary of Technical Specifications: The Goods and Related Services shall comply with following Technical Specifications and Standards:

TECHNICAL SPECIFICATIONS FOR MEDICAL EQUIPMENT FOR FRAMEWORK

Item Description			**Adjustable crawler**
Department	OPD	Room Name/No.	N/A

1. General Description

The Skill builders Height-Adjustable Crawler aids in elementary crawling when body support is required. It encourages crawling without regard for specific patterns. The Crawler accommodates children from 3 to 9 years of age. The leatherette body support tilts forward or back for correct positioning and encourages vestibular responses.
Height adjusts from 11-1/2" to 15-1/4" and is 14"W

- Accommodates children from 3 to 9 years old
- Steel frame with non-marring casters
- Weight capacity of 75 lbs.

2. Composition
2.1 Main unit

3. Performance Specifications
3.1 Main Unit

4 Delivery point
4.1 TBD For inspection, testing and commissioning
4.2 Nil

5 Warranty
5.1 Equipment Minimum of one year after commissioning on all parts.

Item Description			**Ambu bag Adult**
Department	OPD	Room Name/No.	Emergency

1. General Description
Ambu/ Manual resuscitation bag for adults and children over 3 years of age (not less than 15 kg in body weight)

2. Composition
2.1 Resuscitation Bag Adult 1 No.

3. Performance Specifications
3.1
3.1 Resuscitation Bag, Adult Resuscitator/bag for adults and children over 3 years of age (not less than 15 kg in body weight0

		(a) Bag with built in pressure limitation and secondary pressure limiting valve. Anti-static and fully autoclave up to 134◦C (b) Valve controlled oxygen reservoir to provide up to 100% 02 concentration (c) Extension tube for connection to facemask (d) Transparent anesthetic face masks, sizes 3,4 and 5 autoclave up to 134◦C, of each (e) Carry bag or case (f) This device should be in accordance with the international standard ISO 10651-5:2006 or other equivalent standards. The face masks supplied with this device should be made of non toxic material, transparent, which complies with the international standard ISO 10993-1:2018
4	Quality standards	
4.1	Manufacturing standards	ISO 10651-5:2006, ISO 10993-1:2018 or any other equal and recognized internationally standards
4.2	Conformity to standards	CE marked or any other equal and recognized international document
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.
10.2	Equipment System	Nil

Item Description			**Ambu bag Pead**
Department	OPD	Room Name/No.	Emergency
1. General Description Resuscitator/bag child (for infants up to 4 years of age (20 kg in body weight)			
2. Composition 2.1 Resuscitation Bag Pead 1 No.			
3. Performance Specifications 3.1 Resuscitation Bag, Pead Resuscitator/bag child (for infants up to 4 years of age (20 kg in			

		body weight) (a) Fully autoclavable up to 134 degrees Centigrade and anti-static and fully autoclavable (b) Bag with built in pressure limitation, and secondary pressure limiting valve (c) Maximum insufflations pressure adjustable from 20 to 40 cm, H20 (d) Oxygen reservoir tube assembly to provide 02 up to 100% concentration (e) Transparent found face mask for babies (f) Rendell-baker mask sizes 0 and 1, 1 of each size (g) Carry case/bag (h) This device should be in accordance with the international standard ISO 10651-5:2006 or other equivalent standards. The face masks supplied with this device should be made of non toxic material, transparent, which complies with the international standard ISO 10993-1:2018
4	Quality standards	
4.1	Manufacturing standards	ISO 10651-5:2006, ISO 10993-1:2018 or any other equal and recognized internationally standards
4.2	Conformity to standards	CE marked or any other equal and recognized international document
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.
10.2	Equipment System	Nil

Item Description			**Bed Screen**
Department	OPD	Room Name/No.	N/A

2. General Description

Bed screen with four folds, with plastic curtain flame resistance, coated tubular metal frame, with castors φ60 mm

2. Composition

2.1 Main unit

3. Performance Specifications		
3.1	Main Unit	
3.1.1	Frame : tubular type constructed from mild steel epoxy coated Folds: Four folds Curtain: plastic curtain flame resistance, green in colour Mobile on castors φ60 mm Size Overall length when open: 245mm L X 165 cm height (open)	
4	Delivery point	
4.1	TBD	For inspection, testing and commissioning
4.2	Nil	
5	Warranty	
5.1	Equipment	Minimum of one year after commissioning on all parts.
5.2	Equipment System	Nil

Item Description			**Body dressing table**
Department	OPD	Room Name/No.	N/A

1. General Description

The body dressing trolley designed for use in hospital and mortuary environments. It must facilitate hygienic preparation, washing, and dressing of deceased bodies.

Construction must comply with international mortuary equipment standards and local safety/health regulations.

It should be easy to clean, corrosion-resistant, and durable for long-term use.

Performance Specifications

- Frame Construction: The entire structure should be constructed from high-grade stainless steel (minimum SS 304; SS 316 preferred).
- Stainless steel thickness: Tabletop 1.2–1.5 mm; Frame 1.5–2.0 mm.
- Welded joints should be smooth finished and polished.
- Table top design: Smooth, seamless, one-piece stainless-steel surface with a 3–5° inclination for drainage.
  - ✓ Integrated perforated or ribbed surface to prevent sliding.
  - ✓ Dimensions: Length 1800–2000 mm; Width 600–750 mm; Height 800–900 mm.

Drainage System

Integrated drainage channel running along the tabletop.

Stainless steel drain outlet located at foot end or side.

Compatible with standard plumbing connections (32–40 mm).

Supplied with a flexible drainage hose (minimum 1.5 m).

Frame and Mobility

Heavy-duty stainless steel tubular frame.

Four caster wheels (100–125 mm diameter) with at least two brakes.

	Non-marking and chemical-resistant wheels. **Load Capacity** Minimum load capacity: 200–250 kg. Additional Features Provision for attaching a spray hose. With under shelf stainless steel storage tray. Non-slip side handles for maneuvering. **Finishing** Polished, satin-finish stainless steel. Surfaces are waterproof, rust-resistant, and chemical-resistant. **Quality and compliance** Certificate of conformity (CE or equivalent). User and maintenance manual included. **Documentation** User manuals – 2 sets Service manuals – 1 set	
4	Delivery point	
4.1	TBD	For inspection, testing and commissioning
4.2	Nil	
5	Warranty	
5.1	Equipment	Minimum of one year after commissioning on all parts.

Department	OPD	Room Name/No.	N/A
Item Description			**Blood pressure machine, Digital**

General Description

Blood pressure machine/Sphygmomanometer, Digital, with electric pump, cuff and digital display. Internal battery operated and completed in leather case.

Accessories:

i) Velcro cuff with Latex bag

ii) Electrical pump

iii) Digital display in mm Hg

iv) Measurement range: 0 to 300mm Hg

v) Dry cell, preferable AA size

Item Description			**Pneumatic pump**
Department		Room Name/No.	

1. General Description

A pneumatic pump is designed for clean, reliable air delivery in clinical labs, wounded-care devices, and portable respiratory equipment.

2. Composition

2.1. Pneumatic pump 1 No.

3. Performance Specifications

3.1

- Power Source: Clean, dry compressed air, 40–80 psi (2.8–5.5 bar) inlet pressure
- Flow Rate: 0.5–25 L/min, adjustable via integral regulator
- Maximum Output Pressure: 100 psi (6.9 bar), pressure-compensated
- Pump Type: Oil-free, double-acting diaphragm; no lubrication required
- Cycle Rate: Up to 120 cycles/min (no-load)
- Control: Manual pressure regulator with digital display; optional foot-pedal or 24 V DC remote control.
- Port Connections: ¼-inch NPT inlet & outlet, quick-connect adapters for medical-grade tubing (6 mm ID)
- Materials: Aluminum housing, stainless-steel diaphragm, silicone seals (USP-Class VI compliant)
- Noise Level: < 65 dB(A) at full load
- Dimensions (L × W × H): 180 mm × 120 mm × 130 mm
- Weight: 2.2 kg (dry)
- Operating Temperature: 5 °C – 45 °C
- Safety Features: Integrated pressure relief valve (set to 110 psi), over-temperature shut-off, audible alarm for low inlet pressure, emergency stop button
- Mounting: Base plate with 4 × M6 holes; wall-mount bracket or mobile cart.

4	Quality standards	
4.1	Manufacturing standards	- Regulatory Compliance: CE-marked (Class IIa), ISO 13485, IEC 60601-1 (medical electrical equipment), RoHS-compliant
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Portable Cardiac Monitor**
Department		Room Name/No.	

1. General Description

A portable cardiac monitor is a compact, device that records the heart's electrical activity and displays it in real time, letting clinicians or patients track the cardiac status. Parameters measured include ECG, Heart rate (HR), Rhythm analysis, Pulse oximetry (SPO_2) & Temperature.

2. Composition

2.1. Portable Cardiac Monitor 1 No.

3. Performance Specifications

3.1

- Display: 5-inch color TFT, 800 × 480 px, auto-brightness.
- ECG Leads: 3-lead or 5-lead configurable, snap on electrodes.
- Sampling Rate: 500 Hz per channel, 12-bit resolution.
- Heart Rate Range: 30–300 bpm, ±2 bpm accuracy.
- Arrhythmia Detection: Real-time PVC, AFib, bradycardia, tachycardia alarms.
- Memory: 24 h continuous ECG storage (expandable via micro-SD up to 32 GB).
- Battery: Rechargeable Li-ion, 7 h continuous monitoring, 30 min quick charge to 80 %.
- Connectivity: Bluetooth 5.0, Wi-Fi (optional), USB-C for data export.
- Dimensions: 120 mm × 70 mm × 25 mm.
- Weight: 180 g (including battery).
- Operating Temp: 5 °C – 40 °C.
- Additional Features: Pacemaker detection, Pulse oximetry (SpO_2) audible/visual alarms, patient event marker.

4	Quality standards	
4.1	Manufacturing standards	- Protection: IPX4 splash-resistant, IEC 60601-1 Class II, CE-marked
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Department	OPD	Room Name/No.	Emergency
Item Description			**Defibrillator**

1. General Description

Defibrillator suitable for cardiac care complete with AED, ECG monitoring, RESP, SPO_2 and NIBP monitoring, Mounted on a mobile cart

2. Composition

2.1	Main unit	1 No.
2.2	Mobile cart	1 No.

3. Performance Specifications

3.0	Main Unit	
3.1	Design	Designed for external defibrillation, Compact, rugged and portable, mounted on a mobile stand
3.2	Defibrillator Mode	
3.2.1	Type	Manual, Automatic External defibrillation (AED), and Synchronous modes
3.2.2	Technology	Biphasic waveform or equal and equivalent technology suitable for external defibrillation, Noninvasive pacing
3.2.3	Maximum Energy Level	Up to 200J, adjustable depending on selected mode
3.2.4	Charging time	Less than 5 Seconds to Maximum energy level
3.2.5	Manual mode	
3.2.5.1	External defibrillation Energy	1J to 200J in at least 20 steps complete with synchronous cardioversion
3.2.6	AED Mode	
3.2.6.1	External Defibrillation Energy	50J to 200J, Adjustable
3.2.7	Noninvasive Pacing	
3.2.7.1	Waveform	Monophasic Square Pulse wave or equal and equivalent
	Pulse width	Adjustable
3.2.8	Defibrillator paddle	External, Multifunctional Electrodes, Support charging, discharging and energy selection.
3.2.8.1	Adult, reusable	1 Unit,
3.2.8.2	Peadiatric, reusable	1 Unit
3.3	ECG monitoring	
3.3.1	Lead	3 Leads, 5 Leads, and Auto configuration
3.3.2	Lead selection	3- Lead: I,II,III 5- Lead I,II,III, aVR,aVL, aVF, V
3.3.3	Synchronization analysis	Provided
3.3.3.1	Sweep Speed	6.25 mm/s to 50 mm/s adjustable
3.3.4	Heart Rate	15 to 300 bpm accuracy ± 10%
3.3.5	ECG cable	Provided, 1 No.
3.3.6	CMRR	Provided
3.3.7	Arrhythmia Analysis	Provided
3.3.8	Pacemaker Detection	Provided
3.3.9	Accessories	Electrodes :1 Box, Jel: 2 containers, Recording paper 10 rolls
3.4	SPO_2	
3.4.1	Measurement range	0 to 100%
3.4.2	Accuracy	± 1%

3.4.3	Heart Rate	20 to 350 (for adult and Peads), bpm accuracy ±1 bpm
3.4.4	SPO_2 Sensors	
3.4.4.1	Adult	2 No. Reusable
3.4.4.2	Pediatric	2 No. Reusable
3.4.4.3	Neonatal	2 No. Reusable
3.5	NIBP	
3.5.1	Method/Technology	Automatic Oscillo metric or equal and equivalent technology
3.5.2	Mode	Manual/Auto/continuous
	Measuring units	mmHg/kPa
3.5.3	Pressure types	Systolic. Diastolic, Mean
3.5.4	Systolic Range	Adult: 40 to 280 mmHg Pead : 40 to 200 mm Hg
3.5.5	Diastolic Range	Adult: 10 to 215 mmHg Pead: 10 to 150 mm Hg
3.5.6	Over pressure protection	Provided, to include Audio and Visual Alarm
3.5.7	Accuracy	± 2bpm
3.5.8	BP cuff, Adult	2 No.
3.5.9	BP Cuff, Pead	2 No.
3.6	RESP	
3.6.1	Method	Side stream
3.6.2	Measurement Range	0 to 190 mm Hg, (at 760 mm Hg)
3.6.3	Accuracy	± 2mmHg
3.6.4	Capnography waveform	To be provided, including respiratory rate
3.6.5	Accessory	Nasal prongs and other necessary accessories to be provided, 10 Set
3.7.	Display	TFT/LED screen 7 "
3.7.1	Resolution	800 X480 pixels, 4 waveforms
3.7.2	Alarm function	Audible and Visual
3.7.3	Safety	Self check: audible and visual alarm
3.7.4	Lead fault	Audible and visual alarm
3.7.5	Paddle fault	Audible and visual alarm
3.7.6	ECG cable fault	Audible and visual alarm
3.7.7	Heart rate alarms	Audible and visual alarm
3.7.8	Low Battery	Audible and visual alarm
3.7.9	Power Failure	Audible and visual alarm
3.7.10	Recorder	Inbuilt, thermal array type or equivalent, Min. 3 Channels
3.7.11	Paper Speed	Adjustable, 6.25 mm/sec to 50 mm/sec approximately
3.7.12	Storage	Internal Memory 250 GB, External SD memory card 64GB
3.8	Interface	USB, RJ 45, DICOM compatible, External printer
4	Physical characteristics	
4.1	Main unit	Portable, Mounted on a mobile cart with four castors Ø 60 mm, with brakes
4.2	Dimensions	
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase, 3 Pin Plug (BS), 3m long cord with PE
5.2	Back up supply	Internal rechargeable batteries (SLA), to last at least five hours
5.3	Ambient temperature	10° C to 40° C
5.4	Relative humidity	40% to 90%
6	Accessories/ Spare parts/	

	Consumables	
6.1	As above	
7	Quality standards	
7.1	Manufacturing standards	IEC 60601-2-4:2010: Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators, ISO 13485:2016: Medical devices — Quality management systems — Requirements for regulatory purposes ISO 9001
7.2	Conformity to standards	CE marked or any other equal and equivalent internationally recognized documents
8	Local back up service	
8.1	Available	Should be available locally
8.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
9	Delivery point	
9.1	See Schedule	For inspection and testing
9.2	Nil	
10	Pre installation requirements	
	Nil	
11	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
12	Training	
12.1	User Training	On site user training on operation and daily up keep
12.2	Maintenance training	On site maintenance training on preventive maintenance
13	Technical documentations	
13.1	User manuals	2 Sets
13.2	Service Manual	2 Set
13.3	Drawings	Nil
14	Commissioning	
14.1	Testing and commissioning of the machine to the satisfaction of the user.	
15	Warranty	
15.1	Equipment	Minimum of one year after commissioning on all parts.
15.2	Equipment System	Nil

Department	OPD	Room Name/No.	N/A
Item Description			**Diagnostic Set**
1. General Description Diagnostic set with LED lighting technology.			
2. Composition 2.1 Main unit			
3. Performance Specifications 3.1 Main unit 3.1.1 Battery handle 1 pc 3.1.2 Ophthalmoscope head (LED) 1 pc			

3.1.3	Otoscope head (LED)	1pc
3.1.4	Specula	3 pcs (3mm, 5mm, 7mm)
3.1.5	Nasal specula	1pc
3.1.6	Throat Lamp	1pc
3.1.7	Laryngeal and post nasal mirror	1pc
3.1.8	Dry cell	1Set
3.1.9	Carrying case	Provided
4	Quality standards	
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.2		For inspection and testing

Department	OPD	Room Name/No.	N/A
Item Description			**Diagnostic Set- Wall Mounting**
1. General Description Diagnostic set with LED lighting technology. Wall Mounting Type			
2. Composition			
2.1	Main unit		
3. Performance Specifications			
3.1	Main unit		
3.1.1	Battery handle	1 pc	
3.1.2	Ophthalmoscope head (LED)	1 pc	
3.1.3	Otoscope head (LED)	1pc	
3.1.4	Specula	3 pcs (3mm, 5mm, 7mm)	
3.1.5	Nasal specula	1pc	
3.1.6	Throat Lamp	1pc	
3.1.7	Laryngeal and post nasal mirror	1pc	
3.1.8	Dry cell	1Set	
3.1.9	Wall Mounting Accessories	Provided	
4	Quality standards		
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards	
	Conformity to standards	CE marked or any other internationally recognized documents	
5	Delivery point		
5.2		For inspection and testing	

Department	OPD	Room Name/No.	
Item Description			**Clinical thermometer-**

			Digital type
1. General Description Clinical thermometer, Digital type, with infra-red technology for measuring body temperature on the forehead.			
2. Composition			
2.1	Main unit		
3. Physical Specifications			
3.1	Main Unit		
3.1.1	Main frame material		Rigid plastic, Hand held type with housing and digital display
3.1.2	Temperature range and accuracy		32°C to 43°C, ± 0.1°C
3.1.3	NETD		Less than 60mK @25°C (Noise Equivalent Temperature Difference)
3.1.4	Temperature distances		1-10 cm non-contact detection distance without loss of accuracy
3.1.5	Measuring time		≤ 1 second
3.1.6	Display		LED large display of numeric reading
3.1.7	Storage		Memory for storage of readings, Minimum 32GB on TF card
3.1.8	Power Source		Lithium Battery, Long life
3.1.9	Alarms		Audio and Visual Alarms for elevated body temperatures (Green: temperatures < 37.5°C, RED temperatures ≥ 37.5°C) Power failure, low battery, System failure, self-diagnostic all other monitored parameters. To include mute function
3.1.10	Protection		IP 66 enclosure for both indoor and outdoor application
3.1.11	Battery		1 pc., battery
3.1.12	Size		Approx. 140 (L) X 95 (W) X 95 (H) mm
4	Quality Standards		
4.1	Manufacturing standards		ISO 80601-2-56:2017 Medical electrical equipment — Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement or equal and equivalent internationally recognized standard
4.2	Conformity to standards		CE marked or any other internationally recognized documents
5	Delivery point		
5.1	See schedule		Delivery point
6	Warranty		
6.1	Equipment		Minimum of one year after delivery
6.2	Equipment System		Nil

Department	OPD	Room Name/No.	
Item Description			**Temperature Management Units (Bair Hugger or equivalent)**

1. General Description . Temperature management units are used forced air warming. They are small, lightweight and easy to use. Dimensions: 12" h x 10" w x 13.5" d (30 x 25 x 34 cm) Weight: At least 15.5 lb (7 kg) Filter: High-efficiency, 0.2 µm filter Operating Temperature: High: 43º ± 1.5ºC (109.4º ± 2.7ºF) Medium: 38º ± 1.5ºC (100.4º ± 2.7ºF) Low: 32º ± 1.5ºC (89.6º ± 2.7ºF) Device Rating: 220-240 VAC, 50/60 Hz, 7.2 Amperes 100 VAC, 50/60 Hz, 14.5 Amperes Certifications: EN 60601-1, UL 2601-1, CSA C22.2 No. 601.1, EN 60601-1-2 Leakage Current: Meets regulatory standards for leakage current		
2. Composition		
2.1	Main unit	
4	Quality Standards	
4.1	Manufacturing standards	EN 60601-1, UL 2601-1, CSA C22.2 No. 601.1, EN 60601-1-2
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1	See schedule	Delivery point
6	Warranty	
6.1	Equipment	Minimum of one year after delivery
6.2	Equipment System	Nil

Item Description			**Drip stand**
Department	Maternity	Room Name/No.	N/A
1. General Description Drip stand			
2. Composition			
2.1	Main unit		
3. Performance Specifications			
3.1	Main Unit		Constructed from chrome plated mild steel
3.2	Hook		Double hook
3.3	Height		Adjustable 1300mm to 2000mm
3.4	Castors		Four castors Ø 50mm, with brakes
4	Quality standards		
4.1	Manufacturing standards		ISO 9001 or any other internationally recognized standards
	Conformity to standards		CE marked or any other internationally recognized documents
5	Delivery point		
5.1			For inspection, installation and testing

5.2	Nil

Item Description			**Tricycle**
Department	Physiotherapy	Room Name/No.	

1. General Description

A tricycle is a sturdy, three-wheeled mobility aid designed to support patients who need assistance with balance, coordination, and lower-limb strengthening. It provides a safe, seated platform that encourages a natural pedaling motion while allowing the therapist to adjust resistance and posture for individualized rehab programs.

2. Composition

2.1. Tricycle 1 No.

3. Performance Specifications

3.1

- Frame: Welded steel or aluminum alloy, powder-coated finish, corrosion-resistant.
- Weight: 12 kg.
- Dimensions (L × W × H): 115 cm × 55 cm × 95 cm (adjustable seat height).
- Seat: Padded, height-adjustable from 45 cm to 65 cm in 2 cm increments; swivel-lock for static positioning.
- Pedals: Wide, non-slip rubber with foot straps; adjustable pedal distance (45–55 cm).
- Drive System: Single-chain or belt drive with magnetic resistance unit.
- Resistance Levels: 8-step magnetic brake, 0–30 Nm torque (adjustable).
- Wheel Size: 30 cm front caster (dual-wheel) and 35 cm rear wheels with pneumatic tyres for smooth indoor/outdoor use.
- Brakes: Hand-operated rear brake; foot-brake for low-mobility users.
- Stability: Wide rear axle (55 cm) and low centre of gravity; anti-tip castors at front.
- Portability: Quick-release front wheel and folding frame reduce storage footprint to ~70 cm × 55 cm × 30 cm.
- Maximum User Weight: 120 kg.
- Safety Features: Lockable seat swivel, secure foot straps, reinforced frame.
- Optional Accessories: Lateral support bars, trunk harness, therapy handles, digital resistance display.

4	Quality standards	
4.1	Manufacturing standards	- Compliance: ISO 7176-1 (wheelchair standards), ISO 13485, CE-marked.
5	Delivery point	
5.1	See Schedule	For inspection and testing

6 Installation and testing

Complete installation and set-up of the machine as per manufacturer's instructions

7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Department	OPD	Room Name/No.	Pure ECG
Item Description			**ECG Machine, 5 Lead**

1. General Description ECG machine with standard 5 Leads suitable for emergency care. The unit shall be capable of continuous monitoring of ECG. The Unit shall have an in-built printer and mounted on a mobile cart.		
2. Composition		
2.1	Main unit 1No. Mobile Cart 1 No.	
3. Performance Specifications		
3.1	Main Unit	
3.2.	Design	The unit should be a model or type on current production Compact, rugged and portable, mounted on a mobile stand
3.3	Performance	For use in intensive care units. Shall be capable of continuous measuring and monitoring of ECG
3.4	ECG monitoring	
3.4.1	Lead	Standard 5 lead, configuration
3.4.2	Synchronization analysis	Provided
3.4.3	Sweep Speed	6.25 mm/s to 50 mm/s adjustable
3.4.4	Heart Rate	15 to 300 bpm accuracy ± 10%
3.4.5	ECG cable	Provided, 1 No.
3.4.6	CMRR	Provided
3.4.7	Arrhythmia Analysis	Provided
3.4.8	Pacemaker Detection	Provided
3.4.9	Accessories	Electrodes :1 Box, Jel: 2 containers, Recording paper 10 rolls
3.5	Display	TFT/LED screen 14'' to 18 " flat touch screen
3.5.1	Resolution	HD 1080p, 6 to 8 waveforms Protection against Defibrillator effects
3.6	Alarm function	Audible and Visual
3.6.1	Safety	Self check: audible and visual alarm
3.6.2	Lead fault	Audible and visual alarm
3.6.3	ECG cable fault	Audible and visual alarm
3.6.4	Heart rate alarms	Audible and visual alarm
3.6.5	Low Battery	Audible and visual alarm
3.6.6	Power Failure	Audible and visual alarm
3.7	Recorder	Inbuilt, thermal array type or equivalent,
3.7.1	Paper Speed	Adjustable, 6.25 mm/sec to 50 mm/sec approximately Paper size:

		A4 paper
3.8	Storage	Internal Memory 500 GB, External SD memory card 64GB or With internal memory capable of holding up to 400 ECG files
3.9	Interface	USB, Ethernet, DICOM compatible, External printer
3.10	Input	In built keyboard
3.11	Internal battery	Provided, rechargeable, can operate for at least 1 hours
4	Physical characteristics	
4.1	Main unit	Portable, Mounted on a mobile cart with four castors Ø 60 mm, with brakes
4.2	Dimensions	
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase, 3 Pin Plug (BS), 3m long cord with PE
5.2	Back up supply	Internal rechargeable batteries (SLA), to last at least five hours
5.3	Ambient temperature	10^{o} C to 40^{o} C
5.4	Relative humidity	40% to 90%
6	Accessories/ Spare parts/ Consumables	
7.1	ECG connection 5 lead Configuration	1 Set
7.2	Disposable electrodes	2 Pkts
7.3	Printing papers	10 Rolls.
7.4	Jel	2 containers
7.5	Grounding lead	1 No.
7	Consumable	
7.1	As above	
8	Spare parts	
8.1	Fuses	1 Set
8.2	Battery pack	1 Set
9	Quality standards	
9.1	Manufacturing standards	IEC 60601-2-4:2010: Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators, ISO 13485:2016: Medical devices — Quality management systems — Requirements for regulatory purposes ISO 9001
9.2	Conformity to standards	CE marked or any other equal and equivalent internationally recognized documents
10	Local back up service	
10.1	Available	Should be available locally
10.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, consumables and qualified and skilled technical staff
11	Delivery point	

11.1	See Schedule	For inspection and testing
11.2	Nil	
12	Pre installation requirements	
	Nil	
13	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep
14.2	Maintenance training	On site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil

Department	OPD	Room Name/No.	N/A
Item Description			**Emergency Examination light**

1. General Description		
Emergency Examination light for use during power failure, complete with LED plate light with rechargeable battery type		
2. Composition		
2.1	Main unit	
3. Physical Specifications		
3.1	Main Unit	
3.1.1	Main frame material	Rigid plastic, with carrying handle
3.1.2	Light bulb	LED plate type 300 Length x 150Width (mm)
3.1.3	Battery	Rechargeable type
3.1.4	Charging Voltage	240V, a.c 50 Hz, with 3 pin BS top plug
4	Quality Standards	
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1	See schedule	Delivery point
6	Warranty	
6.1	Equipment	Minimum of one year after delivery
6.2	Equipment System	Nil

Item Description	**Resuscitation trolley**

Department		Room Name/No.	

1. General Description

A resuscitation trolley is a mobile, sturdy workstation that keeps all emergency airway, breathing, circulation and medication supplies organized and ready for rapid access. It's built for high-traffic areas such as emergency departments, intensive care units and ambulance bays, allowing clinicians to pull the trolley to the patient's bedside and start life-saving interventions without delay.

2. Composition

2.1. Resuscitation trolley 1 No.

3. Performance Specifications

3.1

- **Frame & Housing**
  - Heavy-duty stainless-steel (18 ga) or reinforced ABS with antimicrobial coating.
  - Smooth, wipe-clean surfaces; corrosion-resistant finish.

- **Dimensions (W × D × H)**
  - Standard: 650 mm × 500 mm × 950 mm
  - Compact (ambulance) version: 500 mm × 400 mm × 800 mm

- **Weight** (empty)
  - Standard: ≈ 15 kg; Compact: ≈ 9 kg

- **Mobility**
  - 125 mm swivel castors with lockable brakes.
  - Ergonomic handle for hand-carry.

- **Power & Lighting**
  - Integrated LED work light (≥ 5 000 lux) with rechargeable 12 V, 2 Ah battery backup.
  - Power outlet strip (5 A, 230 V) for attached devices.

- **Storage**
  - Removable, autoclavable trays with color-coded compartments (airway, breathing, circulation, drugs, IV).
  - Adjustable dividers; drawer with soft-close mechanism.
  - Side-mounted oxygen-cylinder holder (M-type) and suction-unit bracket.

- **Environmental Rating**
  - IPX4 splash-proof; operating temperature 5 °C – 40 °C

- **Other Features**
  - Built-in defibrillator pad holder with indicator lamp.
  - Integrated suction pump (up to 300 mm Hg)
  - Quick-release drug lock box with tamper-evident seal.

4 Quality standards

4.1 Manufacturing standards

- **Safety & Compliance**
  - IEC 60601-1 (medical electrical) and ISO 13485 certified.
  - CE-marked, RoHS-compliant

		- Fire-retardant materials; meets NFPA 99 requirements.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Emergency Trolley**
Department	OPD	Room Name/No.	Emergency

1. General Description

Emergency trolley

2. Composition

2.1	Main unit, mobile type, with oxygen cylinder holder	

3. Performance Specifications

3.1	Main Unit	Mobile type with one detachable oxygen cylinder holder
	Material	ABS plastic or similar non corrosive Powder coated steel for main frame
3.1.1	Function	Resuscitation, Aspiration, and Oxygen inhalation
3.1.2	Drawers	3 -6 drawers (Different sizes S,M,L) with single key lock system
3.1.2	Shelve	Slide out type 1No.
3.1.3	Push handle	Provided
3.1.4	IV pole	Provided, stainless steel with adjustable height, four hooks
3.1.5	Instrument tray	Provided, Stainless steel
3.1.6	Defibrillator Shelf	Provided, Foldable type, ABS plastic
3.1.7	Sharp container	Provided
3.1.8	Oxygen regulator	Provided, BS type,
3.1.9	Castors	Provided, heavy duty, Ø 120mm, with brakes
3.2	Accessories	
3.2.1	Aspirator with catheter	1 set to be provided
3.2.2	Oxygen face mask with tubing	Adults 3 pcs, Pead 3 pcs, Neonates, 3 pcs
3.2.3	Air way	3 types to be provided
3.2.4	Oxygen Cylinder	About 500 litres gas capacity at STP, Bullnose connection BS type, complete with cylinder holder

3.2.5	Demand valve for adults and infant	Combined type for both adult and infant
3.2.6	Oxygen flow meter and humidifier	To be provided
	CPR Board	To be provided
	Power cable	To be provided with addition power outlets BS, 3 Pin type
3.3	Approximate physical size	1300 H X 900 W X540 L mm
4	Quality standards	
4.1	Manufacturing standards	ISO 13485 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1	See Schedule	For inspection, installation and testing
5.2	Nil	

Item Description			**Examination Light- Mobile**
Department	OPD	Room Name/No.	OPD

1. General Description

Examination light, mobile, floor stand type with flexible headlight for clinical examination and Minor surgery The light should consist of flexible head lamp with LED technology bulbs. It should be constructed from light weight material preferable aluminum, or coated mild steel and easily to disinfect

2. Composition

2.1	Main unit and Main lamp head	

3. Performance Specifications

3.1	Main lamp head	
3.1	Application	Clinical Examination and minor surgery
3.1.1	Lamp head diameter	100 mm mounted on a flexible pipe /Gooseneck construction pipe
3.1.2	Flexible part/neck	Gooseneck, 100 cm long. Shall be able to rotate and bend at all angles and remain in the desired position.
	Light Spot	Shall be homogenous and adjustable by a minimum range of 60mm
3.1.3	Minimum light intensity	About 15,000 lux at 1meter from head
3.1.4	Light colour Temperature	5000 K
3.1.5	Lighting Control	Electronic system with touch button light intensity
3.1.6		Control mounted at a convenient place preferable on the head lamp.
3.1.7	Lighting Bulb	LED technology, with Minimum service life of 50,000hrs
3.1.8	Height	Adjustable to Max. 1.65m
3.1.9	IR filtration	> 95% (Cold light)

3.1.10	Mobile	On four/five foot castors Ø 80 mm with brakes
4	Operating environment	
4.1	Power Requirements	240V, A/c 50 Hz, Single phase, with PE
4.2	Ambient temperature	10° C to 40° C
4.3	Relative humidity	40% to 90%
5	Quality standards	
5.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
5.2	Conformity to standards	CE marked or any other internationally recognized documents
6	Delivery point	
6.1	See Schedule	For inspection and testing
7	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
8	Training	
8.1	User Training	On site user training on operation and daily up keep
8.2	Maintenance training	On site maintenance training on preventive maintenance
9	Technical documentations	
9.1	User manuals	2 Sets
9.2	Service Manual	2 Set
9.3	Drawings	Nil
10	Commissioning	
10.1	Testing and commissioning of the machine to the satisfaction of the user.	
11	Warranty	
11.1	Equipment	Minimum of one year after commissioning on all parts.
11.2	Equipment System	Nil

Department	OPD	Room Name/No.	Emergency
Item Description			**Fluid warmer**

1. General Description

Fluid Warmer is suitable for warming infusion solutions/fluids (nutrients and medication) up to the patient. The unit shall be for bedside use and mounted on a mobile stand with Ø 60 mm four castor

2. Composition

2.1 Main unit

3. Performance Specifications

3.1	Main Unit	
3.1.1	Type	Singe channel fluid warmer
3.1.2	Application	Warming of Fluids up to the patient
3.1.3	Technology	Microprocessor control with LED/LCD display of parameter Electrically heated- Continuous operation
3.1.4	Temperature setting	33°C to 41°C accuracy of ±1°C With user programmable temperature setting
3.1.5	Warming time	25°C to 30°C in less than 2 minutes
3.1.6	IV Set Diameter	3.5 to 5 mm
3.1.7	Display	LED or LCD Display of the following parameters Set Temperature

		Actual temperature Heating time Fault situation
3.1.8	Safety features	
3.1.8.1	Over temperature 42°C	Provided
3.1.8.2	Low temperature 32°C	Provided
	Over heating	Provided
3.1.8.3	Alarms (Audio and Visible)	Low temp. High Temp, Over heat System error
3.1.9	Backup power	Inbuilt for at least 8 hours operation, rechargeable or Alkaline battery
3.2	Accessories	Spare battery pack
4	Physical characteristics	
4.1	Main unit	
4.2	Dimensions	Mounted on a mobile stand with four castors Ø 60, with brakes. Constructed from non-corrosive durable material
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase
5.2	Ambient temperature	10 5° C to 40° C
5.3	Relative humidity	20% to 90%
6	Quality standards	
6.1	Manufacturing standards	EN 60601-2-24:2015 Medical electrical equipment - Part 2-24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers or any other equal and equivalent internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
7	Local back up service	
7.1	Available	Should be available locally
7.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
8	Delivery point	
8.1	See Schedule	For inspection, testing and installation
9	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
10	Training	
10.1	User Training	On site user training on operation and daily up keep
10.2	Maintenance training	On site maintenance training on preventive maintenance
11	Technical documentations	
11.1	User manuals	2 Sets
11.2	Service Manual	1 Set
11.3	Drawings	Nil

12	Commissioning	
12.1	Testing and commissioning of the machine to the satisfaction of the user.	
13	Warranty	
13.1	Equipment	Minimum of one year after commissioning on all parts.
13.2	Equipment System	Nil

Item Description			**Ultrasound scanner, mobile**
Department		Room Name/No.	

1. General Description

A mobile j system is a compact, battery-powered unit that brings high-resolution imaging to the point of care—bedside, emergency department, field clinics, or remote sites. It combines a lightweight console, a detachable probe, and a touchscreen interface, allowing clinicians to perform rapid assessments without transporting patients to a radiology suite.

2. Composition

2.1. Ultrasound scanner, mobile 1 No.

3. Performance Specifications

3.1

- Imaging Modes: B-mode, M-mode, Color Doppler, Power Doppler, Pulsed Wave Doppler, and basic cardiac packages.
- Display: 10.1-inch high-definition LCD (1920 × 1080 px) with adjustable brightness and anti-glare coating.
- Probes:
  - Linear array (5-12 MHz) for vascular, musculoskeletal, and superficial work.
  - Curved abdominal probe (2-5 MHz) for abdominal, OBS/GYN, and deep-organ imaging.
  - Phased-array cardiac probe (2-4 MHz) for basic echocardiography.
- Battery: Removable lithium-ion pack (10 Ah) providing up to 3 hours of continuous scanning; quick-charge to 80 % in 30 minutes.
- Power: AC adapter 220-240 V, 50/60 Hz; 12 V vehicle adapter for on-the-go use.
- Connectivity: Wi-Fi, Bluetooth, USB-C, and DICOM export; integrated secure cloud storage for image sharing.
- Weight: 4.2 kg (console with battery) plus 0.7 kg per probe.
- Dimensions (console): 260 mm × 180 mm × 90 mm (W × D × H).
- Operating Temperature: 5 °C – 40 °C; humidity 30 % – 75 % non-condensing.
- Additional Features: Auto-optimize imaging, built-in measurement tools, patient database, voice-command capture, and ruggedized housing (IPX4 splash-proof, drop-tested to 1 m).

4	Quality standards	
4.1	Manufacturing standards	- **Safety & Compliance** - Safety & Compliance: IEC 60601-1 (medical electrical), IEC 60601-2-37 (ultrasound), CE-marked, FDA-cleared, ISO 13485 quality management.
5	Delivery point	

5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Gas Cylinder Trolley**
Department	Emergency	Room Name/No.	OPD

1. General Description

Gas Cylinder Trolley for transport a cylinder medical gas cylinder within the health facility premises

2. Composition

2.1	Gas Cylinder trolley with four castors	

3. Performance Specifications

3.1	Main Unit Material	Mobile Gas cylinder trolley with Four castors and cylinder holder Coated mild steel construction with castors, Cylinder fastener/holder, and foot plate
3.1.1	Dimensions (approx.)	Length 1000mm, width 230mm, depth 130mm Foot plate 125 mm
3.1.2	Maximum Carrying Capacity	120 Kg
3.1.2	Size of Cylinder	For single cylinder of size 1. 36 m^3 to 3.4 m^3 Secured by means of brackets with a stainless-steel chain
3.1.3	Castors	Antistatic, solid type Front: Two castors of 120 mm Diameter each Back: Two castors of 100 mm Diameter each with brakes Back wheels shall be foldable for ease of transportation

4	Quality standards	
4.1	Manufacturing standards	ISO 13485 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	

5.1	See Schedule	For inspection, installation and testing
5.2	Nil	

Item Description			**Medical gases system - Oxygen**
Department		Room Name/No.	

1. General Description

A medical-grade oxygen plant is a compact, on-site system that extracts oxygen from ambient air, compresses it, and delivers high-purity (> 93 %) oxygen for clinical use. It eliminates reliance on cylinder deliveries and ensures a continuous supply of oxygen within a healthcare setting.

2. Composition

2.1. Medical gases system - Oxygen – 1 Set.

3. Performance Specifications

3.1

- Production Capacity: 350 Nm³/h.
- Oxygen Purity: 93 % ± 3 % (medical grade.
- Power Supply: 415 V, 3-phase, 50/60 Hz.
- Power Consumption: 0.8–1.2 kWh per Nm³ of oxygen produced.
- Compression: Integrated oil-free piston or screw compressor, 10 bar (150 psi) discharge pressure; includes after-cooler and moisture separator.
- Air Intake: Dual-stage particulate filters (5 µm + 0.3 µm) with automatic blow-down.
- Oxygen Storage: Built-in high-pressure cylinder bank (up to 200 bar) with pressure regulator and safety relief valve.
- Control System: PLC-based touchscreen interface with real-time flow, pressure, purity, and alarm monitoring; remote access via Ethernet.
- Dimensions (Typical 20 Nm³/h unit): 2.2 m (L) × 1.2 m (W) × 1.8 m (H).
- Weight: ~ 1,200 kg (dry weight).
- Noise Level: < 70 dB(A) at 1 m (compressor housed in sound-attenuated enclosure).
- Automatic cylinder-filling station for on-site refilling.

4	Quality standards	
4.1	Manufacturing standards	Regulatory Compliance: ISO 13485, ISO 9001, CE-marked, FDA-registered (Class II medical device), meets WHO/ISO 10083 oxygen purity standards.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets

9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Medical gases system - Vacuum**
Department		Room Name/No.	

1. General Description

A medical vacuum plant is a dedicated system that generates a continuous, high-flow vacuum for surgical suction, wound drainage, and other clinical applications. It draws ambient air through filters, removes moisture and contaminants, and delivers a stable negative pressure that meets stringent medical standards.

2. Composition

2.1. Medical gases system - Vacuum – 1 Set.

3. Performance Specifications

3.1

- Flow Rate: 30 – 300 L/min per pump module.
Vacuum: ≤ 0.5 kPa.
- Power Supply: 415 V, 3-phase, 50/60 Hz.
- Power Consumption: 0.6–1.0 kW per pump module at full load.
- Pump Type: Oil-free rotary vane or dry screw, designed for continuous duty and low noise.
- Filtration: Dual-stage HEPA (99.97 % at 0.3 µm) and activated-carbon pre-filter to remove particulates and hydrocarbons.
- Moisture Control: Integrated water separator and automatic drain.
- Control System: PLC-based touchscreen with real-time vacuum level, flow, alarm status, and remote monitoring via Ethernet.
- Safety Features: Automatic shut-off on high temperature or low oil pressure, pressure relief valve, audible/visual alarms, and emergency manual bypass.
- Dimensions (typical 150 L/min unit): 1.8 m (L) × 0.8 m (W) × 1.5 m (H).
- Weight: Approximately 350 kg (dry).
- Noise Level: < 65 dB(A) at 1 m, housed in a sound-attenuated cabinet.

4	Quality standards	
4.1	Manufacturing standards	- Regulatory Compliance: ISO 13485, ISO 9001, CE-marked, FDA Class II medical device, meets NFPA 99 and ISO 10079-1 vacuum standards.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	

7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Rowing Machine**
Department	Physiotherapy	Room Name/No.	

1. General Description

A rowing machine simulates the motion of indoor rowing, providing a full-body cardiovascular workout while being low-impact on the joints. It's popular in gyms and rehab settings because it engages the legs, core, back, and arms in a smooth, repetitive stroke.

2. Composition

2.1. Rowing Machine 1 No.

3. Performance Specifications

3.1

- **Resistance Type**
  - Magnetic (quiet, adjustable 1–10 levels) or air (self-powered, higher intensity).

- **Frame**
  - Heavy-duty steel, powder-coated finish; weight capacity up to 150 kg.

- **Dimensions (L × W × H)**
  - 210 cm × 55 cm × 95 cm (foldable for storage).

- **Seat & Rail**
  - Padded, ergonomic seat on a 120 cm linear rail with low-friction rollers.

- **Foot Pedals**
  - Adjustable strap system, 3-position heel height, non-slip surface.

- **Handle**
  - Contoured, foam-covered grip with a 2-inch diameter for comfortable pull.

- **Display & Monitoring**
  - LCD screen showing time, distance, strokes per minute, total strokes, calories, and heart-rate

- **Power**
  - Battery-free (magnetic) or self-powered (air) – no

		external electricity needed. - **Weight** - 30 kg (magnetic) to 38 kg (air) – sturdy enough for stable operation. - **Foldability** - Quick-release mechanism allows the rail to fold upright, reducing footprint to ~100 cm × 55 cm × 150 cm. - **Noise Level** - < 55 dB (magnetic)
4	Quality standards	
4.1	Manufacturing standards	- Compliance - ISO 20957 (fitness equipment), CE-marked, RoHS-compliant.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Goniometer, assorted sizes**
Department	Out-Patient Department	Room Name/No.	N/A
1. General Description Goniometer for measurement of joint range of motion, assorted sizes and quantities			
2. Composition 2.1 Goniometer 12.5 Inches : 4 pcs 2.2 Goniometer 6 Inches : 4 pcs 2.3 Goniometer 8 Inches : 4 pcs			
3. Performance Specifications 3.1 Main Unit 3.1.1 Material — Transparent plastic with an opaque white behind the degree markings 3.2.1 Scale — Marked in inch and cm linear measurement.			

3.3.1	Scale reading	0°-180° in opposite directions in 1° increment
3.4.1	Packing	Each carton to be clearly marked **"O.T"** in bold letters and with the name and characteristics of the article and number of units per carton.
3.4.2		Pieces individually packed in a sealed polythene bag.
3.4.3		Packed in a box of 12 pieces.
3.4.4		The product should be imprinted. "GOK-MOH and NOT FOR SALE" in block bold letters
3.5.1	Labelling	Labeled with Manufacturer's name and address, country of origin and Batch No.
3.5.2		Manufacture dated indicated
4	Quality standards	
4.1	Manufacturing standards	IEC, or ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1	See Schedule	

Department	Maternity	Room Name/No.	N/A
Item Description			**Gynecological Couch**
1. General Description Gynecological couch for Obs and Gyns examination, complete with adjustable back rest and height. Robust mild steel on epoxy finish or chrome plated.			
2. Composition			
2.1	Main unit		
3. Physical Specifications			
3.1	Main Unit		
3.1.1	Type		2 section
3.1.2	Material of main unit		Mild steel epoxy coated or chrome plated
3.1.3	Height		Adjustable, mechanical
3.1.4	Back rest		Adjustable
3.1.5	Dimensions		2000mm (L) X 920 mm (W)
3.1.6	Mobile		With 4 rubber castors φ12.5cm, with central locking system and steering facility
3.1.7	Knee crutch		Provided, chrome plated
3.1.8	Douch funnel		Included 1 pc
3.1.9	Foot stool (2 step)		1 pc
3.1.10	Mattress		High density form mattress covered with leather imitation material or Vitapruf
3.1.11	Weight to handle		180 kg
4	Quality Standards		
4.1	Manufacturing standards		ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards		CE marked or any other internationally recognized documents
5	Delivery point		
5.1	See Schedule		Delivery point
6	Warranty		

6.1	Equipment	Minimum of one year after delivery
6.2	Equipment System	Nil

Department	OPD	Room Name/No.	OPD
Item Description			**Digital Infant Weighing scale**

1. General Description Infant weighing scale , Electronic type		
2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Material	Mild steel baked epoxy coated with stainless steel tray and an attached length measurement tape
	Type	Tray
3.1.2	Weight Measuring range	0-20Kg±5g
3.1.3	Measuring tape measurement	0-60cm
3.1.4	Display	LCD, clearly marked in Kg
3.17	Infant tray	Provided, stainless steel or plastic
3.1.8	Power	Internal rechargeable batteries, charging 240V,50 Hz
4	Quality standards	
4.2	Manufacturing standards	ISO 9001 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1		For inspection
6	Installation and testing Complete installation and set up of the machine as per manufacturer's instructions	
7	Commissioning	
7.1	Testing and commissioning of the machine to the satisfaction of the user.	
8	Warranty	
8.1	Equipment	Minimum of one year after commissioning on all parts.
8.2	Equipment System	Nil

Item Description			**Dental diagnostic kit**
Department	Dental	Room Name/No.	
1. General Description A dental diagnostic kit is a set of precision instruments used by dental professionals for the clinical examination, diagnosis, and assessment of oral conditions.			

2. Composition

2.1 Dental diagnostic kit 1 Set.

3. Performance Specifications

Case;

- Material; High quality AISI 420 or AISI 304 stainless steel, corrosion resistant, autoclavable.
- Dimensions; Standard sizes suitable for dental examination.
- Lid; Snap-lock, sealed for steam sterilization.
- Sterilization; Fully autoclavable, 134°C, 2 bar pressure.

Instruments;

- Mouth mirror with knurled handle, No. 4 & 5 concave - 2 pcs
- Dental explorer/probe(double ended), fine pointed - 2 pcs
- Periodontal probe, calibrated markings at 3, 6, 9 and 12 mm - 2 pcs
- Cotton pliers – 1 pc
- Dental Tweezer, fine -2 pcs
- Dental probe, Straight – 1 pc
- Dental floss threader – 1 pc
- Check retractor, stainless – 1 pc
- Carrying / storage cassette/pouch, autoclavable – 1 pc

Accessories;

- Sterilize gauze pads, 5 x 5 cm – 10 pcs
- Small instrument tray for loose items – 1 pc

4	Quality standards	
4.1	Manufacturing standards	Regulatory compliance; ISO 13485, ISO 9001, ISO 7153-1 certified instruments.
4.2	Conformity to standards	CE marked (Class I medical device).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Commissioning	
61	Testing and commissioning of the devices to the satisfaction of the user.	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning.

Item Description			**Dental extraction kit**
Department	Dental	Room Name/No.	

1. General Description

A compact, sterilizable set that contains all the hand tools required for routine tooth extractions, including forceps, elevators, and ancillary items.

2. Composition

2.1 Dental extraction kit 1 Set.

3. Performance Specifications

Case;

- Material; High quality surgical grade 304/316 stainless steel, corrosion resistant, autoclavable.
- Dimensions; Approx. 30 cm x 20 cm x 8 cm.
- Lid; Snap-lock, sealed for steam sterilization.

Instruments;
- Dental extraction forceps - 4 pcs (upper anterior, upper posterior, lower anterior, lower posterior).
- Dental elevators - 3 pcs (straight, curved left, curved right).
- Luxator - 1 pcs (fine, tapered tip)
- Periosteal elevator – 1 pc
- Root pick - 1 pc
- Surgical currete – 1 pc
- Dental mirror – 1 pc
- Cotton pliers – 1 pc
- Needle holder – 1 pc
- Suture scissors – 1 pc
- Scapel handle No. 3 – 1 pc
- Tweezers/tissue forceps – 1 pc
- Carrying / storage cassette/pouch, autoclavable – 1 pc

Sterilization;
- Full kit autoclavable with high temperature sterilization.

Accessories;
- Sterilize gauze pads, 5 x 5 cm – 10 pcs
- Disposable saliva ejector – 2 pcs
- Small instrument tray for loose items – 1 pc

4	Quality standards	
4.1	Manufacturing standards	Regulatory compliance; ISO 13485, ISO 9001, ISO 7153-1 certified instruments.
4.2	Conformity to standards	CE marked (Class I medical device).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Commissioning	
61	Testing and commissioning of the devices to the satisfaction of the user.	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning.

Item Description			**Dental restorative kit**
Department	Dental	Room Name/No.	

1. General Description

A compact, autoclavable tray that contains all the hand pieces and consumables needed for routine direct restorations (amalgam, composite, glass-ionomer).

2. Composition

2.1 Dental extraction kit 1 Set.

3. Performance Specifications

Case;

- Material; High quality surgical grade 304/316 stainless steel, corrosion resistant, autoclavable.
- Dimensions; Approx. 30 cm x 20 cm x 8 cm.
- Lid; Snap-lock, sealed for steam sterilization.

Instruments;

I. Amalgam carrier – 1 pc.
II. Amalgam condenser set (small, medium, large) – 3 pcs
III. Composite placement instrument (plastic, non-stick) – 1 pc.
IV. Burnisher set (flat, round) -2 pcs
V. Carver (double-ended, fine & course) – 1 pc.
VI. Matrix retainer with assorted bands – 1 set.
VII. Wedge assortment (plastic, assorted sizes) – 5pcs.
VIII. Dental explorer & probe – 2 pcs.
IX. Spatula – 1 pc
X. Mouth mirror & handle – 1 pc.
XI. Excavator – 2pcs
XII. Tweezer/college pliers – 1 pc
XIII. Scissors – 1 pair

- Cotton pliers – 1 pc

Consumables;

- Amalgam capsules (standard sizes) – 10 pcs
- Composite syringes (shade A2) – 5 pcs
- Glass-ionomer cement kit – 1 set
- Disposable mixing pads – 10 pcs
- Sterilize gauze pads, 5 x 5 cm – 10pcs

- Tray, autoclavable – 1 pc

4	Quality standards	
4.1	Manufacturing standards	Regulatory compliance; ISO 13485, ISO 9001, ISO 7153-1 certified instruments.
4.2	Conformity to standards	CE marked (Class I medical device).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Commissioning	
61	Testing and commissioning of the devices to the satisfaction of the user.	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning.

Item Description			**Oral surgery kit**
Department	Dental	Room Name/No.	

1. General Description

A set of surgical instruments used by dentists, oral surgeons, and dental professionals to perform extractions, soft-tissue procedures, minor surgical interventions and other related intra-oral operations..

2. Composition

2.1	Oral surgery kit	1 Set.

3. Performance Specifications

Case;

- Material; Autoclavable polypropylene with silicone-lined compartments.
- Dimensions; Approx. 28 cm x 18 x 8 cm.
- Weight; Approx. 800 g.

Instruments (all 304/316 surgical grade stainless steel, fully autoclavable), corrosion resistant.

I. Scapel handle (#3) – 1 pc
II. Surgical scissors (straight & curved) – 2 pcs
III. Suture scissors – 1 pc
IV. Periosteal Elevator – 2 pcs
V. Dental elevator & luxator – 3 pcs (straight, left curved, right curved)
VI. Extraction forceps – 4 pcs (upper anterior, upper posterior, lower anterior, lower posterior
VII. Root elevator -1 pc
VIII. Needle holder, serrated jaws– 1 pc
IX. Artery forceps/mosquito clamps – 2 pcs
X. Bone ronguers – 2 pcs
XI. Bone files, smooth – 1 pc
XII. Surgical Curette – 1 pc
XIII. Cheek retractor – 1pc
XIV. Mouth mirrors – 1 pc
XV. Aspiration syringe – 1 pc
XVI. Cotton pliers – 1 pc
XVII. Hemostatic forceps – 1 pc

Accessories;

- Sterilize gauze pads, 5 x 5 cm – 10 pcs
- Disposable saliva ejector – 2 pcs
- Small instrument tray for loose items – 1 pc

Sterilization;

- Full set autoclavable at 121°C, 15 psi for 15 min.

4	Quality standards	
4.1	Manufacturing standards	Regulatory compliance; ISO 13485, ISO 9001
4.2	Conformity to standards	CE marked (Class I medical device).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Commissioning	
61	Testing and commissioning of the devices to the satisfaction of the user.	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning.

Item Description			**Endodontic set**
Department	Dental	Room Name/No.	

1. General Description

A compact sterilizable tray that holds the hand-pieces and consumables required for routine root-canal therapy.

2. Composition

2.1 Endodontic set 1 Set.

3. Performance Specifications

Case;

- Material; Autoclavable polypropylene with silicone-lined compartments.
- Dimensions; Approx. 30 cm x 20 x 10 cm.
- Weight; Approx. 800 g.
- Lid: Snap-lock, sealed for steam sterilization.

Instruments (all 304/316 surgical grade stainless steel, fully autoclavable), corrosion resistant.

i. Endodontic explorer – 1 pc
ii. Endodontic probe – 1 pc
iii. Endodontic spoon (double-ended) – 1 pc
iv. Endodontic file holder – 1 pc
v. Endodontic plugger set (small, medium, large) – 3 pcs
vi. Endodontic spreader set (small, medium, large) – 3 pcs
vii. Grotto-type endodontic files (size 15-40, 0.02 taper) 1 set
viii. Rotary hand-piece (compatible with ISO-size shank) – 1 pc
ix. Endodontic syringe (30 G, 1 ml) – 2 pc

- Endodontic irrigating tip (single-use) – 5 pcs
- Endodontic stopper set – 5 pcs
- Endodontic ruler (mm) – 1 pc

Consumables;

- Sodium hypochlorite solution (5ml) – 5pcs
- EDTA gel (10ml) – 2pcs
- Guttapercha points (assorted sizes) – 1 box
- Paper points (assorted sizes) – 1 box
- Sterilize gauze pads, 5 x 5 cm – 10 pcs

Sterilization;

- Full set autoclavable at 121°C, 15 psi for 15 min.

4	Quality standards	
4.1	Manufacturing standards	Regulatory compliance; ISO 13485, ISO 9001
4.2	Conformity to standards	CE marked (Class I medical device).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Commissioning	

61	Testing and commissioning of the devices to the satisfaction of the user.	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning.

Item Description			**Speculum set**
Department	Theatre	Room Name/No.	

1. General Description

A stainless steel speculum set provides the essential instruments for vagina, rectal, or nasal examinations.

2. Composition

2.1	Speculum set	1 Set.

3. Performance Specifications

- Material; Surgical grade 304/316 stainless steel, fully autoclavable.

Components;

- Vaginal speculum – 2 pcs (upper and lower blades) with adjustable lock; sizes: small (30mm), medium (35mm), large (40mm).
- Rectal speculum – short, wide blades; sizes: pediatric (20mm), and adult (30mm).
- Nasal speculum – small, hinged blades; sizes: pediatric (10mm), adult (15mm).
- Handle – Ergonomic, textured grip for secure hold.
- Locking mechanism – Ratchet or screw lock to maintain blade position.
- Cleaning brush – Nylon bristle brush for lumen cleaning.
- Dimensions (Approx.)
- Vaginal speculum blade length – 70 mm
- Rectal speculum blade length – 55 mm
- Nasal speculum blade length – 30 mm
- Overall set dimensions (case) 200 mm x 120 mm x 40 mm.

- Weight; Approx. 400 g
- Sterilization: Autoclavable at high temperatures.
- Compatible with ultrasonic cleaners and chemical sterilants.
- Rigid autoclavable polypropylene case with silicone inserts to secure each instrument.

4	Quality standards	
4.1	Manufacturing standards	Regulatory compliance; ISO 13485, ISO 9001
4.2	Conformity to standards	CE marked (Class I medical device).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Commissioning	
61	Testing and commissioning of the devices to the satisfaction of the user.	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning.

Item Description			**Dartboard & Arrow**
Department	Physiotherapy	Room Name/No.	
1. General Description A standard dartboard and arrows are a classic combo for fun and skill-building			
2. Composition 2.1. Dartboard & Arrow – 1 Set.			
3. Performance Specifications 3.1 Dartboard: - Type: Circular target with numbered sections (1-20) - Material: Sisal fiber or paper (bristle or electronic boards) - Size: Standard diameter: 451mm (17.75 inches) - Segments: 20 numbered sections, bullseye, and outer bull - Height: Typically mounted with bullseye at 1.73m (5'8") high Darts: - Type: Pointed projectiles with feathers or plastic flights - Material: Tungsten, brass, or plastic - Weight: About 20-24 grams - Length: Around 15-20 cm (6-8 inches) - Tip: Steel or soft tip (for electronic boards)			
4 Delivery point 4.1 See Schedule For inspection and testing			
5 Warranty ; Minimum of one year			

Department	OPD	Room Name/No.	Emergency
Item Description			**Laryngoscope with blade, adult & Pead**
1. General Description Laryngoscope with blade for adult & Pead			
2. Composition 2.1 Main unit Handle with battery Blades (Adult & Pead) Casing			
3. Performance Specifications 3.1 Main Unit 3.1.1 Material All stainless steel			

3.1.2	Handle with battery	Stainless steel
3.1.3	Blade	Mackintosh type, adult
3.1.4	Blade size, adult	3 Sizes: 100mm, 110-135mm, 135-155mm
3.1.4	Blade size, Pead	3 Sizes: Pead
3.1.5	Power requirements	Dry cell battery, to be provided
3.1.6	Casing	Provided
4	Spare	
4.1	Spare bulb	2 pcs
5	Quality standards	
5.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
5.2	Conformity to standards	CE marked or any other internationally recognized documents

Item Description			**General Purpose Trolley**
Department		Room Name/No.	

1. General Description

A sturdy, mobile platform designed for the safe transport and storage of medical supplies, equipment, and patient items throughout a healthcare facility. Constructed from corrosion-resistant materials, the trolley offers adjustable shelves, smooth-running wheels, and ergonomic handles to support everyday clinical workflow.

2. Composition

2.1. General Purpose Trolley – 1 No.

3. Performance Specifications

3.1

- Frame Material: Heavy-duty stainless-steel (AISI 304) or powder-coated steel, welded construction, 1.5 mm wall thickness.
- Overall Dimensions (L × W × H): About 900 mm × 600 mm × 900 mm.
- Load Capacity: About 120 kg.
- Shelves: 3-4 removable.
- Surface Finish: Smooth, non-porous, easy-clean finish; antimicrobial coating optional.
- Wheels: 125 mm polyurethane caster wheels (two with brakes, two swivel) with brake-lock mechanism.
- Handle: Ergonomic, push-handle (850 mm to 1 050 mm) with integrated hand-grip.
- Side Rails: Reinforced side rails (25 mm height) to prevent items from falling.
- Mounting: Integrated IV pole sockets, equipment brackets, and accessory rails (e.g., for monitors, pumps).
- Weight: About 25 kg
- Cleaning: Fully autoclavable components; surface compatible with standard hospital disinfectants (e.g., chlorine-based, alcohol).
- Lockable drawers (2-4) with key or RFID access.
- Integrated power strip.
- Cleaning: Fully *autoclavable* components; surface compatible with standard hospital disinfectants (e.g., chlorine-based, alcohol).

4	Quality standards	
4.1	Manufacturing	- Compliance: Meets ISO 9001 quality standards; CE-marked for

	standards	medical devices; ISO 13485.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Department	OPD	Room Name/No.	Consultation
Item Description			**MUAC tape**
1. General Description MUAC tape for Adult and Child, Graduated in millimeters			
2. Composition			
2.1	MUAC Tape Child	1 No.	
	MUAC Tape Adult	1 No.	
3. Performance Specifications			
3.1	MUAC Tape Child	Colour Coded Red, Yellow and Green Graduated in mm Red: 0- 11.5 cm Yellow: 11.5 – 12.5 cm Green: above 12,5 cm	
3.2	MUAC tape Adult	Up to 50 cm	
4	Quality standards		
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards	
4.2	Conformity to standards	Complies with UNICEF/ WHO standards. CE marked or any other internationally recognized documents	

Department	OPD	Room Name/No.	Emergency
Item Description			**Nebulizer**

1. General Description Nebulizer, mounted on a mobile cart		
2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Type	Ultrasonic type
3.1.2	Nebulizing rate	5 l/min
3.1.3	Mist particle	1 to 5 micron
3.1.4	Timer	1 to 30 Minute
3.1.5	Mist feed hose, adult	2 pcs
3.1.6	Mist feed hose, Pead	2 pcs
3.1.7	Inhalation mask, adult	10 pcs
3.1.8	Inhalation mask, pead	10 pcs
3.1.9	Mouth piece	10 pcs
3.1.10	Diaphragm	5 pcs
3.1.11	Water supply bottle (1L)	1 pc
4	Physical characteristics	
4.1	Main unit	Mounted on mobile cart
4.2	Dimensions	
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase
5.2	Ambient temperature	10^{o} C to 40^{o} C
5.3	Relative humidity	40% to 90%
6	Accessories	
6.1	Automatic Voltage Regulator (AVR)	
6.1.1	Capacity	Over VA of the main Unit
6.1.2	Input	Ac 240V, 50Hz, Single phase ± 15%
6.1.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %
7	Spare part	
7.1	Air filter	10 pcs
8	Quality standards	
8.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
8.2	Conformity to standards	CE marked or any other internationally recognized documents
9	Local back up service	
9.1	Available	Should be available locally
9.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
10	Delivery point	
10.1		For inspection, installation and commissioning
11	Pre installation requirements	
11.1	Nil	
12	Installation and testing	

12.1	Complete installation and set up of the machine at Otaya DH as per manufacturer's instructions	
13	Training	
13.1	User Training	On site user training on operation and daily up keep
13.2	Maintenance training	On site maintenance training on preventive maintenance
14	Technical documentations	
14.1	User manuals	2 Sets
14.2	Service Manual	1 Set
14.3	Drawings	Nil
15	Commissioning	
15.1	Testing and commissioning of the machine to the satisfaction of the user.	
16	Warranty	
16.1	Equipment	Minimum of one year after commissioning on all parts.
16.2	Equipment System	Nil

Item Description			**Oxygen concentrator**
Department	OPD	Room Name/No.	N/A

1. General Description

Oxygen concentrator capable of extracting medical grade oxygen from atmospheric air using PSA system. The unit should be mobile on castors and capable of supplying oxygen to two patients at a time. It should incorporate oxygen monitor facility complete with patient tubing's.

2. Composition

2.1	Main Unit	

3. Performance Specifications

3.1	Main Unit	Model in current production
3.1.1	Type	Dual flow with separate flow meter
3.1.2	Purity	Medical grade oxygen at minimum 95% Dry and Oil free Oxygen at rated flow rate Purity to be constant and all flow rates
3.1.3	Flow rate	10 lpm
3.1.4	Safety	Shutdown with power failure, high or low oxygen purity
3.1.5	Oxygen purity monitor	To be provided
3.1.6	Humidifier	To be provided
3.1.7	Patient tubing	To be provided
4	Physical characteristics	
4.1	Main unit Dimensions	Mobile on four castors, 2 with brakes. 800mm H X 50mcm W X 400mm D
5	Quality standards	
5.1	Manufacturing standards	ISO 80601-2-69:2020 Medical electrical equipment — Part 2-69: Particular requirements for the basic safety and essential performance of oxygen concentrator equipment or any other equal and equivalent internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents

6	Local back up service	
6.1	Available	Should be available locally
6.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
7	Delivery point	
7.1	See Schedule	For inspection and testing
8	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
9	Training	
9.1	User Training	On site user training on operation and daily up keep
9.2	Maintenance training	On-site maintenance training on preventive maintenance
10	Technical documentations	
10.1	User manuals	2 Sets
10.2	Service Manual	1 Set
10.3	Drawings	Nil
11	Commissioning	
11.1	Testing and commissioning of the machine to the satisfaction of the user.	
12	Warranty	
12.1	Equipment	Minimum of one year after commissioning on all parts.
12.2	Equipment System	Nil

Item Description			**Oxygen pressure regulators complete with flow meter and humidifier**
Department	OPD	Room Name/No.	Emergency

General Description

Supply and delivery of integral assemble of medical oxygen pressure regulator complete with flow meter and humidifiers

2.	**Detailed technical Specifications/ Description of requirements**	
2.1	***Oxygen pressure regulator***	
2.1.1	Purpose of use	To reduce the pressure of medical oxygen from the high pressure compressed medical gas cylinder to lower working pressures of about 4 bar ± 1 bars at ambient temperature
2.1.2	Design	Constructed from brass/ stainless steel or equivalent to BS 15001:2011 Single or dual stage regulator Piston or diaphragm design Complete with inlet, outlet connection and high pressure and low pressure manometers
2.1.3	Inlet	Bull nose connection to BS 341 High pressure manometer (50-250 bars) to display available gas reserve of the gas cylinder
2.1.4	Outlet	Barb connection Low pressure manometer With flow/ pressure regulator to monitor/regulate working pressure

		(3-5 Bars) (Flow setting up to 15 lpm variant
2.1.5	Safety relive value	Internal safety relief valve to be included
2.1.6	Standards	Must comply with standards stated Proof of compliance is required
2.1.7	Regulation	Must be registered by Pharmacy and poison Board (PPB) of Kenya Valid proof of registration must be provided
2.2	***Flow meter***	
2.2.1	Purpose	For Measuring and regulating the flow of medical oxygen
2.2.2	Construction	Transparent material, Thorpe tube type to BS15001:2011. Complete with flow control knob Graduated in liters per min
2.2.3	Flow rate range	0-15 lpm
2.2.4	Standards	Must comply with standards stated Proof of compliance is required
2.2.5	Regulation	Must be registered by Pharmacy and poison Board (PPB) of Kenya Valid proof of registration must be provided
2.3	***humidifier***	
2.3.1	Purpose	For increasing the humidity of oxygen being delivered into the inspiratory airway
2.3.2	Construction	Consisting of graduated bottle container with detachable lid and a tube protruding to the bottom level and connected to the breathing circuit. The graduation on the bottle shall be in metric and imperial units and shall show the maximum and minimum water level. The bottle shall be constructed from transparent plastic material to BS15001:2011 and shall be unbreakable and easily disinfected and reusable.
2.3.3	Type	The humidifier shall be non-heated / bottle through humidifier type
2.2.4	Inlet	Flow meter connection
2.2.5	Outlet	Barbed patient breathing circuit
2.3.6	System valve	It shall incorporate a pressure relief safety valve
2.3.7	Capacity	Capacity shall not be less than 150 litres or exceed 300 litres
2.3.8	Standards	Must comply with standards stated Proof of compliance is required
2.3.9	Regulation	Must be registered by Pharmacy and poison Board (PPB) of Kenya /KEBS Valid proof of registration must be provided
3.0	***Delivery point***	
		See Schedule

Item Description			**Oxygen flow meter with humidifier, wall type**
Department	OPD	Room Name/No.	Emergency

General Description

Supply and delivery of integral assemble of oxygen flow meter with humidifier, wall type, for connection to piped medical oxygen system

2. **Detailed technical Specifications/ Description of requirements**

2.1 ***Flow meter wall type***

2.1.1	Purpose	For Measuring and regulating the flow of medical oxygen from wall oxygen terminal unit
2.1.2	Construction	Transparent material, Thorpe tube type to BS15001:2011, complete with flow control knob Graduated in liters per min
2.1.3	Flow rate range	0-15 lpm
2.1.4	Inlet	Connection for medical Oxygen terminal unit, BS type Inlet pressure range 3.4 to 4.5 bars
2.1.5	Outlet	Connection for humidifier
2.1.6	Standards	Must comply with standards stated above Proof of compliance is required Certificate of calibration and inspection to be provided
2.1.7	Regulation	Must be registered by Pharmacy and poison Board (PPB) of Kenya Valid proof of registration must be provided

2.2 ***humidifier***

2.2.1	Purpose	For increasing the humidity of oxygen being delivered into the inspiratory airway
2.2.2	Construction	Consisting of graduated bottle container with detachable lid and a tube protruding to the bottom level and connected to the breathing circuit. The graduation on the bottle shall be in metric and imperial units and shall show the maximum and minimum water level. The bottle shall be constructed from transparent plastic material to BS15001:2011 and shall be unbreakable and easily disinfected and reusable.
2.2.3	Type	The humidifier shall be non-heated / bottle through humidifier type
2.2.4	Inlet	Flow meter connection
2.2.5	Outlet	Barbed patient breathing circuit
2.2.6	System valve	It shall incorporate a pressure relief safety valve
2.2.7	Capacity	Capacity shall not be less than 150 litres or exceed 300 litres

2.2.8	Standards	Must comply with standards stated Proof of compliance is required
2.2.9	Regulation	Must be registered by Pharmacy and poison Board (PPB) of Kenya /KEBS Valid proof of registration must be provided
3.0	***User manuals***	To be provided in English
4.0	**Distribution schedule**	See scheduler

Department	OPD	Room Name/No.	Theatre
Item Description			**Patient Monitor 5 Parameters**

1. General Description

Patient monitor, 5 parameters suitable for use in critical care. Should be capable of continuous measuring/ monitoring of the following parameters in adults, neonatal and pediatric.

- ECG
- SpO_2
- NIBP/IBP
- RESP
- TEMP

The monitor shall be mounted on a mobile cart.

2. Composition

2.1 Main unit

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	
3.2	ECG monitoring	
3.2.1	Lead	3 Leads, 5 Leads, and Auto configuration
3.2.2	Lead selection	3- Lead: I,II,III 5- Lead I,II,III, aVR,aVL, aVF, V
3.2.3	Synchronization analysis	Provided
3.2.4	Sweep Speed	6.25 mm/s to 50 mm/s adjustable
3.2.5	Heart Rate	15 to 300 bpm accuracy ± 10%
3.2.6	ECG cable	Provided, 1 No.
3.2.7	CMRR	Provided
3.2.8	Arrhythmia Analysis	Provided
3.2.9	Pacemaker Detection	Provided
3.2.10	Accessories	ECG connection lead 2 sets Electrodes :1 Box,

		Jel: 2 containers,
3.3	SPO_2	
3.3.1	Measurement range	0 to 100%
3.3.2	Accuracy	± 1%
3.3.4	Heart Rate	20 to 350 (for adult and Pead's), bpm accuracy ±1 bpm
3.3.5	Accessories	SPO_2 connection cable 2 No. SPO_2 Sensors. Adult 2 No. Reusable, Finger Pediatric 2 No. Reusable, Finger Neonatal 2 No. Reusable
3.4	NIBP	
3.4.1	Method/Technology	Automatic Oscillo metric or equal and equivalent technology
3.4.2	Mode	Manual/Auto/continuous
3.4.3	Measuring units	mmHg/kPa
3.4.4	Pressure types	Systolic. Diastolic, Mean
3.4.5	Systolic Range	Adult: 40 to 280 mmHg Pead: 40 to 200 mm Hg
3.5.6	Diastolic Range	Adult: 10 to 215 mmHg Pead: 10 to 150 mm Hg
3.4.7	Over pressure protection	Provided, including Audio and Visual Alarm
3.4.8	Accuracy	± 2bpm
3.4.9	Accessories	BP Cuff, Adult, Large 2 No. BP Cuff, Adult, Medium, 2 No. BP cuff, Pead 2 No.
3.5	IBP	
3.5.2	Mode	Manual/Auto/continuous
3.5.3	Measuring units	mmHg/kPa
3.5.4	Pressure types	Systolic. Diastolic, Mean
3.5.5	Systolic Range	Adult: 40 to 280 mmHg Pead : 40 to 200 mm Hg
3.5.6	Diastolic Range	Adult: 10 to 215 mmHg Pead: 10 to 150 mm Hg
3.5.7	Over pressure protection	Provided, to include Audio and Visual Alarm
3.5.8	Accuracy	± 1bpm
3.6	RESP	
3.6.1	Method	Side stream
3.6.2	Measurement Range	0 to 190 mm Hg, (at 760 mm Hg)
3.6.3	Accuracy	± 2mmHg
3.6.4	Capnography waveform	To be provided, including respiratory rate
3.6.5	Accessory	Nasal prongs, pick up electrodes and other necessary accessories to be provided, 10 Set each
3.7	TEMP	
3.7.1	Method	RTD technology or better
3.7.2	Measurement Range	30°C to 50°C,
3.7.3	Accuracy	± 0.1°C

3.7.4	Accessories	Temperature connection cable and probe, reusable 5 sets
3.8	Display	TFT/LED Minimum screen size 12.1", touch screen
3.8.1	Resolution	Minimum HD 1080p, 10 channels
3.9	Safety requirements	
3.9.1	Alarm function	Audible and Visual, adjustable screen light and sound
3.9.2	Safety	Self-check: audible and visual alarm
3.9.3	Lead fault	Audible and visual alarm
3.9.4	Paddle fault	Audible and visual alarm
3.9.5	ECG cable fault	Audible and visual alarm
3.9.6	Heart rate alarms	Audible and visual alarm
3.9.7	Low Battery	Audible and visual alarm
3.9.8	Power Failure	Audible and visual alarm
3.10	Recorder	Inbuilt, thermal array type or equivalent, Min. 3 Channels
3.10.1	Paper Speed	Two speed selectable, 6.25 mm/sec to 50 mm/sec approximately
3.10.2	Accessories	Thermal head cleaner pin 1 No. Grounding Lead 1 No. ECG Recording papers: 10 rolls
3.11	Storage	Capable of storing patient data.
3.11.1	Internal Memory	250 GB
3.11.2	Extended Memory	SD memory card 64GB
3.11.1	Interface	Capable of transferring stored data to a PC for viewing, analysis or printing. USB, RJ 45, DICOM 3 compatible, Port for external printer,
3.12	Recorder	Inbuilt, thermal array or equivalent Two speed, selectable Port for external printer
3.13	Input	In built with provision for connection of external Keyboard.
4	Physical characteristics	
4.1	Main unit	
4.2	Dimensions	Portable with a recharge dock or equivalent recharging unit and mounted on a mobile cart. The cart shall have four castors Ø100 mm with brakes. It shall be constructed from robust anti-rust material.
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase, 3 Pin Plug, 3m long cord BS type with PE
5.2	Back up supply	Internal rechargeable batteries (SLA), to last at least three hours
5.3	Ambient temperature	10° C to 40° C
5.4	Relative humidity	40% to 90%
6	Spare parts/ Consumables	
6.1	Fuses	1 Set
6.2	Battery pack	1 Set
7	Quality standards	

7.1	Manufacturing standards IEC 80601-2-49:2018 Medical electrical equipment — Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment ISO 13485:2016: Medical devices — Quality management systems — Requirements for regulatory purposes ISO 9001
8 8.1 8.2	Local back up service Available Should be available locally Capacity to service equipment
9 9.1 9.2	Delivery point See Schedule For inspection and testing Nil
10	Pre installation requirements Nil
11	Installation and testing Complete installation and set up of the machine as per manufacturer's instructions
12 12.1 12.2	Training User Training On site user training on operation and daily up keep Maintenance training On site maintenance training on preventive maintenance
13 13.1 13.2 13.3	Technical documentations User manuals 2 Sets Service Manual 1 Set Drawings
14 14.1	Commissioning Testing and commissioning of the machine to the satisfaction of the user.
15 15.1 15.2	Warranty Equipment Minimum of one year after commissioning on all parts. Equipment System

Department	OPD	Room Name/No.	Emergency
Item Description			**Patient Monitor, Portable**

1. General Description

Portable patients monitor suitable for use in critical care. Should be capable of continuous measuring/ monitoring of the following parameters in adults, neonatal and pediatric.

- SpO_2
- NIBP
- RESP
- TEMP

The monitor shall be mounted on a mobile cart.

2. Composition

2.1	Main unit	
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	
3.2	SPO_2	
3.2.1	Measurement range	0 to 100%
3.2.2	Accuracy	± 1%
3.2.4	Heart Rate	20 to 350 (for adult and Pead's), bpm accuracy ±1 bpm
3.2.5	Accessories	SPO_2 connection cable 2 No. SPO_2 Sensors. Adult 2 No. Reusable, Finger Pediatric 2 No. Reusable, Finger Neonatal 2 No. Reusable
3.3	NIBP	
3.3.1	Method/Technology	Automatic Oscillo metric or equal and equivalent technology
3.3.2	Mode	Manual/Auto/continuous
3.3.3	Measuring units	mmHg/kPa
3.3.4	Pressure types	Systolic. Diastolic, Mean
3.3.5	Systolic Range	Adult: 40 to 280 mmHg Pead: 40 to 200 mm Hg
3.3.6	Diastolic Range	Adult: 10 to 215 mmHg Pead: 10 to 150 mm Hg
3.3.7	Over pressure protection	Provided, including Audio and Visual Alarm
3.3.8	Accuracy	± 2bpm
3.3.9	Accessories	BP Cuff, Adult, Large 2 No. BP Cuff, Adult, Medium, 2 No. BP cuff, Pead 2 No.
3.4	RESP	
3.4.1	Method	Side stream
3.4.2	Measurement Range	0 to 190 mm Hg, (at 760 mm Hg)
3.4.3	Accuracy	± 2mmHg
3.4.4	Capnography waveform	To be provided, including respiratory rate
3.4.5	Accessory	Nasal prongs, pick up electrodes and other necessary accessories to be provided, 10 Set each
3.5	TEMP	
3.5.1	Method	RTD technology or better
3.5.2	Measurement Range	30°C to 50°C,
3.5.3	Accuracy	± 0.1°C
3.5.4	Accessories	Temperature connection cable and probe, reusable 5 sets
3.6	Display	TFT/LED Minimum screen size 12.1", touch screen
3.6.1	Resolution	Minimum HD 1080p, 10 channels
3.7	Safety requirements	
3.7.1	Alarm function	Audible and Visual, adjustable screen light and sound
3.7.2	Safety	Self-check: audible and visual alarm
3.7.3	Lead fault	Audible and visual alarm
3.7.4	Paddle fault	Audible and visual alarm
3.7.5	ECG cable fault	Audible and visual alarm
3.7.6	Heart rate alarms	Audible and visual alarm

3.7.7	Low Battery	Audible and visual alarm
3.7.8	Power Failure	Audible and visual alarm
3.8	Recorder	Inbuilt, thermal array type or equivalent, Min. 3 Channels
3.8.1	Paper Speed	Two speed selectable, 6.25 mm/sec to 50 mm/sec approximately
3.8.2	Accessories	Thermal head cleaner pin 1 No. Grounding Lead 1 No. ECG Recording papers: 10 rolls
3.9	Storage	Capable of storing patient data.
3.9.1	Internal Memory	250 GB
3.9.2	Extended Memory	SD memory card 64GB
3.9.1	Interface	Capable of transferring stored data to a PC for viewing, analysis or printing. USB, RJ 45, DICOM 3 compatible, Port for external printer,
3.10	Recorder	Inbuilt, thermal array or equivalent Two speed, selectable Port for external printer
3.11	Input	In built with provision for connection of external Keyboard.
4	Physical characteristics	
4.1	Main unit	
4.2	Dimensions	Portable with a recharge dock or equivalent recharging unit and mounted on a mobile cart. The cart shall have four castors Ø100 mm with brakes. It shall be constructed from robust anti-rust material.
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase, 3 Pin Plug, 3m long cord BS type with PE
5.2	Back up supply	Internal rechargeable batteries (SLA), to last at least three hours
5.3	Ambient temperature	10^{o} C to 40^{o} C
5.4	Relative humidity	40% to 90%
6	Spare parts/ Consumables	
6.1	Fuses	1 Set
6.2	Battery pack	1 Set
7	Quality standards	
7.1	Manufacturing standards	IEC 80601-2-49:2018 Medical electrical equipment — Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment ISO 13485:2016: Medical devices — Quality management systems — Requirements for regulatory purposes ISO 9001
7.2	Conformity to standards	CE marked/ FDA approved or any other equal and equivalent internationally recognized documents
8	Local back up service	
8.1	Available	Should be available locally
8.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, consumables and qualified and skilled technical staff
9	Delivery point	
9.1	See Schedule	For inspection and testing
9.2	Nil	
10	Pre installation requirements	

	Nil	
11	Installation and testing Complete installation and set up of the machine as per manufacturer's instructions	
12	Training	
12.1	User Training	On site user training on operation and daily up keep
12.2	Maintenance training	On site maintenance training on preventive maintenance
13	Technical documentations	
13.1	User manuals	2 Sets
13.2	Service Manual	1 Set
13.3	Drawings	Nil
14	Commissioning	
14.1	Testing and commissioning of the machine to the satisfaction of the user.	
15	Warranty	
15.1	Equipment	Minimum of one year after commissioning on all parts.
15.2	Equipment System	Nil

Department	OPD	Room Name/No.	Emergency
Item Description			**Pulse Oximeter, Portable**
1. General Description Portable Pulse Oximeter for use in emergency wards. Should be capable of continuous measuring/ monitoring of SpO_2 and pulse rate in adults, neonatal and pediatric.			
2. Composition 2.1 Main unit			
3. Performance Specifications			
3.1	Main Unit	Portable type	
3.1.1	The unit should be a model or type on current production and capable of measuring/monitoring SpO_2 and pulse rate		
3.1.2	SpO_2,	0 - 100%	
3.1.3	Accuracy	70-80% ± 3 digits, 80- 100%± 2 digits	
3.1.4	Pulse Rate	30-300 bpm ±	
3.1.5	Accuracy	± 1 pulse per minute	
3.1.5	Alarm	High and low limit of SpO_2 and Pulse rate	
3.1.6	Battery	Built in rechargeable battery about 4 hours operation	
4	Operating environment		
4.1	Power Requirements	240V, A/c 50 Hz, Single phase, 3 Pin Plug, 3m long cord BS type with PE	
5	Accessories		
5.1	Reusable probe for adult	2 pcs	
5.2	Reusable probe for Pead's	2 pcs	
5.3	Reusable probe for neonate	2 pcs	
6	Quality standards		
6.1	Manufacturing standards	ISO 80601-2-61:2017 Medical electrical equipment — Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment or any other equal and equivalent internationally recognized standards	

6.2	Conformity to standards	CE marked/ FDA approved or any other internationally recognized documents

Department	OPD	Room Name/No.	Emergency
Item Description			**Refrigerator, Pharmaceutical**
1. General Description Refrigerator, Pharmaceutical			
2. Composition 2.1 Main unit			
3. Performance Specifications 3.1 Main Unit			
3.1.1	Material	Insulated galvanized steel, Spray colour finish	
3.1.2	Type	Compressor, electrical	
3.1.3	Cooling	Forced Air cooling	
3.1.4	Door	Single door, glass type	
3.1.5	Total net capacity	Approx. 226 litres	
3.1.6	Temperatures range	+2°C to + 8°C, Accurancy±1°C	
3.1.7	Ambient temperature	10 ° C to 35°C	
3.1.8	Shelves	4 No. adjustable and extractable	
3.1.9	Thermometer	Digital, external mounted, with temperature record history	
3.1.10	Control	Electronic, Microprocessor based, Intelligent type, NTC sensor	
3.1.11	Refrigerant	CFC free	
3.1.12	Display	Touch screen type, graphic temperature	
3.1.13	Alarm	Provided, audible and visible	
3.1.14	Defrost	Automatic	
3.1.15	Access control	Provided, secure type	
3.1.16	Internal Lamp	LED	
3.1.17	Dimensions	Approximately D600 x W 625 x 1700 H (mm)	
3.1.18	Power	240V, 50 Hz, AC	
4	Accessories		
4.1	Nil		
5	Quality standards		
5.1	Manufacturing standards	ISO 9001	
5.2	Conformity to standards	CE marked or any other internationally recognized documents	
6	Delivery point		
6.1	See Schedule	For inspection and testing	
6.2	Nil		
7	Warranty		
7.1	Equipment	Minimum of one year after commissioning on all parts.	
7.2	Equipment System	Nil	
8	Accessories		
8.1	Automatic Voltage Regulator (AVR)		
8.1.1	Capacity	Over VA of the main Unit	
8.1.2	Input	Ac 240V, 50Hz, Single phase ± 15%	
8.1.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %	

Department	OPD	Room Name/No.	N/A
Item Description			**Refrigerator, Food**

1. General Description Refrigerator, food.		
2. Composition 2.1	Main unit	
3. Performance Specifications 3.1	Main Unit	
3.1.1	Material	Insulated galvanized steel
3.1.2	Type	Compressor, electrical, forced air circulation
3.1.3	Door	Two doors, freezer and lower compartment with internal LED light
3.1.4	Total net capacity	350 litres
3.1.5	Temperatures range	-12°C to + 10°C adjustable
3.1.6	Ambient temperature	10 ° Cto 35°C
3.1.7	Shelves	Provided, adjustable and extractable
3.1.8	Thermometer	Digital, external mounted, with temperature record history
3.1.9	Control	Electronic, Microprocessor based
3.1.10	Refrigerant	CFC free
3.1.11	Alarm	Provided, audible and visible
3.1.12	Dimensions	Approximately D630x W 1200 x 1600H (mm)
3.1.13	Power	240V, 50 Hz, AC
4	Accessories	
4.1	Nil	
5	Quality standards	
5.1	Manufacturing standards	ISO 9001
5.2	Conformity to standards	CE marked or any other internationally recognized documents
6	Delivery point	
6.1	See Schedule	For inspection and testing
6.2	Nil	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning on all parts.
7.2	Equipment System	Nil
8	Accessories	
8.1	Automatic Voltage Regulator (AVR)	
8.1.1	Capacity	Over VA of the main Unit
8.1.2	Input	Ac 240V, 50Hz, Single phase ± 15%
8.1.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %

Item Description			**Endoscopic laryngoscope**
Department		Room Name/No.	
1. General Description An endoscopic laryngoscope is a thin, flexible or rigid fiber-optic/video system used to visualize the larynx, vocal cords, and upper airway for diagnostic and therapeutic procedures. It			

connects to a light source, camera processor, and monitor, giving the clinician a real-time, magnified view while maintaining a sterile field.

2. Composition

2.1. Endoscopic laryngoscope – 1 No.

3. Performance Specifications

3.1

- Optical System
  - Fiber-optic or digital CMOS sensor (1 mm to 4 mm diameter).
  - Field of view: 70°–120°
  - Depth of field: 5 mm–50 mm.
  - Resolution: ≥ 30 000 pixel (fiber) or 400 × 400 pixel (digital).

- Tip Configuration
  - Flexible distal tip with 2-axis angulation (± 120°) for rigid scopes.
  - Straight or angled (30°, 45°, 70°) rigid laryngoscope blades.

- Light Source
  - LED or xenon, 3000–6000 K color temperature
  - Intensity adjustable via console.

- Video Output
  - Composite video (RCA) or HDMI 1080p/4K digital output.
  - Integrated image capture and video recording (USB/SD).

- Working Length
  - Flexible scopes: 300 mm–600 mm
  - Rigid blades: 120 mm–200 mm

- Sheath/Insertion Tube
  - Medical-grade stainless steel or biocompatible polymer, ≤ 4 mm outer diameter
  - Working channel for suction or instrument passage (1 mm–2 mm).

- Power Supply.
  - 12 V DC from external console; battery-portable (30 min runtime)

- Controls
  - Hand-piece buttons for light intensity, image capture, and tip articulation.
  - Foot-pedal for hands-free operation.

- Sterilization
  - Fully immersible for low-temperature plasma or E-beam sterilization.
  - Autoclavable rigid blades (up to 134 °C).

- Typical Accessories
  - Disposable protective sheaths, suction adapters, biopsy forceps, video monitor, portable light source.

4	Quality standards	
4.1	Manufacturing	Compliance

	standards	- IEC 60601-1 (medical electrical safety) - ISO 13485 quality management - CE-marked, FDA-cleared (Class II).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Department	OPD	Emergency
Item Description		**Resuscitation Tray**

1. General Description

Resuscitation tray consisting of assorted airway management and resuscitation equipment

2. Composition

2.1 Resuscitation Tray

3 Description of instruments Quantity

S.No.	Description of instrument	Quantity
3.1	Guedel Airways (sizes 0,2,3,4,)	4 for each size
3.2	Laryngoscope handle, stainless steel with batteries type C	1
3.3	Laryngoscope blades for Item No. 3.2, Macintosh type assorted sizes (2,3,4)	1 No of each size
3.4	Endotracheal tubes: (assorted sizes)	3No. of each size
3.5	Suction unit, manual type complete with assorted catheters and cartridges	3No. of each size
3.6	Aspirator, Manual	1No.
3.7	Resuscitation kit, Adult complete with bag, Mask and Valve	2 No.
3.8	Resuscitation kit, Large Adult complete with bag, Mask and Valve	2 No.
3.9	Resuscitation kit, Child complete with bag, Mask and Valve	2 No.
3.10	Magills Forceps Adult	1No.

	3.11	Magills Forceps Pead	1No.
	3.12	SS Tray	1No.
4	Quality standards		
4.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards	
4.2	Conformity to standards	CE marked or any other internationally recognized documents	
5	Delivery point	See schedule	

Department	OPD	Room Name/No.	Consultation
Item Description			**Stethoscope, Adult**

1. General Description
   Dual head stethoscope, Adult, standard type, complete with.

   i) Chest piece: double head

   ii) Bell: diaphragm type with non-chill ring

   iii) Binaural: Brass Binaural

   iv) Y-tubing: grey

   v) Plastic casting

2	Quality Standards	
2.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
2.2	Conformity to standards	CE marked or any other internationally recognized documents
3	Delivery point	
3.1	See schedule	Delivery point
4	Warranty	
4.1	Equipment	Minimum of one year after delivery
4.2	Equipment System	Nil

Department	OPD	Room Name/No.	Consultation
Item Description			**Stethoscope, Pead**

2. General Description
   Dual head stethoscope, Pead, standard type, complete with.

   vi) Chest piece: double head

vii)	Bell: diaphragm type with non-chill ring	
viii)	Binaural: Brass Binaural	
ix)	Y-tubing: grey	
x)	Plastic casting	
2	Quality Standards	
2.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
2.2	Conformity to standards	CE marked or any other internationally recognized documents
3	Delivery point	
3.1	See schedule	Delivery point
4	Warranty	
4.1	Equipment	Minimum of one year after delivery
4.2	Equipment System	Nil

Department	OPD	Room Name/No.	Emergency
Item Description			**Suction Machine- Electrical**

1. General Description

Suction machine suitable for use in theatre, for both adult and pediatric use.

Should be constructed from coated non-corrosive, extreme heat resistance material and electrically insulated and mobile on antistatic castors φ 60 mm, 2 No. lockable, with high level push handle.

2. Composition

2.1	Main unit	

3. Performance Specifications

3.1	Main Unit	
3.1.1	High flow rate	50-60 litres per minute.
3.1.2	Suction vacuum	Maximum 700mmHg
3.1.3	Suction pump	Rotary aspiration- oil free
3.1.4	Jars	2 X 2 litre polycarbonate autoclavable and unbreakable complete with overflow devices and valves.
3.1.5	Vacuum gauge	Graduated in mmHg and kPa.
3.1.6	Vacuum control	Adjustable at the front panel
3.1.7	Switch	Main on front panel and foot switch (waterproof type)
3.1.8	Cable towage	On back with reversible cleats
3.1.9	Anti-bacterial filters	Available preferable autoclavable
3.1.10	Suction tubing connection	Antistatic neoprene or silicone
3.1.11	Safety	Overflow pump protection
3.1.12	Handle	High level push handle type
3.1.13	Movements	Mobile on four antistatic castors φ 60 mm, 2 No. lockable.
4	Physical characteristics	
4.1	Main unit	Mobile on castors with push handle
4.2	Dimensions	About 34 X 34 X30 cm
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase, 3 Pin Plug BS standard, 3m long

		cord with PE
5.2	Ambient temperature	10° C to 40° C
5.3	Relative humidity	40% to 90%
6	Accessories	
6.1	Sterilizable, silicone tubing	5 Set
6.2	Bacterial filters	1 Box
6.3	Foot switch	1 No.
6.4	Cannula with handle for general purpose	4 Sets
7	Spare parts	
	Bacterial filters	2 Sets
9	Quality standards	
9.2	Manufacturing standards	EN 10079-1, IEC 60601-1, ISO 9001 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
10	Local back up service	
10.1	Available	Should be available locally
10.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
11	Delivery point	
11.1		For inspection and testing
11.2	Nil	
12	Pre installation requirements	
	Nil	
13	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep
14.2	Maintenance training	On site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil

Department	Consultation clinic	Room Name/No.	
Item Description			**Vaccine Carrier**
1. General Description			

Vaccine Carrier box constructed with rigid polyester material, 3litres		
2. Composition		
2.1	Main unit	
3. Physical Specifications		
3.1	Main Unit	
3.1.1	Main frame material	Polyester or equivalent
3.1.2	Cooling temperature	2- 8 degrees for at least 18 hours
3.1.3	Useable cold space	3 litres
3.1.4	Thermometer	Provided with external Display
3.1.5	Dimensions	350 L X 220W X 250 H (mm) External
3.1.6	Ice packs	10 pieces
4	Quality Standards	
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1	See schedule	Delivery point
6	Warranty	
6.1	Equipment	Minimum of one year after delivery
6.2	Equipment System	Nil

Department	OPD	Room Name/No.	Emergency
Item Description			**Vaccine Refrigerator**
	1. General Description Vaccine Refrigerator with Ice pack freezer for storage of vaccines		
	2. Composition		
2.1	Main unit		
	3. Performance Specifications		
3.1	Main Unit		
	Application	For storage of vaccine and preparing of ice packs	
3.1.1	Material	Polyethylene	
3.1.2.	Refrigeration Compartment		
3.1.2.1	Gross Volume	118 litrs	
3.1.2.2	Vaccine storage capacity	60 litrs	
3.1.2.3	Set temperature	5°C±1°C	
3.1.3	Freezer Compartment		
3.1.3.1	Gross Volume	42 Litres	
3.1.3.2	Set temperature	-20°C	
3.1.4	Door	Top opening type	
3.1.5	Cool down time	10 Hours	
3.1.6	Hold over time	≥39 hours at 43°C	
3.1.7	Ambient temperature	10 ° C to 43°C	

3.1.8		Ice packs	20Pieces of 0.6 litrs
3.1.9		Thermometer	Digital, external mounted, with temperature record history
3.1.10		Control	Electronic, Microprocessor based, Intelligent type, NTC sensor
3.1.11		Refrigerant	CFC free
3.1.12		Display	Touch screen type, graphic temperature
3.1.13		Alarm	Provided, audible and visible
3.1.14		Defrost	Automatic
3.1.15		Access control	Provided, secure type
3.1.16		Internal Lamp	LED
3.1.17		Dimensions	Approximately D780x W 1250 x 910 H (mm)
3.1.18		Power	240V, 50 Hz, AC, Class A protection
4		Accessories	
4.1		Nil	
5		Quality standards	
5.1		Manufacturing standards	ISO 9001
5.2		Conformity to standards	WHO/UNICEF standards and CE marked or any other internationally recognized documents
6		Delivery point	
6.1		See Schedule	For inspection and testing
6.2		Nil	
7		Warranty	
7.1		Equipment	Minimum of one year after commissioning on all parts.
7.2		Equipment System	Nil
8		Accessories	
8.1		Automatic Voltage Regulator (AVR)	
8.1.1		Capacity	Over VA of the main Unit
8.1.2		Input	Ac 240V, 50Hz, Single phase ± 15%
8.1.3		Output	Ac 240V, 50Hz, Single Phase ± 2.5 %

Item Description			**Transport Ventilator**
Department		Room Name/No.	

1. General Description

A Transport Ventilator is a lightweight, compact device designed to provide mechanical ventilation to patients who are unable to breathe adequately on their own during transport, emergency situations, or temporary bedside use. It offers various ventilation modes, battery-powered operation, and durability to ensure continuous respiratory support in diverse clinical environments such as ambulances, emergency rooms, ICUs, and field operations.

2. Composition

2.1. Transport Ventilator 1 No.

3. Performance Specifications

3.1 **General features:**

Type: Portable, microprocessor-controlled ventilator
Weight ≤ 5–7 kg (excluding accessories)
Dimensions;
Compact, handheld or trolley-mountable
Display ≥ 5-inch color LCD screen with waveforms & alarms visibility
User Interface;
Intuitive soft keys / rotary knob
Mobility;
Shock & vibration resistant for transport use.

Ventilation Modes

Volume-Control modes (VCV)
Pressure-Control modes (PCV)
SIMV (Volume/Pressure)
CPAP / PSV
Automatic leak compensation
Non-invasive Ventilation (NIV) capability preferred.

Ventilation Specifications

Parameter Range;
Tidal Volume (VT): 50 – 1500 mL
Respiratory Rate: 2 – 60 breaths/min
I:E Ratio: Adjustable 1:1.5 to 1:4
PEEP: 0 – 20 cmH_2O
Pressure Support: 5 – 30 cmH_2O
FiO_2 Delivery: 21 – 100% (with blender or oxygen inlet).
Max Airway Pressure: Up to 60 cmH_2O
Trigger Sensitivity: Adjustable for patient comfort.

Gas Supply

Compatible with oxygen cylinders or central gas pipeline.
Oxygen inlet pressure: 280 – 600 kPa.

Monitoring

Airway pressure (Paw)
Tidal volume (expired & delivered)
Respiratory rate
FiO_2 concentration
SpO_2 monitoring (with external sensor)
Flow & volume waveforms display.

Power & Battery

Power supply: AC 100–240V, 50/60Hz
Internal battery backup ≥ 2–4 hours' operation
External battery pack or vehicle power cable (12/24V DC).

Alarms & Safety

High/low pressure alarms
High/low minute volume alarms
Apnea alarm
Disconnection alarm
Low battery alarm
Filter & system malfunction alerts
Overpressure protection valve.

Accessories

Patient breathing circuit (adult/pediatric)
Reusable or disposable filters (HEPA/antibacterial)
Oxygen hose and connectors
Carrying case / trolley
Nebulization attachment.

4	Quality standards	
4.1	Manufacturing standards	Standards & Certifications Complies with ISO 80601-2-12 / IEC safety standards CE / FDA approved. IP rating against dust and splash resistance.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Department	OPD	Room Name/No.	Consultation
Item Description			**Vital Signs Monitor**

1. General Description

Vital Signs monitor suitable for use in critical care. Should be capable of continuous measuring/ monitoring of the following parameters in adults, neonatal and pediatric.

- SpO_2
- NIBP
- TEMP

The monitor shall be mounted on a mobile cart.

2. Composition

2.1 Main unit

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	
3.2	SPO_2	
3.2.1	Measurement range	0 to 100%
3.2.2	Accuracy	± 1%
3.2.4	Heart Rate	20 to 350 (for adults and Pead's), bpm accuracy ±1 bpm
3.2.5	Accessories	SPO_2 connection cable 2 No. SPO_2 Sensors. Adult 2 No. Reusable, Finger Pediatric 2 No. Reusable, Finger Neonatal 2 No. Reusable

3.3	NIBP	
3.3.1	Method/Technology	Automatic Oscillo metric or equal and equivalent technology
3.3.2	Mode	Manual/Auto/continuous
3.3.3	Measuring units	mmHg/kPa
3.3.4	Pressure types	Systolic. Diastolic, Mean
3.3.5	Systolic Range	Adult: 40 to 280 mmHg Pead : 40 to 200 mm Hg
3.3.6	Diastolic Range	Adult: 10 to 215 mmHg Pead: 10 to 150 mm Hg
3.3.7	Over pressure protection	Provided, to include Audio and Visual Alarm
3.3.8	Accuracy	± 2bpm
3.3.9	Accessories	BP Cuff, Adult, Large 2 No. BP Cuff, Adult, Medium, 2 No. BP cuff, Pead 2 No.
3.4	TEMP	
3.4.1	Method	RTD technology or better
3.4.2	Measurement Range	30°C to 50°C,
3.4.3	Accuracy	± 0.1°C
3.4.4	Accessories	Temperature connection cable and probe, reusable 5 sets
3.5	Display	TFT/LED Minimum screen size 12.1 ", touch screen
3.5.1	Resolution	Minimum HD 1080p, 10 channels
3.6	Safety requirements	
3.6.1	Alarm function	Audible and Visual, adjustable screen light and sound
3.6.2	Safety	Self check: audible and visual alarm
3.6.3	Lead fault	Audible and visual alarm
3.6.7	Low Battery	Audible and visual alarm
3.6.8	Power Failure	Audible and visual alarm
3.7	Recorder	Inbuilt, thermal array type or equivalent,
3.8	Accessories	Thermal head cleaner pin 1 No. Grounding Lead 1 No.
3.9	Storage	Capable of storing patient data.
3.9.1	Internal Memory	≥250 GB
3.9.1	Interface	Capable of transferring stored data to a PC for viewing, analysis or printing. USB, RJ 45, DICOM 3 compatible, Port for external printer,
3.10	Recorder	Inbuilt, thermal array or equivalent Two speed, selectable Port for external printer
3.11	Input	In built with provision for connection of external Keyboard.
4	Physical characteristics	
4.1	Main unit	
4.2	Dimensions	Portable with a recharge dock or equivalent recharging unit and mounted on a mobile cart. The cart shall have four castors Ø100 mm with brakes. It shall be constructed from robust anti-rust material.
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase, 3 Pin Plug, 3m long cord BS type with PE
5.2	Back up supply	Internal rechargeable batteries (SLA), to last at least three hours

5.3	Ambient temperature	10° C to 40° C
5.4	Relative humidity	40% to 90%
6	Spare parts/ Consumables	
6.1	Fuses	1 Set
6.2	Battery pack	1 Set
7	Quality standards	
7.1	Manufacturing standards	IEC 80601-2-49:2018 Medical electrical equipment — Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment ISO 13485:2016: Medical devices — Quality management systems — Requirements for regulatory purposes ISO 9001
7.2	Conformity to standards	CE marked/ FDA approved or any other equal and equivalent internationally recognized documents
8	Local back up service	
8.1	Available	Should be available locally
8.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, consumables and qualified and skilled technical staff
9	Delivery point	
9.1	See Schedule	For inspection and testing
9.2	Nil	
10	Pre installation requirements Nil	
11	Installation and testing Complete installation and set up of the machine as per manufacturer's instructions	
12	Training	
12.1	User Training	On site user training on operation and daily up keep
12.2	Maintenance training	On site maintenance training on preventive maintenance
13	Technical documentations	
13.1	User manuals	2 Sets
13.2	Service Manual	1 Set
13.3	Drawings	Nil
14	Commissioning	
14.1	Testing and commissioning of the machine to the satisfaction of the user.	
15	Warranty	
15.1	Equipment	Minimum of one year after commissioning on all parts.
15.2	Equipment System	Nil

Item Description			**Sterilizing drums, assorted**
Department		Room Name/No.	
1. General Description Sterilizing drums are heavy-duty, sealable containers used to hold surgical instruments, linens, or glassware during autoclaving or dry-heat sterilization. They protect contents from contamination while allowing steam or heat to penetrate. The range includes standard-size drums, low-profile models for small loads, and specialty drums with filter vents for delicate items.			

2. Composition

2.1. Sterilizing drums, Assorted – Set.

3. Performance Specifications

3.1

- **Material**
  - 18-gauge stainless steel (AISI 304) for high-temperature resistance; optional aluminum for lighter weight.
  - Interior polished to a 0.8 µm finish to prevent particulate buildup.

- **Construction**
  - Double-hinged, gasketed lid with silicone O-ring for a leak-tight seal.
  - Integrated handle and locking latch (quick-release).

- **Sizes (diameter × height)**
  - Small: 150 mm × 200 mm – capacity ~2 L, max load 1 kg.
  - Medium: 250 mm × 300 mm – capacity ~12 L, max load 5 kg.
  - Large: 350 mm × 450 mm – capacity ~35 L, max load 12 kg.

- **Temperature Rating**
  - Autoclave: up to 134 °C at 2 bar (30 psi).
  - Dry-heat: up to 180 °C.

- **Pressure Rating**
  - Designed for 2 bar (30 psi) internal pressure; safety relief valve set at 2.2 bar.

- **Ventilation**
  - Standard solid lid (no vent).
  - Filtered vent (0.2 µm PTFE) for volatile or moisture-sensitive loads.

- **Weight (empty)**
  - Small: 0.9 kg.
  - Medium: 2.2 kg.
  - Large: 4.5 kg.

- **Cleaning & Sterilization**
  - Fully autoclavable; compatible with ultrasonic cleaners.
  - Passivated after each cycle to maintain corrosion resistance.

- Accessories
  - Perforated inner basket (stainless steel) for instrument organization.
  - Color-coded silicone tags for load identification.
  - Stackable base rings for vertical storage.

4	Quality standards	
4.1	Manufacturing standards	- Compliance - Meets ISO 11137 (sterilization of medical devices) and ISO 9001 quality standards. - CE-marked, RoHS-compliant.

5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Digital Adult Weighing scale with height measurement**
Department	OPD	Room Name/No.	OPD

1. General Description		
Adult weighing scale with height measurements		
2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Material	Mild steel baked epoxy coated
	Type	Pillar type
3.1.2	Measuring range	20-180 Kg
3.1.3	Accuracy	20g
3.1.4	Display	Electrical type, clearly marked digital display in Kg
3.1.7	Height measurement	Provided in cm, ft, and inches
3.1.8	Power	Internal dry cell batteries, to be provided
4	Quality standards	
4.2	Manufacturing standards	ISO 9001 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1		For inspection
6	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
7	Commissioning	
7.1	Testing and commissioning of the machine to the satisfaction of the user.	
8	Warranty	
8.1	Equipment	Minimum of one year after commissioning on all parts.
8.2	Equipment System	Nil

Item Description			**Digital Pediatric Weighing scale with height measurement**
Department	OPD	Room Name/No.	OPD

1. General Description Pediatric weighing scale with height measurements		
2. Composition 2.1	Main unit	
3. Performance Specifications 3.1	Main Unit	
3.1.1	Material	Mild steel baked epoxy coated
	Type	Pillar type
3.1.2	Weight Measuring range	10 -30Kg
3.1.3	Accuracy	±10g
3.1.4	Display	Electrical type, clearly marked digital display in Kg
3.1.7	Height measurement	50 cm to 130 cm. Gradations in cm, ft, and inches
3.1.8	Power	Internal dry cell batteries, to be provided
4	Quality standards	
4.2	Manufacturing standards	ISO 9001 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1		For inspection
6	Installation and testing Complete installation and set up of the machine as per manufacturer's instructions	
7	Commissioning	
7.1	Testing and commissioning of the machine to the satisfaction of the user.	
8	Warranty	
8.1	Equipment	Minimum of one year after commissioning on all parts.
8.2	Equipment System	Nil

Item Description			**Wheel chair**
Department	OPD	Room Name/No.	N/A

1. General Description Wheel chair		
2. Composition 2.1	Main unit	
3. Performance Specifications 3.1	Main Unit	
3.1.1	Wheel chair, folding type, constructed from chrome plated robust mild steel (3/4"), push type and self-propelling, with footrest, brakes, washable seat and solid tyres. Seat and back upholstered with strong inner material and removable Plastic hand grips Cushioned arm rests Padded leg rest, removable	

	Solid tyre wheels Rear wheel locks Metal side panels Size Overall length: Overall width: Depth:	 41 inches 30 inches (unfolded) 16 inchs
4	Delivery point	
4.1	See schedule	For inspection, testing and commissioning
4.2	Nil	
5	Warranty	
5.1	Equipment	Minimum of one year after commissioning on all parts.
5.2	Equipment System	Nil

LOT 2: LABORATORY EQUIPMENT

Item Description			**Anaerobic jar**
Department	Laboratory	Room Name/No.	Laboratory
1. General Description Anaerobic standard size for culturing anaerobes and micro aerobes			
2. Composition 2.1 Anaerobic Jar 1 No.			
3. Performance Specifications 3.1 Main Unit 3.1.1 Material 3.1.2 Lid 3.1.3 Size			 Constructed from transparent material which is, autoclave, Unbreakable and light weight With Double Screw clamp complete with air tight deals Standard size
4.1 Manufacturing standards 4.2 Product conformity standards Conformity to standards			ISO 13485 or any other recognised International Standards, EU-93/42/EEC, FDA approved or any other internationally recognized, equivalent and approval standards CE marked or any other internationally recognized documents

Item Description			**Analytical Balance**
Department	Laboratory	Room Name/No.	N/A
1. General Description Analytic balance, microprocessor based, table top type. Complete with Thermal Printer.			
2. Composition 2.1 Analytical Balance 1 No. Thermal Printer 1 No.			
3. Performance Specifications			

3.1	Main Unit	
3.1.1	Analytical balance	Table type model with top pan Electronic Type with touch key buttons
3.1.2	Display	LCD large display with back light
3.1.3	Pan	Minimum 125mm X 125mm, square; constructed from stainless steel
3.1.4	Maximum load	500g
3.1.5	Readability/sensitivity	1 mg
3.1.6	Power supply	240 V , ac, Single phase
3.1.7	Printer out terminal	RS 232 or USB
3.2.	Printer	Thermal Printer, 240V, a.c
3.2.1	Thermal paper rolls	10 rolls
4.1	Manufacturing standards	ISO 13485 or any other recognised International Standards,
4.2	Product conformity standards	EU-93/42/EEC, FDA approved or any other internationally recognized, equivalent and approval standards
	Conformity to standards	CE marked or any other internationally recognized documents
5	Local back up service	
5.1	Available	Should be available locally
5.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
6	Delivery point	
6.1	See Schedule	For inspection, installation, testing and commissioning
6.2	Pre installation works Nil	
7	Installation and testing Complete installation and set up of the machine as per manufacturer's instructions	
8	Training	
8.1	User Training	On site user training on operation and daily up keep
8.2	Maintenance training	On site maintenance training on preventive maintenance
9	Technical documentations	
9.1	User manuals	2 Sets
9.2	Service Manual	1 Set
15.3	Drawings	Nil
10	Commissioning	
10.1	Testing and commissioning of the machine to the satisfaction of the user.	
11	Warranty	
11.1	Equipment	Minimum of one year after commissioning on all parts.
11.2	Equipment System	Nil
12	Accessories	
12.1	Automatic Voltage Regulator (AVR)	
12.1.1	Capacity	Over VA of the main Unit
12.1.2	Input	Ac 240V, 50Hz, Single phase ± 15%
12.1.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %

Item Description	**Autoclave, Laboratory 80 litres**

Department	Laboratory	Room Name/No.	Hematology

1. General Description

Automatic, microprocessor-controlled steam sterilizer suitable for sterilization of wrapped, unwrapped instruments and hollow laboratory loads. The autoclave should be vertical type and constructed from double walled high-grade stainless steel materials and a sterilizer chamber capacity of about 80 litres

2. Composition

2.1 Main unit

3. Performance Specifications

3.1	Main Unit	
3.1.1	Application	For sterilization of; Wrapped and unwrapped instruments Pipette and glasses Liquid sterilization
3.1.2	Sterilization agent	Saturated steam with inbuilt steam generator
3.1.3	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
3.1.4	Sterilization temperature range	105°C to 137°C, selectable programs for different kind of laboratory loads
3.1.5	Pressure equalization	By sterile HEPA filter, replaceable
3.2	Sterilization chamber design and capacity	Cylindrical vertical type, about 80 litres , approx. Ø 38 cm X 70 cm deep, all high grade stainless steel construction
3.2.1	Sterilization Chamber door	Fully automatic, with safety interlock, top opening and loading
3.3	Control unit	Microprocessor based controlling all operational cycles With large LCD or similar display of cycle progress i.e. temperature, pressures and time. With different programmable cycle programs for different type of loads. With facilities for calibration.
3.4	Steam generator	In built, Electrical heating single phase 240V, 50 Hz
3.5	Water to steam generator	Distilled water or equivalent water to safe guard heating element.
3.6	Printer	In built printer capable of printing each successful cycle. Preferable thermal printer
3.7	Safety features	The autoclave should have major safety features such as: Safety pressure relief valve, overheating protection Door lock under pressure .

4	Physical characteristics	
4.1	Main unit External dimensions	Vertical type design About 70 cm x 100 cm x 55cm (WxHxD)
5	Operating environment	
5.1	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 wire basket	Assorted sizes
	Stainless steel container	1 No.
6.1	Printing papers	10 Rolls
7	Spare parts	
7.1	Heaters	2 sets
7.2	Door gaskets	2 Sets
9	Quality standards	
9.2	Manufacturing standards	IEC 60601-1, ISO 9001, ISO 17665-1 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
10	Local back up service	
10.1	Available	Should be available locally
10.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
11	Delivery point	
11.1	Othaya District Hospital	For inspection, installation, testing and commissioning
12	Pre installation works	
	Nil	
13	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep
14.2	Maintenance training	On site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil

Department	Laboratory	Room Name/No.	Hematology
Item Description			**Automatic HbA1c analyzer**
1. General Description Semi automatic HbA1C machine for glycated hemoglobin Suitable for POC use			
2. Composition			
2.1	Main unit Accessories		
3. Performance Specifications			
3.1	Main Unit	Unit on current production, Desk top Model	
3.1.1	Display	Digital LCD, touch screen	
3.1.2	Operation	Step by step instructions on the unit	

3.1.3	Measurement range	0% to 16%
	Accuracy	±5%
3.1.4	Measurement time	Less than 2 Minutes
3.1.5	Sample Volume	4µl to 10 µl, whole blood
3.1.6	Memory	About 7000 test results
	Interface	USB / Serial port
3.1.7	Printer	Thermal printer external or integrated
3.1.8	Power source	Internal lithium battery or equivalent
3.2	Accessories/reagents	Accessories/Reagents shall be low costs: Unit prices of all accessories and reagents to be indicated for evaluation purposes
3.2.1	Cartridges	200pcs
3.2.2	Reagents and controls	For 200patients,
3.2.3	Lancet	200 pcs
3.2.4	Lancing and lancet device	200 pcs to be included
5	Physical characteristics	
5.1	Main unit	Bench top Robust construction and easy to clean
7	Quality standards	
7.1	Manufacturing standards	IEC 60601-1, ISO 9001, ISO 13485, or any other internationally recognized standards
7.2	Conformity to standards	CE marked, Vitro Diagnosis Medical Devices or any other internationally recognized documents
8	Delivery point	
8.1	See schedule	For inspection
9	Training	
9.1	User Training	On site user training on operation and daily up keep
9.2	Maintenance training	On site maintenance training on preventive maintenance
10	Technical documentations	
10.1	User manuals	2 Sets
10.2	Service Manual	2 Set
10.3	Drawings	Nil
11	Warranty	
11.1	Equipment	Minimum of one year after commissioning on all parts.
11.2	Equipment System	Nil

Department	Laboratory	Room Name/No.	Hematology
Item Description			**Automatic Urine Analyzer**
1. General Description Semi-automatic Urine Analyzer suitable for POC use			
2. Composition			
2.1	Main unit Accessories		
3. Performance Specifications			
3.1	Main Unit	Unit on current production, Desk top Model	
3.1.1	Display	Digital LCD, touch screen, with on board keys	
3.1.2	Operation	Step by step instructions on the unit	
	Measuring Method	Photometric or equivalent or urine test strips	

3.1.3	Minimum measured parameters Accuracy	Albumin, bilirubin, creatinine, glucose, leukocytes, nitrate, PH, protein, Specific gravity and Urobilinogen ±5%
3.1.4	Measurement time	Less than 2 Minutes
3.1.5	Sample	Urine
3.1.6	Memory Interface	About 700 test results USB / Serial port
3.1.7	Printer	Thermal printer external or integrated
3.1.8	Power source	240V, 50Hz ac or internal batteries
3.2	Accessories/reagents	Accessories/Reagents/Test Strips shall be low costs: Unit prices of all accessories and reagents to be indicated for evaluation purposes
3.2.1	Cartridges/Test Stripes	200pcs
3.2.2	Reagents and controls	For 200patients,
3.2.3	Lancet	200 pcs
3.2.4	Lancing and lancet device	200 pcs to be included
5	Physical characteristics	
5.1	Main unit	Bench top Dimensions Approx. 30 cm (L) X 20 cm (W) X 16 cm (H) Robust construction and easy to clean
7	Quality standards	
7.1	Manufacturing standards	IEC 60601-1, ISO 9001, ISO 13485, or any other internationally recognized standards
7.2	Conformity to standards	CE marked,Vitro Diagnosis Medical Devices or any other internationally recognized documents
8	Delivery point	
8.1	See schedule	For inspection
9	Training	
9.1	User Training	On site user training on operation and daily up keep
9.2	Maintenance training	On site maintenance training on preventive maintenance
10	Technical documentations	
10.1	User manuals	2 Sets
10.2	Service Manual	2 Set
10.3	Drawings	Nil
11	Warranty	
11.1	Equipment	Minimum of one year after commissioning on all parts.
11.2	Equipment System	Nil

Department	Laboratory	Room Name/No.	Laboratory
Item Description			**Bacteriology Incubator**
1. General Description To be used for standard laboratory cultivation. The unit should be constructed from robust, corrosion free outer material. Interior part should be constructed from high grade stainless steel with two height adjustable stainless steel trays. It should have an electronically adjustable temperature control, with inbuilt digital temperature indicator, and timer control.			
2. Composition 2.1 Main unit			
3. Performance Specifications 3.1 Main Unit			

3.1.1	Temperature range	Adjustable from ambient to + 60°C
3.1.2	Accuracy	± 0.2°C @ 37°C
3.1.3	Temperature control	PID Microprocessor controlled system
3.1.4	Display	Digital for temperature and timer. Temperature : set value and process value
3.1.5	Door seal	replaceable silicon rubber
3.1.6	Air movement	Forced air convection
3.17	Timer	Auto start/stop at least 100 hours
3.1.8	Uniformity of temperature	Constant temperature in the chamber ± 0.2°C
3.1.9	Interior material	Stainless steel grade 304
	Exterior	Power costed GI sheet and painted
	Insulation	Glass wool or equivalent
3.1.10	Safety Device and Alarm	Overheat protection device by independent thermostat
4	Physical characteristics	
4.1	Main unit	Bench top, Robust construction and easy to clean
	Internal capacity	50 to 55 liters
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase
5.2	Ambient temperature	10° C to 40° C
5.3	Relative humidity	40% to 90%
6	Accessories	
6.1	Shelves	2 No.
7	Spare parts	
7.1	Heating Element	3 sets
7.2	Door Gasket	2 Sets
8	Consumables/Reagents	
8.1	Nil	
9	Quality standards	
9.2	Manufacturing standards	EN 46001, IEC 60601-1, ISO 9001 or any other internationally recognized standards
9.3	Conformity to standards	CE marked or any other internationally recognized documents
10	Local back up service	
10.1	Available	Should be available locally
10.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
11	Delivery point	
11.1	See Schedule	For inspection
11.2		For installation: See schedule
12	Pre installation requirements	
12.1	Nil	
13	Installation and testing	
13.1	Complete installation and set up of the machine at various sites as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep
14.2	Maintenance training	On site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets

15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil

Department	Laboratory	Room Name/No	Hematology
Item Description			**Chemistry Analyzer**

1. General Description

Semi-automatic Chemistry analyzer suitable for POC. The unit should be desk top model, microprocessor-controlled analyzer, and Digital display of parameters

2. Composition

2.1	Main unit	
	Accessories	

3. Performance Specifications

3.1	Main Unit	Unit on current production, Desk top Model
3.1.1	Display	Digital LCD, touch screen, with on board keys
3.1.2	Operation	Step by step instructions on the unit
3.1.3	Measuring Method/Technology	Photometric or equivalent. Dry chemistry with test strips
3.1.4	Capacity	Approx. 60 test per hour
3.1.5	Minimum measured parameters	Liver function, Kidney Function, Pancreatitis, Blood Lipid, Myocardial Enzyme, Emergency diagnosis, and Ion
3.1.6	Accuracy	±5%
3.1.7	Measurement time	Less than 5 Minutes
3.1.8	Sample volume	Less than 15 µl of blood or urine
3.1.9	Incubation zone	To be included at 37°C
3.1.10	Memory	About 50,000 test results, stored
3.1.11	Interface	USB / Serial port
3.1.12	Printer	Thermal printer external or integrated
3.1.13	Power source	I240V, 50Hz ac and/or internal batteries
3.2	Accessories/reagents	Accessories/Reagents/Test Strips shall be low costs: Unit prices of all accessories and reagents to be indicated for evaluation purposes
3.2.1	Cartridges/Test Stripes	500pcs
3.2.2	Reagents and controls	For 500patients,
3.2.3	Lancing and lancet device	500 pcs to be included

5	Physical characteristics	
5.1	Main unit	Bench top Dimensions Approx. 30 cm (L) X 25 cm (W) X 16 cm (H) Robust construction and easy to clean
7	Quality standards	
7.1	Manufacturing standards	IEC 60601-1, ISO 9001, ISO 13485, or any other internationally recognized standards

7.2	Conformity to standards	CE marked, Vitro Diagnosis Medical Devices or any other internationally recognized documents
8	Delivery point	
8.1	See schedule	For inspection
9	Training	
9.1	User Training	On site user training on operation and daily up keep
9.2	Maintenance training	On site maintenance training on preventive maintenance
10	Technical documentations	
10.1	User manuals	2 Sets
10.2	Service Manual	2 Set
10.3	Drawings	Nil
11	Warranty	
11.1	Equipment	Minimum of one year after commissioning on all parts.
11.2	Equipment System	Nil

Department	Laboratory	Room Name/No.	Hematology
Item Description			**Cholesterol Analyzer**

1. General Description		
Semi-automatic Cholesterol Analyzer (LIPID profile) suitable for POC use. Table top model		
2. Composition		
2.1	Main unit	
	Accessories	
3. Performance Specifications		
3.1	Main Unit	Unit on current production, Desk top Model
3.1.1	Display	Digital LCD, touch screen, with on board keys
3.1.2	Operation	Step by step instructions on the unit
	Measuring Method	Photometric or equivalent
3.1.3	Minimum measured parameters	CT,HDL, LDL, TG, NON-HDL and TG/HGDL ratio
	Accuracy	±2%
3.1.4	Measurement time	Less than 2 Minutes
3.1.5	Sample	Blood
3.1.6	Memory	About 700 test results
	Interface	USB / Serial port
3.1.7	Printer	Thermal printer external or integrated
3.1.8	Power source	240V, 50Hz ac or internal batteries
3.2	Accessories/reagents	Accessories/Reagents/Test Strips shall be low costs: Unit prices of all accessories and reagents to be indicated for evaluation purposes
3.2.1	Cartridges/Test Stripes	500pcs
3.2.2	Reagents and controls	For 500patients,
3.2.3	Lancing and lancet device	500 pcs to be included
5	Physical characteristics	
5.1	Main unit	Bench top Dimensions Approx. 30 cm (L) X 20 cm (W) X 16 cm (H) Robust construction and easy to clean
7	Quality standards	

7.1	Manufacturing standards	IEC 60601-1, ISO 9001, ISO 13485, or any other internationally recognized standards
7.2	Conformity to standards	CE marked, Vitro Diagnosis Medical Devices or any other internationally recognized documents
8	Delivery point	
8.1	See schedule	For inspection
9	Training	
9.1	User Training	On site user training on operation and daily up keep
9.2	Maintenance training	On site maintenance training on preventive maintenance
10	Technical documentations	
10.1	User manuals	2 Sets
10.2	Service Manual	2 Set
10.3	Drawings	Nil
11	Warranty	
11.1	Equipment	Minimum of one year after commissioning on all parts.
11.2	Equipment System	Nil

Department	Laboratory	Room Name/No.	Laboratory
Item Description			**Clinical Binoculars Microscope**

1. General Description

All purpose Clinical microscopes for general laboratory use, with binocular head, inclined 45 °, build in graduated mechanical stage with control knob, with iris diaphragm, and filter holder, eye pieces, objective lens and illumination controls.

2. Composition		
2.1	Main unit	
2.2	AVR	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Magnification	50 to 1000x or wider
3.1.2	Eyepieces	Paired 10x wide-field
3.1.3	Objective	Magnifications 10x, 40x, 100x (oil immersed or dry type)
3.1.4	Optical System	Universal Infinity System
3.1.5	Observation Tube	Binocular
3.1.6	Angle of Inclination	45°C
3.1.7	Interpupillary Adjustment Distance	> 40 – 70 mm
3.1.8	Condenser Type	Universal condenser, N.A. 0.9 or Abbe or Swing out
3.1.9	Mechanical Stage	Graduated, with coarse and fine focusing control
3.1.10	X-Y motion control	Adjustable
3.1.11	X-Y motion vernier	0.1 mm or less
3.1.12	Vertical movements of stage	20mm or more
3.1.13	Focusing Control	Coarse Focusing - Stage Height Movement Fine Focus Graduation
3.1.14	Illumination System	built in base illuminator, LED long life with Brightness control, mains operated. Filters with colour temperature correction. Mirror Unit for Natural Light Illumination
4	Physical characteristics	

4.1	Main unit	
4.1.1	Approximate dimensions	
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz
5.2	Humidity	
6	Accessories	
6.1	Storage	Lockable Cabinet/Box
6.2	AVR	
6.2.1	Capacity	Over VA of the main Unit
6.2.2	Input	Ac 240V, 50Hz, Single phase ± 15%
6.2.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %
7	Spare parts	
7.1	LED illuminator	1 unit
8	Consumables	
8.1	Nil	
9	Quality standards	
9.2	Manufacturing standards	IEC 60601-1, or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
11	Delivery point	
11.1	See schedule	
12	Pre installation requirements	
	Nil	
13	Installation and testing	
	Testing at delivery point	
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	2 Sets
15.3	Drawings	
17	Warranty	
17.1	Equipment	One year after delivery on all parts

Department	Laboratory	Room Name/No.	Hematology
Item Description			**Electrolyte Analyzer**

1. General Description		
Semi-automatic Electrolyte Analyzer suitable for POC use. Table top model		
2. Composition		
2.1	Main unit	
	Accessories	
3. Performance Specifications		
3.1	Main Unit	Unit on current production, Desk top Model
3.1.1	Display	Digital LCD, touch screen, with on board keys
3.1.2	Operation	Step by step instructions on the unit
	Measuring Method	Ion Selective Electrode (ISE)
3.1.3	Minimum measured parameters	PH, K^+, Na^+, Cl^-, Ca^{++}
	Accuracy	±2%
3.1.4	Measurement time	Less than 2 Minutes

3.1.5	Sample	Blood , Serum, Plasma
3.1.6	Memory	About 700 test results
	Interface	USB / Serial port
3.1.7	Printer	Thermal printer external or integrated
3.1.8	Power source	240V, 50Hz ac or internal batteries
3.2	Accessories/reagents	Accessories/Reagents/Test Strips shall be low costs: Unit prices of all accessories and reagents to be indicated for evaluation purposes
3.2.1	Cartridges	200pcs
3.2.2	Reagents and controls	For 200patients,
3.2.3	Lancing and lancet device	200 pcs to be included
5	Physical characteristics	
5.1	Main unit	Bench top Dimensions Approx. 30 cm (L) X 20 cm (W) X 16 cm (H) Robust construction and easy to clean
7	Quality standards	
7.1	Manufacturing standards	IEC 60601-1, ISO 9001, ISO 13485, or any other internationally recognized standards
7.2	Conformity to standards	CE marked,Vitro Diagnosis Medical Devices or any other internationally recognized documents
8	Delivery point	
8.1	See schedule	For inspection
9	Training	
9.1	User Training	On site user training on operation and daily up keep
9.2	Maintenance training	On site maintenance training on preventive maintenance
10	Technical documentations	
10.1	User manuals	2 Sets
10.2	Service Manual	2 Set
10.3	Drawings	Nil
11	Warranty	
11.1	Equipment	Minimum of one year after commissioning on all parts.
11.2	Equipment System	Nil

Item Description			**Automatic Hematology Analyzer**
Department	Laboratory	Room Name/No.	Laboratory

1. General Description

Capable of measuring RBC, WBC, HCT, MCV, MCH, MCHC, PLT and at least 10 other parameters and 3 differential. The unit should be automatic, with electronic digital read out, dilutor and in built printer.

2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Measuring parameters	18 or more; WBC, RBC, PLT, HGB WBC counting

3.1.2	Accuracy	RBC ±2%, WBC ±3%, Hct ± 2%
3.1.3	Differential	3parts analysis
3.1.4	Tests per hour	At least 60
3.1.5	Technology	Photometric /Electrical impedance
3.1.6	Capillary diameter	at least 100ϻm
3.1.7	Sample volume	at least 20ϻl
3.1.8	Measuring time	about 14 seconds
3.1.9	Temperature correction	Automatic
3.1.10	Display	Large LCD display, touch screen
3.1.11	Printer	In built
3.2	Accessories/reagents	Reagents, cuvettes, cartridges, controls and all other necessary accessories to perform the initial 500 tests to be included: Unit prices of all accessories and reagents to be indicated for evaluation purposes
4	Physical characteristics	
4.1	Main unit	Bench top Robust construction and easy to clean
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase
	Ambient temperature	10^{o} C to 40^{o} C
	Relative humidity	40% to 90%
6	Accessories	
6.1	Automatic Voltage Regulator (AVR)	
6.1.1	Capacity	Over VA of the main Unit
6.1.2	Input	Ac 240V, 50Hz, Single phase ± 15%
7	Spare parts	
8	Consumables/Reagents	
8.1	See 3.2 above	
9	Quality standards	
9.2	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
10	Local back up service	
10.1	Available	Should be available locally
10.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
11	Delivery point	
11.1	See schedule	For inspection, installation and commissioning
12	Pre installation requirements Nil	
13	Installation and testing Complete installation and set up of the machine as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep

14.2	Maintenance training	On site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil

Department	Laboratory	Room Name/No.	Laboratory
Item Description			**Hot plate magnetic stirrer**

1. General Description Hot plate magnetic stirrer for heating and stirring aqueous solutions. Constructed from Coated mild steel or ABS, microprocessor controlled.		
2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Material	Coated mild steel or ABS plastic
3.1.2	Technology	Microprocessor controlled
3.2	Heating	Flat surface hot plate with heating elements
3.2.1	Number of Plate	1 No. approx. 158L X143 W mm or Circular ±135mm, Stainless steel
3.2.2	Temperature control	PT 100 probe
3.2.3	Temperatures range	+30°C to + 500°C ±1°C
3.3	Stirring	
3.3.1	Technology	Magnetic- stationary electromagnet that create rotating magnetic field.
3.3.2	Speed	50 -1500 rpm
3.3.3	Stirring volume	50 to 3000ml, X 1 No.
3.4	Display	Digital display of speed and temperatures
3.5	Dimensions	Approximately D200x W 250 x 50 H (mm)
3.6	Power	240V, 50 Hz, a.c
4	Accessories	
4.1	Nil	
5	Quality standards	
5.1	Manufacturing standards	ISO 9001
5.2	Conformity to standards	CE marked or any other internationally recognized documents
6	Delivery point	
6.1	See schedule	For inspection and testing
6.2	Nil	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning on all parts.
7.2	Equipment System	Nil
8	Accessories	
8.1	Automatic Voltage	

	Regulator (AVR)	
8.1.1	Capacity	Over VA of the main Unit
8.1.2	Input	Ac 240V, 50Hz, Single phase ± 15%
8.1.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %

Department	Imaging	Room Name/No.	Imaging
Item Description			**Digital Mobile X –Ray Unit**

1. General Description Mobile X-ray unit, digital type, on castors and having a rotating anode standard tube. It should be easy to maneuver and control and capable of undertaking bedside and theatre radiography. Should also incorporate a cassette storage chamber with a minimum capacity of 5 Flat Panel detectors		
2. Composition		
2.1	X-Ray Generator	
2.2	X-Ray Tube	
2.3	Digital cassettes	
3. Performance Specifications		
3.1	X-Ray Generator	
3.1.1	Type	Microprocessor controlled, Maximum power rating 40-50KW
	Frequency	40KHz
3.1.2	Anatomic programmes	Available
3.1.3	DAP	To be provided
3.1.4	mAs range	80 mAs at 90 KV and 0.2 mAs to 50 mAs at 120KV
3.1.5	Control Panel	Touch Screen type with 19" LED/ LCD Digital display of parameters.
3.2	X-ray tube	
3.2.1	Type	Rotating anode type
3.2.2	Tube voltage range	40 to 150 kV.
3.2.3	Tube current	Not less than 300mA of small focus, 600mA of large focus
3.2.4	Focal	0.6/1.2 duo focal spot
3.2.5	Anode heat storage	Min 300KHU
3.2.6	Collimator	Manual operation without screen with DAP
3.3	Detector	Flat panel, wireless FPD Minimum size 14 x 17 HD static type
3.4	Software	APR photography more than 1000
3.4.1	Operating system	Minimum WIN 10 professional 64 bit
3.5.	Connectivity	DICOM 3.0 compatible with USB port, Wireless connection compatibility, Ethernet Port
3.6	Physical characteristics	Mobile on castors Ø 120 mm with brakes Electric assisted driven with anti-collision function
3.7	Battery	Lithium battery, support 800 times exposure
5	Operating environment	
5.1	Power Requirements	240V, a/c 50 Hz, Single phase, with PE conductor
5.2	Ambient temperature	10° C to 40° C
5.3	Relative humidity	40% to 90%
6	Accessories	
6.1	External Hard Disk, USB 3.0, 1000GB	
7	Spare parts	

	Manufacturer's recommended service kit for one year	
9	Quality standards	
9.2	Manufacturing standards	IEC 60601-1, ISO 9001, ISO 13485or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
11	Delivery point	
11.1	See Hospital Schedule.	For delivery, inspection and testing, installation and commissioning
12	Pre installation requirements	
	Nil .	
13	Installation and testing	
	Complete installation and set up of the Mobile X-Ray Machine as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep for 3 weeks
14.2	Maintenance training	On site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine including calibration and radiation testing to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil
18.	Maintenance contract	
18.1	Capacity to provide maintenance and repair service	Vendor/manufacturer shall have adequate facilities, spare parts, qualified and skilled technical staff to offer comprehensive maintenance contract for 10 years

Item Description			**Bedside Locker**
Department	Furniture	Room Name/No.	Ward
1. General Description Bedside locker, with drawer, cabinet and hidden pull out tray suitable for ICU. Constructed from robust plastic (ABS) on four castors φ 30mm, lockable. Easily cleaned and disinfected			
2. Composition 2.1 Main unit			
3. Physical Specifications 3.1 Main Unit 3.1.1 Top 3.1.2 Drawer 3.1.3 Cabinet		Plastic robust (ABS) 1 No. 1 No.	

3.1.4	Tray	1 No. Pull out type
3.1.5	Towel Holder	2 No. provided on the sides
3.1.6	Cleaning	Easily cleaned and disinfected
3.1.7	Castors	3" castors with brakes
3.1.8	Dimensions	480 (W) X 470 (L) X 750 (H) mm
4	Quality Standards	
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents

Department	Hospital Furniture	Room Name/No.	Ward
Item Description			**Linen Trolley**

1. General Description

Linen trolley constructed from epoxy coated mild steel, with antistatic rubber castors φ 100 mm swivel, with removable cloth sack treat with plastic.

2. Composition		
2.1	Main unit	
3. Physical Specifications		
3.1	Main Unit	
3.1.1	Material of main unit	Epoxy coated mild steel.
3.1.2	sack	Removable cloth sack treated with plastic (washable and water prove)
3.1.3	Push handles	Provided
3.1.6	Dimensions	800 L X 650 W X 850 H (mm)Adjustable, mechanical
3.1.7	Mobile	With 4 Antistatic 100mm swivel, with brakes
4	Quality Standards	
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1	Hadado S.H	Delivery point
6	Warranty	
6.1	Equipment	Minimum of one year after delivery
6.2	Equipment System	Nil

Department	OPD	Room Name/No.	Emergency
Item Description			**Patient Monitor, Handheld**

1. General Description

Portable patient monitors suitable for use in critical care. Should be capable of continuous measuring/ monitoring of the following parameters in adults, neonatal and pediatric.

- SpO_2
- NIBP
- RESP
- TEMP

The monitor shall be mounted on a mobile cart.

2. Composition

2.1 Main unit

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	
3.2	SPO_2	
3.2.1	Measurement range	0 to 100%
3.2.2	Accuracy	± 1%
3.2.4	Heart Rate	20 to 350 (for adult and Peads), bpm accuracy ±1 bpm
3.2.5	Accessories	SPO_2 connection cable 2 No. SPO_2 Sensors; Adult 1 No. Reusable, Finger Pediatric 1 No. Reusable, Finger
3.3	NIBP	
3.3.1	Method/Technology	Automatic Oscillo metric or equal and equivalent technology
3.3.2	Mode	Manual/Auto/continuous
3.3.3	Measuring units	mmHg/kPa
3.3.4	Pressure types	Systolic. Diastolic, Mean
3.3.5	Systolic Range	Adult: 40 to 280 mmHg Pead : 40 to 200 mm Hg
3.3.6	Diastolic Range	Adult: 10 to 215 mmHg Pead: 10 to 150 mm Hg
3.3.7	Accuracy	± 2bpm
3.3.8	Accessories	BP Cuff, Adult, Medium, 1 No.
3.4	RESP	
3.4.1	Method	Side stream
3.4.2	Measurement Range	0 to 190 mm Hg, (at 760 mm Hg)
3.4.3	Accuracy	± 2mmHg
3.4.4	Capnography waveform	To be provided, including respiratory rate
3.5	TEMP	
3.5.1	Method	Thermistor probe (2.24k/10k)
3.5.2	Measurement Range	0°C to 50°C
3.5.3	Accuracy	± 0.1°C
3.5.4	Accessories	Temperature connection cable and probe, reusable 5

		sets
3.6	Display	TFT/LED Minimum screen size 6", touch screen
3.6.1	Resolution	1280*720 pixels
3.7	ECG	
3.7.1	Alarm function	Audible and Visual, adjustable screen light and sound
3.7.2	Lead mode	3 Lead: I,II,III
3.7.3	Paddle fault	Audible and visual alarm
3.7.4	ECG cable fault	Audible and visual alarm
3.7.5	Heart rate alarms	Audible and visual alarm
3.7.6	Low Battery	Audible and visual alarm
3.7.7	Power Failure	Audible and visual alarm
3.8	Recorder	Inbuilt, thermal array type or equivalent, Min. 3 Channels
3.8.1	Paper Speed	Two speed selectable, 6.25 mm/sec to 50 mm/sec approximately
3.8.2	Accessories	Thermal head cleaner pin 1 No. Grounding Lead 1 No. ECG Recording papers: 10 rolls
3.9	Storage	Capable of storing patient data.
3.9.1	Internal Memory	250 GB
3.9.2	Extended Memory	SD memory card 64GB
3.9.1	Interface	Capable of transferring stored data to a PC for viewing, analysis or printing. USB, RJ 45, DICOM 3 compatible, Port for external printer,
3.10	Recorder	Inbuilt, thermal array or equivalent Two speed, selectable Port for external printer
3.11	Input	In built with provision for connection of external Keyboard.
4	Physical characteristics	
4.1	Main unit	
4.2	Dimensions	Portable with a recharge dock or equivalent recharging unit and mounted on a mobile cart.
5	Operating environment	
5.1	Power Requirements	Voltage : DC 5V 2A
5.2	Back up supply	Internal rechargeable batteries (SLA), to last at least three hours
5.3	Ambient temperature	0^{o} C to 40^{o} C
5.4	Relative humidity	40% to 90%
6	Spare parts/ Consumables	
6.1	Fuses	1 Set
6.2	Battery pack	Type: Rechargeable lithium battery 4000mAH 3.7 V Maximum charging time is less than 6 hours. Working hours: 6 hours.
7	Quality standards	
7.1	Manufacturing standards	IEC 80601-2-49:2018 Medical electrical equipment — Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment ISO 13485:2016: Medical devices — Quality management systems — Requirements for regulatory

		purposes ISO 9001
7.2	Conformity to standards	CE marked/ FDA approved or any other equal and equivalent internationally recognized documents
8	Local back up service	
8.1	Available	Should be available locally
8.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, consumables and qualified and skilled technical staff
9	Delivery point	
9.1	See Schedule	For inspection and testing
9.2	Nil	
10	Pre installation requirements	
	Nil	
11	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
12	Training	
12.1	User Training	On site user training on operation and daily up keep
12.2	Maintenance training	On site maintenance training on preventive maintenance
13	Technical documentations	
13.1	User manuals	2 Sets
13.2	Service Manual	1 Set
13.3	Drawings	Nil
14	Commissioning	
14.1	Testing and commissioning of the machine to the satisfaction of the user.	
15	Warranty	
15.1	Equipment	Minimum of one year after commissioning on all parts.
15.2	Equipment System	Nil

Department	Hospital Furniture	Room Name/No.	Ward
Item Description			**Medicine trolley**
1. General Description Medicine trolley constructed from epoxy coated steel frame, with antistatic castors φ 100 mm swivel, with 2 stainless steel shelves, with drawers and guard rail on all sides			
2. Composition			
2.1	Main unit		
3. Physical Specifications			
3.1	Main Unit		
3.1.1	Material of main unit	Stainless steel, tubular frame	
3.1.2	Type	2 stainless steel shelves	
3.1.3	Top shelve	With guardrails	
3.1.4	Drawers	Four drawers with automatic shutting system	
3.1.5	Drug dispensing bins	Provided, 8 No. with colour identifications	
3.1.6	Dimensions	700 L X 460 W X 950 H (mm)Adjustable, mechanical	
3.1.7	Mobile	With 4 Antistatic 100mm swivel, with brakes	
3.1.8	Lateral push	Provided	
4	Quality Standards		

4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1	See schedule	Delivery point
6	Warranty	
6.1	Equipment	Minimum of one year after delivery
6.2	Equipment System	Nil

Item Description			**Autoclave, Large, 20-25Litres, Table top**
Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	Sterilization

1. General Description Automatic, microprocessor controlled steam sterilizer suitable for sterilization of hospitals porous and non-porous loads. The autoclave should be horizontal Table top Model and constructed from double walled high-grade stainless steel materials.		
2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Application	For sterilization of hospitals porous and non- porous Loads.
3.1.2	Sterilization agent	Saturated steam with inbuilt steam generator
3.1.3	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
3.1.4	Sterilization temperature range	105°C to 137°C, selectable programs for different kind of loads
3.1.5	Pressure equalization	By sterile HEPA filter, replaceable
3.2	Sterilization chamber design and capacity	Horizontal type, 20-25 litres, all high-grade stainless-steel construction
3.2.1	Sterilization Chamber door	Fully automatic, hydraulic, vertical or horizontal sliding.
3.3	Control unit	Microprocessor based controlling all operational cycles With large LCD or similar display of cycle progress i.e. temperature, pressures and time. With different programmable cycle programs for different type of loads. With facilities for calibration.
3.4	Steam generator	In built, Electrical heating three phase 240V, 50 Hz
3.5	Water to steam generator	De- carbonated water to safe guard heating element.
3.6	Printer	In built printer capable of printing each successful cycle. Preferable thermal printer
3.7	Safety features	The autoclave should have major safety features such as: Safety pressure relief valve

		Door lock under pressure
4	Physical characteristics	
4.1	Main unit Dimensions	Table top Model
5	Operating environment	
5.1	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	
	Pull out trays, containers, and baskets.	1 Set
6.1	Loading cart, stainless steel	1 Piece
6.2	Automatic Voltage Regulator (AVR)	Nil
6.2.1	Capacity	Nil
6.2.2	Input	
6.2.3	Output	
7	Spare parts	
7.1	Heaters	2 sets
7.2	Printing papers	10 Rolls
7.3	Door gaskets	2 Sets
7.4	RO filter cartridges,	2 Set
9	Quality standards	
9.2	Manufacturing standards Conformity to standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards CE marked or any other internationally recognized documents
10	Local back up service	
10.1	Available	Should be available locally
10.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
11	Delivery point	
11.1	See Hospital Schedule	For inspection, installation, testing and commissioning
12	Pre installation works	
	Provide electrical works including cabling, trunking and switch gears required to install the autoclave and its accessories to required IEE standards	
13	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep
14.2	Maintenance training	On-site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	

17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil
18.	Maintenance contract	
18.1	Capacity to provide maintenance and repair service	Vendor/manufacturer shall have adequate facilities, spare parts, qualified and skilled technical staff to offer comprehensive maintenance contract for at least 10 years

Item Description			**Autoclave, Large, 120 Litres**
Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	Sterilization

1. General Description Automatic, microprocessor controlled steam sterilizer suitable for sterilization of hospitals porous and non-porous loads. The autoclave should be horizontal stand-alone type and constructed from double walled high-grade stainless steel materials.		
2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Application	For sterilization of hospitals porous and non- porous Loads.
3.1.2	Sterilization agent	Saturated steam with inbuilt steam generator
3.1.3	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
3.1.4	Sterilization temperature range	105°C to 137°C, selectable programs for different kind of loads
3.1.5	Pressure equalization	By sterile HEPA filter, replaceable
3.2	Sterilization chamber design and capacity	Horizontal type, 120 litres, all high grade stainless steel construction
3.2.1	Sterilization Chamber door	Fully automatic, hydraulic, vertical or horizontal sliding.
3.3	Control unit	Microprocessor based controlling all operational cycles With large LCD or similar display of cycle progress i.e. temperature, pressures and time. With different programmable cycle programs for different type of loads. With facilities for calibration.
3.4	Steam generator	In built, Electrical heating three phase 415V, 50 Hz
3.5	Water to steam generator	De- carbonated water to safe guard heating element. Suitable RO filter units to be installed
3.6	Printer	In built printer capable of printing each successful cycle. Preferable thermal printer
3.7	Safety features	The autoclave should have major safety features such as: Safety pressure relief valve Door lock under pressure
3.8	Raw water Treatment	Supply and install, RO water filtration system for raw water

		complete with Pre-filters .
3.9	Water re-cycling system	Supply and install a water recycling system. System to be composed of a water reservoir (500 litres), piping system water pump and control unit
4	Physical characteristics	
4.1	Main unit	Floor mounted, stand alone
	Dimensions	About 1.2 x 1.4 x 1.2m (WxHxD)
5	Operating environment	
5.1	Power Requirements	415V, A/c 50 Hz, Single phase, with PE
	Ambient temperature	10^{o} C to 40^{o} C
	Relative humidity	40% to 90%
6	Accessories	
	Pull out trays, containers, and baskets.	1 Set
6.1	Loading cart, stainless steel	1 Piece
6.2	Automatic Voltage Regulator (AVR)	For the electronic circuit only
6.2.1	Capacity	Over VA of the electronic circuit
6.2.2	Input	Ac 240V, 50Hz, Single phase ± 15%
6.2.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %
7	Spare parts	
7.1	Heaters	2 sets
7.2	Printing papers	10 Rolls
7.3	Door gaskets	2 Sets
7.4	RO filter cartridges,	2 Set
9	Quality standards	
9.2	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
10	Local back up service	
10.1	Available	Should be available locally
10.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
11	Delivery point	
11.1	See Hospital Schedule	For inspection, installation, testing and commissioning
12	Pre installation works	
	Provide for foundation plinth, necessary plumbing works and electrical works including cabling, trunking and switch gears required to install the autoclave and its accessories to required IEE standards	
13	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep
14.2	Maintenance training	On-site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	

16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil
18.	Maintenance contract	
18.1	Capacity to provide maintenance and repair service	Vendor/manufacturer shall have adequate facilities, spare parts, qualified and skilled technical staff to offer comprehensive maintenance contract for at least 10 years

Item Description			**Autoclave, Large, 85 Litres**
Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	Sterilization

1. General Description Automatic, microprocessor controlled steam sterilizer suitable for sterilization of hospitals porous and non-porous loads. The autoclave should be horizontal stand-alone type and constructed from double walled high-grade stainless steel materials.		
2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Application	For sterilization of hospitals porous and non- porous Loads.
3.1.2	Sterilization agent	Saturated steam with inbuilt steam generator
3.1.3	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
3.1.4	Sterilization temperature range	105°C to 137°C, selectable programs for different kind of loads
3.1.5	Pressure equalization	By sterile HEPA filter, replaceable
3.2	Sterilization chamber design and capacity	Horizontal type, 85 litres, all high grade stainless steel construction
3.2.1	Sterilization Chamber door	Fully automatic, hydraulic, vertical or horizontal sliding.
3.3	Control unit	Microprocessor based controlling all operational cycles With large LCD or similar display of cycle progress i.e. temperature, pressures and time. With different programmable cycle programs for different type of loads. With facilities for calibration.
3.4	Steam generator	In built, Electrical heating three phase 415V, 50 Hz
3.5	Water to steam generator	De- carbonated water to safe guard heating element. Suitable RO filter units to be installed
3.6	Printer	In built printer capable of printing each successful cycle. Preferable thermal printer

3.7	Safety features	The autoclave should have major safety features such as: Safety pressure relief valve Door lock under pressure
3.8	Raw water Treatment	Supply and install, RO water filtration system for raw water complete with Pre-filters .
3.9	Water re-cycling system	Supply and install a water recycling system. System to be composed of a water reservoir (500 litres), piping system water pump and control unit
4	Physical characteristics	
4.1	Main unit	Floor mounted, stand alone
	Dimensions	About 1.2 x 1.4 x 1.2m (WxHxD)
5	Operating environment	
5.1	Power Requirements	415V, A/c 50 Hz, Single phase, with PE
	Ambient temperature	10^{o} C to 40^{o} C
	Relative humidity	40% to 90%
6	Accessories	
	Pull out trays, containers, and baskets.	1 Set
6.1	Loading cart, stainless steel	1 Piece
6.2	Automatic Voltage Regulator (AVR)	For the electronic circuit only
6.2.1	Capacity	Over VA of the electronic circuit
6.2.2	Input	Ac 240V, 50Hz, Single phase ± 15%
6.2.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %
7	Spare parts	
7.1	Heaters	2 sets
7.2	Printing papers	10 Rolls
7.3	Door gaskets	2 Sets
7.4	RO filter cartridges,	2 Set
9	Quality standards	
9.2	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
10	Local back up service	
10.1	Available	Should be available locally
10.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
11	Delivery point	
11.1	See Hospital Schedule	For inspection, installation, testing and commissioning
12	Pre installation works	
	Provide for foundation plinth, necessary plumbing works and electrical works including cabling, trunking and switch gears required to install the autoclave and its accessories to required IEE standards	
13	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep
14.2	Maintenance training	On-site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets

15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil
18.	Maintenance contract	
18.1	Capacity to provide maintenance and repair service	Vendor/manufacturer shall have adequate facilities, spare parts, qualified and skilled technical staff to offer comprehensive maintenance contract for at least 10 years

Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	Operating Theatre
Item Description			**Caesarian Section set**

1. General Description

- Standard C/S sets. The instruments should be constructed from high grade stainless steel and packed in a stainless steel container. All the items shall be engraved with the manufacture's logo or name.

- **Packaging parameters:**

- Individually packed in a box
- Standard weight of carton 15-30kg during the final delivery to hospitals.
- Each carton to be clearly marked with the name and characteristics of the article and number of units per carton.

- **Labeling parameters:**

- Labeling should be in English.
- Product should be labeled with: Manufacturer's Name and address, Country of Origin, Batch No, Date of Manufacture.

Should conform to KEBS / ISO standard or equivalent.

2. Composition

2.1 Main Kit

3 Description of instrument Quantity

ITEM	DESCRIPTION	QUAN

	1	Rampley Sponge Forceps 9½"	5
	2	Spencer Wells Artery Forceps Straight 7"	6
	3	Chances Curved Artery Forceps Curved 7"	6
	4	Dunhill's Artery Forceps 5"	10
	5	Mayo Scissor Straight 7" And 6"	2
	6	Mayo Scissor 7 "& 6" (COF)	1
	7	Ligature Scissor 5"	1
	8	Lane Dissecting Forceps Toothed 6"	2
	9	Trevers Dissecting Forceps Non – Toothed 6"	2
	10	Sims Needle Holders Straight 7"	2
	11	Bard Parker Handle No. 4	2
	12	Bard Parker Handle No. 3	1
	13	Green Armitage Forceps 9"	10
	14	Doyens Bladder Retractor 10"	1
	15	Lane Tissues Forceps 6"	2
	16	Allis Tissue Forceps 6"	4
	17	Little Wood Tissue Forceps 6"	4
	18	Towel Clips 5"	6
	19	Mayo Pins 4½"	3
	20	Suction Artistatic Tube7"	2
	21	Langenbeck Retractor 8"	1
	22	Morris Retractor 8½"	1
	23	Adson dissecting forceps toothed 6"	1
	24	Hosley needle holder 6"	1
	25	Sterilization container 18" x 24" x 4"	1

4	Quality standards	
4.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	See schedule

Item Description			**Ultrasound combination therapy**
Department	Physiotherapy	Room Name/No.	

1. General Description

A compact, portable system that merges therapeutic ultrasound with additional modalities (usually electro-therapy or laser) to treat musculoskeletal pain, promote tissue healing, and improve range of motion. The dual-mode output lets clinicians tailor treatment to the condition, depth, and patient comfort.

2. Composition

2.1. Ultrasound combination therapy – 1 No.

3. Performance Specifications

3.1 - Ultrasound Component;

- Frequency: 1 MHz / 3 MHz selectable

		- Power output: 0 – 30 W (continuous) or 0 – 60 W (pulsed). - Duty cycle: 10 % – 100 % (pulsed mode) - Beam area: 5 cm² (standard head) or 10 cm². - Treatment depth: up to 5 cm (1 MHz) or 2 cm (3 MHz) - Combination Modality; - Electro-therapy: 2-channel, 0 – 100 mA, 1 kHz – 100 kHz (adjustable) - Laser: 808 nm or 904 nm, 0 – 500 mW (class 3B) - Simultaneous or sequential delivery selectable via touchscreen - Display & Controls; - 7-inch color LCD with intuitive menu - Preset protocols (e.g., tendinitis, arthritis, wound healing). - Manual adjustment of intensity, time, frequency, and mode - Treatment Time; - 1 – 30 minutes per session (user-set) - Safety Features; - Automatic shut-off on probe overheating - Low-frequency leakage detection - Power Supply; - 220-240 V AC, 50/60 Hz - Internal rechargeable battery (up to 2 h operation) - Dimensions; (W × D × H) - About 260 mm × 210 mm × 120 mm - Weight; - 2.2 kg (including battery) - Accessories - 1 MHz and 3 MHz ultrasound heads (detachable) - Electro-therapy pads (pair) - Laser applicator - Carrying case, coupling gel, power cord.
4	Quality standards	
4.1	Manufacturing standards	- IEC 60601-1 compliant or FDA-cleared, CE-marked.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets

9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	Theatre
Item Description			**Dissembling and Sorting table**
1. General Description Table suitable for dissembling and sorting instruments in a sterile hospital sterilization department (CSSD). It shall be constructed from high grade stainless steel.			
2. Composition			
2.1	Main unit		
3. Physical Specifications			
3.1	Main Unit		
3.1.1	Material of main unit	Sturdy tubular framework constructed from stainless steel grade - S.S.304 grade	
3.1.2	Top	Lightened table top, stainless steel; grade - S.S.304 grade, 1.5mm thickness laser cut	
3.1.3	Overall Dimensions	Approx. 1400mm x w 900mm x h 850mm	
3.1.4	Mobile	Antistatic castors with brake 100 mm Diameter	
4	Quality Standards		
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards	
4.2	Conformity to standards	CE marked or any other internationally recognized documents	
5	Delivery point		
5.1	See schedule	Delivery point	
6	Warranty		
6.1	Equipment	Minimum of one year after delivery	
6.2	Equipment System	Nil	

Item Description			**Electrosurgical unit**
Department	Operating rooms	Room Name/No.	Operating theatres, Sterilization and Instrument sets
1. General Description High frequency electro surgical (diathermy) machine suitable for general surgery in a specialized hospital. The unit should be microprocessor based and capable of performing cutting, coagulation and blend functions at varying power output and complete with foot switch, electrodes and a cart (trolley). The output should be isolated.			

2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Output power	Nominal high frequency output of about 300W adjustable up and down with touch button keys or convenient controls. With automatic output regulation against excess impedance (TUR)
3.1.2	Cutting:	Monopolar, bipolar and blend functions Activation by finger-switch and/or foot switch
3.1.3	Coagulation	Monopolar, bipolar, low forced and spray Activation by finger switch and / or foot switch
3.1.4	Bipolar	Very low voltage
3.1.5	Wave form	Modulated pulse or Hemostatic or equivalent
3.1.6	Display	Digital Read out
3.1.7	Active patient electrode	Active patient electrode with standard electrode handle, with finger switch and connecting cable, reusable and autoclavable at 134°C
3.1.8	Patient plate	Patient (in different) plate, reusable rubber With connecting cable, autoclavable at 134°C
3.1.9	Foot Switch	Two pedal foot switch for cut and coagulation water proof, explosion proof, cable length about 5 m.
3.1.10	Safety/ alarm devices	
	Dosage rate control	Audible and visual alarm
	Leakage current	Audible and visual alarm
	Patient plate split	Audible and visual alarm
	Short circuit	Audible and visual alarm
4	Physical characteristics	
4.1	Main unit	Mounted on mobile cart
4.2	Dimensions	Maximum 500 x 150 x 400 mm (WxHxD)
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase, 3 Pin Plug, 3m long cord with PE
5.2	Ambient temperature	10° C to 40° C
5.3	Relative humidity	40% to 90%
6	Accessories	
6.1	Standard electrode handle, with finger switch and connecting cable, reusable	3 Pcs
6.2	Monopolar standard surgical electrode set consisting of stainless steel container or plastic container complete with standard electrode set (blades, lancet, knives, needles, wire loops, balls and plates).	2 Sets
6.3	Bipolar forceps with connecting cable, reusable	3 Pcs
6.4	Standard assorted sizes of	1 Set

	bipolar forceps, reusable	
6.5	Patient (in different) plate, reusable rubber With connecting cable	2 Pcs
6.6	Foot Switch-Monopolar	1 Pc
6.7	Foot Switch-Bipolar	
6.8	Bipolar Cable	2 Pcs
6.9	Active Patient Electrode	2 Set
6.10	Automatic Voltage Regulator (AVR)	
6.10.1	Capacity	Over VA of the main Unit
6.10.2	Input	Ac 240V, 50Hz, Single phase ± 15%
6.10.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %
7	Quality standards	
7.1	Manufacturing standards	ISO 13485 or any other recognised International Standards,
7.2	Product conformity standards	EU-93/42/EEC, IEC 60601-1, EN 740, FDA approved or any other internationally recognized, equivalent and approval standards
8	Delivery point	
8.1	See attached schedule	For Delivery, inspection and testing
9	Installation and testing	
9.1	Complete installation and set up of the machine at the delivery sites as per manufacturer's instructions	
10	Training	
10.1	User Training	On site user training on operation and daily up keep
10.2	Maintenance training	On site maintenance training on preventive maintenance
11	Technical documentations	
11.1	User manuals	2 Sets
11.2	Service Manual	2 Set
11.3	Drawings	Nil
12	Commissioning	
12.1	Testing and commissioning of the machine to the satisfaction of the user.	
13	Warranty	
13.1	Equipment	Minimum of one year after commissioning on all parts.
13.2	Equipment System	Nil
14.	Maintenance contract	
14.1	Capacity to provide maintenance and repair service	Vendor/manufacturer shall have adequate facilities, spare parts, qualified and skilled technical staff to offer comprehensive maintenance contract for at least 10 years

Department	Operating theatres, Sterilization and Instrument sets 2	Room Name/No.	Instrument Sets
Item Description			**Foreign body (ear / nose) Set**
1. General Description ■ Standard Foreign body (ear /nose) Set. The instruments should be constructed from high grade			

stainless steel and packed in a stainless steel container. All the items shall be engraved with the manufacture's logo or name.

- **Packaging parameters:**

- Individually packed in a box
- Standard weight of carton 15-30kg during the final delivery to hospitals.
- Each carton to be clearly marked with the name and characteristics of the article and number of units per carton.

- **Labeling parameters:**

- Labeling should be in English.
- Product should be labeled with: Manufacturer's Name and address, Country of Origin, Batch No, Date of Manufacture.

Should conform to KEBS / ISO standard or equivalent.

2. Composition
2.1 Main Kit

3 Description of instruments Quantity

ITEM	DESCRIPTION	QUAN
1	Rampley Sponge Holding Forceps 9½"	5
2	Back Haul Towel Clips 3"	5
3	Black Aural Speculum – Small3.5mmØ	1
4	Black Aural Speculum – Medium4.5mmØ	1
5	Black Aural Speculum – Large5.5mmØ	1
6	Hartman Aural Forceps – Serrated Jaws	1
7	Hartman Crocodile Forceps – Separated Small1mmx3.5mm	1
8	Hartman Henkel Forceps 5½"	1
9	Hartman Tenaculum Forceps Fine	1
10	Hartman Cup Forceps Crocodile Black	1
11	Set / Vittalum	1
12	Tilley Forceps 6"	1
13	Jobson Aural Scoop 5"	1
14	Chisel Red Loop 2 Mm	1
15	Zoellner Nasal Sucker	1
16	Kalians' Nasal Speculum – Short	1
17	Kalians' Nasal Speculum Medium	1
18	Micro Suckers For ear	2
19	Frazier Suction 9" Stillete	1
20	Kidney Dish 8" Or 6"	1
21	Galipot 4"	1

	22	Edinburg Tray 12" X 18"	1	
	23	Tonsil Pack	1	

4	Quality standards	
4.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	See schedule

Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	Instrument Sets
Item Description			**Incision & Excisional biopsy**

1. General Description

Standard Incision & Excisional biopsy

- . The instruments should be constructed from high grade stainless steel and packed in a stainless steel container. All the items shall be engraved with the manufacture's logo or name.

- **Packaging parameters:**

- Individually packed in a box
- Standard weight of carton 15-30kg during the final delivery to hospitals.
- Each carton to be clearly marked with the name and characteristics of the article and number of units per carton.

- **Labeling parameters:**

- Labeling should be in English.
- Product should be labeled with: Manufacturer's Name and address, Country of Origin, Batch No, Date of Manufacture.

Should conform to KEBS / ISO standard or equivalent.

2. Composition

2.1 Main Kit

3	Description of instrument	Quantity
1	Sponge Holding Forceps 7"	3
2	Artery Forceps Straight 5"	6
3	Artery Forceps Curved 5"	6
4	Dissecting Forceps Toothed 5"	2
5	Dissecting Forceps Non –Toothed 5"	2
6	Dissecting Scissor 6"	2

	7	Straight Scissor5"	2	
	8	Ligature Scissor 5"	1	
	9	Senn Retractors 6"	2	
	10	Allis Tissue Forceps 6"	2	
	11	Band Parker Handle No. 3	1	
	12	Kidney Dish 6"	1	
	13	Needle Holder 6"	1	
	14	Towel Clips backhause 5¼"	2	
	15	Ss Tray 9"x8"	1	
4	Quality standards			
4.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards		
4.2	Conformity to standards	CE marked or any other internationally recognized documents		
5	Delivery point	See schedule		

Department	Operating theatres, Sterilization and Instrument sets 2	Room Name/No.	Instrument Sets
Item Description			**Incision Tray**

1. General Description

Standard incision tray

- . The instruments should be constructed from high grade stainless steel and packed in a stainless steel container. All the items shall be engraved with the manufacture's logo or name.

- **Packaging parameters:**

- Individually packed in a box
- Standard weight of carton 15-30kg during the final delivery to hospitals.
- Each carton to be clearly marked with the name and characteristics of the article and number of units per carton.

- **Labeling parameters:**

- Labeling should be in English.
- Product should be labeled with: Manufacturer's Name and address, Country of Origin, Batch No, Date of Manufacture.

Should conform to KEBS / ISO standard or equivalent.

2. Composition

2.1 Main Kit

3	Description of instrument	Quantity
1	SS Tray10"X8"	1
2	Kidney Dish 8"	1
3	Galipots 2½"	1
4	Dissecting Forceps None Toothed 5"	1
5	Band Parker Handle No. 3	1
6	Mosquito Artery Forceps Straight 5"	2
7	Volkmann's Scoop 8½"	1
8	Silver Proze5"	1
9	Dissecting Forceps Toothed 5"	1
10	Needle Holder mayo 6½"	1
11	Stitch Scissor5"	1
12	Fine Scissor (incision Scissor) 5"	1
13	Corrugated Drawn Pin	1
14	Dressing Forceps5"	1

4	Quality standards	
4.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	See schedule

Item Description			**Crutches**
Department	Physiotherapy	Room Name/No.	

1. General Description
Crutches are mobility aids designed to support users with walking difficulties

2. Composition
2.1. Crutches – 1 No.

3. Performance Specifications

3.1 Types:
1. Underarm Crutches: Traditional crutches that fit under the armpit.
2. Forearm Crutches: Crutches with forearm cuffs for added support.
3. Platform Crutches: Crutches with a platform for users who can't bear weight on their hands.

Key Components:
- Handles: Adjustable grips for comfort.
- Tips: Rubber or metal tips for traction.
- Cuffs: Underarm or forearm supports.

Technical Specs:
- Material: Aluminum.
- Height Adjustment: Adjustable (e.g., 30-55 inches).

		- Weight Capacity: Varies (e.g., 100-250 kg). - Weight: 0.5-1.5 kg per crutch.
4	Delivery point	
4.1	See Schedule	For inspection and testing
5	Warranty; Minimum of one year	

Item Description			**Operating Theatre Table**
Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	Operating rooms

1. General Description Operating table suitable for use in theatre for major operations. It should be capable of performing lateral tilt, up-down movement, trendelenburg and reverse trendelenburg position, and back section refraction. The movement should be electrically operated, 240V, single phase		
2. Composition		
2.1	Main unit	
3. Physical Specifications		
3.1	Main Unit	
3.1.1	Table top	Length 1950 X width 500 mm
3.1.2		X-ray Permeable
3.2	Head rest	Detachable
3.3	Leg rests	Detachable
3.4	Material of main unit	High grade stainless steel
3.5	Height of table top	Adjustable, Electrical operated, 700mm to 1100mm
3.6	Table top movements	
3.6.1	Trendelenburg	Forward: 25°, Reverse: 25°
3.6.2	Lateral – tilt	20° both to the left and right
3.6.3	Back- section refraction	90°
3.6.4	Table top turn	180°
3.6.5	Main unit movements	Mobile with 4 antistatic, Φ150mm, 2 castors with brakes
3.7	Maximum load weight	250 Kg
4.8	Accessories	
4.8.1	Mattress	High density type easy to cleaned, 2" thickness
4.8.2	Arm board with mattress	1 piece
4.8.3	Shoulder support with pads	2 pieces
4.8.4	Foot board	1 set
4.8.5	Knee crutches	2 pieces
4.8.6	Screen frame	1 piece
4.8.7	Body support with pads	2 pieces
4.8.8	I. V. pole, adjustable height	1piece
5.1	Manufacturing standards	ISO 13485 or any other recognised International Standards,
5.2	Product conformity standards	EU-93/42/EEC, FDA approved or any other internationally recognized, equivalent and approval standards

6	Delivery point	
6.1	See hospital schedule	For Delivery, inspection and commissioning
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning on all parts.
7.2	Equipment System	Nil
8.	Maintenance contract	
8.1	Capacity to provide maintenance and repair service	Vendor/manufacturer shall have adequate facilities, spare parts, qualified and skilled technical staff to offer comprehensive maintenance contract for at least 5 years

Item Description			**Operating Theatre light, Ceiling Type**
Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	Operating rooms

1. General Description Surgical light (Operating lamp) ceiling mounting type. The surgical light should consist of two lamp head, main and auxiliary (dual type). It should be constructed from light weight material preferable aluminum, and easily to disinfect. It should have emergency back up power supply to last for at least 2 hours.		
2. Composition		
2.1	Main unit and auxiliary lamp head	
3. Performance Specifications		
3.1	Main and auxiliary lamp head	
3.1.1	Diameter	700-900 mm, light weight for each main and auxiliary unit
3.1.2	Rotation	360^{o} along the central axis
3.1.3	Maximum light intensity	About 150,000 lux at 1 meter each
3.1.4	Focus	Adjustable
3.1.5	Field	Constant to a depth of at least 500mm
3.1.6	Field	shadow less
3.1.7	Light colour Temperature	3700to 4500^{o} K
3.1.8	Lighting Control	Electronic system with touch button light intensity
3.1.9		Control mounted at a convenient place preferable on the head lamp.
3.1.10	Lighting Bulb	Low voltage LEDs
3.1.11	IR filtration	> 95% (Cold light)
3.1.12	Others	With automatic exchange of bulb in case of fault
3.1.13	Mounting ceiling Height	Minimum 2.5m above floor
3.2	Accessories	
3.2.1	All mounting accessories	Ceiling anchor plates,
3.2.2		Bolts, nuts and other necessary
4	Physical characteristics	

4.1	Main lamp head	Diameter 700 to 900 mm
4.2	Auxiliary lamp head	Diameter 700-900 mm
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase, with PE
5.2	Ambient temperature	10° C to 40° C
5.3	Relative humidity	40% to 90%
6	Emergency Back up power	To least for at least 2 hour
6.1.1		With sealed lead acid batteries
6.1.2		Automatic change over and charger unit
6.2	Automatic Voltage Regulator (AVR)	
6.2.1	Capacity	Over VA of the main Unit
6.2.2	Input	Ac 240V, 50Hz, Single phase ± 15%
6.2.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %
7	Spare parts	
7.1	Spare bulbs	2 units
8	Quality standards	
8.1	Manufacturing standards	ISO 13485 or any other recognised International Standards,
8.2	Product conformity standards	EU-93/42/EEC, IEC 60601-1, FDA approved or any other internationally recognized, equivalent and approval standards
9	Local back up service	
9.1	Available	Should be available locally
9.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
12	Pre installation requirements Prepare roof for installation	
13	Installation and testing Complete installation and set up of the machine at per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep
14.2	Maintenance training	On site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.

Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	Instrument Sets
Item Description			**Cut down adult set**

1. General Description

- Standard Cut down adult set. The instruments should be constructed from high grade stainless steel and packed in a stainless steel container. All the items shall be engraved with the manufacturer's logo or name.

- **Packaging parameters:**

- Individually packed in a box
- Standard weight of carton 15-30kg during the final delivery to hospitals.
- Each carton to be clearly marked with the name and characteristics of the article and number of units per carton.

- **Labeling parameters:**

- Labeling should be in English.
- Product should be labeled with: Manufacturer's Name and address, Country of Origin, Batch No, Date of Manufacture.

Should conform to KEBS / ISO standard or equivalent.

2. Composition

2.1 Main Kit

3	Description of instrument	Quantity
1	Bard Parker Handle No. 4	1
2	Bard Parker Handle No. 3	1
3	Aurecht Scissor	1
4	Stitch Scissor Sharp 5"	1
5	McIndoes Dissecting Forceps Non – Toothed 7"	1
6	Kilner Dissecting Forceps Toothed 5½"	1
7	Mosquito Artery Forceps Straight 5"	2
8	Mosquito Artery Forceps Curved 5"	4
9	Blunt Hook Solid Forceps	2
10	Aneurysm Needle Large 6"	1
11	Kilner Needle Holder 7"	1
12	Galipots 4"	4
13	SS Tray 12"x8"	1

4	Quality standards	
4.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	See schedule

Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	CSSD
Item Description			**Ultrasonic washer**

1. General Description

For cleaning and disinfection of instruments, construct from robust non corrosive material. Internal tank constructed from high grade stainless steel. With temperature control and cleaning time control.

2.1	Capacity internal tank	Minimum 21 litres
2.2	Technology	Microprocessor control
2.3	Heating	Electric with adjustable temperature up to 93° C
2.4	Cleaning time	Adjustable
2.5	Transducer	Ultrasound, adjustable energy
2.6	Display	LCD water proof
2.7	Dimensions External (mm)	600 W X 340 D X 450 H
2.8	Power	Single phase 240 V, 50Hz
3	Quality standards	
3.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
3.2	Conformity to standards	CE marked/ FDA approved or any other internationally recognized documents
4	Delivery point	
4.1	See schedule	For inspection and testing, pre installation works (electric, plumbing, masonry), and commissioning

Item Description			**Ripple Mattress**
Department		Room Name/No.	

1. General Description

A ripple (alternating pressure) mattress is a powered, air-filled support surface that cyclically inflates and defaults zones of the mattress to redistribute pressure and reduce the risk of pressure-injury. It is used in hospitals at moderate-to-high risk of skin breakdown.

2. Composition

2.1. Ripple Mattress – 1 No.

3. Performance Specifications

3.1

- Construction: High-frequency, low-profile silicone-coated nylon fabric with internal multi-cellular air chambers (12-18 cells per side).
- Dimensions : About 200 cm × 90 cm × 15 cm (L × W × H.
- Weight (empty): About 4 kg.
- Maximum Patient Weight: About 150 kg.
- Power Supply: 220-240 V AC, 50/60 Hz; internal 12 V DC pump.
- Pump Unit: Quiet brushless motor, < 45 dB(A) at 1 m; adjustable cycle time (5-15 min).

		- Pressure Settings: 10-30 mm Hg (adjustable in 1 mm Hg increments); automatic pressure sensor feedback. - Cycle Modes: - Full-body alternating (12-cell) - Static low-pressure (continuous inflation) - Static high-pressure (firm surface) - Control Interface: Digital LCD panel with preset programs (e.g., "Low Risk", "High Risk", "Post-Op") and manual override. - Safety Features: Over-pressure release valve, low-pressure alarm, automatic shut-off after 30 min of inactivity, anti-microbial coating. - Cleaning: Fully removable, machine-washable cover (water-proof, 100 % polyester) compatible with standard hospital disinfectants; pump unit wipe-down only.
4	Quality standards	
4.1	Manufacturing standards	- Compliance: ISO 13485, CE-marked, FDA-cleared (Class II medical device), meets IEC 60601-1 safety standards.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Department	Maternity	Room Name/No.	N/A
Item Description			**Baby Cot**
1. General Description Baby Cot with drop down side rail. Robust stainless steel construction on four antistatic castors φ 60mm, 2 lockable. Complete with antistatic high density mattress covered with vinyl leather material.			
2. Composition 2.1 Main unit			
3. Physical Specifications 3.1 Main Unit 3.1.1 Type			

3.1.2	Material of main unit	Stainless steel
3.1.4	Side rails	Drop down type
3.15	Mattress	High density form mattress with removable leather imitation material or Water proof type cover
3.1.5	Dimensions (Overall)	1200 mm(L) X 640mm (W) X 800mm(H)
3.1.6	Mobile	With 4 rubber castors φ 60mm, with locking system
3.1.7	Weight to handle	30 kg
4	Quality Standards	
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1	See Schedule	Delivery point
6	Warranty	
6.1	Equipment	Minimum of one year after delivery
6.2	Equipment System	Nil

Department	Maternity	Room Name/No.	New born
Item Description			**Infant incubator**

1. General Description

Robust metal design on four castors φ 60mm, capable of providing, skin temperature, controlled humidity, controlled oxygen, with digital read out of temperature and alarm system for high temperature and power failure. Complete with oxygen connection bull nose type, mattress and other standard accessories. .

2. Composition

2.1	Main unit	

3. Performance Specifications

3.1	Main Unit	
3.1.1	Canopy/Hood	Size about 140cm H X 95cm W X 50cm D, constructed from Perspex or any other material that will allow observation of the infant easily. It should have a front panel which can open fully and lockable semi iris openings.
3.2	Stand	Made from epoxy coated mild steel or equivalent. Should be mobile on castors φ 60mm with locks.
3.2.1	Height	Adjustable from about 900mm to 1100mm.
3.3	Drawer	The unit should have at least two lockable drawers
3.4	Control Unit	Microprocessor- based, servo controlled unit capable of precise measurement and control of incubator temperature humidity, air (oxygen) and infant skin temperature.
3.4.1	Incubator air temperature	Adjustable, from + 23°C to +39°C , stable and uniform distribution, Accuracy ± 0.1°C
3.4.2	Skin Temperature	Adjustable, from + 35°C to +39°C with accuracy of ± 0.1°C
3.4.3	Humidity	Adjustable from 40% to 95% with accuracy of ± 0.1%. Humidity chamber should be easily removable.
3.4.4	Oxygen	Adjustable – 21% to 80% Can connect to Oxygen cylinder via bull nose connection
3.5	Display	Digital display of all parameters LED type
3.6	Bed and Mattress	Water proof and easily removable. Can be tilted by electrical adjustments. Natrress to have pressure relief facilities.

3.7	Noise Level	Very low, Bumpers to be provided in all doors
3.8	Air filter	High performance, replaceable
3.9	Weighing scale	Inbuilt, digital type
3.10	Safety features	Alarms, audible and visible, for temperature setting, air /skin probe failure, power failure, system failure, humidity and airflow failure.
4	Physical characteristics	
4.1	Main unit	Robust construction and easy to clean
4.2	Dimensions	See above
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase
5.2	Ambient temperature	10° C to 40° C
5.3	Relative humidity	40% to 90%
6	Accessories	
	I.V. Pole	1 pieces
	Oxygen flow meter	1 piece, Gas cylinder mounting type (bull nose connection)
6.1	Mattress Sheet	1 Box
7	Spare parts	
7.1	Skin temperature probe	5 sets
7.2	Oxygen sensor	2 pieces
7.3	Any other manufacturer's recommended gaskets/ spare parts	2 set
7.4	Air filter	5 Sets
8	Consumables/Reagents	
8.1	Nil	
9	Quality standards	
9.2	Manufacturing standards	IEC 60601-2-19:2020 Medical electrical equipment - Part 2-19: Particular requirements for the basic safety and essential performance of infant incubators
	Conformity to standards	CE marked or any other internationally recognized documents
10	Local back up service	
10.1	Available	Should be available locally
10.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
11	Delivery point	For inspection, testing and installation
12	Pre installation requirements Nil	
13	Installation and testing Complete installation and set up of the machine as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep
14.2	Maintenance training	On site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets

15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil

Department	Maternity	Room Name/No.	N/A
Item Description			**Phototherapy Unit**

1. General Description		
Phototherapy unit		
2. Composition		
2.1	Main unit	
	AVR	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	The unit should be a model or type on current production	
3.1.2	Type	Stand type
3.1.3	Light method	Inverter system
3.1.4	Irradiation lamp	Blue light
3.1.5	Irradiation panel tilt	Freely
3.1.6	Number of Irradiation lamp	5 pcs
3.1.7	Height	Adjustable from 100 to 150 cm
5	Physical characteristics	
5.1	Main unit	
5.2	Cart	Provided
5.3	Mounting	To be mounted on a mobile stand with castors.
6	Operating environment	
6.1	Power Requirements	240V, A/c 50 Hz, Single phase, 3 Pin Plug, 3m long cord BS type with PE
6.3	Ambient temperature	10^{o} C to 40^{o} C
6.4	Relative humidity	40% to 90%
7	Accessories	
7.8	Automatic Voltage Regulator (AVR)	1 Unit
7.8.1	Capacity	Over VA of the main Unit
7.8.2	Input	Ac 240V, 50Hz, Single phase ± 15%
7.8.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %
8	Consumable	
8.1	Light cover for shielding day light	2 pcs
	Eye mask for premature baby	20 pcs
	Eye Mask for new born	20 pcs
8	Spare parts	
8.1	Blue lamp	5 pc

9	Quality standards	
9.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
9.2	Conformity to standards	CE marked/ FDA approved or any other internationally recognized documents
10	Local back up service	
10.1	Available	Should be available locally
10.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, consumables and qualified and skilled technical staff
11	Delivery point	
11.1	See Schedule	For inspection and testing
11.2	Nil	
12	Pre installation requirements	
	Nil	
13	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep
14.2	Maintenance training	On site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil

Department	Kitchen, Laundry, Biomedical tools and Medical Waste Management Equipment	Room Name/No.	Laundry
Item Description			**Dryers**

General Description

Supply, delivery and installation of Industrial Tumble Dryer machine . Model on current production. The machine should be constructed from rigid stainless steel. It should be capable of drying two full loads of hospital linen in one hour. The machine should be microprocessor controlled with fully programmable control unit and selectable temperatures and time controls and a digital read out. Should have a large door opening for easy loading and unloading of hospital linen.

2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Load Capacity	50 Kg

3.1.2	Door type	Horizontal loading/unloading
3.1.3	Door Size	Large - minimum diameter 1000 mm
3.1.4	Water heating	In built electrical heaters, 415V, 3 Phase 50Hz
3.1.5	Vibration	Very low, About 800 rpm
	Construction	Drum- stainless steel Front- Stainless steel
3.1.7	Technology	Microprocessor controlled, programmable with Digital Display Drive motor speed- Electronic controlled
	Temperature control	Selectable
	Drying time	Selectable
3.1.8	Construction	Stainless steel
3.1.9	Filter	Replaceable, easy to clean
3.1.10	Extraction diameter	About 20 cm
3.1.11	Low vibrations	
3.1.12	Low Noise Level	Approximately 70 dB(A)
4	Physical characteristics	
4.1	Main unit	
4.1.1	Approximate dimensions	1000 mm L 1300 mm D 1800 mm H
5	Operating environment	
5.1	Power Requirements	415V, 3 Phase, 50 Hz
6	Spare parts	
6.1	Door Seal	2 No.
6.2	Heaters	3 Sets
6.3		
7	Quality standards	
7.1	Manufacturing standards	ISO 9001
7.2	Conformity to standards	CE marked or any other internationally recognized documents
8	Delivery point	
8.1	See Schedule	
9	Installation and testing	
9.1	Provide foundation plinth as per manufacturer's instructions	
9.2	Supply and install isolator 100A TPN 1 No	
9.3	Supply and install cabling from isolator to machine, 3m 10mm2 PVC insulated,	
9.4	Complete installation and set up of the machine as per manufacturer's instructions	
9.5	Test run for about 8 hour	
10	Training	
10.1	On site user training	
10.2	On site maintenance training	
11	Technical documentations	
11.1	User manuals	2 Sets
11.2	Service Manual	1Set
12	Commissioning	
12.1	Commissioning of the machine to the satisfaction of the user.	
13	Warranty	
13.1	Equipment	One year after commissioning, on all parts

Department	Kitchen, Laundry, Biomedical tools and Medical Waste Management Equipment	Room Name/No.	Kitchen
Item Description			**Gas cooking System**

1. General Description

Supply, delivery and installation of Industrial/commercial gas cooking System. The unit should be suitable for preparing food in a hospital environment. It shall be constructed from stainless steel and consist of 4 burners in a row, with controls, and pressure regulators.

2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	Stainless steel construction, with top panel and four studs
3.1.1	Gas burners	Industrial type 4 No. in a row
3.1.2	Fuel	LPG natural
3.1.3	Control Knobs	One for each burner, independent
3.1.4	Pressure regulators	To be included
4	Physical characteristics	
4.1	Main unit	
4.1.1	Approximate dimensions	145L 47 W 80 H cm
5	Operating environment	
5.1	Power Requirements	415V, 3 Phase, 50 Hz
6	Spare parts	
6.1	Door Seal	2 No.
6.2	Hose kit for water	1 No.
6.3	Heaters	3 Sets
7	Quality standards	
7.1	Manufacturing standards	ISO 9001
7.2	Conformity to standards	CE marked or any other internationally recognized documents
8	Delivery point	
8.1	See Schedule	
9	Installation and testing	
9.1	Complete installation and set-up of the machine as per manufacturer's instructions	
10	Training	
10.1	On site user training	
10.2	On site maintenance training	
11	Technical documentations	
11.1	User manuals	2 Sets
11.2	Service Manual	1Set
12	Commissioning	
12.1	Commissioning of the machine to the satisfaction of the user.	
13	Warranty	
13.1	Equipment	One year after commissioning, on all parts

Item Description			**Shoulder Wheel**
Department	Physiotherapy	Room Name/No.	

1. General Description

A shoulder wheel is a low-profile, manually-operated apparatus that guides the arm through a smooth, circular range-of-motion. It's used to restore mobility, strength, and coordination after injury, surgery, or prolonged immobilization of the shoulder girdle. The patient sits or stands and pushes the handle around a calibrated wheel, allowing controlled, repeatable movements in flexion, extension, abduction, and internal/external rotation.

2. Composition

2.1. Shoulder Wheel – 1 No.

3. Performance Specifications

3.1		- Frame: Heavy-duty steel tubing, powder-coated; overall footprint ~ 55 cm × 55 cm, height adjustable 90–130 cm. - Wheel Diameter: 45 cm and 30 cm for smaller patients. - Resistance: Adjustable friction brake (0–5 kg force) with lockable knob; interchangeable resistance bands (light, medium, heavy) for progressive loading. - Handle: Ergonomic, padded grip with 360° rotation; length 30 cm, detachable for cleaning. - Mounting: Wall-mount bracket (standard) or freestanding base with stabilizing feet; quick-release clamp for easy installation. - Weight Capacity: 120 kg (patient) / 30 kg (dynamic load on wheel). - Materials: Non-corrosive, wipe-down surface; handle covered with antimicrobial vinyl. - Dimensions: About 60 cm × 15 cm × 15 cm; weight 4 kg. - Accessories: Calibration gauge, replacement resistance bands, wall-mount hardware, carrying case.
4	Quality standards	
4.1	Manufacturing standards	- Compliance: CE-marked, ISO 13485, meets IEC 60601-1 safety requirements for medical equipment.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Department	Kitchen, Laundry, Biomedical tools and Medical Waste Management Equipment	Room Name/No.	Laundry
Item Description			**Ironer, roller type**

1. General Description

Supply, delivery and installation of an ironing machine. The unit should be suitable for ironing hospital linen. It should be an industrial roller type, microprocessor controlled with return feed system. The unit should be a model on current production.

2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Type	Industrial type consisting of heated cylinder/ roller
3.1.2	Length of Cylinder	About 1500 cm
	Cylinder diameter	About 50 cm
	Ironing speed	Adjustable
	Feeding	Front feeding and return feed system
3.1.3	Temperature setting	Adjustable
	Construction	Cylinder -polished steel Body- mild steel – polyester coated.
3.1.4	Heating system	In built electrical heaters, 415V, 3 Phase 50Hz
3.1.5	Technology	Microprocessor controlled, programmable with Digital Display Drive motor speed- Electronic controlled
3.1.6	Low Noise Level	Approximately 60 dB(A)
4	Physical characteristics	
4.1	Main unit	
4.1.1	Approximate dimensions	1800mm 600mm D 1500mm H L
5	Operating environment	
5.1	Power Requirements	415V, 3 Phase, 50 Hz
6	Spare parts	
6.3	Heaters	1 Sets
7	Quality standards	
7.1	Manufacturing standards	ISO 9001
7.2	Conformity to standards	CE marked or any other internationally recognized documents
8	Delivery point	
8.1	See Schedule	
9	Installation and testing	
9.1	Provide foundation plinth as per manufacturer's instructions	
9.2	Supply and install isolator 100A TPN 1 No	
9.3	Supply and install cabling from isolator to machine, 3m	

	10mm2 PVC insulated,	
9.4	Complete installation and set up of the machine as per manufacturer's instructions	
9.5	Test run for about 8 hour	
10	Training	
10.1	On site user training	
10.2	On site maintenance training	
11	Technical documentations	
11.1	User manuals	2 Sets
11.2	Service Manual	1Set
12	Commissioning	
12.1	Commissioning of the machine to the satisfaction of the user.	
13	Warranty	
13.1	Equipment	One year after commissioning, on all parts

Department	Kitchen, Laundry, Biomedical tools and Medical Waste Management Equipment	Room Name/No.	N/A
Item Description			**Kitchen Cold room**
1. General Description Kitchen Cold room			
2. Composition			
2.1	Main unit		
3. Performance Specifications			
3.1	Main Unit		
3.1.1	Material -Outside	Galvanized steel	
	Material- Inside	Stainless steel	
	Insulation	Poly/Isolynate or equivalent	
3.1.2	Type	Compressor, electrical, forced air circulation	
3.1.3	Door	Two glass door, with internal LED light	
3.1.4	Total net capacity	950 litres	
3.1.5	Temperatures range	-12°C to + 10°C adjustable	
3.1.6	Ambient temperature	10 ° C to 35°C	
3.1.7	Shelves	Provided, stainless steel, adjustable and extractable	
3.1.8	Thermometer	Digital, external mounted, with temperature record history	
3.1.9	Control	Electronic, Microprocessor based	
3.1.10	Refrigerant	CFC free	
3.1.11	Alarm	Provided, audible and visible	
3.1.12	Dimensions	Approximately D50x W 30 x 78H (inches	
3.1.13	Power	240V, 50 Hz, a.c	
4	Accessories		
4.1	Nil		
5	Quality standards		
5.1	Manufacturing standards	ISO 9001	
5.2	Conformity to standards	CE marked or any other internationally recognized documents	

6	Delivery point	
6.1	See Schedule	For inspection and testing
6.2	Nil	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning on all parts.
7.2	Equipment System	Nil
8	Accessories	
8.1	Automatic Voltage Regulator (AVR)	
8.1.1	Capacity	Over VA of the main Unit
8.1.2	Input	Ac 240V, 50Hz, Single phase ± 15%
8.1.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %

Item Description			**Medical waste Microwave & Shredder Equipment**
Department	Kitchen, Laundry, Biomedical tools and Medical Waste Management Equipment	Room Name/No.	Waste management

1. General Description

Medical waste microwave and shredder for on-site shredding and treatment of medical water in a health facility. The unit shall be compact design and integrated with feeding, shredding, disinfection/treatment, discharge and exhaust processes.

2. Composition

2.1	Main unit	

3. Performance Specifications

3.1	Main Unit	
3.1.1	Application	For shredding and treatment of medical wastes including metallic and plastics
3.1.2	Design	Compact design with integrated feeding, shredding, treatment, discharge and exhaust
3.1.3	Capacity	20kg/h of biological wastes
3.1.3	Feeding	Manual feeding
3.1.4	Shredding	Rotating grinder blades suitable for all types of waste including metal objects
3.1.5	Vessel volume	Approximately 100ltrs
3.1.6	Treatment	Microwave technology
3.1.7	Efficiency	6log 10 microbial inactivation
3.1.8	Discharge/ Exhaust	Automatic, disposal off into removable container
3.1.9	Control unit	Microprocessor based controlling all operational cycles With large LCD or similar display of cycle progress i.e. temperature, and time. With different programmable cycle programs for different type of loads. With facilities for calibration.
3.1.10	Process completion time	Approx. 30 minute

3.1.11	Safety features	should have major safety features such as: Door lock, process status, failure etc.
4	Physical characteristics	
4.1	Main unit	Floor mounted, stand alone
	Dimensions	About 1.7 x 1.3 x 1.1m (LxWxD)
5	Operating environment	
5.1	Power Requirements	415V, A/c 50 Hz, Three phase, with PE
	Ambient temperature	10^{o} C to 40^{o} C
	Relative humidity	40% to 90%
6	Accessories	
	Pull out final waste, containers.	1 Set
6.1	Loading cart, stainless steel	1 Piece
7	Spare parts	
7.1	Door gasket	1 sets
7.2		
7.3		
7.4		
9	Quality standards	
9.2	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
	Conformity to standards	NEMA standards and CE marked or any other internationally recognized documents
10	Local back up service	
10.1	Available	Should be available locally
10.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
11	Delivery point	
11.1	See Hospital Schedule	For inspection, installation, testing and commissioning
12	Pre installation works	
	Provide for foundation plinth, necessary plumbing works and electrical works including cabling, trunking and switch gears required to install the autoclave and its accessories to required IEE standards	
13	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep
14.2	Maintenance training	On-site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil
18.	Maintenance contract	
18.1	Capacity to provide maintenance and repair service	Vendor/manufacturer shall have adequate facilities, spare parts, qualified and skilled

	technical staff to offer comprehensive maintenance contract for at least 10 years

Department	Kitchen, Laundry, Biomedical tools and Medical Waste Management Equipment	Room Name/No.	Kitchen
Item Description			**Microwave heater**

1. General Description
Microwave heater, domestic type, for warming food

2. Composition

2.1	Main unit	Aluminum material with glass window
2.2	Heating	Microwave
2.3	Timer	Provided
	Capacity	20 litres
2.4	Heating menu	Provided, selectable
2.5	Power source	240V, ac 50 Hz

Department	Kitchen, Laundry, Biomedical tools and Medical Waste Management Equipment	Room Name/No.	Biomedical tools
Item Description			**Tool kit**

1. General Description

Supply and delivery of Biomedical Engineering tools kit. The tools shall be enclosed in a tool box.

2. Composition
2.1 Main unit

NO	DESCRIPTION OF ITEM	UNIT	QTY
1	Tool Box, metallic 450 x 210 x 150 mm with padlock	Pcs	1
2	Digital multimeter complete with leads, Fluke or equivalent	Pcs	1
3	Flat screw driver, insulated handle	Set	1
4	Star screw driver, insulated handle	Set	1
5	Phase tester 0 - 500V	Pcs	1
6	Wire stripper, insulated	Pcs	1
7	Combination pliers, chrome plated, insulated handle	Pcs	1

8	Long nose pliers, chrome plated, insulated handle 200mm(8")	Pcs	1
9	Round nose pliers, chrome plated, insulated handle	Pcs	1
10	Water pump plier 240 - 300mm	Pcs	1
11	Side cutter, chrome plated, insulated	Pcs	1
12	Electrician knife	Pcs	1
13	Universal test lamp 0 - 500V	Pcs	1
14	Soldering iron 45W, Weller or equivalent	Pcs	1
15	Spare heater for Soldering iron	Pcs	1
16	Spare bit for Soldering iron	Pcs	1
17	Desoldering suction tool	Pcs	1
18	Replacement nozzle for Desoldering suction tool	Pcs	1
19	Warding file	Set	1
20	Flat file, smooth with handle 250mm length	Pcs	1
21	Flat file, bastard with handle 250mm length	Pcs	1
22	Round file smooth with handle 250mm length	Pcs	1
23	Round file bastard with handle 250mm length	Pcs	1
24	Half round file, smooth with handle 250mm length	Pcs	1
25	Half round file, bastard with handle 250mm length	Pcs	1
26	Rasp file smooth with handle 250mm length	Pcs	1
27	Rasp file bastard with handle 250mm length	Pcs	1
28	Triangular file, smooth with handle 150mm length	Pcs	1
29	Adjustable spanner 150mm(6")	Pcs	1
30	Adjustable spanner 300mm(12")	Pcs	1
31	Combination spanner(ring and open end) 6 - 22mm(10pcs)	Set	1
32	Tape measure 3m(120"), Stanlely or equivalent	Pcs	1
33	Spirit level 500mm	Pcs	1
34	Allen key , Metric 2/2.5/3/3.5/4/4.5/5/6/7/8/9/10mm	Set	1
35	Allen key , Imperial 1/20 to 7/16	Set	1
36	Hack Saw frame, heavy duty	Pcs	1
37	Hack Saw blades HSS 300mm 24 T.P.I	Pcs	10
38	Junior hack saw frame	Pcs	1
39	Junior hack saw blades	Pcs	10
40	Wellington Hammer 300g with hickory handle	Pcs	1
41	Plastic hammer 50g with hickory handle	Pcs	1
42	Cold chiesel(3dot, 3chiesel)	Set	1
43	Punch (dot and centre)	Set	1
44	Steel rule 300mm length, 1mm graduations	Pcs	1
45	Steel scriber, bent/straight	Pcs	1
46	Try square, 150 x 100mm	Pcs	1
47	Vernier caliper, Metric/Imperial up to 300m range	Pcs	1
48	Mechanical screw driver, flat	Set	1
49	Mechanical screw driver, star	Set	1
50	Precision screw driver (Flat and Star)	Set	1
51	Deburring tool	Pcs	1
52	Wire brush, 3 row	Pcs	1

53	Crimping pliers	Pcs	1
54	Oil dispenser	Pcs	1

3	Physical characteristics			
3.1	Approximate dimensions	60 cm L	30cm D	25 cm H
4	Quality standards			
4.1	Manufacturing standards	ISO 9001		
4.2	Conformity to standards	CE marked or any other internationally recognized documents		
5	Delivery point			
5.1	See Schedule			
6	Commissioning			
6.1	Commissioning of the machine to the satisfaction of the user.			
7	Warranty			
7.1	Equipment	One year after commissioning, on all parts		

Department	Kitchen, Laundry, Biomedical tools and Medical Waste Management Equipment	Room Name/No.	Laundry
Item Description			**Washer Extractor**

1. General Description

Supply, delivery and installation of washer extractor. The unit should be suitable for washing hospital linen and must have water extraction functions.

2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Maximum load capacity	50 Kg
3.1.2	Door type	Horizontal loading/unloading
3.1.3	Door Size	Large - minimum diameter 800 mm
3.1.4	Water heating	In built electrical heaters, 415V, 3 Phase 50Hz
3.1.5	High Extraction	About 800 rpm
3.1.6	Drum	Stainless steel
3.1.7	Technology	Microprocessor controlled, programmable with Digital Display Drive motor speed- Electronic controlled
3.1.8	Construction	Stainless steel
3.1.9	Detergent	Powder or liquid, automatic supply
3.1.10	G –factor	About 350 G
3.1.11	Low vibrations	
3.1.12	Low Noise Level	Approximately 80 dB(A)
4	Physical characteristics	
4.1	Main unit	
4.1.1	Approximate dimensions	1200mm W 1300mm D 1900mm H

5	Operating environment	
5.1	Power Requirements	415V, 3 Phase, 50 Hz
6	Spare parts	
6.1	Door Seal	2 No.
6.2	Hose kit for water	1 No.
6.3	Heaters	3 Sets
7	Quality standards	
7.1	Manufacturing standards	ISO 9001
7.2	Conformity to standards	CE marked or any other internationally recognized documents
8	Delivery point	
8.1	See Schedule	
9	Installation and testing	
9.1	Provide foundation plinth as per manufacturer's instructions	
9.2	Supply and install isolator 100A TPN 1 No	
9.3	Supply and install cabling from isolator to machine, 3m 10mm2 PVC insulated,	
9.4	Complete installation and set-up of the machine as per manufacturer's instructions	
9.5	Test run for about 8 hour	
10	Training	
10.1	On site user training	
10.2	On site maintenance training	
11	Technical documentations	
11.1	User manuals	2 Sets
11.2	Service Manual	1Set
12	Commissioning	
12.1	Commissioning of the machine to the satisfaction of the user.	
13	Warranty	
13.1	Equipment	One year after commissioning, on all parts

Department	Community	Room Name/No.	CHV Kit
Item Description			**Community Health Promoters kits**

1. General Description

Supply and delivery of Community health Promoters kit consisting of the following items

COMMUNITY HEALTH PROMOTERS (CHPs) KIT CONTENTS

Category	**S/No.**	**Item Description**	**Unit of measure**	**Unit of Issue**	**Quantity Required**
Equipment	1	Weighing scale	No.	1	1
	2	Lab glucometer strip	Pkt	100	1
	3	Back pack bag	No.	1	1
	4	Glucometer	No.	1	1
	5	CHP Badge (Unique	No	1	1

		identifier)			
	6	Flashlight(torch)	No	1	1
	7	Colour Coded Salter Scale	No.	1	1
	8	First aid Box (spirit, disposable gloves, cotton wool, strapping, crepe bandage)	No	1	1
	9	BP Machine	No.	1	1
	10	Biohazard Box	No.	1	1
	11	Biosafety Box	No.	1	1
	12	Jacket with logo (with reflectors)	No	1	1
	13	Digital Thermometer	No.	1	1
	14	Timer	No.	1	1
	15	MUAC Tape	No.	50	10
Medicines/ Consumers	1	Albendazole 400mg/Mebendazole 100mg	Tablet	1000	1
	2	Paracetamol 500mg	Tablet	1000	6
	3	Tetracycline Eye Ointment 1%	Tube	5g	50
	4	Low Osmolarity Oral Rehydration Salts (ORS) 20.5g/L	sachet	1	200
	5	Zinc Sulphate 20mg	Tablet	100	3
	6	Povidone Iodine Solution	Bottle	1 Litre	3
	7	Chlorine/flocculant (coagulant and disinfectant) - for turbid water	Sachet	1000	10
	8	Chlorine-clear water.	Tablet	7000	2
Others	1	IEC Materials	No.	No.	1
	2	Sanitizer	500ml	No.	1

3.2.1	Cartridges/Test Stripes	200pcs				
3.2.2	Reagents and controls	For 200patients,				
3.2.3	Lancet	200 pcs				
3.2.4	Lancing and lancet device	200 pcs to be included				
5	Physical characteristics					
5.1	Main unit	Bench top				
		Dimensions Approx. 30 cm (L) X 20 cm (W) X 16 cm (H)				
		Robust construction and easy to clean				
7	Quality standards					
7.1	Manufacturing standards	IEC 60601-1, ISO 9001, ISO 13485, or any other internationally recognized standards				

7.2	Conformity to standards	CE marked,Vitro Diagnosis Medical Devices or any other internationally recognized documents			
8	Delivery point				
8.1	See schedule	For inspection			
9	Training				
9.1	User Training	On site user training on operation and daily up keep			
9.2	Maintenance training	On site maintenance training on preventive maintenance			
10	Technical documentations				
10.1	User manuals	2 Sets			
10.2	Service Manual	2 Set			
10.3	Drawings	Nil			
11	Warranty				
11.1	Equipment	Minimum of one year after commissioning on all parts.			
11.2	Equipment System	Nil			

Item Description			**Biosafety Cabinet Class II**
Department	Laboratory	Room Name/No.	Laboratory

1. General Description

Biosafety cabinet, mobile on four antistatic castors. Class II, type A, microprocessor controlled with digital display, exhaust duct, UV light, and laminar air flow

2. Composition

2.1 Main unit

3. Performance Specifications

3.1	Main Unit	
3.1.1	Application	Capable of providing protection for personnel, environment and product, Class II, Type A
3.1.2	Construction	Front open type, with laminar flow, ventilated cabinet and exhaust fan
3.1.3	Sterilization	UV light
3.1.4	Exhaust	Exhaust fan, low noise operation
3.1.5	Ventilation	Mass air flow; recirculation and exhaust; constant velocity
3.1.6	Filtration	By sterile HEPA filter, replaceable
3.1.7	Display	LCD display of Air flow, UV light indicator,
3.1.8	Safety class	Class II, Type A
4	Physical characteristics	
4.1	Main unit	1.2 meters (4ft)
	External dimensions	About 130cm x 80 cm x 200cm (WxDxH)
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase, with PE
	Ambient temperature	10° C to 40° C
	Relative humidity	40% to 90%
6	Quality standards	
6.1	Manufacturing standards	ISO 13485 or any other recognised International Standards,
6.2	Product conformity standards	EU-93/42/EEC, FDA approved or any other internationally recognized, equivalent and approval standards
	Conformity to standards	CE marked or any other internationally recognized documents

7	Local back up service	
7.1	Available	Should be available locally
7.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
8	Delivery point	
8.1	See Schedule	For inspection, installation, testing and commissioning
	Nil	
9	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
10	Training	
10.1	User Training	On site user training on operation and daily up keep
10.2	Maintenance training	On site maintenance training on preventive maintenance
11	Technical documentations	
11.1	User manuals	2 Sets
11.2	Service Manual	1 Set
11.3	Drawings	Nil
12	Commissioning	
12.1	Testing and commissioning of the machine to the satisfaction of the user.	
13	Warranty	
13.1	Equipment	Minimum of one year after commissioning on all parts.
13.2	Equipment System	Nil
14	Accessories	
14.1	Automatic Voltage Regulator (AVR)	
14.1.1	Capacity	Over VA of the main Unit
14.1.2	Input	Ac 240V, 50Hz, Single phase ± 15%
14.1.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %

Department	Laboratory	Room Name/No.	Laboratory
Item Description			**Blood Sugar machine/Glucometer**
1. General Description Blood sugar machine/ Glucometer			
2. Composition			
2.1	Main unit		
3. Performance Specifications			
3.1	Main Unit		Unit on current production
3.1.1	Type		Hand held
3.1.2	Measurement Time		About 5 seconds
3.1.3	Measurement range		20-600 mg/dl
3.1.4	Unit		Mg/dl and mmol/L
3.1.5	Hematocrit range		35-55%
3.1.6	Blood sample		About 0.5 micro litre
3.1.7	Power		Inbuilt lithium battery or equivalent
3.1.8	Display		Digital LED
4	Physical characteristics		
4.1	Main unit		Hand held

		Robust construction and easy to clean
5	Operating environment	
5.1	Power Requirements	
5.2	Internal batteries	Lithium or equivalent
5.3	Ambient temperature	10° C to 40° C
5.4	Relative humidity	40% to 90%
6	Accessories	
	Test strips	1000 pcs
	Controls	Provided
6.1	Lacing and Lancing devices	1000 pcs
7	Spare parts	
7.1	Nil	
8	Consumables/Reagents	
8.1	Strips 2000 No.	
9	Quality standards	
9.2	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
9.3	Conformity to standards	CE marked or any other internationally recognized documents
10	Delivery point	
10.1	See Schedule	For inspection
11	Warranty	
11.1	Equipment	Minimum of one year after commissioning on all parts.
11.2	Equipment System	Nil

Department	Laboratory	Room Name/No.	Laboratory
Item Description			**Centrifuge, electric**

1. General Description For laboratory use. Table top model		
2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	The unit should be a model or type on current production	
3.1.2	Maximum speed	5000 rpm
3.1.3	Maximum RCF	4620G
3.1.4	Timer	Provided
3.1.5	Brake system	Provided
3.1.6	Safety System	Door open
3.1.7	Rotor Type	Swinging rotor
3.1.8	Tube rack	15ml X 32 pcs
3.2	Components	0 to 99 mmHg ± 4 mmHg , Mainstream method
3.2.1	Rotor	1 sets
3.2.2	Tube Rack	1 Sets

3.2.3	Rotor locking wrench	1 pieces
4	Physical characteristics	
4.1	Main unit	
5.2	Dimensions	Table top model
6	Operating environment	
6.1	Power Requirements	240V, A/c 50 Hz, Single phase, 3 Pin Plug, 3m long cord BS type with PE
6.3	Ambient temperature	10° C to 40° C
6.4	Relative humidity	40% to 90%
8	Consumable	
8.1	Test tubes	50 pcs
9	Quality standards	
9.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
9.2	Conformity to standards	CE marked/ FDA approved or any other internationally recognized documents
10	Local back up service	
10.1	Available	Should be available locally
10.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, consumables and qualified and skilled technical staff
11	Delivery point	
11.1	See Schedule	For inspection and testing
11.2	Nil	

Department	Laboratory	Room Name/No.	Laboratory
Item Description			**Freezer**
1. General Description Deep freezer			
2. Composition 2.1 Main unit			
3. Performance Specifications 3.1 Main Unit			
3.1.1	Material	Insulated galvanized steel	
3.1.2	Type	Compressor, electrical	
3.1.3	Door	Single door	
3.1.4	Net storage capacity	250 litres	
3.1.5	Temperatures range	-20 °C	
3.1.6	Ambient temperature	10 ° C to 35°C	
3.1.7	Shelves	Provided, adjustable and extractable	
3.1.8	Thermometer	Digital, external mounted, with temperature record history	
3.1.9	Control	Electronic, Microprocessor based	
3.1.10	Refrigerant	CFC free	
3.1.11	Alarm	Provided, audible and visible	
3.1.12	Dimensions	Approximately D600x W 625x 1700 H (mm)	
3.1.13	Power	240V, 50 Hz, a.c	
4	Accessories		
4.1	Nil		

5	Quality standards	
5.1	Manufacturing standards	ISO 9001
5.2	Conformity to standards	CE marked or any other internationally recognized documents
6	Delivery point	
6.1	See Schedule	For inspection and testing
6.2	Nil	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning on all parts.
7.2	Equipment System	Nil
8	Accessories	
8.1	Automatic Voltage Regulator (AVR)	
8.1.1	Capacity	Over VA of the main Unit
8.1.2	Input	Ac 240V, 50Hz, Single phase ± 15%
8.1.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %

Department	Laboratory	Room Name/No.	Hematology
Item Description			**HB meter**
1. General Description Semi-automatic Hemoglobin meter suitable for POC use. Table top model			
2. Composition			
2.1	Main unit Accessories		
3. Performance Specifications			
3.1	Main Unit		Unit on current production, Desk top Model
3.1.1	Display		Digital LCD, touch screen, with on board keys
3.1.2	Operation		Step by step instructions on the unit
	Measuring Method		Reflectance photometry
3.1.3	Minimum measured parameters		Hemoglobin
	Measurement range		0-25.5 g/dl
	Other units of measure		mmol/l
3.1.4	Measurement time		Less than 2 Minutes
3.1.5	Sample		Blood
3.1.6	Memory		About 700 test results
	Interface		USB / Serial port
3.1.7	Printer		Thermal printer external or integrated
3.1.8	Power source		240V, 50Hz ac or internal batteries
3.2	Accessories		Micro cuvettes, Vials, controls and other necessary accessories to be included: Unit prices of all accessories and reagents to be indicated for evaluation purposes
3.2.1	Cuvettes		1000pcs
3.2.2	Reagents and controls		For 1000patients,
3.2.3	Lancing and lancet device		1000 pcs to be included
5	Physical characteristics		
5.1	Main unit		Bench top

		Dimensions Approx. 30 cm (L) X 20 cm (W) X 16 cm (H) Robust construction and easy to clean
7	Quality standards	
7.1	Manufacturing standards	IEC 60601-1, ISO 9001, ISO 13485, or any other internationally recognized standards
7.2	Conformity to standards	CE marked,Vitro Diagnosis Medical Devices or any other internationally recognized documents
8	Delivery point	
8.1	See schedule	For inspection
9	Training	
9.1	User Training	On site user training on operation and daily up keep
9.2	Maintenance training	On site maintenance training on preventive maintenance
10	Technical documentations	
10.1	User manuals	2 Sets
10.2	Service Manual	2 Set
10.3	Drawings	Nil
11	Warranty	
11.1	Equipment	Minimum of one year after commissioning on all parts.
11.2	Equipment System	Nil

Department	Laboratory	Room No.	Laboratory
Item Description			**Hot Air Oven**

1. General Description To be used in standard laboratory sterilization. The unit should be constructed from robust, corrosion free outer material. Interior part should be constructed from high grade stainless steel with two height adjustable chrome plated trays. It should have an electronically adjustable temperature control with inbuilt digital temperature indicator.		
2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Temperature range	Adjustable from +7°C to +250°C
3.1.2	Accuracy	± 0.5°C
3.1.3	Temperature control	Microprocessor controlled, adjustable,
3.1.4	Display	Digital
3.1.5	Door seal	replaceable silicon rubber
3.1.6	Air movement	Forced air convection
3.17	Timer	Auto start/stop 1min to 99 min
3.1.8	Uniformity of temperature	± 10°C
3.1.9	Interior material	Stainless steel
3.1.10	Safety Device	Overheat protection device
4	Physical characteristics	
4.1	Main unit	Bench top, Robust construction and easy to clean
	Dimensions	Internal, 40 liters
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase
5.2	Ambient temperature	10° C to 40° C
5.3	Relative humidity	40% to 90%

6	Accessories	
6.1	Shelves	1 Set
7	Spare parts	
7.1	Heating Element	3 sets
7.2	Door Gasket	2 Sets
8	Consumables/Reagents	
8.1	Nil	
9	Quality standards	
9.2	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
9.3	Conformity to standards	CE marked or any other internationally recognized documents
10	Local back up service	
10.1	Available	Should be available locally
10.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
11	Delivery point	
11.1	See Schedule	For inspection
11.2		For installation : See hospital schedule
12	Pre installation requirements	
12.1	Nil	
13	Installation and testing	
13.1	Complete installation and set up of the machine at various sites as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep
14.2	Maintenance training	On site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil

Department	Laboratory	Room Name/No.	Laboratory
Item Description			**Refrigerator**
1. General Description Refrigerator, for laboratory reagents with glass door			
2. Composition			
2.1	Main unit		
3. Performance Specifications			
3.1	Main Unit		
3.1.1	Material	Insulated galvanized steel	
3.1.2	Type	Compressor, electrical	

3.1.3	Door	Single door , glass type
3.1.4	Net storage capacity	290 litres (10 cu.ft)
3.1.5	Temperatures range	+2°C to + 8°C stable
3.1.6	Ambient temperature	10 ° Cto 35°C
3.1.7	Shelves	Provided, adjustable and extractable
3.1.8	Thermometer	Digital, external mounted, with temperature record history
3.1.9	Control	Electronic, Microprocessor based
3.1.10	Refrigerant	CFC free
3.1.11	Alarm	Provided, audible and visible
3.1.12	Dimensions	Approximately D650x W 600 x 2000 H (mm)
3.1.13	Power	240V, 50 Hz, a.c
4	Accessories	
4.1	Nil	
5	Quality standards	
5.1	Manufacturing standards	ISO 9001
5.2	Conformity to standards	CE marked or any other internationally recognized documents
6	Delivery point	
6.1	See schedule	For inspection and testing
6.2	Nil	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning on all parts.
7.2	Equipment System	Nil
8	Accessories	
8.1	Automatic Voltage Regulator (AVR)	
8.1.1	Capacity	Over VA of the main Unit
8.1.2	Input	Ac 240V, 50Hz, Single phase ± 15%
8.1.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %

Item Description			**Electric shaker**
Department	Laboratory	Room Name/No.	Laboratory

1. General Description

Electric shaker, standard size

- Bench top type, microprocessor based
- Suitable for low and medium load
- Orbit: 25mm, with speed and time control
- Timer: 0-120 minutes, adjustable
- Power source : 240 V ,50Hz, a.c
- Accessories
- Tray 1 pc
- Clamps 2pcs

2	Delivery point	
2.1	See Schedule	For inspection, installation, testing and training

Item Description			**Voltex mixture**
Department	Laboratory	Room Name/No.	Laboratory

1. General Description

- Voltex mixture, standard size
- Suitable for continuous shaking operation
- Speed range 0- 2500rpm, adjustable
- Constructed from cast iron with silicone steel base and eccentric oiless ball bearing
- Power source: 240V, 50Hz a.c

2	Delivery point	
2.1	hospital	For inspection, installation, testing and training

Department	Laboratory	Room Name/No.	Laboratory
Item Description			**Water bath**

1. General Description

To be used in laboratory. Constructed from robust, high grade stainless steel. It should have an inbuilt temperature control and indicator. The unit should be capable of attaining uniform and constant liquid temperature. The unit should be capable of accommodating 150 pieces of test tubes of sizes 16mm diameter each.

2. Composition

2.1	Main unit	

3. Performance Specifications

3.1	Main Unit	
3.1.1	Temperature range	Adjustable from +7°C to + 80°C
3.1.2	Accuracy	± 0.5°C
3.1.3	Temperature control	PID Microprocessor controlled system
3.1.4	Display	Digital for temperature and timer.
3.17	Timer	Auto start/stop, adjustable
3.1.8	Liquid temperature uniformity	Constant temperature in the chamber ± 0.2°C
	Temperature stability	± 0.1°C
3.1.9	Interior material	Stainless steel –seamless
3.1.10	Heater	Sheet heater mounted on the sides of outside tank
	Insulation	Glass wool

	Internal Volume	20 litres
	Safety Device	Overheat protection device by independent thermostat
4	Physical characteristics	
4.1	Main unit	Bench top, Robust construction and easy to clean
	Dimensions	Internal, 450L X 300W X150H mm approximate
4.2	Capacity internal	Approximate 15ltres
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase
	Ambient temperature	10^{o} C to 40^{o} C
	Relative humidity	40% to 90%
6	Accessories	
	Stainless steel lid	1 No.
	Tube rack φ 16 mm	1 Unit
6.1	Lid with holes	1 Unit
7	Spare parts	
7.1	Heating Element	3 sets
7.2	Thermostat	1 Sets
8	Consumables/Reagents	
8.1	Nil	
9	Quality standards	
9.2	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
10	Local back up service	
10.1	Available	Should be available locally
10.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
11	Delivery point	
11.1	See Schedule	For inspection
11.2		For installation
12	Pre installation requirements	
	Nil	
13	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep
14.2	Maintenance training	On site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil

Department	Laboratory	Room Name/No.	Laboratory
Item Description			**Deionizer**

1. General Description

Deionizer for production of pure water for laboratory use. Microprocessor based, compact design water purification system consisting of pre-water treatment, Reverse osmosis, Micro filters and UV treatment.

2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	The unit should be a model or type on current production	
3.1.2	Capacity	Minimum 15 litres per hour
3.1.3	Pre treatment	Provided, filter type, replaceable
3.1.4	Reverse Osmosis	Provided, Replaceable Membrane type with pump,
3.1.5	Micro filter	Provided, Replaceable type
3.1.6	UV treatment	Provided, with replaceable lamps
3.1.7	Pure water quality	
3.1.5	Conductivity	Maximum 5µs/cm
3.1.6	Ionic Rejection	Minimum 95%
3.1.7	Bacterial and particles rejection	Minimum 99%
3.1.8	Display	LCD display of conductivity and resistivity
3.2	Safety devices	Audi and Visual Alarm on water quality, water level, system failure
4	Physical characteristics	
4.1	Main unit	
5.2	Dimensions	Floor mounted top model
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase, 3 Pin Plug, 3m long cord BS type with PE
5.3	Ambient temperature	10° C to 40° C
5.4	Relative humidity	40% to 90%
6	Consumable	
6.1	RO membrane	10 pcs
6.2	All pre filter types	30pcs of each type
6.3	All other filters	20 pcs of each type
6.4	UV lamps	5 pcs
7	Quality standards	
7.1	Manufacturing standards	IEC 60601-1, ISO 900, ISO3696 or any other internationally recognized standards
7.2	Conformity to standards	CE marked/ FDA approved or any other internationally recognized documents
8	Local back up service	
8.1	Available	Should be available locally
8.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, consumables/filters and qualified and skilled technical staff
9	Delivery point	
9.1	See Schedule	For inspection and testing

9.2	Nil	
10	Pre installation requirements Provide for pre installation pipe works and plumbing works	
11	Installation and testing Complete installation and set up of the machine as per manufacturer's instructions	
13	Training	
13.1	User Training	On site user training on operation and daily up keep
13.2	Maintenance training	On site maintenance training on preventive maintenance
14	Technical documentations	
14.1	User manuals	2 Sets
14.2	Service Manual	1 Set
14.3	Drawings	Nil
15	Commissioning	
15.1	Testing and commissioning of the machine to the satisfaction of the user.	
16	Warranty	
16.1	Equipment	Minimum of one year after commissioning on all parts.
16.2	Equipment System	Nil

Department	Imaging	Room Name/No.	N/A
Item Description			**Fetal Doppler**
1. General Description Fetal Doppler heart detector			
2. Composition			
2.1	Main unit AVR		
3. Performance Specifications			
3.1	Type		Portable, Doppler type
3.1.1	Ultrasound frequency		2.5 Mhz
3.1.2	Ultrasound output		10mW/cm2 or less
3.1.3	Audible output		0.6 W
3.1.4	Heart rate detection range		50 to 280 bpm
3.1.5	Speaker		Provided
3.1.6	Probe		Provided 1 pc
3.1.7	Earphones		Provided 1 pc
3.1.8	Portable holder		Provided
4	Operating environment		
4.1	Power Requirements		240V, A/c 50 Hz, Single phase, with PE
4.2	Ambient temperature		10° C to 40° C
4.3	Relative humidity		40% to 90%
5.2	Automatic Voltage Regulator (AVR)		
5.2.1	Capacity		Over VA of the main Unit
5.2.2	Input		Ac 240V, 50Hz, Single phase ± 15%
5.2.3	Output		Ac 240V, 50Hz, Single Phase ± 2.5 %
7	Spare parts and consumables		
6.1	Fuses		5 units
6.2	Gel		6000ml, 1pc
7	Quality standards		

7.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
7.2	Conformity to standards	CE marked or any other internationally recognized documents
8	Local back up service	
8.1	Available	Should be available locally
8.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
9	Delivery point	
9.1	See schedule	For inspection and testing
10	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
11	Training	
11.1	User Training	On site user training on operation and daily up keep
11.2	Maintenance training	On site maintenance training on preventive maintenance
12	Technical documentations	
12.1	User manuals	2 Sets
12.2	Service Manual	2 Set
12.3	Drawings	Nil
13	Commissioning	
13.1	Testing and commissioning of the machine to the satisfaction of the user.	
14	Warranty	
14.1	Equipment	Minimum of one year after commissioning on all parts.
14.2	Equipment System	Nil

Department	Imaging	Room Name/No.	X-Ray
Item Description			**Lead Apron**

1. General Description
A full lead apron (front and back) which fastens along the two sides with hook and loop straps (making it easy to put on and remove). Should have a thyroid collar
Lead-Apron with thyroid collar. Should be light weight

2. Composition

2.1	Main unit	

3. Performance Specifications

	Lead Apron	
3.1.	Lead equivalent front	0.35 mm Pb
3.1.2	Lead equivalent back	0.25 mmPb
3.1.3	Size L	960 X550
3.1.4	Colour	Blue
3.1.5	Thyroid color	Free size

Department	Imaging	Room Name/No.	Imaging
Item Description			**Portable Ultrasound Unit**

1. General Description Portable digital general ultrasound unit comprising of scanning unit, display, probes, console printer, jelly dispenser holder and U.P.S. all mounted on a dedicated trolley on four antistatic castors, two(2) of which should have breaks.		
2. Composition		
2.1	Main Unit	
2.2	Printer B/W Printer	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Scanning Unit	Should be Digital type (microprocessor based) and capable of performing general and specialized ultrasound examination; Cardio vascular, Abdominal, obstetrics, gynecological, urological, pediatric, and small parts,
3.1.2	Image mode	B mode B+M in Real time, THI M-Mode and zoom Colour Doppler, Power Doppler Spectral Doppler 2D Imaging
3.2	Transducers/Probes	
3.2.1	Linear Array	To have a frequency of between 2.5 MHz to 12 MHz
3.2.2	Convex/curvilinear	To have a frequency of between 2.5 and 7.5 MHz.
3.2.3	Endo cavitary	To include endovagina and endorectal
3.3	Console/Keyboard	Standard console with provisions for measurement, calculations packages(including volumes) and input data
3.4	Image display	LCD Monitor, at least 21", with HD 1080 p resolution The monitor should be capable of articulating
3.5	Image storage	Unit to have image memory facilities and CD/DVD/USD . Hard disk capacity about 400GB Provision for video recording
3.5.1	Connectivity	DICOM 3.0 compatible
3.6	Printers	A standard thermo-printer for use with high-density thermo-printing paper type II, High Gloss, size 110mm x 20m.
4	Physical characteristics	
4.1	Main unit	Mounted on trolley with large castors , 2 with brakes.
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase, with PE conductor
5.2	Ambient temperature	10^{o} C to 40^{o} C
5.3	Relative humidity	40% to 90%
6	Accessories	
6.1	Automatic Voltage Regulator (AVR) , And UPS	
6.1.1	Capacity	Over VA of the main Unit
6.1.2	Input	Ac 240V, 50Hz, Single phase ± 15%
6.1.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %

7	Consumables	
7.1	Thermo printing paper	5 rolls
7.2	coupling gel	5 litre X 3
9	Quality standards	
9.2	Manufacturing standards	IEC 60601-1, ISO 9001, ISO 13485 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
10	Delivery point	
10.1	See hospital Schedule	For delivery, inspection, installation and commissioning and testing
12	Pre installation requirements	
	Nil	
13	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep for 3 weeks
14.2	Maintenance training	On site maintenance training on preventive maintenance for 3 weeks
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil
18.	Maintenance contract	
18.1	Capacity to provide maintenance and repair service	Vendor/manufacturer shall have adequate facilities, spare parts, qualified and skilled technical staff to offer comprehensive maintenance contract for 10 years

Department	Imaging	Room Name/No.	Imaging
Item Description			**X-Ray Dry Image Laser printer**
1. General Description X-Ray Dry Image Laser printer, Desk top Model complete with workstation, necessary software, Digital cassettes, Compatible with DICOM 3.0 and above.			
2. Composition			
2.1	Dry Image Printer	1 No.	
2.2	Digital Cassettes and Films	Assorted	
3. Performance Specifications			
3.1	Dry Image Printer		
3.1.1	Performance	Capable of printing High Quality Digital images Not less than resolution 3852 X4880 Pixels	

	Film Sizes	Should be able to process the following Film sizes: 8 X10" 10 X 12" 11 X 14" 14 X14" 14 X17"
	Capacity	Not Less than 70 sheets per hour of size 14" X 17" , Resolution Min: 3852 X4880 Pixel.
	Technology	Laser printing technology
3.4	Connectivity	The Unit should be integrated with DICOM interface. It shall be capable of printing directly from DICOM compatible devices The Unit shall also have a network interface. RJ-45 Plug. It shall be cable of printing from a LAN network
	Dimension Approx.	H 70 X D 65 X W 62 cm
3.5	Acceptable Films	All sizes, including mammo and pediatric and online film sizes
3.6	Accessories	Set up Films one box of each: 8" X 10", 10" X 12", 11" X 14", 14" X 14" 14" X 17"
4	Operating environment	
4.1	Power Requirements	240V, A/c 50 Hz, Three phase, with PE conductor
4.2	Ambient temperature	10° C to 40° C
4.3	Relative humidity	40% to 90%
5	Quality standards	
5.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
6	Local back up service	
6.1	Available	Should be available locally
6.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
7	Delivery point	
7.1	See Hospital schedule	For delivery, inspection and testing, installation and commissioning
8	Installation and testing	
	Complete installation and set up of the Machine as per manufacturer's instructions	
9	Training	
9.1	User Training	On site user training on operation and daily up keep for 3 weeks

9.2	Maintenance training	On site training of two Medical Engineering Technologists on preventive maintenance, trouble shooting and repair for 3 weeks
10	Technical documentations	
10.1	User manuals	2 Sets
10.2	Service Manual	2 Set
10.3	Drawings	Nil
11	Commissioning	
11.1	Testing and commissioning of the machine to the satisfaction of the user.	
12	Warranty	
12.1	Equipment	Minimum of one year after commissioning on all parts.
12.2	Equipment System	Minimum of one year after commissioning on all parts.
13.	Maintenance contract	
13.1	Capacity to provide maintenance and repair service	Vendor/manufacturer shall have adequate facilities, spare parts, qualified and skilled technical staff to offer comprehensive maintenance contract for at 10 years
13.2	Comprehensive preventive and repair service	Capacity to provide a comprehensive preventive and repair maintenance service contract including parts and material for a period of 10 years from commissioning date
14	Accessories	
14.1	Automatic Voltage Regulator (AVR) , And UPS	
14.2	Capacity	Over VA of the main Unit
14.1.2	Input	Ac 240V, 50Hz, Single phase ± 15%
14.1.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %

Department	Imaging	Room Name/No.	N/A
Item Description			**X-Ray Film illuminator**

1. General Description

- X-Ray film illuminator
- Wall type model
- Film size- Single
- Lighting- LED white light
- Dimensions: 420 W X 45 D X 540 H (mm)
- Power, 240V a.c, with Auto switch

2	Delivery point	
2.1	See Schedule	For inspection and testing

Item Description			**Commode chair**
Department	Furniture	Room Name/No.	Ward

1. General Description

Commode chair with adjustable height, constructed with chrome plated mild steel

2. Composition

2.1 Main unit

3. Performance Specifications

3.1 Main Unit

3.1.1 Commode chair constructed from chrome plated robust mild steel (3/4"), with armrest
Plastic armrest grips
Adjustable height
Seat width: 14"
Seat Depth: 17"
On four rubber stud

Size
Overall length: 22 inches
Overall width: 16 inches
Depth: 8 inches

4 Delivery point

4.1 See schedule For inspection, testing and commissioning

4.2 Nil

5 Warranty

5.1 Equipment Minimum of one year after commissioning on all parts.

5.2 Equipment System Nil

Item Description			**Transport Resuscitation kit**
Department		Room Name/No.	

1. General Description

A compact, portable bag designed for rapid airway, breathing, and circulation support during patient transport in ambulances, inter-facility transfers, or disaster response. All components are organized, secured, and clearly labeled for immediate access. The kit complies with international emergency-care standards and can be mounted on a stretcher, ambulance wall, or carried by a single responder.

2. Composition

2.1. Transport Resuscitation kit – 1 Set.

3. Performance Specifications

3.1 - Enclosure;
- Hard-shell, impact-resistant case (polypropylene or ABS) with foam inserts.
- External dimensions: About 45 cm × 30 cm × 20 cm
- Weight (fully stocked): ≤ 7 kg
- IP-65 water- and dust-proof rating

		- Airway Management; - Adult and pediatric laryngoscope handles (size 3 & 4) with reusable blades. - Disposable laryngoscope blades (sizes 0-4) – 5 pcs each - Endotracheal tubes (cuffed 6.0 mm, 7.0 mm, 8.0 mm; uncuffed 3.0 mm, 4.0 mm, 5.0 mm) – 3 pcs each - Supraglottic airway devices (i-gel sizes 3, 4, 5) – 2 pcs each - Nasopharyngeal airways (sizes 26-34 Fr) – 5 pcs each - Bag-valve-mask (adult & pediatric) with reservoir, 2 L capacity - Ventilation & Oxygen; - Portable oxygen cylinder (300 L, 2000 psi) with regulator and flow-meter (0-15 L/min). - Disposable oxygen masks (adult & pediatric) – 5 pcs each. - Manual suction device (hand-operated) with Yankauer tip and 6 Fr suction catheters – 5 pcs each. - Circulatory Support; - Adult and pediatric automated external defibrillator (AED) pads – 1 set. - Manual defibrillator pads (adult) – 1 set. - IV access kit: 18 G, 20 G, 22 G, 24 G catheters (5 pcs each), IV extension sets, 3-way stopcocks, tourniquets (adult & pediatric) – 2 pcs each. - Crystalloid solution (normal saline 0.9 %, 500 ml) – 2 bottles. - Medication; - Emergency drug pouch with: epinephrine 1 mg/ml (10 ml), atropine 1 mg/ml (10 ml), naloxone 0.4 mg/ml (10 ml), dextrose 50 % (50 ml), sodium bicarbonate 8.4 % (50 ml) – single-dose vials. - Syringes (5 ml, 10 ml) and needles (18 G, 21 G, 23 G) – 5 pcs each. - Monitoring & Diagnostics; - Portable pulse-oximeter with adult & pediatric probes. - Capnography (side stream) with disposable filter and tubing. - Stethoscope (dual-head). - Additional Items; - Trauma shears, adhesive tape, sterile gauze, alcohol wipes, gloves (sizes S, M, L) – 5 pcs each - Personal protective equipment (mask, goggles) – 1 set - Quick-reference algorithm card (adult & pediatric) laminated
4	Quality standards	
4.1	Manufacturing standards	- Compliance & Standards - Meets ISO 13485, CE-marked, FDA-registered (Class II) - Conforms to AHA/ERC 2024 guidelines for resuscitation equipment - Designed for use in ambulance (EN 1789) and transport environments

5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Warranty	
6.1	Equipment	Minimum of one year after commissioning on all parts.

Department	Hospital Furniture	Room Name/No.	Ward
Item Description			**Dressing trolley**

1. General Description

Dressing trolley constructed from stainless steel, with antistatic castors φ 100 mm swivel, with 2 stainless steel shelves, guard rail on all sides

2. Composition		
2.1	Main unit	
3. Physical Specifications		
3.1	Main Unit	
3.1.1	Material of main unit	Stainless steel
3.1.2	Type	2 stainless steel shelves- Top and bottom
3.1.3	Top shelve	With guardrail on all sides
3.1.4	Stainless steel bowl	Provided - diameter 340mm
3.1.5	Stainless steel bucket	Provided with diameter about 300mm
3.1.6	Dimensions	600 L X 450 W X 850 H (mm)Adjustable, mechanical
3.1.7	Mobile	With 4 Antistatic 100mm swivel, with brakes
4	Quality Standards	
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1	See schedule	Delivery point
6	Warranty	
6.1	Equipment	Minimum of one year after delivery
6.2	Equipment System	Nil

Item Description			**Examination couch with stepper ladder**
Department	Hospital Furniture	Room Name/No.	Ward

1. General Description

Examination couch suitable for use in consultant rooms. Should be constructed from coated robust mild steel or chrome plated robust metallic material. Adjustable headrest, mechanically

controlled. Should be provided complete with urethane foam mattress covered with vinyl leather.		
2. Composition		
2.1	Main unit Stepper ladder	
3. Physical Specifications		
3.1	Main Unit	
3.1.1	Material of main unit	Tubular mild steel, epoxy coated or chromed plated
3.1.2	Head adjustment	Provided
3.1.3	Mattress	High density form mattress with removable leather imitation material or Vitapruf cover (Water proof type)
3.1.4	Dimensions (Overall)	1900 mm(L) X 650mm (W) X 750mm(H)
3.1.5	Weight to handle	180 kg
3.2	Stepper ladder	
3.2.1	Material	mild steel, epoxy coated or chromed plated
3.2.2	Steps	2 or 3
4	Quality Standards	
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1		See Schedule
6	Warranty	
6.1	Equipment	Minimum of one year after delivery
6.2	Equipment System	Nil

Department	Hospital Furniture	Room Name/No.	Ward
Item Description			**Food trolley**
1. General Description Food trolley constructed from rigid stainless steel, with four antistatic castors φ 100 mm swivel, with 3 stainless steel shelves			
2. Composition			
2.1	Main unit		
3. Physical Specifications			
3.1	Main Unit		
3.1.1	Main frame material	All stainless steel, tubular frame	
3.1.2	Type	3 stainless steel shelves with spill guard	
3.1.3	Dimensions	750 L X 450 W X 850 H (mm)Adjustable, mechanical	
3.1.7	Mobile	With 4 Antistatic 100mm swivel, with brakes	
4	Quality Standards		
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards	
4.2	Conformity to standards	CE marked or any other internationally recognized documents	
5	Delivery point		
5.1	See schedule	Delivery point	
6	Warranty		
6.1	Equipment	Minimum of one year after delivery	

6.2	Equipment System	Nil

Department	Hospital Furniture	Room Name/No.	Theatre
Item Description			**Instrument trolley**

1. General Description

Instrument trolley (Mayo) trolley constructed from stainless steel, consisting of one stainless steel tray with guard rail on all sides. The tray height shall be adjustable by means of hydraulic foot pedal. It shall have four antistatic castors φ 75 mm swivel, 2 with brakes

2. Composition

2.1	Main unit	

3. Physical Specifications

3.1	Main Unit	
3.1.1	Material of main unit	Stainless steel
3.1.2	Tray	One stainless steel tray of size L 60cm XW 40 cm with guard rails on all sides
3.1.3	Height	The tray height shall be adjustable from 77 cm to 120 cm
3.1.4	Height Movement	Hydraulic type operated by foot pedal
3.1.5	Overall Dimensions	600 L X 400 W X 770 to 1200 H (mm) Adjustable
3.1.6	Mobile	With 4 Antistatic 75 mm swivel, two with brakes
4	Quality Standards	
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1	See schedule	Delivery point
6	Warranty	
6.1	Equipment	Minimum of one year after delivery
6.2	Equipment System	Nil

6.2	Equipment System	Nil

Department	Hospital Furniture	Room Name/No.	Ward
Item Description			**Patient Beds 3 function**

1. General Description

Standard hospital bed, 3 function, with side rails and back rest with adjustable back rest. Robust stainless steel construction on four antistatic castors φ 60mm, 2 lockable. With safety side rails and antistatic high density mattress covered with vinyl leather material.

2. Composition

2.1	Patient Bed 1 No.	
	Mattress 1No.	

	Pillow 1 No.	
3. Physical Specifications		
3.1	Main Unit	
3.1.1	Type	3 section, Manual operated with IV pole
3.1.2	Material of main unit	ABS plastic or high grade epoxy coated mild steel
3.1.3	Head adjustment	Provided
3.1.4	Side rails	Drop down type
3.1.5	Dimensions (Overall)	2000 mm(L) X 850mm (W) X 700mm(H)
3.1.6	Mobile	With 4 rubber castors φ 60mm, with locking system
3.1.7	Weight to handle	180 kg
3.2	Mattress	High density form mattress with removable leather imitation material or Vitapruf cover (Water proof type)
3.3	Pillow	High density form Pillow with removable water proof cover
4	Quality Standards	
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1	See Schedule	Delivery point
6	Warranty	
6.1	Equipment	Minimum of one year after delivery
6.2	Equipment System	Nil

Department	Hospital Furniture	Room Name/No.	Ward
Item Description			**Patient Chair**

1. General Description		
Patient chair constructed from Chrome plated mild steel, with back rest and antistatic rubber castors φ 60 mm swivel		
2. Composition		
2.1	Main unit	
3. Physical Specifications		
3.1	Main Unit	
3.1.1	Material of main unit	Chrome plated mild steel.
3.1.2	Height	Minimum 38"
3.1.3	Width	Minimum 15"
3.1.4	Seat height (with out cushion)	Minimum 20"
3.1.5	Seat	Cushioned with form thickness 40 mm
3.1.6	Back rest	Cushioned with Form thickness 20 mm
3.1.7	Mobile	With 4 Antistatic 60mm swivel, with brakes
4	Quality Standards	
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents

5	Delivery point	
5.1	See schedule	Delivery point
6	Warranty	
6.1	Equipment	Minimum of one year after delivery
6.2	Equipment System	Nil

Item Description			**Patient Stretcher with Side rails**
Department	Hospital Furniture	Room Name/No.	Ward

1. General Description		
Patient Stretcher with Side rails complete with mattress. Constructed from chrome plated mild steel		
2. Composition		
2.1	Main unit	
3. Physical Specifications		
3.1	Main Unit	
3.1.1	Material of main unit	Tubular mild steel, chrome plated
3.1.2	Base	Fixed base top , Chrome plated mild steel
3.1.3	Side rails	Provided, Chrome plated, can be collapsed
3.1.4	Mobile	On four castors diameter 100mm with brakes
3.1.5	Mattress	High density form mattress with removable leather imitation material or Vitapruf cover (Water proof type)
3.1.6	IV Pole	Provided
3.1.7	Dimensions (Overall)	1950 mm(L) X 850mm (W) X 700mm(H)
3.1.8	Weight to handle	180 kg
4	Quality Standards	
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1		Delivery point
6	Warranty	
6.1	Equipment	Minimum of one year after delivery
6.2	Equipment System	Nil

Item Description			**Procedure Trolley**
Department	Hospital Furniture	Room Name/No.	Wards

1. General Description

Procedure trolley constructed from stainless steel frame, with drawers, tray, waste bin, bucket and IV pole. The Unit should be mobile on four castors φ100mm , 2 lockable

2. Composition

2.1	Main unit,	
3. Performance Specifications		
3.1	Main Unit	Mobile type
3.1.1	Material	All Stainless Steel, High grade, 304 s/s
3.1.2	Shelves	Two stainless Steel shelves with three guard rails on each
3.1.3	Top	Stainless steel tray with three guard rails
3.1.4	Drawer	Two, detachable, s/s
3.1.5	Basket	Provided, Stainless steel
3.1.6	Waste bin	Provided, Stainless steel
3.1.7	Castors	Provided, heavy duty, Ø 100mm, 2 with brakes
3.1.8	IV pole	To be provide, double hook
3.1.9	Push/Pull handle	Provided, Stainless Steel
3.1.10	Approx. Size	L560 X W500 X H 900 mm
4	Quality standards	
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1	See Schedule	For inspection, installation and testing
5.2	Nil	

Item Description			**Anesthetic machine with ventilator**
Department	Main Theatre	Room Name/No.	Operating theatres
1. General Description Inhalation anaesthetic machine with electronic ventilator complete with all accessories for low and high flow anaesthesia, adult, paediatric and infant application. It should include a patient monitor unit.			
2. Composition			
2.1	Main unit	1 Unit	
	Electronic Ventilator	1 Unit	
	Patient Monitor	1 Unit	
	Accessories and spare parts	1 Set	
3. Performance Specifications			
3.1	Main Unit		
3.1.1	Anesthetic trolley with 2 or 3 drawers and a table top, with yokes for Oxygen (O_2) and Nitrous Oxide (N_2O) portable cylinder and support for circle systems including hoses and absorbers and support for central pipeline gas system. Model on current production		
3.1.2	Anesthetic trolley	With minimum of 2- drawers	
3.1.3	Wheels	Four castors, two with brakes	
3.1.4	Gas delivery system	3 gas delivery system (O_2, N_2O and air) with both inlets for central gas pipeline system, and separate portable cylinders.	
3.1.5	Yokes	To support portable Oxygen (O_2) and Nitrous Oxide (N_2O) cylinders, 11 liters each	
3.1.6	Portable Oxygen (O_2) Cylinder connection	Bull nose type	

3.1.7	Portable Nitrous Oxide (N_2O) cylinder connection	Pin Index type
3.1.8	Pressure regulators and gauges for O_2 and N_2O	Intergraded in the trolley
3.1.9	Central gas pipeline system	Standard BS connections and colour codes for O_2, N_2O, and Air,
3.1.10	Flow meter	Separate flow meter for O_2, Air, and N_2O
3.1.11	Breathing Circle System	Capable of performing Open, Semi-Open, Semi-Closed and Closed system
3.1.12		Heated integrated breathing system
3.1.13	All patient connecting hoses	Corrugated, Transparent, autoclavable (136°C), φ 22 mm, with ISO connectors
3.1.14	CO_2 absorber	Integrated, complete with Soda lime and switch for Magills circuit.
3.1.15	Accessories	
	Adult Breathing circuit for ventilator	2 Unit
	Peadiatric Breathing circuit for ventilator	2 Unit
	Face Mask, Adult, Sizes 1, 2, 3 transparent type	2 Sets
	Face Mask, Pead, Sizes 1, 2, 3 transparent type	2 Sets
	Breathing Bag Adult	2 Sets
	Breathing Bag Peads	2 Sets
	Breathing Bag Baby	2 Sets
	Magils circuit complete with adult mask	2 Sets
	Aynes Pead circuit	2 Sets
	CO_2 absorber gas out let	22 mm outside and 15mm inside
3.2	Vaporizer	Provision of 3 types (Halothane/ Enflurane/ Isoflurane/ Sevoflurane and Desflurane)
3.2.1	Compensation	Temperature, pressure and flow compensated
3.2.2	Capacity of contents	About 360 ml, transportable when filled in any position
3.2.3	Range	About 0.2% to 4%
3.2.4	Accuracy	± 0.15%
3.2.5	Keyed filler according to ISO standards	
3.2.6	Adjustment	Large hand wheel with Zero Lock
3.2.7	Ambient Temperature	15°C to 35°C at Normal pressure
3.2.8	Maintenance	Service free for a minimum period of 5 years of usage
3.3	Safety controls	
3.3.1	O_2 supply failure	audible alarm with reset
3.3.2	S-ORC	Minimum O_2 25%: Shut off supply
3.3.3	Drop in O_2 Pressure	N_2O Shut off
3.3.4	O_2 Flush	Approximately 50 L/ Min
3.4	Ventilator	
3.4.1	Type	Microprocessor controlled and electrical/gas driven
3.4.2	Application	Suitable for adult, peadiatric and infant application without changing parts between patient types
3.4.3		Ventilation with ambient air possible
3.4.4	Modes	Manual, spontaneous, IPPV, PCV,SIMV +PS
3.4.5	Ventilator Parameter	
	Tidal Volume: IPPV	20 ml- 1400ml

	P max (PEEP + 10)	Up to 70hPa
	PEEP	about 1 to 15mbar
	Frequency:	about 3 to 80/min
	Insp flow	Max 150l/min
	Pinsp (PEEP + 5)	Up to 70kPa
	I: E ratio	5.1 to 1:9
	In case of failure	Switch to room air automatically
3.5	Display	TFT colour or LCD colour display 8"
3.5.1	Display parameters	Minute Volume Tidal Volume Rate Peak Response, PEEP Graphic Trends
3.6	Patient monitor	To be mounted on the anesthetic machine
3.6.1	Parameters	Pulse rate SpO_2 Temperature: 2 probes Blood pressure (NIPB and IPB) ECG 3 leads
3.6.2	Display	Large LED screen 10" 5 Parameter display
3.6.3	Accessories	
	SpO_2 , Adult Sensor, Reusable	2 Pieces
	SpO_2 , Peadiatric Sensor, Reusable	2 Pieces
	SpO_2 , Infant Sensor, Reusable	2 Pieces
	Temperature	2 Probes
	BP cuff, Large adult, reusable	1 Piece
	BP cuff, adult, reusable	1 Piece
	BP cuff, Small adult, reusable	1 Piece
	BP cuff, Pead, reusable	1 Piece
	BP cuff, Thigh, reusable	1 Piece
	ECG 3 or 5 Leads	1 Piece
4	Physical characteristics	
4.1	Main unit	mobile on casters
	Outer dimensions	Compact design
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase, 3 Pin Plug, 3m long cord with PE
	Ambient temperature	10^{o} C to 40^{o} C
	Relative humidity	40% to 90%
6	Back up Power supply	
6.1	Automatic Voltage Regulator (AVR) with back up	
6.1.1	Capacity	Over VA of the main Unit including the patient monitor and to provide at least 1 hour back up power supply
6.1.2	Input	Ac 240V, 50Hz, Single phase ± 15%
6.1.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %
7	Spare parts	
	Face Mask, Adult	2 Sets
	Face Mask, Peads	2 Sets

	Face mask, Baby	2 Sets
	Oxygen Cell	1 Unit
	Soda lime	6 containers
	ECG Lead	2 Set
9	Quality standards	
9.2	Manufacturing standards	ISO 80601-2-13:2022 Medical electrical equipment — Part 2-13: Particular requirements for basic safety and essential performance of an anaesthetic workstation. ISO 13485 or any other recognised International Standards,
	Product conformity standards	EU-93/42/EEC, IEC 60601-1, EN 740, FDA approved or any other internationally recognized, equivalent and approval standards
10	Maintenance contract	
10.1	Capacity to provide maintenance and repair service	Vendor/manufacturer shall have adequate facilities, spare parts, qualified and skilled technical staff to offer comprehensive maintenance contract for at least 10 years
11	Delivery point	
11.1	See Schedule of equipment	For inspection, installation and commissioning
12	Pre installation requirements Nil	
13	Installation and testing Complete installation and set up of the machine at the hospital as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep
14.2	Maintenance training	On site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil

Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	Operating Theatre
Item Description			**Blood/Fluid warmer**
1. General Description Blood/Fluid Warmer suitable for warming infusion solutions/fluids (nutrients and medication) up to the patient. The unit shall be for bedside use and mounted on a mobile stand with Ø 60 mm four castor			

2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
3.1.1	Type	Singe channel fluid warmer
3.1.2	Application	Warming of Fluids up to the patient
3.1.3	Technology	Microprocessor control with LED/LCD display of parameter Electrically heated- Continuous operation
3.1.4	Temperature setting	33°C to 41°C accuracy of ±1°C With user programmable temperature setting
3.1.5	Warming time	25°C to 30°C in less than 2 minutes
3.1.6	IV Set Diameter	3.5 to 5 mm
3.1.7	Display	LED or LCD Display of the following parameters Set Temperature Actual temperature Heating time Fault situation
3.1.8	Safety features	
3.1.8.1	Over temperature 42°C	Provided
3.1.8.2	Low temperature 32°C	Provided
	Over heating	Provided
3.1.8.3	Alarms (Audio and Visible)	Low temp. High Temp, Over heat System error
3.1.9	Backup power	Inbuilt for at least 8 hours operation, rechargeable or Alkaline battery
3.2	Accessories	Spare battery pack
4	Physical characteristics	
4.1	Main unit	
4.2	Dimensions	Mounted on a mobile stand with four castors Ø 60, with brakes. Constructed from non-corrosive durable material
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase
5.2	Ambient temperature	10 5° C to 40° C
5.3	Relative humidity	20% to 90%
6	Quality standards	
6.1	Manufacturing standards	EN 60601-2-24:2015 Medical electrical equipment - Part 2-24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers or any other equal and equivalent internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
7	Local back up service	
7.1	Available	Should be available locally

7.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
8	Delivery point	
8.1	See Schedule	For inspection, testing and installation
9	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
10	Training	
10.1	User Training	On site user training on operation and daily up keep
10.2	Maintenance training	On site maintenance training on preventive maintenance
11	Technical documentations	
11.1	User manuals	2 Sets
11.2	Service Manual	1 Set
11.3	Drawings	Nil
12	Commissioning	
12.1	Testing and commissioning of the machine to the satisfaction of the user.	
13	Warranty	
13.1	Equipment	Minimum of one year after commissioning on all parts.
13.2	Equipment System	Nil

Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	CSSD
Item Description			**Carrying Cart and Shelves**
1. General Description Carrying cart with shelve for transporting and storing sterile items from CSSD to Hospital Departments. The Cart shall be open frame type constructed from high grade stainless steel. It shall incorporate removable wired basket trays made from stainless steel. It shall me mobile on castors with push handles and protective bumpers.			
2. Composition			
2.1	Main unit		
3. Physical Specifications			
3.1	Main Unit		
3.1.1	Main frame material	All high stainless steel, Open tubular frame	
3.1.2	Shelves	10 stainless steel shelves	
3.1.3	Wired Basket/Tray	20 No. removable stainless steel	
3.1.4	Push handles	2 No. Stainless steel	
3.1.5	Protective bumpers	All sides along the bottom	
3.1.6	Overall Dimensions	670 W X 1100 D X 1700 H (mm)	
3.1.7	Mobile	With 4 Antistatic 125mm swivel, with brakes	
4	Quality Standards		
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards	
4.2	Conformity to standards	CE marked or any other internationally recognized documents	
5	Delivery point		
5.1	See schedule	Delivery point	
6	Warranty		
6.1	Equipment	Minimum of one year after delivery	

6.2	Equipment System	Nil

Item Description			**Static Bicycle**
Department	Physiotherapy	Room Name/No.	

1. General Description

A stationary exercise bike designed for indoor cardiovascular training, rehabilitation, and fitness conditioning. It provides a low-impact, repeatable pedaling motion that can be adjusted for resistance, seat height, and handle-bar position to suit a wide range of users—from seniors and patients in physiotherapy.

2. Composition

2.1. Static Bicycle – 1 No.

3. Performance Specifications

3.1

- Frame: Welded steel or aluminum alloy, powder-coated finish, weight-bearing capacity up to 150 kg.
- Dimensions (L × W × H): About 115 cm × 55 cm × 115 cm.
- Weight: About 30 kg.
- Flywheel: 8–12 kg solid-metal disc, magnetic or air-brake resistance; silent operation.
- Resistance Levels: 8-16 programmable levels; fine-tune via knob or digital console.
- Pedal System: Adjustable-width, dual-side pedals with strap or cage; toe clips.
- Seat Adjustment: Vertical range 70–110 cm, horizontal slide 10 cm; quick-release lever.
- Handlebars: Multi-position, ergonomic grip; height adjustable 90–120 cm.
- Console: LCD display showing time, distance, speed, RPM, calories, heart-rate (via built-in sensors or chest strap).
- Power: Battery-powered console (2 × AA), AC adapter.
- Connectivity: USB or Bluetooth for data export to PC, smartphone apps, or EMR systems.
- Safety Features: Non-slip foot pedals, emergency brake, stable base with anti-tip legs.

4	Quality standards	
4.1	Manufacturing standards	- Compliance: CE-marked, ISO 13485, meets IEC 60601-1 medical safety standards (when used in clinical settings).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	

10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Department	OPD	Room Name/No.	
Item Description			**Bedside Monitor**

1. General Description

Bedside monitor suitable for use in critical care. Should be capable of continuous measuring/ monitoring of the following parameters in adults, neonatal and pediatric.

- ECG
- SpO_2
- NIBP
- TEMP
- Respiration

The monitor shall be mounted on a mobile cart.

2. Composition

2.1 Main unit

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

3.2 SPO_2

3.2.1	Measurement range	0 to 100%
3.2.2	Accuracy	± 2%
3.2.4	Heart Rate	20 to 350 (for adult and Peads) , bpm accuracy ±1 bpm
3.2.5	Accessories	SPO_2 connection cable 2 No. SPO_2 Sensors; Adult 2 No. Reusable, Finger Pediatric 2 No. Reusable, Finger Neonatal 2 No. Reusable

3.3 NIBP

3.3.1	Method/Technology	Automatic oscillometric or equal and equivalent technology, 0 – 300 mmHg
3.3.2	Mode	Manual/Auto/continuous
3.3.3	Measuring units	mmHg/kPa
3.3.4	Pressure types	Systolic. Diastolic, Mean
3.3.5	Systolic Range	Adult: 40 to 280 mmHg Pead : 40 to 200 mm Hg
3.3.6	Diastolic Range	Adult: 10 to 215 mmHg Pead: 10 to 150 mm Hg
3.3.7	Over pressure protection	Provided, to include Audio and Visual Alarm
3.3.8	Accuracy	± 2bpm
3.3.9	Accessories	BP Cuff, Adult, Large 2 No. BP Cuff, Adult, Medium, 2 No. BP cuff, Pead 2 No.

3.4 TEMP

3.4.1	Method	RTD technology or better

3.4.2	Measurement Range	0°C to 50°C,
3.4.3	Accuracy	± 0.1°C
3.4.4	Accessories	Temperature connection cable and probe, reusable 5 sets
	Respiration	Derived from ECG or impedance, 0 – 120 breaths/min
3.5	Display	TFT/LED Minimum screen size 12.1 ", touch screen
3.5.1	Resolution	Minimum HD 1080p, 10 channels
3.6	Safety requirements	
3.6.1	Alarm function	Audible and Visual, adjustable screen light and sound
3.6.2	Safety	Self-check: audible and visual alarm
3.6.3	Lead fault	Audible and visual alarm
3.6.7	Low Battery	Audible and visual alarm
3.6.8	Power Failure	Audible and visual alarm
3.7	Recorder	Inbuilt, thermal array type or equivalent,
3.8	Accessories	Thermal head cleaner pin 1 No. Grounding Lead 1 No.
3.9	Storage	Capable of storing patient data.
3.9.1	Internal Memory	≥250 GB
3.9.1	Interface	Capable of transferring stored data to a PC for viewing, analysis or printing. USB, RJ 45, DICOM 3 compatible, Port for external printer,
3.10	Recorder	Inbuilt, thermal array or equivalent Two speed, selectable Port for external printer
3.11	Input	In built with provision for connection of external Keyboard.
4	Physical characteristics	
4.1	Main unit	
4.2	Dimensions	Portable with a recharge dock or equivalent recharging unit and mounted on a mobile cart. The cart shall have four castors Ø100 mm with brakes. It shall be constructed from robust anti-rust material.
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase, 3 Pin Plug, 3m long cord BS type with PE
5.2	Back up supply	Internal rechargeable batteries (SLA), to last at least three hours
5.3	Ambient temperature	10° C to 40° C
5.4	Relative humidity	40% to 90%
6	Spare parts/ Consumables	
6.1	Fuses	1 Set
6.2	Battery pack	1 Set
7	Quality standards	
7.1	Manufacturing standards	IEC 80601-2-49:2018 Medical electrical equipment — Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment ISO 13485:2016: Medical devices — Quality management

		systems — Requirements for regulatory purposes ISO 9001
7.2	Conformity to standards	CE marked/ FDA approved or any other equal and equivalent internationally recognized documents
8	Local back up service	
8.1	Available	Should be available locally
8.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, consumables and qualified and skilled technical staff
9	Delivery point	
9.1	See Schedule	For inspection and testing
9.2	Nil	
10	Pre installation requirements	
	Nil	
11	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
12	Training	
12.1	User Training	On site user training on operation and daily up keep
12.2	Maintenance training	On site maintenance training on preventive maintenance
13	Technical documentations	
13.1	User manuals	2 Sets
13.2	Service Manual	1 Set
13.3	Drawings	Nil
14	Commissioning	
14.1	Testing and commissioning of the machine to the satisfaction of the user.	
15	Warranty	
15.1	Equipment	Minimum of one year after commissioning on all parts.
15.2	Equipment System	Nil

Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	Operating Theatre
Item Description			**Delivery Set**

1. General Description

- Standard C/S sets. The instruments should be constructed from high grade stainless steel and packed in a stainless steel container. All the items shall be engraved with the manufacture's logo or name.

- **<u>Packaging parameters:</u>**

- Individually packed in a box
- Standard weight of carton 15-30kg during the final delivery to hospitals.
- Each carton to be clearly marked with the name and characteristics of the article and number of units per carton.

Labeling parameters:

- Labeling should be in English.
- Product should be labeled with: Manufacturer's Name and address, Country of Origin, Batch No, Date of Manufacture.

Should conform to KEBS / ISO standard or equivalent.

2. Composition

2.1 Main Kit

3 Description of instrument

ITEM	DESCRIPTION	QUANTITY
1	Kidney dish Stainless steel	1
2	Straight Artery forceps-Crile	2
3	Gallipot Stainless steel	1
4	Dissecting forceps	2
5	Bowl	1
6	Sponge holding forceps Rampley	1
7	Needle holder	1
8	Mayo Scissors	6
9	Cusco Speculum	1
10	Perforated sterilizing Box According to the size	1

4 Quality standards

4.1 Manufacturing standards — IEC 60601-1, ISO 9001 or any other internationally recognized standards

4.2 Conformity to standards — CE marked or any other internationally recognized documents

5 Delivery point — See schedule

Department	Operating theatres, Sterilization and Instrument sets 2	Room Name/No.	Instrument Sets
Item Description			**General hysterectomy set**

1. General Description

- Standard General hysterectomy set. The instruments should be constructed from high grade stainless steel and packed in a stainless steel container. All the items shall be engraved with the manufacture's logo or name.

Packaging parameters:

- Individually packed in a box
- Standard weight of carton 15-30kg during the final delivery to hospitals.

- Each carton to be clearly marked with the name and characteristics of the article and number of units per carton.

Labeling parameters:

- Labeling should be in English.
- Product should be labeled with: Manufacturer's Name and address, Country of Origin, Batch No, Date of Manufacture.

Should conform to KEBS / ISO standard or equivalent.

2. Composition
2.1 Main Kit

3 Description of instrument

ITEM	DESCRIPTION	QUANTITY
1	Sterilization container 18" x 24" x 4"	1
2	Rampley Sponge Holding Forceps 9½"	5
3	Uterine Scissor 10" COF	2
4	Mayo Scissor 9" Curved	1
5	Mayo Scissor 7" Curved	1
6	Uterine Scissor 8" Curved	1
7	Iris Scissor Curved 4 ½"	1
8	Mayo Scissor Straight 6"	1
9	Mayo Scissor Straight 5"	1
10	Curtus Scissor 7"	1
11	Careless (Ligature Scissor) 5" Straight	1
12	Waughs Dissecting Forceps Non-Toothed 8"	1
13	Waughs Dissecting Forceps Toothed 8"	1
14	Bard Parker Handle No. 4	2
15	Bard Parker Handle No. 3	1
16	Lanes Dissecting Forceps 11" Toothed	1
17	Lanes Dissecting Forceps 11"Non-Toothed	1
18	Trevers Dissecting Forceps Non-Toothed 7"	1
19	Bonny's Dissecting Forceps 7" Toothed	1
20	Catch Dissecting Forceps Toothed7"	1
21	Adson Dissecting Forceps Non-Toothed 7"	1
22	Adson Dissecting Forceps Toothed 7"	1
23	Spencer Wells Artery Forceps Straight 8"	10
24	Chances Artery Forceps Curved 7"	10
25	Dun-Hills Artery Forceps 5" Curved	10
26	Lanes Tissue Forceps 6"	2
27	Allis Tissue Forceps 6"	2
28	Langenbeck Retractors 8"	2
29	Canyralls Retractors 7"	2
30	Shandle Cross Action clips 4"	8
31	Crile Wood Needle Holder 7"	1

	32	Sims Needle Holders 6"	2	
	33	Kilner Needle Holder 5½"	1	
	34	Finuchieto Needle Holder 10"	1	
	35	Yanker Sucker Tube with Cap 10"	1	
	36	Yanker Sucker Medium 8"	8	
	37	Pozzy Self-Retaining Retractor with Centre Blades 62"x38"	1	
	38	Morris Retractor9½" (70mmx50mm)	2	
	39	Bonnys Mayoma Clamps 8"	1	
	40	Mayoma Screw Small 6"	1	
	41	Mayoma Screw Medium7½"	1	
	42	Angled Kocher Artery Forceps 13'	4	
	43	Straight Kocher Artery Forceps 7"	4	
	44	Straight Kocher Artery Forceps 10"	4	
	45	Curved Kocher Artery Forceps 8"	6	
	46	Landough Uterine Dressing Forceps 10"	3	
	47	Doyen Abdominal Retractor Small 60mmx45mm	1	
	48	Doyen Abdominal Retractor medium 90mmx45mm	1	
	49	Gosset Abdominal Retractor 55mm, 38mm	1	
	50	Cervical Clamps Straight 8"	2	
	51	Cervical Clamp Curved 8"	1	
	52	Millis Phillis Clamp 8"	2	
	53	Mayo Pins 4½"	4	
	54	Metzebaum Delicate Scissor 8"	1	
	55	Dissecting Forceps Spring Catch Non-Toothed Angled	1	
	56	Acutelly Curved Scissor C.O.F. 7"	1	
	57	Silver Probe 6"	1	
	58	Malleable Retractor 1"	1	
	59	Deavers Retractors 12"	2	
	60	Hosley Needle Holder 5"	1	
4	Quality standards			
4.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards		
4.2	Conformity to standards	CE marked or any other internationally recognized documents		
5	Delivery point	See schedule		

Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	Instrument Sets
Item Description			**Basic Laparotomy Set (General)**
1. General Description			

- Standard amputation set. The instruments should be constructed from high grade stainless steel and packed in a stainless steel container. All the items shall be engraved with the manufacture's logo or name.

- **Packaging parameters:**

- Individually packed in a box
- Standard weight of carton 15-30kg during the final delivery to hospital.
- Each carton to be clearly marked with the name and characteristics of the article and number of units per carton.

- **Labeling parameters:**

- Labeling should be in English.
- Product should be labeled with: Manufacturer's Name and address, Country of Origin, Batch No, Date of Manufacture.

Should conform to KEBS / ISO standard or equivalent.

2. Composition

2.1 Main Kit

3 Description of instrument Quantity

ITEM	Description of instrument	Quantity
3.1	Mayo Scissor Curved 7"	1
3.2	Mayo Scissor Straight 6" Or 7"	1
3.3	Mayo Scissor Straight 5"	1
3.4	Mayo Scissor Curved (COF) 5"	1
3.5	Careless Scissor Curved (COF) 5"	1
3.6	John Nelson Dissecting Forceps 11" (Non – Toothed)	1
3.7	John Nelson Dissecting Forceps (Toothed) 11"	1
3.8	Lane Dissecting Forceps 6"	2
3.9	Waugh's Dissecting Forceps 6 or 7"	1
3.10	Bard Parker Handle No.4	2
3.11	Bard Parker Handle No. 3	1
3.12	Dunhill's Artery Forceps C urved (COF) 5"	10
3.13	Dunhill's Artery Forceps Straight (COF) 5"	5
3.14	Spencer Wells Artery Forceps Straight 5"	10
3.15	Chances Artery Forceps Curved (COF) 7"	10
3.16	Lane Tissue Forceps 6"	2
3.17	Little Wood Tissue Forceps 7¼"	4
3.18	Allis Tissue Forceps6"	4

	3.19	Sims Needle Holder 7"	1	
	3.20	Adson Needle Holder 6"	1	
	3.21	Mayo Needle Holder 5"	1	
	3.22	Sinus Forceps6"	1	
	3.23	Silver Probe 6"	1	
	3.24	Aneurysm Needle 6"	1	
	3.25	Stanley Boyd Scoop (Curette)	1	
	3.26	Watson Chayne Dissection and Probe 7"	1	
	3.27	Yanker Sucker Tube with Cap 12"	1	
	3.28	Medium Yanker Sucker End with Cup 10"	1	
	3.29	Fine Yanker Sucker End 8"	1	
	3.30	Shardle Cross Actions 3"	8	
	3.31	Cannyral Retractors 7½"	2	
	3.32	Langernbeck Retractors7"	2	
	3.33	Kocher Intestinal Clamps (Anastomosis) 9"	2	
	3.34	Doyen Intestinal Clamps (Anastomosis) 9"	2	
	3.35	Moynihan clamps 11"	4	
	3.36	Green Armitage Clamps 8¼"	2	
	3.37	Payers Crushing Clamps 8"	2	
	3.38	Dud Fields Artery Forceps 7" Or 9"	2	
	3.39	Pozzy's Self Retaining Retractor with Centre Blade. 55mx55mm	1	
	3.40	Kelly's Abdominal Retractor 1¼ blade (150mmx39mm)	1	
	3.41	Kelly's Abdominal Retractor 2" Wide Blade (150mmx57mm)	1	
	2.42	Deavers Abdominal Retractor1" Wide Blade12"	1	
	3.43	Copper Retractor1 ½ x 12"	1	
	3.44	Copper Retractor 1" x 6"	1	
	3.45	Morris Retractor Wide Blade 8½" (2"deepx2½"wide)	2	
	3.46	Cardwines Intestinal Twin or mayo Robson Clamp25cm	1	
	3.47	Mayo Pins 4"	4	
	3.48	Kidney dish 8"	3	
	3.49	Galipot 4"	1	
	3.50	Stainless steel tray 18"x24"	1	
4	Quality standards			
4.1	Manufacturing standards		IEC 60601-1, ISO 9001 or any other internationally recognized standards	
4.2	Conformity to standards		CE marked or any other internationally recognized documents	
5	Delivery point		See schedule	

Department	Operating theatres, Sterilization and Instrument sets	Room Name/No.	Instrument Sets
Item Description			**Suturing Set**

1. General Description

- Standard C/S sets. The instruments should be constructed from high grade stainless steel and packed in a stainless steel container. All the items shall be engraved with the manufacture's logo or name.

- **Packaging parameters:**

- Individually packed in a box
- Standard weight of carton 15-30kg during the final delivery to hospitals.
- Each carton to be clearly marked with the name and characteristics of the article and number of units per carton.

- **Labeling parameters:**

- Labeling should be in English.
- Product should be labeled with: Manufacturer's Name and address, Country of Origin, Batch No, Date of Manufacture.

Should conform to KEBS / ISO standard or equivalent.

2. Composition

2.1 Main Kit

3 Description of instrument

ITEM	DESCRIPTION	QUANTITY
1	Kidney Dish 20 cm (8") - medium	1
2	Gallipot 150 ml - 6 oz - medium	1
3	Mayo Hegar needle holder - 18 cm	1
4	Kocher artery forceps - straight - 16 cm	1
5	Kocher artery forceps - curved - 16 cm	1
6	Dressing Forceps (Thumb) - 16 cm	1
7	English TOE dissecting forceps - plain - 14 cm	1
8	Dissecting forceps toothed 1x2 - 14 cm	1
9	Suture scissors - Heaths Ligature - 15 cm	1
10	Mayo scissors - straight - 15 cm	1
11	Rampley sponge holding forceps - str. - 18 cm	1
12	Instrument tray with lid 30 x 20 x 5 cm	1

4 Quality standards

4.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	See schedule

Department	Maternity	Room Name/No.	N/A
Item Description			**Delivery bed with mattress**

1. General Description

3 Sections delivery bed complete with adjustable footrest, leg rest, body section, lithotomy poles, IV pole, and detachable s/s basin. Robust stainless steel construction on four antistatic castors φ 60mm, 2 lockable. With safety side rails and antistatic high density mattress covered with vinyl leather material.

Complete with:

- Removable head frame
- Adjustable hand grips
- Infusion pole, adjustable
- Stainless Steel, Bowl
- Swinging arm, drop down side rails
- Lithiotomy poles and straps
- Sliding mechanism
- Tilting mechanism

2. Composition

2.1	Main unit	

3. Physical Specifications

3.1	Main Unit	
3.1.1	Type	3 section
3.1.2	Material of main unit	High grade stainless steel
3.1.3	Height	Adjustable, mechanical or hydraulic, 510mm to 830mm
3.1.4	Length (Overall)	2100 mm to 2140 mm
3.1.5	Widht (Overall)	1000mm
3.1.6	Trendelenburg	Forward: Min 25°, Reverse: Min 10°
3.1.7	Leg section	Removable with slide away foot piece
3.1.8	Back rest	Adjustable (Gas filled)
3.1.9	Mobile	With 4 rubber castors φ12.5cm, with central locking system and steering facility
3.1.10	Head frame	Removable
3.1.11	Hand grip	Included
3.1.12	Infusion pole	1 Piece
3.1.13	Stainless Steel, Bowl	1 Piece
3.1.14	Side rails	Drop down type
3.1.15	Lithiotomy poles and straps	Included
3.1.16	Mattress	Two pieces mattress

3.1.17	Mattress density	High density form mattress
3.1.18	Mattress width and thickness	Approx. 900 mm and 150mm thick
3.1.19	Mattress cover	Removable leather imitation material or Vitapruf
3.1.20	Mattress section	Stainless steel
3.1.21	Weight to handle	180 kg
4	Quality Standards	
4.1	Manufacturing standards	ISO 9001 or any other internationally recognized standards
4.2	Conformity to standards	CE marked or any other internationally recognized documents
5	Delivery point	
5.1	See schedule	Delivery point
6	Warranty	
6.1	Equipment	Minimum of one year after delivery
6.2	Equipment System	Nil

Department	Maternity	Room Name/No.	N/A
Item Description			**Delivery light**
1. General Description Delivery light (Operating lamp) Mobile, floor stand type. The light should consist of one head lamp with four halogen bulb. It should be constructed from light weight material preferable aluminum, and easily to disinfect. It should have emergency back up power supply to last for at least 2 hours.			
2. Composition			
2.1	Main unit and Main lamp head		
3. Performance Specifications			
3.1	Main lamp head		
3.1.1	Diameter	500-700 mm, light weight	
3.1.2	Rotation	Provided along the central axis	
3.1.3	Maximum light intensity	About 100,000 lux at 1 meter each	
3.1.4	Focus	Adjustable	
3.1.5	Field	Constant to a depth of at least 500mm	
3.1.6	Field	shadow less	
3.1.7	Light colour Temperature	3700 to 4500 K	
3.1.8	Lighting Control	Electronic system with touch button light intensity	
3.1.9		Control mounted at a convenient place preferable on the head lamp.	
3.1.10	Lighting Bulb	Low voltage halogen bulb 4 pcs,, 12V or 24V or LEDs	
3.1.11	IR filtration	> 95% (Cold light)	
3.1.12	Height	Adjustable	
3.1.13	Mobile	On for castors with brakes	
4	Operating environment		
4.1	Power Requirements	240V, A/c 50 Hz, Single phase, with PE	
4.2	Ambient temperature	10^{o} C to 40^{o} C	
4.3	Relative humidity	40% to 90%	
5	Emergency Back up power	To least for at least 2 hour	

5.1.1		With sealed lead acid batteries
5.1.2		Automatic change over and charger unit
5.2	Automatic Voltage Regulator (AVR)	
5.2.1	Capacity	Over VA of the main Unit
5.2.2	Input	Ac 240V, 50Hz, Single phase ± 15%
5.2.3	Output	Ac 240V, 50Hz, Single Phase ± 2.5 %
7	Spare parts	
6.1	Spare bulbs	50 units
7	Quality standards	
7.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
7.2	Conformity to standards	CE marked or any other internationally recognized documents
8	Local back up service	
8.1	Available	Should be available locally
8.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
9	Delivery point	
9.1	See Schedule	For inspection and testing
10	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
11	Training	
11.1	User Training	On site user training on operation and daily up keep
11.2	Maintenance training	On site maintenance training on preventive maintenance
12	Technical documentations	
12.1	User manuals	2 Sets
12.2	Service Manual	2 Set
12.3	Drawings	Nil
13	Commissioning	
13.1	Testing and commissioning of the machine to the satisfaction of the user.	
14	Warranty	
14.1	Equipment	Minimum of one year after commissioning on all parts.
14.2	Equipment System	Nil

Department	Maternity	Room Name/No.	New born
Item Description			**Infant radiant warmer**
1. General Description Robust metal design on four castors φ 60mm, capable of warming infant in new born units. Complete with temperature control and digital read			
2. Composition 2.1 Main unit			
3. Performance Specifications 3.1 Main Unit 3.1.1 Heating power — 700W 3.1.2 Heating unit — Far- infrared ray 3.1.3 Stand — Made from epoxy coated mild steel or equivalent. Should be mobile on castors φ 60mm with locks. 3.1.4 Height — Adjustable from about 900mm to 1100mm. 3.1.5 Treatment table — Bed and mattress provided. Approx. 70 X55 cm			

3.1.6	Distance from heater to mattress	About 80 cm
3.1.7	Control Unit	Microprocessor- based, temperature control with digital LED readout
3.1.8	Skin temperature range	32°C to 38°C ± 0.3°C
3.1.9	Warm up time (from ambient temp. 25°C)	< 30 minutes
3.1.10	Overheating protection	Second cut-off provided
	Alarms	Audio and visual for power failure, Skin temperature sensor failure, Over temperature, system failure
4	Physical characteristics	
4.1	Main unit	Robust construction and easy to clean
4.2	Dimensions	See above
5	Operating environment	
5.1	Power Requirements	240V, A/c 50 Hz, Single phase
5.2	Ambient temperature	10° C to 40° C
5.3	Relative humidity	40% to 90%
6	Quality standards	
6.1	Manufacturing standards	IEC 60601-1, ISO 9001 or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
7	Local back up service	
7.1	Available	Should be available locally
7.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
8	Delivery point	
8.1		For inspection, testing and installation
9	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
10	Training	
10.1	User Training	On site user training on operation and daily up keep
10.2	Maintenance training	On site maintenance training on preventive maintenance
11	Technical documentations	
11.1	User manuals	2 Sets
11.2	Service Manual	1 Set
11.3	Drawings	Nil
12	Commissioning	
12.1	Testing and commissioning of the machine to the satisfaction of the user.	
13	Warranty	
13.1	Equipment	Minimum of one year after commissioning on all parts.
13.2	Equipment System	Nil

Item Description			**Resuscitaire**
Department	Maternity	Room Name/No.	N/A

1. General Description

Infant warmer and resuscitator machine (Resuscitaire) capable of providing neonatal thermal regulation and resuscitation support in labour and delivery procedures. The unit should be complete with heat regulation facilities, suction, flow meter , positive pressure, gauges, and portable gas cylinders all mounted on a mobile bed

2. Composition

2.1 Main unit, mobile type, on current production

2.2 Thermo regulation facilities

2.3 Respiration facilities

2.4 Monitoring facilities

2.5 Alarms

2.6 Accessories

3. Performance Specifications

3.0	Main Unit	Mobile type with two oxygen cylinders
3.1.	Function	Thermal regulation, Resuscitation, and Clinical Emergencies for neonates
3.2	Thermal regulation	
3.2.1	Heating	Silica quart technology or equivalent
3.2.2	Heating temperature range	34°C- 38°C adjustable
3.2.3	Skin temperature measurements	Provided (18°C-43°C)
3.2.4	Examination light	Integrated, LED type
3.2.5	Air temperature measurements	Provided
3.3	Resuscitation	
3.3.1	Oxygen Cylinder	500 litres, 2 pieces, BS type
3.3.2	Oxygen regulator and connections	BS type
3.3.3	Provision for wall mounted Oxygen terminal	To be provided
3.3.4	Oxygen flow meter and humidifier	To be provided, integrated
3.3.5	Suction	Integrated with gauges and suction bottle and filters
	Gauges/Manometers	To be provided, integrated
3.3.6	Positive pressure	Provided
3.3.7	Blender	Integrated (21- 100%), O_2
3.4	Measurement	
3.4.1	FiO2	Adjustable
3.4.2	PEEP	Adjustable
3.4.3	Airway pressure	Adjustable with relief
3.5	Display	Digital display of all measured parameters
3.6	Alarm and system alert	To be provide for all parameter monitored (Audio and Visual)
3.7	Treatment table	Bed and mattress provided
3.7.1	Height of table	Adjustable from about 900mm to 1100mm.
3.8	Control Unit	Microprocessor- based, with digital readout
3.9	Castors	Provided, heavy duty, Ø 100mm, with brakes

3.10	Shelf	Provided
3.11	IV pole	Provided
3.12	Accessories	
3.2.1	oxygen giving set and other necessary accessories	10 Pcs
3.3	Power	240V, 50Hz single phase
4	Quality standards	
4.1	Manufacturing standards Conformity to standards	ISO 13485 or any other internationally recognized standards CE marked or any other internationally recognized documents
5	Delivery point	
5.1	See Schedule	For inspection, installation and testing
5.2	Nil	

Item Description			**Aluminum trolley**
Department	OPD	Room Name/No.	
1. General Description Lightweight, corrosion-resistant, and durable, aluminium trolley featuring extruded aluminium frames.			
2. Composition 2.1 Aluminum 1 No.			
3. Performance Specifications 3.1			**Frame and Material:** High-grade, lightweight alumnium extrusion, welded with smooth corrosion resistant finish. **Load Capacity:** At least 150kg Dimensions: Approximate size 1200 mm x 600 mm x 1000 mm. **Wheels/Castors**: Polyurethane or rubber, 100 mm – 125 mm. Two swivel (front) and two fixed (rear) for easy steering. Lockable brakes on all wheels. **Surface**: Flat, non-porous top with a brushed or anodized finish for easy cleaning. **Features**: Reinforced corners and side rails. Integrated handles with ergonomic grip. 2 Shelves for drawer unit (lockable). Mounting brackets for IV poles, monitors, or medical equipment. **Weight**: Empty trolley:8 Kg to 12 Kg
4 Quality standards 4.1 Manufacturing standards			ISO 9001 Quality management, ISO 13485 for medical device requirements or any other equal and recognized internationally standards

4.2	Conformity to standards	Compliant with CE marking for medical equipment
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Commissioning	
7.1	Testing and commissioning of the devices to the satisfaction of the user.	
8	Warranty	
8.1	Equipment	Minimum of one year after commissioning on all parts.

Department	**OPD**	**Room Name/No.**	
Item Description			**Autoclave, table top**

1. General Description

A high pressure, high temperature medical device that uses steam to sterilize equipment and materials by killing bacteria, viruses, fungi and spores. It's a sealed pressurized chamber used in healthcare setting e.g. clinics, laboratory, hospitals that raises the boiling temperature of water creating superheated steam that destroys microorganisms.

2. Composition

2.1 Main unit

3. Performance Specifications

3.1 Main Unit

3.1.1	Temperature range	121°C to 134°C
3.1.2	Chamber size	At least 20 L
3.1.3	Chamber dimensions	200 mm x 200 mm x 250 mm
3.1.4	Working pressure	15 psi.
3.1.5	Cycle types :	Standard (121°C/15psi x 15 min) Fast (134°C/30psi x 3min)
	Auto start/stop, adjustable	
3.1.6	Dimensions:	420 mm x 380 mm x 340 mm
	Weight (empty)	12 Kg
3.1.7	Construction	Stainless steel chamber, aluminium outer housing with powder-coat finish; sealed door with silicone gasket
3.1.8	Controls	Digital LCD, programmable cycles, pressure & temperature display, safety lock.
	Safety features	Automatic safety release, over-temperature cut-off, door interlock, audible alarm.
	Water supply	Built-in reservoir with autofill option, can also connect to external de-ionized water line.

4 Physical characteristics

4.1	Main unit	Bench top, Robust construction and easy to clean
5	Operating environment	
5.1	Power Requirements	220-240V, 1 KW, A/c 50 Hz, Single phase
	Ambient temperature	10° C to 40° C
	Relative humidity	20% to 90%
6	Quality standards	
6.2	Manufacturing standards	ISO 13485, IEC 61010-1
	Conformity to standards	CE/FDA marked
7	Local back up service	
7.1	Available	Should be available locally
7.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
8	Delivery point	
8.1	See Schedule	For inspection
8.2	Hospital	For installation : See hospital schedule
9	Pre installation requirements	
	Nil	
10	Installation and testing	
	Complete installation and setup of the machine as per manufacturer's instructions	
11	Training	
11.1	User Training	On site user training on operation and daily up keep
11.2	Maintenance training	Onsite maintenance training on preventive maintenance
12	Technical documentations	
12.1	User manuals	2 Sets
12.2	Service Manual	1 Set
13	Commissioning	
13.1	Testing and commissioning of the machine to the satisfaction of the user.	
14	Warranty	
14.1	Equipment	Minimum of one year after commissioning on all parts.

Department	OPD	Room Name/No.	
Item Description			**Autoclave, laboratory**

1. General Description

A high pressure, high temperature medical device that uses steam to sterilize instruments and glassware by killing bacteria, viruses, fungi and spores. It's a sealed pressurized chamber used in laboratory, hospitals that raises the boiling temperature of water creating superheated steam that destroys microorganisms.

2. Composition

2.1 Main unit

3. Performance Specifications

3.1 Main Unit

3.1.1	Temperature range	121°C to 134°C, adjustable in 1°C increments.
3.1.2	Chamber size/volume	At least 75 L Maximum load: at least 60 Kg (dry weight)
3.1.3	Chamber dimensions	600 mm x 550 mm x 900 mm
3.1.4	Working pressure	15 psi (1 bar) standard.
3.1.5	Cycle types:	Standard (121°C/15psi x 15 min) Fast (134°C/30psi x 3min) Liquids, waste, and vacuum-dry options Auto start/stop, adjustable
3.1.6	Dimensions:	420 mm x 380 mm x 340 mm
	Weight (empty)	Approx. 45 Kg
3.1.7	Construction	Stainless steel chamber 304, outer housing with powder-coated steel finish; sealed door with silicone gasket
3.1.8	Controls	Digital LCD or touch screen, programmable up to 10 cycles, real-time pressure/temperature display, USB data logging, safety lock.
	Safety features	Automatic safety release, over-temperature cut-off, door interlock, visual/audible alarm, emergency manual vent.
	Water supply	Built-in reservoir with autofill option, can also connect to external de-ionized water line.

4 Physical characteristics

4.1 Main unit Robust construction and easy to clean

5 Operating environment

5.1 Power Requirements 220-240V, A/c 50 Hz, Single phase

	Ambient temperature	10° C to 40° C
	Relative humidity	20% to 90%
6	Quality standards	
6.2	Manufacturing standards	ISO 13485, IEC 61010-1, ASME BPVC Section III
	Conformity to standards	CE/FDA marked
7	Local back up service	
7.1	Available	Should be available locally
7.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, and qualified and skilled technical staff
8	Delivery point	
8.1	See Schedule	For inspection
8.2	Hospital	For installation : See hospital schedule
9	Pre installation requirements	
	Nil	
10	Installation and testing	
	Complete installation and setup of the machine as per manufacturer's instructions	
11	Training	
11.1	User Training	On site user training on operation and daily up keep
11.2	Maintenance training	Onsite maintenance training on preventive maintenance
12	Technical documentations	
12.1	User manuals	2 Sets
12.2	Service Manual	1 Set
13	Commissioning	
13.1	Testing and commissioning of the machine to the satisfaction of the user.	
14	Warranty	
14.1	Equipment	Minimum of one year after commissioning on all parts.

Department	OPD	Room Name/No.	N/A
Item Description			**Baby Walker**
1. General Description			

A Baby walker is a device designed for infants who cannot walk on their own from 6–15 months. It consists of base with wheels and a suspended fabric seat that allows babies to sit and move around independently.		
2. Composition 2.1 Main unit		
3. Performance Specifications 3.1 Main unit		
3.1.1	Overall dimensions(LxWxH)	70 cm x 45 x cm x 45 cm (adjustable height 45-55cm)
3.1.2	Weight:	3.2 Kg (empty)-5Kg(load)
3.1.3	Material:	Frame; High grade aluminium alloy. Powder coated for corrosion resistance. Seat & tray: BPA free, food grade polypropylene, UV stable.
3.1.4	Maximum user weight:	12 Kg
3.1.5	Wheel type:	4 x dual direction, 7 cm diameter, non-slip rubber/TPU, 2 front wheels swivel, 2 rear wheels fixed with brake lock.
3.1.6	Adjustable height:	3-position seat height, 2 cm increments, snap-fit lock.
3.1.7	Safety features:	Dual-locking brake on rear wheels. Wide, stable, base (≥55 cm) to prevent tipping. Soft, padded seat with 5-point harness (adjustable straps). Rounded, child-proof edges, no-exposed screws.
3.1.8	Tray:	Removable, dish-washer safe, with cup-holder and snack compartment.
3.1.9	Load capacity of tray:	2 Kg
3.10	Assembly	Tool-free, click-together joints; includes quick release handle for folding. (collapsed size 70 cm x 45 cm x 15 cm)
4	Quality standards	
4.1	Compliance	EN 71-1/2/3 (safety of Toys), ASTM F97 (Standard Consumer Safety specification for Baby Walkers)
	Conformity to standards	CE marked
5	Delivery point	
5.2		For inspection and testing

Department	OPD	Room Name/No.	
Item Description			**Central monitoring Unit**
1. General Description A Central Monitoring Unit (CMU) is a networked system that displays, stores, and manages real-time vital signs and alarm data from multiple patient bedside monitors in ICU.			
2. Composition 2.1 Main unit			
3. Performance Specifications 3.1 Main Unit			

3.1.1	System Architecture Modular design for scalable expansion. Distributed processing with fault tolerant redundancy. Open architecture to integrate with third party bedside monitors. Networked communication (wired/wireless).	
3.2	Hardware specifications	
3.2.1	CPU:	0 to 100% Multi-core processor – Intel Xeon/Core i7 or equivalent. RAM ≥16-32 GB ECC (scalable) Storage: SSD ≥512 GB OS and data caching, RAID 1/5 configurable HDD (1 – 4 TB) for historical data. Redundancy: Dual power supplies and hot-swap drives
3.2.2	Operating temperature:	10°C – 35°C
3.2.4	Humidity:	10 – 90% non-condensing
3.2.5	Display console:	Primary display: 24 – 32 inches wide LCD/LED. Resolution: Full HD (1920 x 1080) or higher.
3.3	Network:	Network interfaces: 2 x Gigabit Ethernet minimum, 10 Gbe. Wireless support: IEEE 802 11 ac/ax Network protocols: TCP/IP, HL7, DICOM
3.3.1	Power	AC Power input 220 – 240 V, 50/60Hz UPS compatibility: Required for 30+ min backup. Power consumption: <300 W
3.4	Software capabilities	Multi bed display Trend graphs (real time and historical; 72 h custom). Alarm visualization and logging Waveform review (ECG, SPO_2, RESP, ABP). Patient demographics and tagging. User roles: Admin, Clinician, technician.
3.5	Data management	Database: SQL-based scalable database. Backup: Automatic scheduled backup and support. Retention: 30 – 365 days configurable. Audit trail for data access and changes.
3.6	User Interface	GUI: Graphical display with color coding. Alarm priority differentiation (cat. I/II/III). Touch and key board/mouse support. Multi language support.
3.7	Connectivity & Integration Hospital systems Integration:	Bedside monitor integration. Ports: RS 232, Ethernet, Wi-fi. Automatic device detection. HL7 interfaces for EMR/EHR. ADT Integration. Lab data feed. RIS/PACS links (for integrated imaging)
3.8	Alarms and safety	Alarm types: Visual, audile, remote alert. Alarm priority levels. Custom thresholds. Alarm escalation & acknowledgement log Patient specific alarm profiles.

4	Quality standards Environmental & Regulatory	
4.1	Compliance	IEC 60601-1; ISO 13485 EMC/EMI standards
4.2	Safety:	UL/CE certification
4.3	Operating RH & temp per clinical standards	
8	Local back up service	
8.1	Available	Should be available locally
	Maintenance and support	Remote diagnostic support. Firmware/Software updates
8.2	Capacity to service equipment	Agent shall have adequate facilities, spare parts, consumables and qualified and skilled technical staff
9	Delivery point	
9.1	See Schedule	For inspection and testing
9.2	Nil	
10	Pre installation requirements Nil	
11	Installation and testing Complete installation and set-up of the machine as per manufacturer's instructions	
12	Training	
12.1	User Training	On site user training on operation and daily up keep
12.2	Maintenance training	On-site maintenance training on preventive maintenance
13	Technical documentations	
13.1	User manuals	2 Sets
13.2	Service Manual	1 Set
14	Commissioning	
14.1	Testing and commissioning of the machine to the satisfaction of the user.	
15	Warranty	
15.1	Equipment	Minimum of one year after commissioning on all parts.

Department	OPD	Room Name/No.	N/A
Item Description			**Cervical Traction kit**
1. General Description Short-term, intermittent cervical spine traction for relief of neck pain, muscle spasm, and radicular symptoms.			
2. Composition 2.1 Main unit			
3. Performance Specifications 3.1 Main unit 3.1.1 Components:			Adjustable traction head harness (soft neoprene, 3-

		point strap). Cervical collar with padded anterior and posterior shells. Tension-adjustable traction rope (nylon, 2 m) with calibrated spring-loaded tensioner (0–30 lb / 0–135 N). Portable stand/frame (aluminum, fold-flat, 2-section) with height adjustment 30–45 cm. Quick-release buckles, Velcro straps, and protective foam pads.
3.1.2	Dimensions (assembled):	55 cm × 45 cm × 30 cm (L × W × H)
3.1.3	Weight:	2.8 kg (kit only) – 3.5 kg with stand
3.1.4	Material:	Frame: 6061-T6 aluminum, anodized finish - Harness & collar: medical-grade neoprene, hypoallergenic, washable - Rope: UV-stable nylon, 4 mm diameter, certified to ISO 13935
3.1.5	Tension Control:	Graduated spring mechanism with lock-in positions every 2 lb (9 N); visual tension indicator on the rope.
3.1.6	Adjustability:	Harness neck circumference 30–48 cm (adjustable via Velcro). Collar height 10–15 cm, width 12–18 cm (fits most adult necks). Stand height 30–45 cm, footplate width 30 cm.
3.1.7	Safety Features:	Automatic release if tension exceeds 35 lb (155 N). Quick-release buckles for immediate removal Rounded edges and soft padding to prevent skin irritation.
3.1.8	Sterilization/Cleaning:	Harness and collar removable, machine-washable at ≤40 °C; frame wipe-down with 70 % isopropyl alcohol.
3.1.9	Operating Environment:	10 °C–35 °C, 30 %–75 % RH, non-condensing.
4	Quality standards	
4.1	Compliance	ISO 13485, CE-marked, FDA Class II medical device (when used with prescription).
	Conformity to standards	CE marked, FDA Class 1 medical device
5	Delivery point	
5.2		For inspection and testing

Department	OPD	Room Name/No.	N/A
Item Description			**Chest expander**
1. General Description			

Spring loaded, dual-handle resistance device.		
2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main unit	
3.1.1	Resistance range:	5 Kg – 50 Kg (adjustable in 5 Kg increments)
3.1.2	Handle material:	Hardened ABS with ergonomic rubber grip.
3.1.3	Spring:	High carbo steel, 2-piece tension spring, coated for corrosion resistance.
3.1.4	Overall length:	65 cm (extended) – 35 cm (collapsed).
3.1.5	Weight:	1.2 Kg (unloaded).
3.1.6	Maximum user load:	120 Kg (body weight).
3.1.7	Portability:	Fold-flat design, fits in standard gym bag.
3.1.8	Durability:	Rated for >100,000 cycles.
3.1.9	Safety:	Automatic lock-out when tension exceeds 55 Kg, rounded edges to prevent injury.
4	Quality standards	
4.1	Compliance	ISO 8124-4 (exercise equipment), IEC 60601-1 (medical electrical equipment,)
	Conformity to standards	CE marked, RoHS-compliant
5	Delivery point	
5.2	For inspection and testing	

Item Description			**Crawler height adjustable**
Department	OPD	Room Name/No.	N/A

1. General Description

The Skill builders Height-Adjustable Crawler aids in elementary crawling when body support is required. It encourages crawling without regard for specific patterns. The Crawler accommodates children from 3 to 9 years of age. The leatherette body support tilts forward or back for correct positioning and encourages vestibular responses.
Height adjusts from 11-1/2" to 15-1/4" and is 14"W

- Accommodates children from 3 to 9 years old
- Steel frame with non-marring casters
- Weight capacity of 75 lbs.

2. Composition		
2.1	Main unit	
3. Performance Specifications		
3.1	Main Unit	
4	Delivery point	
4.1	TBD	For inspection, testing and commissioning
4.2	Nil	

5	Warranty	
5.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**CRRT machine/CPFA**
Department	OPD	Room Name/No.	Emergency

1. General Description
Continuous Renal Replacement Therapy (CRRT) / Continuous Plasma Filtration-Adsorption (CPFA) System.
- Device Type
Integrated, portable CRRT platform with optional CPFA cartridge for plasma-based toxin removal.

2. Performance Specifications

2.1

- Blood Flow Range
0–300 mL/min (adjustable in 10 mL/min steps)

- Dialysate/ Replacement Flow
0–5 L/h (CVVH), 0–2 L/h (CVVHD), 0–1 L/h (CPFA)

- Ultrafiltration Rate
0–2 L/h, user-programmable

- Filtration Fraction
Up to 30 % (standard); up to 45 % with CPFA cartridge

- Modalities Supported
CVVH, CVVHD, CVVHDF, SCUF, CPFA (adsorptive plasma filtration)

- CPFA Cartridge
  - Adsorbent: Activated charcoal + ion-exchange resin
  - Plasma flow: 0–500 mL/min (auto-regulated)
  - Capacity: Up to 12 L of plasma per cartridge (average 6 L)

- Anticoagulation Options
  - Citrate (regional) – 0–5 mmol/L blood
  - Heparin – 0–5 IU/mL
  - No-anticoagulation (for short runs)

- Monitoring Parameters
  - Arterial/venous pressure, TMP, blood leak detector, air-bubble sensor, temperature (35–39 °C), ultra-filtrate volume, blood flow, anticoagulant delivery

- Alarm System
Visual LED + audible (≥ 65 dB), configurable thresholds, automatic therapy pause on critical events

- Power Supply
AC 100–240 V, 50/60 Hz, 300 W max; internal 30-min battery backup (optional 2-hour UPS)

		- Dimensions (W × H × D) 420 mm × 380 mm × 260 mm (approx.) - Weight 12 kg (dry, without fluids) - Fluid Warming Integrated heater, set 35–39 °C, ±0.5 °C accuracy - Connectivity Ethernet, Wi-Fi, USB, HL7 interface for EMR integration; optional remote monitoring via cloud portal - Operating Environment Temperature 10–30 °C, humidity 30–75 % (non-condensing) - Typical Applications Acute kidney injury, fluid overload, severe electrolyte imbalance, toxin removal (e.g., drug overdose, sepsis) with CPFA cartridge.
3	Quality standards	
3.1	- Compliance & Standards	IEC 60601-1, IEC 60601-2-16 (CRRT), ISO 13485, CE-marked, FDA Class II (USA)
3.2	Conformity to standards	CE marked or any other equal and recognized international document
4	Delivery point	
4.1	See Schedule	For inspection and testing
5	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
6	Training	
6.1	User Training	On site user training on operation and daily up keep
6.2	Maintenance training	On site maintenance training on preventive maintenance
7	Technical documentations	
7.1	User manuals	2 Sets
8	Commissioning	
8.1	Testing and commissioning of the devices to the satisfaction of the user.	
9	Warranty	
9.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Dumb bells (1-5 Kg), 1 pair each**
Department	OPD	Room Name/No.	
1. General Description Dumb bells (1-5 Kg), 1 pair each			

2. Performance Specifications		
2.1		- Material - Cast-iron core, powder-coated finish to resist rust and wear - Chrome-plated knurling for a secure, non-slip grip - Weight - 1 kg (±0.02 kg) - 5 kg (±0.05 kg) - Dimensions (each) - Length: ~20 cm (handle) - Diameter: ~4 cm (handle) - Overall height: ~12 cm (from base to top of knurl) - Grip - 5 cm circumference, textured knurling, suitable for most hand sizes - Load Rating - Designed for static loads up to 150 % of nominal weight (1 kg → 1.5 kg, 5 kg → 7.5 kg) without deformation - Coating - Durable matte powder coat; optional rubber sleeve available for extra grip and floor protection - Packaging - Each dumbbell individually boxed; pair sold together in a single carton (approx. 30 × 20 × 10 cm, 2 kg total) - Warranty - 2-year limited warranty against manufacturing defects
3	Quality standards	
3.1	Compliance	- Meets ISO 8124-4 (exercise equipment) and CE standards
3.2	Conformity to standards	CE marked or any other equal and recognized international document
4	Delivery point	
4.1	See Schedule	For inspection and testing
5	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
6	Training	
6.1	User Training	On site user training on operation and daily up keep
6.2	Maintenance training	On-site maintenance training on preventive maintenance
7	Technical documentations	
7.1	User manuals	2 Sets
8	Commissioning	
8.1	Testing and commissioning of the devices to the satisfaction of the user.	
9	Warranty	
9.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Electric Muscle Stimulator**
Department	OPD	Room Name/No.	

1. General Description

Also known as electrical muscle stimulation (EMS) device, use electrical impulses to stimulate mus cle contractions

2. Composition

2.1 Electric Muscle Stimulator — 1 No.

3. Performance Specifications

3.1

- Power source: Rechargeable Li-ion battery (3.7 V, 1200 mAh) – up to 8 h continuous use; USB-C charging (5 V, 2 A)
- Output channels: 2 independent channels (dual-pad)
- Waveform: Symmetrical biphasic, adjustable pulse width 50–400 µs
- Frequency: 1–120 Hz, selectable in 1 Hz steps
- Intensity: 0–100 mA (peak), 0.5 mA resolution; automatic shut-off if impedance > 5 kΩ
- Modes:
  - TENS (pain relief)
  - EMS (muscle contraction) – 4 preset programs (strength, endurance, recovery, massage) plus custom settings
- Timer: 5–60 min, 5-min increments; auto-pause after 30 min (safety)
- Safety:
  - Automatic over-current/over-voltage protection
  - Low-battery warning
  - Detachable, medical-grade electrodes (5 × 5 cm, hypo-allergenic) with snap connectors
- Dimensions (device): 95 mm × 55 mm × 20 mm
- Weight: 85 g (including battery)
- Operating environment: 10 °C–40 °C, 30 %–75 % RH (non-condensing)

4	Quality standards	
4.1	Manufacturing standards	- Compliance: IEC 60601-1 (medical electrical), CE-marked, FCC Class B, RoHS
4.2	Conformity to standards	CE marked or any other equal and recognized international document
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive

		maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.
10.2	Equipment System	Nil

Item Description			**Electric Saw**
Department	OPD	Room Name/No.	

1. General Description

Specialized medical device used in orthopedic surgeries to perform procedures related to bone s urgery. These instruments are designed to cut, shape, and prepare bone for various orthopedic in terventions.

2. Composition

2.1 1 No.

3. Performance Specifications

3.1

- Power supply: 120 V / 230 V AC, 50-60 Hz, 1 kW max, IEC-60601-1 compliant
- Motor type: Brushless DC, 12 000 rpm nominal, electronically speed-controlled 5 000–12 000 rpm
- Blade: Sterilizable stainless-steel or titanium, 90 mm × 0.5 mm, 24-tooth, autoclavable; quick-release chuck
- Cutting depth: 0–30 mm adjustable via calibrated depth stop
- Weight: 2.8 kg (hand piece only); 4.5 kg with standard battery pack
- Battery: Rechargeable Li-ion 14.8 V, 4 Ah; 30 min continuous cutting, 2 h charge; removable, sterilizable
- Safety features:
  - Dual-circuit motor shut-off if blade stalls >0.2 s
  - Integrated blade guard with automatic lock-out when not in use
  - Electromagnetic interference (EMI) shielding per IEC 60601-1-2
  - Low-voltage alarm and automatic power-down on battery depletion
- Controls: Sterile, sealed push-button on hand piece; foot-pedal optional
- Dimensions (hand piece): 210 mm × 70 mm × 45 mm
- Operating environment: 10 °C–35 °C, 30 %–75 % RH, non-condensing
- Compliance: IEC 60601-1, IEC 60601-2-2 (surgical equipment), ISO 13485, CE-marked, FDA Class II (when marketed in US)
- Accessories included: Sterile blade set (5 pcs), battery charger, carrying case, user manual

4	Quality standards	
4.1	Manufacturing standards	ISO 10651-5:2006, ISO 10993-1:2018 or any other equal and recognized internationally standards

4.2	Conformity to standards	CE marked or any other equal and recognized international document
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and setup of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.
10.2	Equipment System	Nil

Item Description	**Dental chair unit**	
	1. General Description • A fully integrated dental treatment unit consisting of; ✓ an electrically operated dental chair, ✓ dentist and assistant delivery systems, ✓ operating light, ✓ water and suction systems, and ✓ an oil-free dental air compressor. ✓ Designed for routine clinical dentistry procedures.	
	2. **Dental Chair** 2.1 **Construction & Design** • Motor-driven chair with smooth, quiet operation. • Stable, heavy-duty frame. • Seamless, easy-to-clean upholstery. • Rotatable/adjustable armrest(s) for patient entry/exit. • Ergonomic design suitable for adult and pediatric patients	
	2.2 **Chair Movement** • Vertical height adjustment range: Approx. 380–800 mm.	

	• Backrest recline: 0° to at least 70°. • Trendelenburg/near-flat position capability. • Headrest adjustable (double-articulating)	
	2.3 **Load Capacity** • Minimum patient load capacity: ≥ 135–200 kg	
	2.4 **Control System** • Foot control for chair movements and instrument activation. • Assistant and operator panel controls. • Pre-set chair positions (e.g., entry, working, rinse, emergency stop)	
	3. **Dentist Delivery Unit (Operator's Side)** 3.1 **Instrumentation** • Minimum 3 to 5 instrument holders, including: ✓ High-speed air turbine hand piece line. ✓ Low-speed hand piece air motor line. ✓ 3-way air/water syringe ✓ With Built-in ultrasonic scaler. ✓ With Built-in LED light curing unit	
	4. **Assistant's Delivery System** • Saliva ejector suction • High-vacuum suction (HV suction) • 3-way syringe • Flush and cleaning controls • Adjustable assistant arm	
	5. **Operating Light** • LED light • Intensity ≥ 8,000 – 30,000 lux, adjustable • Shadow less illumination • Multi-position adjustable arm	
	6. **Water and Hygiene System** • Rotatable ceramic or glass spittoon • Cup filler and bowl rinse • Anti-retraction valves on hand piece lines • Clean water bottle system or direct water connection	

	• Autoclavable instrument holders and detachable components • Tubing compatible with disinfection agents	
	7. **Suction System** • Integrated suction with collection bottle or direct drainage • Dual suction: ✓ Low-volume saliva ejector ✓ High-vacuum suction (≥ 300 L/min recommended) ✓ Easy-clean filters and waste separators ✓ amalgam separator compliance	
	8. **Air Compressor (Included)** • Oil-free, dental-grade compressor • Tank capacity: 30–60 L (single chair) • Air delivery capacity: 50–100 L/min • Working pressure: 5–8 bar (70–115 PSI) • Noise level: ≤ 60–70 dB • Moisture/particle filters included • Automatic pressure control and safety valve • Single-unit compatible or small clinic use	
	9. **Power Supply Requirements** • Input voltage: 220–240 V AC, 50/60 Hz • Power consumption: ≤ 1,000–2,000 W (full system) • Surge protection provided	
	10. **Safety and Quality Standards** • ISO certification for dental equipment (e.g., ISO 7494-1) • CE or equivalent regulatory compliance • Electrical safety: IEC 60601-1 compliance • Water line anti-retraction safety features	
	11. **Standard Accessories** • Dentist's stool (ergonomic) • Dental Assistant's stool • Instrument tray	

	• Foot control • Tubing set • Dental amalgamator	
	11. Installation, commissioning & Training • Installation, testing & commissioning to the satisfaction of the users. • For Biomedical engineering personnel and the users on maintenance and operation	
	12. Documentation • Operation manuals and installation guides. • Service manuals and both in English.	
	13. Warranty Manufacturer's warranty: Minimum 1 year after commissioning.	

Item description	**Dental scaler unit**	
	1. General description A dental scaler is a crucial tool in oral care, used to remove plaque, tartar, and stains from teeth. •	
	2. Performance specifications • The scaler should be based on piezo technology. • Have a clear digital display of all operating parameters. • Have easily accessible and adjustable controls. • Have two interchangeable reservoir bottles with independent pumps. • Automatically adjusts the frequency based on the loading at the tip. • Have ergonomic and autoclavable hand piece. • Have memory function for user settings. • Have 360°-foot control with cord length 4 metres or longer. •	
	3. Accessories • Autoclavable tips for scaling- 6 No. (including 3	

	flat tips) and root planning- 2 No. (curved). • Reservoir bottles – 3 No. • Sterilization case – 2 No. • Tip wrench with torque limiter – 2 No. • Sturdy portable stand with granite top for mounting the unit and racks for storing the accessories. • Portable distilled water unit with capacity of at least 4 litres per day. Main and collection bottle should be made of durable plastic and easily changeable filter and residue cleaner. • Voltage stabilizer suitable for the unit. • Accessories should be available for at least 10 years.	
	4. Training For Biomedical engineering personnel and the users on maintenance and operation	
	5. Installation, testing and commissioning Installation, testing and commissioning to the satisfaction of the users.	
	6. Documentation • Operation manuals and installation guides. • Service manuals and both in English.	
	7. Quality Standards and compliance Should be CE/US-FDA /ISO compliant or certified as applicable.	
	8. Warranty Manufacturer's warranty: Minimum 1 year after commissioning.	

Item Description			**X-ray Viewer, LED**
Department		Room Name/No.	
1. General Description			

X-ray Viewer, LED is used in viewing radiographs, CT slices, and digital pathology images in clinics, labs, and emergency departments where consistent, high-intensity illumination is critical.		
2. Composition 2.1 X-ray Viewer, LED 1 No.		
3. Performance Specifications 3.1		- Display Type: High-brightness LED backlight, uniform illumination across the viewing area. - Screen Size: at least 14-inch diagonal. - Resolution: 1920 × 1080 px (Full HD) – true pixel pitch 0.18 mm - Brightness: 8,000 cd/m² (adjustable in 10 % steps) – suitable for ambient light up to 500 lux - Contrast Ratio: 1,200: 1 - Color Temperature: 6,500 K (daylight) - Viewing Angle: 160° horizontal / 140° vertical (≥ 80 % brightness retention) - Power Supply: 220-240 V AC, 50/60 Hz, 45 W max;/ 12 V DC input for mobile use - Controls: On-screen menu with brightness, contrast, DICOM-GSDF calibration, auto-dim timer, and USB-type-C firmware update port - Connectivity: USB-C (video), HDMI 2.0, Wi-Fi (for DICOM send/receive), Ethernet (optional) - DICOM Compliance: DICOM-GSDF calibrated, supports DICOM-C-STORE, C-FIND, and C-MOVE - Mounting: VESA 75 mm × 75 mm wall/ceiling mount; detachable stand with tilt (±15°) and swivel (±45°) - Dimensions (14″): 350 mm × 250 mm × 25 mm (W × H × D) - Weight: 3.2 kg (14″) – 5.5 kg (21″) - Operating Environment: 10 °C – 35 °C, 30 % – 75 % RH, non-condensing
4	Quality standards	
4.1	Manufacturing standards	Regulatory: CE-marked (Medical Device Class I), FCC Class B, RoHS, IEC 60601-1 (medical electrical safety)
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.
10.2	Equipment System	Nil

Item Description			**Ventilator, adult/Pediatric**
Department		Room Name/No.	

1. General Description

A versatile, ICU-grade ventilator that delivers controlled or assisted mechanical ventilation for adult and pediatric patients. It combines robust pressure- and volume-based modes with advanced monitoring, making it suitable for critical care, emergency transport, and post-operative support.

2. Composition

2.1. Ventilator, adult/pediatric 1 No.

3. Performance Specifications

3.1

- Patient Range
  - Adult: ≥ 30 kg body weight
  - Pediatric: 5 kg – 30 kg

- Ventilation Modes
  - Volume-controlled (VC-CMV, VC-SIMV)
  - Pressure-controlled (PC-CMV, PC-SIMV)
  - Pressure-support (PS)
  - Continuous Positive Airway Pressure (CPAP) / Bi-level
  - Non-invasive ventilation (NIV) with mask interface
  - High-frequency oscillatory ventilation (HFOV) – optional

- Tidal Volume
  - Adult: 200 – 2000 mL
  - Pediatric: 20 – 500 mL (adjustable in 1 mL steps)

- Respiratory Rate
  - Adult: 5 – 80 bpm
  - Pediatric: 10 – 150 bpm

- Pressure Settings
  - Peak inspiratory pressure (PIP): up to 80 cm H_2O
  - Positive end-expiratory pressure (PEEP): 0 – 30 cm H_2O
  - Pressure support: 0 – 30 cm H_2O

- Flow & Waveform
  - Flow range: 0 – 180 L/min (adult), 0 – 60 L/min (pediatric)
  - Waveforms: square, decelerating, sinusoidal

- Oxygen Concentration
  - FiO_2: 21 % – 100 % (adjustable in 1 % increments).

- Monitoring Parameters'
  - Real-time pressure, flow, volume curves
  - Respiratory mechanics: compliance, resistance, work of breathing.
  - End-tidal CO_2 (mainstream or side stream)
  - SpO_2 (via external pulse oximeter).
  - Alarms: high/low pressure, apnea, high/low minute volume,

		power failure, circuit disconnect - Power Supply; - AC: 220 – 240 V, 50/60 Hz - Internal battery: ≥ 30 min at full settings - Dimensions (W × D × H) - Main unit: About 300 mm × 350 mm × 150 mm - With transport cart: About 600 mm × 500 mm × 900 mm - Weight - Base unit: ≈ 7 kg - With cart and battery: ≈ 15 kg - Connectivity - USB, Ethernet, Wi-Fi (for EMR integration) - RS-232/RS-485 for bedside monitor interfacing - Data export in CSV/Excel format - Disposables & Accessories - Single-use ventilator circuits (adult & paediatric) - Heat-moisture exchangers (HMEs) or active humidifiers - Mask interfaces (nasal, mask, tracheostomy) - Transport trolley with secure mounting.
4	Quality standards	
4.1	Manufacturing standards	- Safety & Compliance - IEC 60601-1 (medical electrical safety) - ISO 13485, CE-marked, FDA-cleared (Class II) - EN 1789 (medical transport equipment) - compliance with ISO 10079-1 (ventilator standards).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Micromotor with contra angle and straight hand pieces**
Departmen	Dental	Room Name/No.	Emergency

t			

1. General Description

A dental micro motor hand piece is a compact, high-precision instrument that powers various dental tools and attachments. It consists of a small yet powerful motor that rotates a chuck or collet, allowing dentists to perform intricate procedures with **exceptional control and accuracy**. These hand pieces are essential in modern dentistry, enabling professionals to carry out tasks ranging from cavity preparations to root canal treatments and beyond.

2. Composition

2.1	Micromotor with contra angle and straight hand pieces	1 No.

3. Performance Specifications

3.1

- Power Source
  - Rechargeable Li-ion battery, 14.8 V, 2.5 Ah (up to 120 min continuous use)
  - AC adapter 100-240 V, 50/60 Hz, 90 W

- Motor Type
  - Brushless DC, 30 W nominal, 45 W peak
  - Speed range: 0-40 000 rpm (adjustable in 1 000 rpm steps)

- Torque
  - Straight: 0.5 Nm max
  - Contra-angle: 0.3 Nm max (at 20 000 rpm)

- Hand piece:
  - Straight – 120 mm length, 15 mm diameter, autoclavable stainless-steel body, integrated LED illumination (optional)
  - Contra-Angle – 90° head, 12 mm head diameter, 130 mm overall length, autoclavable, quick-change chuck for burs/collets

- Chuck/Collet
  - 2.35 mm (standard) and 3.0 mm collet adapters included
  - Quick-release lever for tool changes < 2 s

- Control Interface
  - Touch-panel on motor housing, foot-pedal (optional)
  - Bluetooth LE for remote monitoring and software updates

- Safety Features
  - Over-temperature, over-current, and stall protection
  - Automatic shut-off after 5 min idle
  - Sterilization-grade materials (ISO 10993, ISO 17665)

- Dimensions & Weight
  - Motor unit: 150 mm × 70 mm × 45 mm, 250 g
  - Straight hand piece: 120 mm × 15 mm, 80 g
  - Contra-angle hand piece: 130 mm × 12 mm head, 95 g

- Operating Environment
  - 10 °C – 35 °C, 30 % – 75 % RH, non-condensing

		- Compliance - IEC 60601-1 (medical electrical), ISO 13485, CE-marked, FDA Class II (when marketed for dental/surgical use)
4	Quality standards	
4.1	Manufacturing standards	ISO 10651-5:2006, ISO 10993-1:2018 or any other equal and recognized internationally standards
4.2	Conformity to standards	CE marked or any other equal and recognized international document
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.
10.2	Equipment System	Nil

Item Description			**Digital intraoral periapical (IOPA) X-ray**
Department	Dental	Room Name/No.	

1. General Description
Wall-mounted or mobile digital intraoral X-ray unit for dental diagnostic imaging
Suitable for periapical, bitewing, and endodontic imaging.
Designed for adult and pediatric dental patients
Comply with international radiation safety standards.

2. Composition:
2.1 Digital intraoral periapical (IOPA) X-ray 1 No.

3. Performance Specifications

3.1

X-ray Generator & Tube

X-ray tube: High-frequency DC type

- Tube voltage (kVp): 60 – 70 kVp (selectable)
- Tube current (mA): 4 – 8 mA
- Focal spot size: ≤ 0.7 mm
- Exposure time range: 0.01 – 3.0 seconds
- Inherent filtration: ≥ 1.5 mm Al
- Total filtration: ≥ 2.0 mm Al equivalent

3. **Collimation & Beam Limitation**

- Rectangular or round collimator
- Beam limitation:

- Round: ≤ 60 mm diameter at 20 cm
- Rectangular (if applicable): ≤ 35 × 45 mm
- Position Indicating Device (PID): Open-ended, lead-lined
- PID length: 20 – 30 cm

4. **Digital Imaging System**
   - Digital Sensor (CMOS/CCD)
   - Sensor sizes: Size 1 and/or Size 2
   - Resolution: ≥ 20 lp/mm
   - Pixel size: ≤ 20 µm
   - Active area suitable for periapical imaging
   - USB interface for PC connectivity

5. **Image Processing & Software**
   - Dental imaging software included
   - Image enhancement tools:
   - Contrast and brightness adjustment
   - Zoom and pan
   - Measurement tools (length, angle)
   - Annotations and labeling
   - DICOM 3.0 compliant
   - Image storage and export in common formats (JPEG, TIFF, DICOM)

6. **Control Panel & Exposure Settings**
   - Digital control panel with LCD/LED display
   - Pre-programmed exposure settings for:
   - Adult / Pediatric
   - Tooth regions (incisor, premolar, molar)
   - Manual exposure mode available
   - Audible and visual exposure indicators

7. **Radiation Safety**
   - Leakage radiation: ≤ 1 mGy/hour at 1 m
   - Exposure switch with dead-man type operation
   - Minimum operator cable length: ≥ 2.5 m
   - Compliance with IEC, ISO, and IAEA standards

8. **Mechanical & Mounting**
   - Mounting options: Wall-mounted or mobile stand
   - Arm reach: ≥ 1.5 m
   - Smooth, stable arm movement with position locking
   - Tube head rotation: ± 180° horizontal, ± 270° vertical.

9. **Electrical Requirements**
   - Power supply: 220 – 240 V AC, 50/60 Hz
   - Power consumption: ≤ 1.5 kVA
   - Surge and overload protection.

10. **Environmental Conditions**
    - Operating temperature: 10 – 40°C
    - Relative humidity: 30 – 75% (non-condensing).

11. **Accessories (Standard Supply)**
    - Digital sensor(s) or PSP plates

		• Sensor holders / positioning devices • X-ray exposure switch • Mounting hardware • User manual and service documentation.
4	Quality standards	
4.1	Manufacturing standards	Standards & Regulatory Compliance IEC 60601-1 (Medical Electrical Equipment Safety) IEC 60601-1-3 (Radiation Protection) ISO 13485 (Quality Management)
4.2	Conformity to standards	CE marked or any other equal and recognized international document
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Intraoral Camera**
Department	Dental	Room Name/No.	
1. General Description An intraoral camera is a small, handheld device used in dentistry to capture detailed images of the inside of a patient's mouth, enhancing diagnosis and patient communication.			
2. Composition 2.1 Intraoral Camera 1 No.			
3. Performance Specifications 3.1			- Sensor: 1/3-inch CMOS, 2 MP (1920 × 1080 px) - Resolution: 1080p full-HD video, still image up to 12 MP (interpolated) - Field of View: 100° diagonal, 70° vertical, 90° horizontal - Depth of Field: 5 mm – ∞ (fixed focus) - Illumination: 6 LEDs (white, 5 000 K) with automatic intensity control - Connectivity: USB-C (plug-and-play), wireless option (Bluetooth 5.0 / Wi-Fi) - Power: Powered via USB; or rechargeable 500 mAh Li-ion battery (up to 2 h continuous use)

		- Cable Length: 1.8 m flexible, sterilizable sheath - Sterilization: Sheath-compatible (single-use or autoclavable) – camera body is splash-resistant (IPX4) - Dimensions (camera head): 18 mm × 12 mm × 115 mm - Weight: 45 g (including cable) - Operating Temperature: 10 °C – 40 °C - Software Compatibility: Windows 10/11, macOS 10.15+, iOS/Android via dedicated app; supports DICOM, JPEG, MPEG-4 export
4	Quality standards	
4.1	Manufacturing standards	Regulatory: CE-marked (Medical Device Class I), FDA-cleared, ISO 13485 compliant
4.2	Conformity to standards	CE marked or any other equal and recognized international document
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Light Cure Unit**
Department	Dental	Room Name/No.	
1. General Description A dental curing light is a piece of dental equipment that is used for polymerization of light-cure resin-based composites.			
2. Composition 2.1 Light Curing Unit 1 No.			
3. Performance Specifications 3.1		- Power source: 220 V / 230 V AC, 50-60 Hz, 30 W max; / rechargeable Li-ion battery (14.4 V, 2 Ah) for cordless operation - Wavelength: 430–480 nm (peak 455 nm) – optimal for most dental resin composites - Light output: 1,200 mW/cm² (standard mode), 1,800 mW/cm² (high-intensity mode) measured at 0 mm tip - Exposure timer: 5 s, 10 s, 15 s, 20 s, 30 s, continuous; auto-shutoff after 30 s in continuous mode	

		- Spot size: 7 mm diameter (standard tip); interchangeable tips for 5 mm, 10 mm, and macro applications - Cooling: Passive heat-sink with fan-assisted airflow; temperature sensor triggers automatic power reduction if > 45 °C at tip - Dimensions (hand piece): 210 mm × 25 mm × 30 mm - Weight: 180 g (hand piece only) – 350 g with battery pack - Battery life: ~ 200 cures per charge (10 s each) at standard intensity - Connectivity: USB-C for firmware updates; optional Bluetooth for remote timer control via mobile app - Sterilization: Hand piece is autoclavable (121 °C, 15 psi, 20 min); tips are single-use or autoclavable - Operating environment: 10 °C – 35 °C, 30 %–75 % RH, non-condensing
4	Quality standards	
4.1	Manufacturing standards	Compliance: IEC 60601-1, IEC 60601-2-57 (dental equipment), ISO 13485, CE-marked, FDA Class II (US)
4.2	Conformity to standards	CE marked or any other equal and recognized international document
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.
10.2	Equipment System	Nil

Item Description			**Apex Locator**
Department	Dental	Room Name/No.	
1. General Description A Apex Locator is a piece of dental equipment that is used in determining the working length during root canal therapy. Confirming apical constriction, and assisting in complex canal negotiation.			
2. Composition 2.1 Apex Locator 1 No.			
3. Performance Specifications 3.1			- Digital electronic apex locator (portable) - Multi-frequency impedance measurement (5 kHz –

		500 kHz) with automatic frequency selection - Display: High-contrast LCD, 2-line alphanumeric, backlit; shows distance in 0.1 mm increments - Measurement Range: 0.0 mm – 15.0 mm from file tip - Accuracy: ±0.1 mm (within 0–5 mm), ±0.2 mm (5–10 mm) - Power: Rechargeable Li-ion battery (3.7 V, 1200 mAh); up to 8 h continuous use; USB-C charging (5 V, 1 A) - Auto-Calibration: Self-test on start-up; automatic zero-adjustment with reference electrode - Electrode Types: - File clip (stainless steel) - Lip clip (metal) - Disposable silicone-coated probes (optional) - Compatibility: Works with all standard endodontic files (size 06 – 40) and rotary NiTi instruments - Safety: - Automatic shut-off after 5 min idle - Low-battery warning - Electrical isolation (IEC 60601-1) - Dimensions (unit): 120 mm × 70 mm × 25 mm - Weight: 180 g (including battery) - Operating Environment: 10 °C – 35 °C, 30 %–75 % RH, non-condensing.
4	Quality standards	
4.1	Manufacturing standards	Regulatory: CE-marked (Class IIa), FDA-cleared, ISO 13485 compliant
4.2	Conformity to standards	CE marked or any other equal and recognized international document
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.
10.2	Equipment System	Nil

Item Description			**Electrocautery unit/laser**
Department	Theatre	Room Name/No.	

1. General Description An electrocautery unit is used in general surgery, dermatology, ENT, and minimally invasive procedures requiring precise cutting, coagulation, or laser ablation.			
2. Composition 2.1. Electrocautery unit/laser 1 No.			
3. Performance Specifications 3.1		- Power Supply - AC 220 V / 230 V, 50-60 Hz, 500 W max - Rechargeable Li-ion battery (14.8 V, 4 Ah) for cordless operation - Cautery Modes - Cut: 0–300 W, 0.5–5 MHz RF - Coagulation: 0–120 W, 0.5–5 MHz RF - Blend: adjustable mix of cut/coagulation - Laser - Wavelength: 1064 nm (Nd:YAG) or 980 nm (diode) - Power output: 0–30 W (continuous) / 0–100 W (pulsed) - Pulse width: 0.1–10 ms, repetition 1–100 Hz - Control Interface - Touch-screen panel with preset programs (cut, coagulation, blend, laser) - Foot-pedal (dual-action) for hands-free control - USB/LAN for software updates and data export - Safety Features - Automatic shut-off on over-temperature, over-current, or short circuit - RF leakage < 10 µA, isolated patient circuit (IEC 60601-1) - Laser safety interlock, class 4 laser with protective eyewear - Dimensions & Weight - Main unit: 300 mm × 250 mm × 150 mm, 7 kg - Hand piece (cautery): 180 mm × 30 mm, 120 g - Laser fiber/hand piece: 2 m length, 150 g - Operating Environment - Temperature 10 °C–35 °C, humidity 30 %–75 % (non-condensing) - Accessories Included - Sterile cautery tips (various sizes) - Laser fiber with protective sleeve - Foot-pedal, power cord.	
4 Quality standards			

4.1	Manufacturing standards	Regulatory: - IEC 60601-1, IEC 60601-2-2 (RF), IEC 60825-1 (laser),
4.2	Conformity to standards	CE marked or any other equal and recognized international document
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Endodontic Motor**
Department	Theatre	Room Name/No.	

1. General Description

An endodontic motor is used in root canal preparation, rotary file placement, and controlled delivery in endodontic procedures.

2. Composition

2.1. Endodontic motor 1 No.

3. Performance Specifications

3.1

- Power source: 220 V/230 V AC, 50-60 Hz, 30 W;/rechargeable Li-ion battery (14.8 V, 2 Ah) for cordless use
- Motor type: Brushless DC, 0–40 000 rpm (adjustable in 1,000 rpm steps)
- Torque range: 0.1–5 N·cm (user-selectable, 0.1 N·cm increments)
- Torque accuracy: ±0.05 N·cm
- Modes:
  - Auto-reverse (preset torque limit, automatic reversal)
  - Continuous rotation (forward/reverse)
  - Reciprocating (180°/360° cycles)
- Display: 2.8-inch color LCD, backlit, shows rpm, torque, time, and program name
- Memory: Up to 10 user-defined programs (rpm, torque, time)
- Foot-pedal: Dual-action, variable speed control, optional wireless version
- Hand piece compatibility: Standard 2.35 mm (ISO) collet; accepts all rotary NiTi files (size 06-40) and hand files
- Cooling: Integrated irrigation pump (0–30 ml/min,

		adjustable) with sterile tubing set - Safety features: - Auto-stop on torque exceedance - Over-temperature protection - Low-battery warning - Sterile, autoclavable hand piece (121 °C, 15 psi, 20 min) - Dimensions (motor unit): 150 mm × 80 mm × 45 mm - Weight: 250 g (without battery) - Operating environment: 10 °C–35 °C, 30 %–75 % RH, non-condensing
4	Quality standards	
4.1	Manufacturing standards	- Regulatory: IEC 60601-1, ISO 13485, FDA Class II
4.2	Conformity to standards	CE marked or any other equal and recognized international document
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Embalming machine**
Department	Mortuary	Room Name/No.	
1. General Description An embalming machine is used in arterial and cavity embalming in funeral homes, medical schools, and forensic labs, providing consistent flow, temperature control, and safety monitoring.			
2. Composition 2.1. Embalming machine 1 No.			
3. Performance Specifications 3.1			-Model type: Tabletop, electrically-driven, fluid-injection system - Power supply: 220-240 V AC, 50 Hz, 1.2 kW (single-phase) - Pump: Positive-displacement, stainless-steel piston pump, flow-rate 0–6 L/min, pressure adjustable 0–2 bar (30 psi) - Control: Digital touch-panel with preset programs (arterial, cavity, surface), manual override, timer 0–99 min - Fluid capacity: Integrated 30 L stainless-steel reservoir with

		level sensor and low-fluid alarm - Temperature control: Built-in heater, 20 °C–45 °C, ±1 °C accuracy, thermostatic shut-off - Vacuum system: 0.5 HP rotary vane pump, vacuum up to –0.9 bar, automatic release valve - Sterilization: Autoclavable injection lines (PVC-reinforced), removable stainless-steel hand piece (121 °C, 15 psi, 20 min) - Safety features: Over-pressure relief valve, emergency stop button, leak detection alarm, electrical isolation (IEC 60335-1) - Dimensions (W × D × H): 650 mm × 500 mm × 1,200 mm - Weight: 85 kg (dry) - Accessories included: 2 × arterial cannulas (12 Fr, 16 Fr), cavity trocar set, drainage hose, cleaning kit, user manual
4	Quality standards	
4.1	Manufacturing standards	Compliance: CE-marked, ISO 9001, ISO 13485 (medical device), meets local health-regulations for mortuary equipment
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Exercise mats**
Department	Physiotherapy	Room Name/No.	Gym
1. General Description Exercise mats are used in therapeutic exercises, gait training, balance work, and functional rehab.			
2. Composition 2.1. Exercise 1 No.			
3. Performance Specifications 3.1			- Material: High-density closed-cell EVA foam with antimicrobial additive; surface laminated with a low-shear, moisture-wicking fabric. - Thickness: 10 mm – provides firm support while absorbing impact; optional 12 mm for high-load rehab. - Density: 0.30 g/cm³ (firm) – resists compression and

		maintains shape through repeated use. - Dimensions: 180 cm × 60 cm (standard); 200 cm × 100 cm (large) for full-body work. - Weight: 1.4 kg (180 × 60 × 10 mm); 2.8 kg (200 × 100 × 10 mm). - Surface Grip: Textured, non-slip top; rubberized underside (≥ 0.5 mm) adheres to floor without adhesives. - Water-resistant; wipe-down with mild disinfectant; removable fabric cover (machine-washable). - Fire Rating: ASTM E84-20 Class A; low smoke emission. - Temperature Range: –10 °C to +50 °C (remains flexible). - Load Capacity: Static up to 200 kg; dynamic impact up to 300 kg (tested per ISO 8124-4). - Packaging: Roll-packed in recyclable cardboard with a carrying strap. - Warranty: 2-year limited warranty against material defects.
4	Quality standards	
4.1	Manufacturing standards	- Compliance: ISO 9001, ISO 13485 (medical device), REACH-compliant, free of phthalates and heavy metals.
5	Warranty	
5.1	Minimum of one year after commissioning.	

Item Description			**Exercise Mirror**
Department	Physiotherapy	Room Name/No.	
1. General Description An exercise mirror is a fitness device that allows users to access live or recorded workout classes and track their progress.			
2. Composition 2.1. Exercise mirror 1 No.			
3. Performance Specifications 3.1		- Display - 55-inch LED panel, 4K UHD (3840 × 2160 px) - 400 cd/m² brightness, 1200: 1 contrast ratio - Anti-glare, tempered glass front - Interactive Features - Touch-sensitive frame (10-point capacitive) - Integrated 5 MP front-facing camera with AI pose tracking - Built-in 8 W stereo speakers, ambient noise cancellation - Connectivity	

		- Wi-Fi 6 (802.11ax), Bluetooth 5.2 - HDMI 2.1, USB-C (video + power), Ethernet port - Supports Air Play 2, Chromecast, and DLNA streaming - Software - Android 12-based OS with dedicated fitness platform - Pre-loaded classes (yoga, cardio, strength) and customizable programs - Real-time form correction via AI, downloadable updates - Physical - Dimensions: 124 cm × 71 cm × 5 cm (W × H × D) - Weight: 28 kg (mountable) - VESA 400 mm × 400 mm wall-mount compatible, / with freestanding frame - Power - 220-240 V AC, 50-60 Hz, 150 W max - Auto-sleep after 15 min idle - Accessories (included) - Adjustable wall-mount kit, power cable, HDMI adapter, cleaning cloth
4	Quality standards	
4.1	Manufacturing standards	- Safety & Compliance - UL/CSA certified, CE-marked, RoHS compliant - IP20 rating (dust-protected)
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description	**Feeding Pump**

Department	Maternity	Room Name/No.	Newborn Unit

1. General Description

A feeding pump is designed for hospital, home-care, and ambulatory settings to deliver enteral nutrition accurately and safely

2. Composition

2.1. Feeding Pump 1 No.

3. Performance Specifications

3.1

- Portable enteral feeding pump (clinical grade)
- Power Source: 220 V-230 V AC, 50-60 Hz; rechargeable Li-ion battery (7.4 V, 2500 mAh) for up to 8 h continuous use
- Flow Rate: 1–300 mL/h (adjustable in 1 mL increments)
- Rate Accuracy: ±5 % of set rate (≥ 10 mL/h)
- Pump Type: Peristaltic (dual-channel) with occlusion detection
- Maximum Pressure: 300 mm Hg (adjustable alarm threshold)
- Bolus Mode: Manual bolus up to 200 mL; programmable bolus (0.1–5 mL per pulse)
- Display: 3.5-inch color LCD, backlit, shows rate, volume delivered, battery status, alarm icons
- Alarms: Occlusion, low battery, empty reservoir, end of infusion, door open, system error
- Safety Features: Auto-stop on alarm, lock-out keypad, audible/visual alerts (≥ 65 dB), ISO-60601-1 compliant
- Reservoir Compatibility: 500 mL and 1000 mL enteral feeding bags (standard spike set)
- Connectivity: USB-C for firmware updates; Bluetooth/Wi-Fi for EMR integration and remote monitoring
- Dimensions (unit): 150 mm × 95 mm × 45 mm (W × H × D)
- Weight: 350 g (without battery)
- Operating Environment: 10 °C–35 °C, 30 %–75 % RH, non-condensing
- Accessories Included: Power cord, battery pack, carrying strap, user manual, disposable tubing set (2 m)

4	Quality standards	
4.1	Manufacturing standards	- Regulatory: CE-marked (Class IIa), FDA-cleared, ISO 13485, IEC 60601-1, IEC 60601-2-24
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	2 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Quadriceps Exerciser**
Department	Physiotherapy	Room Name/No.	

1. General Description

A quadriceps exerciser is a compact, resistance-based device that isolates and strengthens the quadriceps muscle group. It's used in rehab, sports training, and general fitness to improve knee extension strength, stability, and functional movement. The unit can be floor-mounted, wall-mounted, or used with a bench, and it typically offers adjustable resistance to suit a wide range of users.

2. Composition

2.1. Quadriceps Exerciser 1 No.

3. Performance Specifications

3.1	- Resistance Mechanism: Hydraulic piston or adjustable spring stack; 5–30 kg (in 5 kg increments) or continuous hydraulic resistance up to 50 kg. - Adjustable Range: Knee flexion angle 0°–120°; seat height 45–55 cm; footplate length 30–45 cm. - Frame Material: Powder-coated steel (18 ga) with anti-slip base. - Dimensions (L × W × H): 80 cm × 45 cm × 95 cm (standard floor model). - Weight (unit): 12 kg (steel). - Maximum User Weight: 150 kg. - Portability: Fold-away footplate and detachable legs for easy transport; carrying handle. - Safety Features: Lock-pin to secure footplate, padded ankle strap, non-slip rubber feet.

4	Quality standards	
4.1	Manufacturing standards	- Compliance: ISO 13485 (medical device), CE-marked, RoHS-compliant.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Hand exerciser**
Department	Physiotherapy	Room Name/No.	Gym

1. General Description

Hand exerciser are designed for use by people needing controlled hand-and-forearm strengthening..

2. Composition

2.1. Hand Exerciser 1 No.

3. Performance Specifications

3.1

- Type: Mechanical resistance device (spring-loaded)
- Resistance Levels: 5-30 kg (adjustable in 5 kg increments)
- Grip Diameter: 9 cm – interchangeable pads available (8 cm, 10 cm)
- Materials:
  - Outer shell: ABS-plastic, impact-resistant, anti-slip texture
  - Springs: High-carbon steel, corrosion-treated
  - Handles: Soft-touch TPU coating, hypoallergenic
- Dimensions (closed): 12 cm × 6 cm × 3 cm (L × W × H)
- Weight: 180 g (without accessories)
- Force Measurement: Integrated spring-scale indicator (kg) with ±5 % accuracy
- Usage: Hand-strengthening, finger flexion/extension, rehabilitation, grip training
- Safety Features: Lock-out pin to secure at any resistance level; non-slip base for tabletop use
- Maintenance: For cleaning with mild soap solution
- Included Accessories: Carrying pouch, extra grip pads (small/medium/large), instruction guide

4 Quality standards

4.1 Manufacturing standards

- Compliance: CE-marked, ISO 9001, RoHS-compliant

5 Warranty

5.1 Minimum of one year after commissioning.

Item Description			**Heavy duty massager**
Department	Physiotherapy	Room Name/No.	

1. General Description			
2. Composition 2.1. Heavy duty massager 1 No.			
3. Performance Specifications 3.1			- Power source: 120-240 V AC, 50/60 Hz; 150 W max - Motor type: Brushless DC, 3,000 rpm (variable) - Massage modes: 4 preset (deep-tissue, spot, rolling, pulse) + customizable via app - Amplitude: 12 mm peak-to-peak - Force output: Up to 30 kg (≈ 300 N) adjustable in 5 kg steps - Heat function: 40 °C ± 2 °C, auto-shutoff after 30 min - Cover material: High-density TPU-coated fabric, antimicrobial, washable - Dimensions (L × W × H): 380 mm × 120 mm × 150 mm - Weight: 2.8 kg (incl. battery) - Battery: 7.4 V Li-ion, 4000 mAh; up to 3 h continuous use; USB-C recharge (2 A) - Connectivity: Bluetooth 5.0, iOS/Android app for program control and timer - Safety: Over-heat protection, auto-shutoff at 45 °C, lock-out button.
4	Quality standards		
4.1	Manufacturing standards		- CE-marked, FCC-compliant
5	Warranty		
5.1	Minimum of one year after commissioning.		

Item Description			**Hydrotherapy**
Department	Physiotherapy	Room Name/No.	
1. General Description Hydrotherapy unit uses water for treatment including pain relief			
2. Composition 2.1. Hydrotherapy 1 No.			
3. Performance Specifications 3.1			- Type: Portable whirlpool/jet bath, single-patient - Power Supply: 220-240 V AC, 50 Hz, 3 kW max; - Heating: 2 kW electric immersion heater, temperature control ±0.5 °C, range 20 °C – 45 °C

	- Pump: Centrifugal, 0.75 HP, flow rate 30 L/min, adjustable jet intensity (low/medium/high) - Jet System: 6-position adjustable hydro-jets, 2 × massage nozzles (rotary), 1 × bubble diffuser - Capacity: 150 L water tank or equivalent - Filtration: 0.2 µm cartridge filter with UV-LED sterilization, auto-clean cycle - Controls: Digital touchscreen panel, preset programs (circulation, massage, contrast), timer up to 60 min - Safety Features: Over-heat sensor, water-level alarm, emergency shut-off button, lockable cover. - Dimensions (W × D × H): 120 cm × 80 cm × 90 cm (including cover) - Weight (empty): 45 kg; operating weight ≈ 190 kg (150 L water) - Materials: Rot-resistant stainless-steel tank (AISI 304), UV-stable ABS housing, silicone-sealed doors - Connectivity: Bluetooth 5.0 for app control, USB-C firmware updates, optional Wi-Fi for remote monitoring - Included Accessories: Adjustable footrest, detachable headrest, cleaning brush, 2 × spare filter cartridges.
4 Quality standards 4.1 Manufacturing standards	- Regulatory: CE-marked (Medical Device Class IIa), ISO 13485, FDA-cleared - IEC 60601-1 compliant,
5. Warranty; One year after commissioning	
6. Installation and testing Complete installation and set-up of the machine as per the manufacturer's instructions.	

Item Description			**Infra-red handheld massager**
Department	Physiotherapy	Room Name/No.	
1. General Description Infra-red hand held massager is designed for targeted muscle relief, combining infra-red heat with percussive massage for deep-tissue therapy.			
2. Composition 2.1. Infra-red hand held massager 1 No.			
3. Performance Specifications			

3.1		- Power source: Rechargeable Li-ion 7.4 V, 3000 mAh; USB-C charging (2 A) – up to 3 h continuous use - Power rating: 30 W max (motor + IR) - Infra-red output: 850 nm wavelength, 5 W/cm² peak intensity, adjustable 3-level heat (low/medium/high) - Massage modes: 4 preset (pulsing, rolling, tapping, deep-tissue) + custom via app - Speed range: 1500–3000 rpm (brushless DC motor) - Amplitude: 10 mm peak-to-peak - Heat time: Auto-shutoff after 30 min of continuous heating - Cover material: Medical-grade silicone, antimicrobial, washable - Dimensions (L × W × H): 180 mm × 80 mm × 45 mm - Weight: 350 g (incl. battery) - Safety: Over-heat protection, low-battery alarm, lock-out button, - Connectivity: Bluetooth 5.0, iOS/Android app for program selection, timer, intensity control.
4 Quality standards 4.1 Manufacturing standards		CE-marked, FCC-compliant
5. Warranty; One year after commissioning		
6. Installation and testing Complete installation and set-up of the machine as per the manufacturer's instructions.		

Item Description			**Infra-red lamp**
Department	Physiotherapy	Room Name/No.	
1. General Description Infra-red lamp is designed for pain relief, muscle relaxation, and localized heat therapy in healthcare settings.			
2. Composition 2.1. Infra-red lamp 1 No.			
3. Performance Specifications 3.1		- Type: Ceramic-element IR lamp (far-infrared) - Power Supply: 220-240 V AC, 50-60 Hz - Wattage: 250 W (adjustable 0-100 % via built-in dimmer) - Wavelength: 8-12 µm (peak at 9.5 µm) – deep tissue penetration - Heating Area: Ø 30 cm (effective treatment zone)	

		- Heat Output: Up to 150 mW/cm² at 30 cm distance - Timer: Mechanical 0-30 min auto-shutoff, 5-min increments - Safety Features: Over-heat thermostat, tip-over switch, UV-filter glass, CE-marked, IP20 rating - Mounting: Wall-mount bracket or tripod socket (included) - Dimensions (L × W × H): 35 cm × 12 cm × 12 cm - Weight: 1.2 kg - Housing Material: Aluminum alloy with heat-resistant coating, removable front grille
4	Quality standards	
4.1	Manufacturing standards	- Compliance: EN 60335-1, RoHS-compliant, ISO 9001 manufacturing
5. Warranty; One year after commissioning		
6. Installation and testing Complete installation and set-up of the machine as per the manufacturer's instructions.		

Item Description			**Infusion pump**
Department	Theatre/ICU	Room Name/No.	
1. General Description An infusion pump is designed for precise, safe delivery of fluids, medications, or nutrition in hospitals, clinics, and home-care settings.			
2. Composition 2.1. Infusion pump 1 No.			
3. Performance Specifications 3.1			- Model: Clinical-grade volumetric pump (portable) - Power: 220 - 240 V AC, 50-60 Hz; rechargeable Li-ion battery (7.4 V, 3000 mAh) – up to 8 h operation - Flow Rate: 0.1 – 2000 mL/h, adjustable in 0.1 mL increments - Rate Accuracy: ±5 % of set rate (≥ 1 mL/h) - Pump Mechanism: Linear peristaltic (dual-channel) with occlusion detection - Maximum Pressure: 300 mm Hg (adjustable alarm threshold) - Bolus: Manual bolus up to 50 mL; programmable bolus (0.1 – 10 mL per pulse)

		- Display: 4.3-inch color TFT, back-lit, shows rate, volume delivered, battery, alarm status - Alarms: Occlusion, low battery, empty reservoir, end of infusion, door open, system error, air-in-line - Safety Features: Auto-stop on alarm, keypad lock, audible/visual alerts (≥ 65 dB - Reservoir Compatibility: 50 mL, 100 mL, 250 mL, 500 mL, 1000 mL IV bags (standard spike set) - Connectivity: USB-C for firmware updates; optional Bluetooth/Wi-Fi for EMR integration and remote monitoring - Dimensions (W × H × D): 150 mm × 95 mm × 45 mm - Weight: 350 g (without battery) - Operating Environment: 10 °C – 35 °C, 30 % – 75 % RH, non-condensing - Accessories Included: Power cord, battery pack, carrying strap, disposable tubing set (2 m), user manual.
4	Quality standards	
4.1	Manufacturing standards	- ISO 60601-1 compliant, - Regulatory: CE-marked (Class IIa), FDA-cleared, ISO 13485, IEC 60601-2-24
5. Warranty; One year after commissioning		
6. Installation and testing Complete installation and set-up of the machine as per the manufacturer's instructions.		

Item Description			**Instrument cabinet**
Department		Room Name/No.	
1. General Description An instrument cabinet is designed for designed for secure storage and organization of laboratory and medical instruments.			
2. Composition 2.1. Instrument cabinet 1 No.			
3. Performance Specifications 3.1			- Construction: 18-gauge cold-rolled steel, double-wanted panels; powder-coated finish (matte gray) with anti-corrosion treatment. - Dimensions (W × D × H): 1200 mm × 600 mm × 1800 mm. - Door: Full-height swing door with 3-point latch, 2-mm thick, recessed handle, optional lock (key or electronic).

		- Shelving: Adjustable stainless-steel shelves (5 mm thick), 300 mm depth, up to 5 shelves per cabinet, load rating 50 kg per shelf. - Ventilation: Perforated rear panel (6 mm holes) and integrated 120 mm fan with variable speed control; optional filtered vent. - Power: Built-in 220-240 V AC surge-protected outlet strip (6 sockets, 2 kW max). - Lighting: LED strip (3000 K) with motion sensor, 12 V DC, 5 W total. - Mounting: Floor-standing with adjustable leveling feet; wall-mount brackets optional. - Weight: 85 kg (empty). - Load Capacity: 250 kg static, 150 kg dynamic. - Accessories: Removable tray, cable management clips, lock kit, spare fan filter.
4	Quality standards	
4.1	Manufacturing standards	- Safety/Compliance: EN 61010-1, CE-marked, IP20 rating, RoHS-compliant.
5. Warranty; One year after commissioning		
6. Installation and testing Complete installation and set-up of the machine as per the manufacturer's instructions.		

Item Description			**Instrument drying cabinet**
Department	Theatre/CSSD	Room Name/No.	
1. General Description An instrument drying cabinet designed for rapid, low-residue drying of laboratory glassware, surgical instruments, and delicate equipment in clean-room or medical settings.			
2. Composition 2.1. Instrument drying cabinet 1 No.			
3. Performance Specifications 3.1			- Construction: 18-gauge cold-rolled steel, powder-coated matte white; double-wanted panels for thermal stability. - Dimensions (W × D × H): 900 mm × 600 mm × 1800 mm (standard); optional heights 1200 mm or 1500 mm. - Door: Full-height swing door with 3-point latch, gasket seal, optional lock (key or electronic). - Shelving: Adjustable stainless-steel shelves (2 mm thick), 300 mm depth, up to 6 shelves, each rated 30 kg. - Heating System: Forced-air convection with 2 × 1500 W stainless-steel heating elements; temperature control

		±2 °C. - Temperature Range: 30 °C – 80 °C, selectable in 5 °C increments. - Airflow: 120 m³/h fan with variable speed; filtered intake (HEPA-type 0.3 µm). - Drying Cycle: Programmable timer 0–120 min; auto-shutoff at end of cycle. - Humidity Control: Integrated dehumidifier with condensate collection tray (5 L capacity). - Power Supply: 220-240 V AC, 50 Hz, 3 kW max; surge-protected outlet strip (4 sockets). - Lighting: LED interior strip (4000 K) with motion sensor. - Ventilation: Adjustable rear vent with louver; optional exhaust hose kit for external venting. - Weight (empty): 95 kg. - Load Capacity: 200 kg static, 120 kg dynamic. - Safety: Over-heat protection, door-open alarm. - Accessories Included: Removable condensate tray, extra shelf pins, lock kit, cleaning brush.
4	Quality standards	
4.1	Manufacturing standards	Compliance: EN 61010-1, CE-marked, IP20
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Lumbar traction**
Department	Theatre/CSSD	Room Name/No.	
1. General Description A lumbar traction is designed for clinical and rehabilitation settings to provide controlled, repeatable lumbar decompression for low-back pain relief.			
2. Composition 2.1. Lumbar traction 1 No.			
3. Performance Specifications 3.1		- Type: Mechanical, motor-driven traction system with adjustable belt and harness.	

		- Power Supply: 220-240 V AC, 50 Hz, 120 W. - Maximum Traction Force: 0 – 200 kg (0 – 1960 N), selectable in 5 kg increments. - Force Accuracy: ±5 % of set value (±10 kg) across full range. - Traction Modes: Continuous, intermittent (30 s on/30 s off), and pulsed (10 s on/20 s off) cycles. - Treatment Time: Programmable 0 – 60 min, 1-min increments; auto-shut-off at end of cycle. - Belt/Harness Material: 5 mm high-density neoprene-coated nylon, washable, antimicrobial. - Adjustable Range: Waist circumference 70 – 150 cm; leg length 70 – 110 cm (adjustable footplate). - Display: 7-segment LED readout of force (kg) and remaining time; back-lit for low-light environments. - Safety Features: - Dual-sensor overload protection (force and pressure). - Emergency release lever (instant force reduction). - Door-open interlock disables motor. - Audible alarm for overload, low battery, or end of cycle. - Portability: Integrated wheels with lockable brakes; detachable control unit (weight 3.2 kg). - Dimensions (L × W × H): 120 cm × 55 cm × 95 cm (device); 25 cm × 15 cm × 10 cm (control unit). - Weight: 18 kg (device), 3.2 kg (control unit). - Operating Environment: 10 °C – 35 °C, 30 % – 75 % RH, non-condensing. - Included Accessories: Adjustable lumbar belt, footplate, power cord, user manual, spare fuse.
4	Quality standards	
4.1	Manufacturing standards	- Regulatory Compliance: CE-marked (Class IIa), ISO 13485, IEC 60601-1, IEC 60601-2-10.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Microwave Diathermy**
Department	Physiotherapy	Room Name/No.	

1. General Description
A microwave diathermy is designed for deep-tissue heating in physical therapy, sports medicine, and orthopedic rehabilitation.

2. Composition
2.1. Microwave Diathermy 1 No.

3. Performance Specifications

3.1	- Power Supply: 220-240 V AC, 50/60 Hz, 1.5 kW max; - Frequency: 2450 MHz (ISM band) - Output Power: 0-150 W, adjustable in 5 W increments - Power Accuracy: ±10 % of set value - Treatment Timer: 0-30 min, 1-min increments; auto-shutoff at end of cycle - Applicator Types: 4 cm, 6 cm, and 8 cm diameter circular heads; interchangeable coaxial cable - Cooling System: Integrated air-flow with temperature-controlled fan; water-circulation for high-power use - Temperature Control: Skin temperature sensor with feedback; limit set point 40-45 °C - Safety Features: - Dual-sensor over-temperature shutdown - Automatic power cut-off on applicator removal or fault detection - Emergency stop button - RF leakage < 5 µW/cm² - Display: 5-inch color touchscreen showing power, time, temperature, and alarm status - Connectivity: USB-C for firmware updates; optional Bluetooth for remote monitoring - Dimensions (W × D × H): 300 mm × 250 mm × 150 mm (main unit) - Weight: 4.2 kg (without accessories) - Operating Environment: 15 °C – 30 °C, 30 % – 75 % RH, non-condensing
4 Quality standards	
4.1 Manufacturing standards	- Regulatory Compliance: CE-marked (Class IIa), IEC 60601-1, IEC 60601-2-6, ISO 13485
5 Delivery point	
5.1 See Schedule	For inspection and testing
6 Installation and testing	
Complete installation and set-up of the machine as per manufacturer's instructions	

7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Oxygen delivery set, regulator, flow meter humidifier**
Department	Ward/Theatre	Room Name/No.	
1. General Description A Oxygen delivery set , regulator, flow meter humidifier is designed to provide safe and controlled delivery of oxygen to patients requiring respiratory support.			
2. Composition 2.1. Oxygen delivery set , regulator, flow meter humidifier 1 No.			
3. Performance Specifications 3.1		- Regulator Type: Single-stage, pressure-compensated, brass body, chrome-plated - Inlet Pressure: 2000 psi (138 bar) max; 3000 psi (207 bar), high-pressure model - Outlet Pressure: Adjustable 0–50 psi (0–3.4 bar) with gauge. - Flowmeter: Inline, 0–15 L/min, calibrated in 1 L increments, clear acrylic tube with stainless-steel float. - Humidifier: 250 ml disposable bottle, autoclavable polycarbonate, heated up to 37 °C - Connections: - Inlet: C-type (CGA 540) or DISS 540, ¼-inch NPT female - Outlet: Standard 6 mm (¼-inch) barb for tubing, quick-connect lock - Tubing: 6 mm (¼-inch) ID, 2 m length, medical-grade PVC, kink-resistant, oxygen-compatible - Safety Features: - Pressure relief valve (set to 55 psi) - Flow-meter lock-out knob - Humidifier overflow protection valve - Anti-static grounding strap - Dimensions (Regulator + Flowmeter): 120 mm × 70 mm × 45 mm - Weight: 350 g (regulator + flowmeter) - Operating Temp: 5 °C – 45 °C.	
4	Quality standards		
4.1	Manufacturing standards	- Compliance: ISO 10524-1, ISO 15001, CE-marked	

5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Pack heater**
Department	Physiotherapy	Room Name/No.	
1. General Description A pack heater is designed for localized heat therapy in physiotherapy, providing safe, controlled warmth for pain relief and tissue healing.			
2. Composition 2.1. Pack heater 1 No.			
3. Performance Specifications 3.1			- Power Supply: 220-240 V AC, 50/60 Hz, single-phase - Heating Power: 150 W, 300 W, 500 W selectable (adjustable via built-in controller) - Temperature Range: 30 °C – 70 °C (±2 °C) – suitable for thermotherapy and muscle relaxation - Control: Digital micro-processor with 3-digit LED display; preset programs (continuous, 15 min, 30 min) and manual set-point - Heating Element: Flexible silicone-rubber pad, 10 × 15 cm, low-profile, uniform heat distribution, waterproof (IPX7) - Safety Features: - Auto-over-heat cut-off (≥ 75 °C) - Skin-temperature sensor with audible alarm - Low-voltage (12 V) safety lock when not in use - Dimensions (Pad): 150 mm × 100 mm × 5 mm - Cable Length: 1.8 m medical-grade, detachable with quick-connect plug - Weight: 250 g (pad only) - Mounting: Velcro straps and adjustable elastic belt for torso, shoulder, knee, or back application.

4	Quality standards	
4.1	Manufacturing standards	- Compliance: CE-marked (Class IIa), IEC 60601-1, ISO 13485, RoHS-compliant
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Wax bath**
Department	Physiotherapy	Room Name/No.	

1. General Description

A wax bath is designed for safe, uniform heat therapy to relieve joint stiffness, improve circulation, and aid soft-tissue recovery.

2. Composition

2.1. Wax bath 1 No.

3. Performance Specifications

3.1

- Power Supply: 220-240 V AC, 50/60 Hz, 2 kW max
- Heating Capacity: 1.5 kW (adjustable) with digital thermostat.
- Temperature Range: 30 °C – 80 °C (±1 °C) – preset "Therapy" (45 °C) and "Relax" (55 °C) modes.
- Tank Volume: 5 L stainless-steel basin, removable for cleaning.
- Heating Time: 30 min to reach 55 °C from cold start
- Control Interface: 4-digit LED display, push-button set-point, timer 0-30 min with auto-shutoff
- Safety Features:
  - Over-temperature cut-off (≥ 85 °C)
  - Low-water alarm and automatic shutdown
  - Non-slip base, insulated handle, splash-proof lid
- Dimensions (L × W × H):
  350 mm × 250 mm × 150 mm

		- Weight (empty): 4.2 kg - Material: 18-gauge stainless steel tank, powder-coated steel housing, BPA-free silicone seals - Accessories Included: - 2 L paraffin wax (melting point 55 °C) - Thermometer (0-100 °C) - Adjustable armrest strap for limb immersion.
4	Quality standards	
4.1	Manufacturing standards	- Compliance: CE-marked (Class IIa), IEC 60601-1, ISO 13485, RoHS-compliant
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Shortwave Diathermy**
Department	Physiotherapy	Room Name/No.	
1. General Description A shortwave diathermy is designed for deep-tissue heating in physical therapy, sports medicine, and orthopedic rehabilitation.			
2. Composition 2.1. Shortwave diathermy 1 No.			
3. Performance Specifications 3.1		- Power Supply: 220-240 V AC, 50/60 Hz, 1.5 kW max; - Operating Frequency: 27.12 MHz (ISM band) - Output Power: 0-150 W, adjustable in 5 W increments - Power Accuracy: ±10 % of set value - Treatment Timer: 0-30 min, 1-min increments; auto-shutoff at end of cycle - Applicator Types:	

		- 4 cm, 6 cm, 8 cm circular capacitive plates - 10 cm × 15 cm rectangular inductive coil (optional) - Cooling System: Integrated air-flow with temperature-controlled fan. - Temperature Control: Skin-temperature sensor with feedback; limit set point 40-45 °C - Safety Features: - Dual-sensor over-temperature shutdown - Automatic power cut-off on applicator removal or fault detection. - Emergency stop button. - RF leakage < 5 µW/cm² - Display: 5-inch color touchscreen showing power, time, temperature, and alarm status - Connectivity: USB-C for firmware updates; optional Bluetooth for remote monitoring - Dimensions (W × D × H): 300 mm × 250 mm × 150 mm (main unit) - Weight: 4.2 kg (without accessories) - Operating Environment: 15 °C – 30 °C, 30 % – 75 % RH, non-condensing
4	Quality standards	
4.1	Manufacturing standards	- Regulatory Compliance: CE-marked (Class IIa), IEC 60601-1, IEC 60601-2-6, ISO 13485
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Neonatal CPAP machine**
Department		Room Name/No.	
1. General Description A neonatal CPAP device provides a steady stream of warmed, humidified air at a set pressure to keep the preterm infant's lungs open. It's a cornerstone of respiratory support in NICUs, offering non-invasive ventilation that reduces the need for intubation.			
2. Composition			

2.1. Neonatal CPAP machine – 1 Set.		
3. Performance Specifications		
3.1		- Pressure Range: 2 – 10 cm H_2O (adjustable in 0.5 cm increments) - Flow Rate: 0 – 15 L/min (continuous, continuous-flow or variable-flow modes) - Purity & Humidity: Integrated heater-humidifier delivering 37 °C ± 1 °C, > 90 % relative humidity; oxygen concentration 21 % – 100 % (adjustable) - Modes: - Continuous Flow CPAP – constant flow, pressure maintained by a fixed resistor. - Variable-Flow (Bubble) CPAP – flow adjusted to maintain set pressure, lower work of breathing. - NCPAP (Nasal CPAP) with dual-limb circuit – separate inspiratory/expiratory limbs for precise control. - Alarm System: High/low pressure, high/low oxygen, apnea, circuit disconnect, power failure, temperature deviation. - Power Supply: 220–240 V AC, 50/60 Hz; battery backup (≥ 30 min) for transport - Dimensions (W × D × H): About 300 mm × 250 mm × 150 mm (compact bench-top) - Weight: ≈ 4 kg (including humidifier) - Connectivity: USB/Ethernet port for data export, Wi-Fi for EMR integration, RS-232 for bedside monitors. - Disposable Circuit: Single-use, low-dead-space nasal prongs (size 0–3) and tubing, autoclavable or sterilizable components.
4	Quality standards	
4.1	Manufacturing standards	- Safety Standards: IEC 60601-1 (medical electrical), IEC 60601-2-19 (CPAP), ISO 13485, CE-marked, FDA-cleared (Class II).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Transport Monitor**
Departmen		Room	

t		Name/No.	

1. General Description

A Transport monitor is a compact, lightweight, and battery-powered medical device designed to continuously measure and display key physiological parameters of a patient. It is used in emergency care, ambulances, recovery rooms, ICUs, operating theaters, and during patient transport within hospital facilities. The monitor provides real-time data for critical patient assessment and alerts clinicians in case of physiological deterioration through audible and visual alarms.

2. Composition

2.1. Transport Monitor 1 No.

3. Performance Specifications

3.1

Display & Interface

High-resolution color TFT/LCD touch screen: 7–12"
Adjustable screen brightness for indoor/outdoor use
Multi-parameter waveform display (up to 6 or more waveforms).
Intuitive graphical user interface with quick-access keys.
Lightweight and ergonomic handle for easy transport.

Measured Parameters

Standard monitoring:
ECG: 3/5-lead, heart rate: 15–300 bpm
Respiration rate (RR): 0–120 rpm
NIBP (Non-invasive BP): Systolic/Diastolic/Mean
SpO_2 (Pulse Oximetry): 0–100%, motion-tolerant technology.
PR (Pulse Rate): 20–250 bpm.
Temperature: Dual channels, °C/°F display
$EtCO_2$ (Mainstream/Sidestream)
IBP channels (≥2)
Cardiac Output (CO) & invasive hemodynamics
NIBP auto measurement modes (Manual/Auto/STAT).

Performance & Features

High-accuracy ECG filtering for artifact reduction
Arrhythmia and ST-segment analysis
Adjustable alarm limits with visual & audible notifications
Trend data storage: 24–120 hrs minimum
Data export via USB, Wi-Fi, or LAN—EMR connectivity supported.

Power Requirements

Rechargeable Lithium-ion battery
Minimum 4–8 hours continuous monitoring capability
AC power input: 220–240 V, 50/60 Hz.

Environmental Conditions

Operating temperature: 0–40°C
Relative humidity: 15–95% non-condensing
Designed for use in patient transport—shock and vibration resistant.

Safety

Audible/visual alarm systems per patient safety norms.

Physical Characteristics

Weight: ≤3.5 kg
Compact design with integrated carrying handle
Mounting options: wall mount, rolling stand, or bed rail clamp.

Accessories

Reusable adult SpO_2 sensor
NIBP cuff and hose (Adult size)
ECG cable with electrodes
Temperature probe

		Power adapter/charger Transport bag, pediatric accessories.
4	Quality standards	
4.1	Manufacturing standards	Compliance with IEC 60601-1 (electrical safety) Compliance with IEC 60601-1-2 (EMC compatibility)
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Portable Examination Light**
Department		Room Name/No.	
1. General Description A portable examination light is a compact, handheld illumination device that gives clinicians bright, even light wherever they need it—whether in a consultation room, or an emergency scene. It's battery-powered so it can run without being tethered to a wall outlet, and it usually features adjustable brightness and a color temperature that mimics daylight for accurate visual assessment.			
2. Composition 2.1. Portable Examination Light 1 No.			
3. Performance Specifications 3.1			- Power source: rechargeable lithium-ion battery (7.4 V, 4 Ah) with AC adapter (220-240 V) for continuous use. - Light output: up to 30 000 Lux at 30 cm; brightness adjustable in five steps. - Color temperature: 5 500 K (daylight-balanced). - Beam pattern: interchangeable lenses give a 15 cm spot or 30 cm flood at 30 cm distance. - Battery life: ~4 hours at full intensity, ~8 hours at 50 % intensity. - Charge time: 2 hours to full charge (fast-charge mode). - Controls: touch-sensitive panel on the handle; optional foot-pedal switch. - Housing: impact-resistant ABS with IPX4 splash-proof rating and

		antimicrobial coating. - Weight: 1.2 kg (including battery). - Dimensions: 210 mm × 80 mm × 150 mm (L × W × H). - Mounting: integrated clamp for stand or wall mount, plus magnetic base for metal surfaces.
4	Quality standards	
4.1	Manufacturing standards	- Compliance: IEC 60601-1 (medical electrical), CE-marked, RoHS-compliant.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**(Transcutaneous Electrical Nerve Stimulation) Unit) TENS**
Department	Physiotherapy	Room Name/No.	
1. General Description A TENS unit is a small, battery-powered device that delivers low-level electrical pulses through adhesive electrodes placed on the skin. The stimulation helps block pain signals, promote blood flow and trigger the body's natural endorphins, making it a popular non-invasive option for acute and chronic pain management.			
2. Composition 2.1. TENS unit 1 No.			
3. Performance Specifications 3.1			- Power source: 2 × AAA alkaline batteries (or rechargeable Li-ion pack) – up to 30 hours of continuous use. - Channels: 2 independent output channels (dual-mode). - Pulse width: 50 – 300 µs, adjustable in 10 µs steps. - Frequency: 1 – 150 Hz, selectable in 1 Hz increments. - Intensity: 0 – 100 mA (peak), fine-tuned with a digital knob or button. - Modes: Continuous, burst, modulated (alternating frequency/pulse width) and "strength-duration" for muscle stimulation. - Timer: 5 – 60 minutes, auto-shutoff after preset time. - Safety features: Open-circuit detection, automatic shut-off if electrode pads lose contact, low-battery warning.

		- Dimensions: 120 mm × 65 mm × 25 mm (L × W × H). - Weight: 85 g (including batteries). - Included accessories: 4 reusable self-adhesive electrodes (50 mm × 50 mm), carry case, battery, user manual.
4	Quality standards	
4.1	Manufacturing standards	- CE-marked Class II medical device. - Compliance: IEC 60601-1 (medical electrical safety), ISO 13485 quality standard, CE-marked, FCC-compliant for electromagnetic emissions.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Department	**Laboratory**		Blood gas Analyzer
Item Code:			
SPECIFICATIONS			
Battery/ electricity operated with complete accessories for use			
Capacity to run electrolytes, blood gases, haematology, cardiac markers among others: **Mandatory.**			
Sample type: whole blood (capillary, syringe or vacutainer)			
Sample volume: 100µL or less			
Reportable results: Quantitative measurements			
Test time-2-10minutes			
Bar code reader system: **Mandatory**			
Automated Internal quality control system: **Mandatory**			
Weight: Portable (500-1000grams)			
Data storage capacity: Equal or greater than 1000 patient results			
Ability to interface with wireless technology and LIMS for data storage			
Temperature of operation: optimum 150C -300C			
Language for Technical user manual: English			
Added advantage: FDA approval and/or CE mark			

Blood Analyzer Specifications:

The analyzer should have the capability to analyze:

- Blood gases, Electrolytes/Chemistries, Hematology, Coagulation, Cardiac Markers and Beta HCG.

The analyzer should have the following features:

- Advanced Biosensor Technology
- Battery Operated
- Sample Type: Syringe and capillary whole blood
- Sample volume: Maximum 100 Microliters
- Reports: Quantitative
- Test Time: 2 -10 Minutes for All the parameters
- Capability to perform self-check before each analysis
- Automatic measurement of barometric pressure
- Data storage capacity- memory should be up to a 1000 patient results.
- Weight: Maximum 1,000 grams
- Capability to input Patient ID, Name, Age, Gender among others
- System should be able to read bar codes
- System should have Wifi capability to enable mobile , real time result transmission
- Fully integrated, wireless technology
- Capability to Integrate with an existing Point of Care data manager
- Capability to interface with major Laboratory Information System
- Environmental factors: Shall meet general requirements of safety for electromagnetic compatibility,
- The machine should be capable of operating in ambient Temperature of 15 -30^{o}C and relative humidity of less than 70%.
- Standards, Safety and Training: Should be FDA, CE approved product, Manufacturer should be ISO certified for quality standards,
- Documentation: User/technical manuals to be supplied in English.
- The analyzer must be registered and validated by Kenya Medical Laboratory Technicians and Technologists Board
- The analyzer must come with complete accessories for its operation and use

SPECIFICATIONS	CONFORMITY OR DEVIATION
Consumables should be dry chemistry based and should give quantitative results	
Single use with advanced biosensor chips & in built with auto-calibration	
Should be barcoded and individually packed for easy identification	
The test consumables should be self-contained with all reagents, sensors and calibrating solution required to run test.	

The consumables should be disposable after each patient test.	
The test consumables should have the capability to analyze the parameters either individual or as a panel	

	Cardiotocography (CTG) machine	**CARDIOTOCOGRAPHY (CTG) MACHINE** **1. General description** A medical device used to monitor the foetal heartbeat and uterine contractions during pregnancy and labour. **2. Performance specifications** 2.1 Display: 12" colour TFT-LCD 2.2 Resolution: 800 (h) x 600 (v) 2.3 Recorder: 1/2/3 cm/min real-time printing speed; Fast print speed (stored traces) up t o 25 mm/sec 2.4 Ultrasound Frequency: 0.985MHz 2.5 Intensity: 10mW/cm2 or less 2.6 FHR Range: 30~240bpm 2.7.1 FHR Accuracy: ±2% of Range 2.8 Auto-detection of Dual Foetal Movement 2.9 External Type Frequency Response: DC~0.5HZ 2.10 2*No* Dopler Probe (FHR), 1No UC Contraction Probe 2.11 Event Marker, AST Probe 2.12 2x Z-folded type Paper, Probe Belts 2.13 Power Cord & Power Adaptor 2.14 Battery provided 2.15 Ultrasound Gel provided **3. Operating environment** 3.1 Ambient temperature 10°C to 40°C 3.2 Relative humidity 10% to 90% 4. **Quality standards** 4.1 Manufacturing standards IEC 60601-1, ISO 9001, ISO 13485. 4.2 Conformity to standards: Directive 2004/108/EC, CE, FDA Approved. 5. **Local back up service** 5.1 Should be available locally. 5.2 Capacity to service equipment; The agent shall have adequate facilities, spare parts, and qualified and skilled technical staff. 6. **Delivery point** 6.1 For inspection and testing; The successful bidder will provide storage facility for the exercise. 6.2 The bidder will then deliver equipment to the facilities provided above.

		7. Installation and testing 7.1 Complete installation and set-up of the machine as per manufacturer's instructions. **8. Training** 8.1 On site user training on operation and daily upkeep. 8.2 On-site training of Biomedical Engineers on preventive and corrective maintenance. 9. **Warranty**: One year after commissioning.

	LAPAROSCOPIC TOWER	
	1. Full HD Monitor. 1.1. 4K UHD IPS Colour Monitor 1.2. Should allow for accurate reproduction of HDR 10 contents 1.3. Should support up to 4 "Picture by Picture" to allow display of a combination of endoscopic and fluoroscopic images. 1.4. Panel size should be a minimum of 30 inch 1.4.1. Anti-reflection protection glass. 1.4.2. Viewing angle should be a minimum 175° (R/L, U/D) 1.4.3. Contrast ratio: 1000:1 1.5. Video input: 1.5.1. 1 x HDMI 1.5.2. 1 x DP 1.5.3. 1 x DVI 1.5.4. 1 x 3G-SDI 1.5.5. 1xHDMI output 1.6. Should be DICOM Compliant Power supply should be 100-240 V	
	2. Full HD Monitor. 2.1. 4K UHD IPS Colour Monitor 2.2. Should allow for accurate reproduction of HDR 10 contents	

	2.3. Should support up to 4 "Picture by Picture" to allow display of a combination of endoscopic and fluoroscopic images. 2.4. Panel size should be a minimum of 30 inch 2.4.1. Anti-reflection protection glass. 2.4.2. Viewing angle should be a minimum 175° (R/L, U/D) 2.4.3. Contrast ratio: 1000:1 2.5. Video input: 2.5.1. 1 x HDMI 2.5.2. 1 x DP 2.5.3. 1 x DVI 2.5.4. 1 x 3G-SDI 2.5.5. 1xHDMI output 2.6. Should be DICOM Compliant Power supply should be 100-240 V	
	2.Co2 Insufflator 2.1. It should be easy to operate 2.2. It should have pressure range of 0-30mmHg 2.3. It should have flow rate of 0.1 to 45 litres / min. 2.4. It should maintain variable flow constant pressure balance in pneumo-peritoneum 2.5. Audio and visual warning signals in case of excessive pressure 2.6. It should show preset and actual values of the flow rate of gas on digital display 2.7. It should have an CO2 warmer 2.8. It should be with High Pressure Tubing, Pressure Gauge, Silicon Tubing, sterile filter 2.9. It should not consume more than 40VA of power. 2.10. It should not be more than 7 kg 2.11. It should be possible to connect CO2 bottle as well as central gas supply	
	4.0 Fluid management system 4.1. It should have peristaltic roller pump for irrigation 4.2. It should have inbuilt vacuum pump for suction 4.3. It should have pressure sensors to enable pressure monitoring with body cavity	

	4.3.1. Pressure range for hysteroscopy should be 10-200mmHg 4.4. Flow rate should be 4.4.1. 100-500mls/min in hysteroscopy 4.4.2. 100-2200mls/min in laparoscopy 4.5. Suction 4.5.1. Vacuum should be max 480mmHg 4.5.2. Flow rate should be max of 2200mls/min 4.6. It should have autoclavable silicon suction tube 4.7. It should have autoclavable silicon irrigation tube It should have autoclavable suction bottle with holder	
	5.0. LED-Laser Light Source 5.1. It should have LED output 5.2. It should be have laser 5.3. It should be 300 watt. 5.4. Should have color temperature approx. 6200K. 5.5. Should have LED life time >30000h. 5.5.1. Step-less brightness adjustment 0%-100% 5.5.2. Adaptive light adjustment; Light intensity adjusts automatically to the distance between endoscope and tissue 5.6. Power consumption of 200 VA Power Supply of 100-240V, 50/60Hz.	
	5.0. LED Light Cable 5.1. Autoclavable Fiber optic cable compatible to the system 4.8mm 5.2. Autoclavable Fiber optic cable compatible to the system 3.5mm	
	5.0. Electrosurgical unit 5.1. Easy to use front panel with optimized user-friendly touch-screen 5.2. Protection of videoscopes against stray currents. 5.3. The unit should be complete with foot switch and electrodes 5.4. Microprocessor system temperature protected by internal sensor 5.5. Very low voltage bipolar 5.6. Coagulation; - Monopolar, bipolar, low forced and spray 5.7. Output power Nominal high frequency output of about 300W adjustable up and down with touch button keys or convenient controls 5.8. With automatic output regulation against excess impedance	

	5.9. Cutting: Monopolar, bipolar and blend functions Activation by finger-switch and/or foot switch 5.10. System must have bipolar hysteroscopy resection functionality and TURP 5.11. Coagulation: Monopolar, bipolar, low forced and spray Activation by finger switch and / or foot switch 5.12. Usability of bipolar with need for neutral plate Audible and visual alarm	
	5.0. Laparoscopy Trolley Specification 5.1. Should have: 5.1.1. OVERALL SIZE: Dimensions: 125.5 x 55.5 x 70 cm 5.1.2. Minimum of 2 Shelf 5.1.3. TFT-monitor holder 5.1.4. Antistatic dual wheels with locking brakes 5.1.5. Multiple socket with 4 plug-boxes 5.1.6. Monitor holder and shelves are height adjustable Should have trolley handles for easy and direct maneuvering	

	VENTILATOR, ADULT/PAEDIATRIC	
	General Requirements - An Intensive Care Unit (ICU) grade, microprocessor-controlled ventilator. - Suitable for adult and pediatric patients. - Supports invasive and non-invasive ventilation. - Capable of continuous 24/7 operation.	
	Ventilation Modes - Volume Control Ventilation (VCV) - Pressure Control Ventilation (PCV) - SIMV–VC / SIMV–PC - Pressure Regulated Volume Control (PRVC) - Pressure Support Ventilation (PSV) - CPAP - Non-Invasive Ventilation (NIV) - Assist-Control (A/C)	
	Performance Specifications - Tidal Volume: 20–2000 mL (adult/pediatric), - Respiratory Rate: 1–80 breaths/min - Inspiratory Pressure: 0–60 cmH_2O - PEEP: 0–30 cmH_2O - FiO_2: 21–100% - Peak Inspiratory Flow: ≥180 L/min	

	- I:E Ratio: 1:1 to 1:4 - Trigger Sensitivity: Flow 0.2–20 L/min, Pressure -0.5 to -20 cmH_2O	
	Monitoring Parameters - Tidal Volume, Peak Inspiratory Pressure, Plateau Pressure - Mean Airway Pressure, Minute Ventilation, Respiratory Rate - Leak measurement (NIV), FiO_2 (set & measured) - SpO_2 and $EtCO_2$ (if integrated) - Flow, pressure, and volume waveforms - Loop graphics (P–V, F–V)	
	Safety Features & Alarms - High/low airway pressure, tidal volume, minute ventilation alarms - Apnea alarm - High FiO_2 alarm - Power failure and low battery alarms - Circuit disconnection and obstruction alarms - Internal diagnostic system and anti-backflow protection	
	User Interface - Color touchscreen display ≥10 inches - Graphical interface with waveforms and loops - 72-hour trend data - Language options including English	
	Power supply & Battery - AC: 100–240V, 50/60 Hz - Internal rechargeable battery: minimum 1 hour (preferably ≥3 hours) - Battery status indicators	
	Gas Supply - Oxygen supply: 280–600 kPa - Air supply via turbine or hospital air - Operational without piped air (for turbine models)	
	Ventilator Accessories - Breathing circuits ×2 (adult/pediatric) - Humidifier/heater chamber - Oxygen sensor - Power cable - Nebulizer port/module - Filters and user/service manuals - Trolley, $EtCO_2$/SpO_2 modules.	
	Environmental Conditions - Operating temperature: 10–35°C - Humidity: 10–90% non-condensing - Noise level: ≤45 dB	
	Quality Standards & Certifications - IEC 60601-1, IEC 60601-1-2 - ISO 80601-2-12 - CE Mark or FDA approval	
	Training - For Biomedical engineering personnel and the users on maintenance and operation	

	Warranty One year after commissioning	

	NEONATAL VENTILATOR	
	1. General description • A neonatal (including extremely preterm) mechanical ventilator intended for NICU, capable of stable ventilation at very low tidal volumes and allowing safe transition between invasive ventilation and non-invasive respiratory support. • The system shall include: main ventilator unit, power protection (battery backup), patient circuit(s) designed for neonates, and all required accessories for immediate clinical commissioning.	
	9. Patient range and clinical capability (neonatal focus) • Designed for neonates from extremely low birth weight to term infants, including support for high oxygen/pressure needs while maintaining gentle ventilation (lung-protective settings and accurate delivery at tiny volumes). • Ventilation shall remain reliable across the full neonatal spectrum, including unstable spontaneous effort and frequent need for synchronized triggering.	
	10. Ventilation modes (minimum required) • Assist/Control (A/C) (volume or pressure targeted, depending on model configuration). • SIMV (synchronized intermittent mandatory ventilation) with optional pressure support on spontaneous breaths (where available). • Pressure Support Ventilation (PSV) for weaning and spontaneous breathing support. • CPAP/PEEP (and non-invasive support options if the model is specified to provide NIV). • Triggering options appropriate for neonates (preferably flow or pressure triggering with sensitivity suitable for very small inspiratory efforts).	
	11. Performance specifications (neonatal requirements) • Tidal volume (neonatal range): capability to ventilate with very small tidal volumes, with a practical neonatal operating band aligned to clinical neonatal ventilators (e.g., ~2–100 mL capability). • Respiratory rate: adjustable to cover typical neonatal needs (including very high rates used in preterm care). • PEEP/CPAP: adjustable across the neonatal clinical range (including low and higher PEEP settings for recruitment when clinically indicated).	

	• FiO_2 delivery: adjustable oxygen concentration across the full clinical range (from air-equivalent up to 100% oxygen). • Inspiratory time / I:E ratio: fully adjustable to match neonatal lung mechanics and clinical strategy (short inspiratory times commonly used in preterm ventilation).	
	12. Monitoring and measurement (minimum) • Continuous display and trends for: pressure (peak/plateau where applicable), tidal volume (delivered), respiratory rate, inspiratory/expiratory times, and alarm status. • Integrated/compatible monitoring such as capnography (mainstream or side stream) where clinically indicated (noting that some neonatal ventilator platforms provide configuration options for capnography). • Clear, high-visibility user interface with neonatal-specific presets or profiles to reduce set-up errors.	
	13. Safety features and alarms (mandatory) • High/low pressure, high/low tidal volume (delivered), high/low respiratory rate, apnea (where applicable), circuit disconnect/leak, oxygen delivery faults, and power failure alarms with adjustable thresholds and unmistakable audio/visual indicators. • Power backup battery enabling safe continuation during power interruption (minimum runtime to be specified by bidder and validated at acceptance testing). • Built-in self-test/checkout and clear fault reporting to support rapid troubleshooting.	
	14. Patient circuit and infection prevention (neonatal) • Neonatal patient circuits (low dead space, low compliance) compatible with the ventilator; provision for appropriate filters and humidification • Components and consumables should support safe reprocessing/sterilization practices where applicable and provide clear replacement intervals.	
	15. Integration, connectivity, and data (recommended) • Capability for data export/recording	
	16. Delivery, training, and after-sales requirements • Installation and commissioning. • On-site clinical training the ICU nurses, doctors and clinicians. • Technical training for biomedical engineering personnel.	
	17. Documentation • User manuals and service manual in hard and soft copy format.	
	18. Quality standards and Compliance • Conformity to IEC 60601-1 (basic safety and essential performance for medical electrical equipment).	

	• Conformity to ISO 80601-2-12 (particular requirements for critical care ventilators). • Manufacturer shall provide proof of relevant regulatory approvals/marking applicable to the destination market (e.g., CE conformity or equivalent).	
	14. Warranty • One year after commissioning	
	Local service back up • Local service back up and availability of spare parts for at least 10 years.	

	SYRINGE PUMP	
	1. General Requirements • Microprocessor-controlled, compact syringe pump suitable for precise infusion. • Designed for ICU, operating theatres, emergency rooms, and neonatal units. • Capable of continuous long-term operation.	
	2. Syringe Compatibility • Compatible with 5 mL, 10 mL, 20 mL, 30 mL, and 50/60 mL syringes. • Automatic detection of syringe size and brand. • Manual selection option available.	
	3. Infusion Performance • Flow rate range: 0.1 mL/h to ≥ 1500 mL/h depending on syringe size. • Flow rate accuracy: ±2% or better. • Occlusion pressure: at least 3–5 selectable levels. • Manual/automatic bolus function with adjustable parameters. • KVO (Keep Vein Open) rate adjustable (0.1–5 mL/h)	
	4. Display & User Interface • Large LCD/LED display with high contrast. • Real-time display of volume, rate, pressure, battery status, and syringe size. • User-friendly keypad or touchscreen.	
	5. Alarms & Safety Features • Alarms for occlusion, end of infusion, low volume, dislodgement, low battery, and system errors. • Automatic stop during alarm conditions. • Anti-bolus mechanism to prevent surge after occlusion release. • Free-flow protection when pump door is opened.	

	6. Power Supply Requirements • AC: 100–240 V, 50/60 Hz. • Rechargeable internal battery with ≥6 hours runtime at 5 mL/h using 50 mL syringe. • Low-battery indicator and alarm.	
	7. Mechanical & Construction Features • Lightweight and portable. • Compatible with standard IV pole clamps. • Chemically resistant housing.	
	8. Environmental Requirements • Operating temperature: 10–40°C. • Relative humidity: 15–90% non-condensing.	
	9. Quality Standards & Certifications • Complies with IEC 60601-1, IEC 60601-2-24, ISO 13485. • CE marked or FDA approved.	
	10. Accessories & Consumables • IV pole clamp. • Power adapter and cable. • User and service manuals. • Syringe holders. • Rechargeable battery.	
	11. Training • For Biomedical engineering personnel and the users on maintenance and operation	
	15. Warranty & Support • Minimum 2-year warranty. • Spare parts availability for 7–10 years. • Local technical support.	

	DENTAL CHAIR UNIT	
	1. General Description • A fully integrated dental treatment unit consisting of; ✓ an electrically operated dental chair, ✓ dentist and assistant delivery systems, ✓ operating light, ✓ water and suction systems, and ✓ an oil-free dental air compressor. ✓ Designed for routine clinical dentistry procedures.	
	2. Dental Chair 2.1 Construction & Design • Motor-driven chair with smooth, quiet operation. • Stable, heavy-duty frame. • Seamless, easy-to-clean upholstery. • Rotatable/adjustable armrest(s) for patient entry/exit.	

	• Ergonomic design suitable for adult and pediatric patients	
	2.2 Chair Movement • Vertical height adjustment range: Approx. 380–800 mm. • Backrest recline: 0° to at least 70°. • Trendelenburg/near-flat position capability. • Headrest adjustable (double-articulating)	
	2.3 Load Capacity • Minimum patient load capacity: ≥ 135–200 kg	
	2.4 Control System • Foot control for chair movements and instrument activation. • Assistant and operator panel controls. • Pre-set chair positions (e.g., entry, working, rinse, emergency stop)	
	3. Dentist Delivery Unit (Operator's Side) 3.1 Instrumentation • Minimum 3 to 5 instrument holders, including: ✓ High-speed air turbine hand piece line. ✓ Low-speed hand piece air motor line. ✓ 3-way air/water syringe ✓ With Built-in ultrasonic scaler. ✓ With Built-in LED light curing unit	
	4. Assistant's Delivery System • Saliva ejector suction • High-vacuum suction (HV suction) • 3-way syringe • Flush and cleaning controls • Adjustable assistant arm	
	5. Operating Light • LED light • Intensity ≥ 8,000 – 30,000 lux, adjustable • Shadow less illumination • Multi-position adjustable arm	
	6. Water and Hygiene System • Rotatable ceramic or glass spittoon • Cup filler and bowl rinse • Anti-retraction valves on hand piece lines • Clean water bottle system or direct water connection • Autoclavable instrument holders and detachable components • Tubing compatible with disinfection agents	
	7. Suction System • Integrated suction with collection bottle or direct drainage • Dual suction: ✓ Low-volume saliva ejector ✓ High-vacuum suction (≥ 300 L/min recommended) ✓ Easy-clean filters and waste separators ✓ amalgam separator compliance	

	8. Air Compressor (Included) • Oil-free, dental-grade compressor • Tank capacity: 30–60 L (single chair) • Air delivery capacity: 50–100 L/min • Working pressure: 5–8 bar (70–115 PSI) • Noise level: ≤ 60–70 dB • Moisture/particle filters included • Automatic pressure control and safety valve • Single-unit compatible or small clinic use	
	9. Power Supply Requirements • Input voltage: 220–240 V AC, 50/60 Hz • Power consumption: ≤ 1,000–2,000 W (full system) • Surge protection provided	
	10. Safety and Quality Standards • ISO certification for dental equipment (e.g., ISO 7494-1) • CE or equivalent regulatory compliance • Electrical safety: IEC 60601-1 compliance • Water line anti-retraction safety features	
	11. Standard Accessories • Dentist's stool (ergonomic) • Dental Assistant's stool • Instrument tray • Foot control • Tubing set • Dental amalgamator	
	16. Installation, commissioning & Training • Installation, testing & commissioning to the satisfaction of the users. • For Biomedical engineering personnel and the users on maintenance and operation	
	17. Documentation • Operation manuals and installation guides. • Service manuals and both in English.	
	18. Warranty Manufacturer's warranty: Minimum 1 year after commissioning.	

	DENTAL SCALER UNIT	
	1. General description A dental scaler is a crucial tool in oral care, used to remove plaque, tartar, and stains from teeth. •	
	2. Performance specifications • The scaler should be based on piezo technology. • Have a clear digital display of all operating parameters. • Have easily accessible and adjustable controls.	

	• Have two interchangeable reservoir bottles with independent pumps. • Automatically adjusts the frequency based on the loading at the tip. • Have ergonomic and autoclavable hand piece. • Have memory function for user settings. • Have 360°-foot control with cord length 4 metres or longer. •	
	3. Accessories • Autoclavable tips for scaling- 6 No. (including 3 flat tips) and root planning- 2 No. (curved). • Reservoir bottles – 3 No. • Sterilization case – 2 No. • Tip wrench with torque limiter – 2 No. • Sturdy portable stand with granite top for mounting the unit and racks for storing the accessories. • Portable distilled water unit with capacity of at least 4 litres per day. Main and collection bottle should be made of durable plastic and easily changeable filter and residue cleaner. • Voltage stabilizer suitable for the unit. • Accessories should be available for at least 10 years.	
	4. Training For Biomedical engineering personnel and the users on maintenance and operation	
	5. Installation, testing and commissioning Installation, testing and commissioning to the satisfaction of the users.	
	6. Documentation • Operation manuals and installation guides. • Service manuals and both in English.	
	7. Quality Standards and compliance Should be CE/US-FDA /ISO compliant or certified as applicable.	
	8. Warranty Manufacturer's warranty: Minimum 1 year after commissioning.	

	SPINAL NEEDLE	
	Material	Stainless steel, ABS, UV adhesive
	Type	Quinke, pencil
	Gauge	22 and 25
	Length	90,103,120 and 150

		With or without guide (aspiration cannula)

Item Description			**Bedside cabinet trolley**
Department		Room Name/No.	

1. General Description
A compact, mobile storage unit designed for healthcare facilities. It provides easy-access shelves, a draw-over drawer, and a lockable top surface for patient-side items such as medications, personal belongings, and medical devices. The trolley rolls on smooth-gliding wheels, allowing caregivers to bring essential supplies directly to the bedside.

2. Composition
2.1. Bedside Cabinet trolley – 1 No.

3. Performance Specifications

3.1	- Frame Material: Powder-coated steel (corrosion-resistant) - Overall Dimensions (W × D × H): about 45 cm × 35 cm × 80 cm - Weight (empty): Approx. 12 kg. - Load Capacity: About 30 kg. - Shelves: 2 adjustable stainless-steel shelves. - Drawer: Single lockable draw-over drawer. - Top Surface: Laminated, wipe-clean, with raised edge to prevent items from sliding. - Wheels: 4 × 75 mm polyurethane wheels; front wheels lockable, rear wheels swivel for easy maneuvering. - Safety Features: Rounded edges, anti-tip brackets for wall mounting, lockable drawer, non-slip base pads. - Cleaning: Surface compatible with hospital-grade disinfectants.

4	Quality standards	
4.1	Manufacturing standards	- Compliance: Meets ISO 13485, CE-marked for medical devices, FDA-registered (Class I).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Warranty	
6.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Sims Speculum Set**
Department	Theatre	Room Name/No.	

1. General Description
A Sims Speculum Set is a gynecological instrument used to visualize the vaginal canal and cervix during examinations, minor procedures, or IUD insertions.

2. Composition

2.1	Sims Speculum Set	1 Set.

3. Performance Specifications		
3.1		Material – Stainless steel (grade 304 or 316) for durability, corrosion resistance, and autoclavability. Blade configuration; - Sims (duck-bill) design with two hinged blades that opens in V-shape. - Blade lengths: About 70 mm, 90 mm, 110mm. - Blade widths: narrow (20mm), medium (25mm), wide (30mm). Handle; - ergonomic, knurled grip for secure hold, - Integrated locking ratchet to maintain blade position without continuous pressure. Sterilization; - Fully autoclavable (121°C, 15 psi, 15 min). Dimensions; - L x W x H; 150mm x 30 mm x 20 mm. Weight; - Approximately 120 g per speculum.
4	Quality standards	
4.1	Manufacturing standards	Meets ISO 13485 and ISO 9001 (quality standards)
4.2	Conformity to standards	Compliant with CE marking for medical devices (Class 1)
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Warranty	
6.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Spot light**
Department	Theatre/Wards	Room Name/No.	
1. General Description A compact, battery powered LED lamp that delivers bright, focused illuminations for routine clinical examinations, minor procedures and bedside assessments.			
2. Composition 2.1 Spot light		1 No.	
3. Performance Specifications			- High efficiency white LED, 10W total output. - Color temperature: 5,200 K ±300 K - Illuminance: Up to 45,000 Lux at 30 cm working distance. - Beam size: Continuously variable from 3 cm to 12 cm diameter at 30 cm (focus ring). - Power: Rechargeable lithium-ion battery (3.7V, 2 Ah) – 2 hours continuous use. - Controls: Single button on/off with dimming steps. - Housing: Impact resistance ABS with antimicrobial coating. - Weight; Approx. 180 g - Dimensions: L x W X H; 130 mm x 45 mm x 80 mm. - Operating temperature; 5°C - 40°C.

		- Sterilization; Removable, Autoclavable lens cap. - Accessories; Spare lens cap, charging unit, protective carry pouch.
4	Quality standards	
4.1	Manufacturing standards	Regulatory compliance; IEC 606001-1,
4.2	Conformity to standards	CE marked.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing Complete installation and set-up as per manufacturer's instructions	
7	Commissioning	
7.1	Testing and commissioning of the devices to the satisfaction of the user.	
8	Warranty	
8.1	Equipment	Minimum of one year after commissioning.

Item Description			**Stitch removing set**
Department		Room Name/No.	

1. General Description

A compact, sterile instrument kit designed for safe and efficient removal of sutures and staples after wound healing.

2. Composition

2.1 Stitch removing set 1 Set.

3. Performance Specifications

- Components;
- 1 x stainless steel suture removal scissors (sharp, curved blade, 12 cm).
- 1 x Stainless steel suture removal forceps (fine-toothed, 12 cm).
- 1 x Stainless steel staple remover (single use, disposable).
- 1 x Stainless steel needle holder, 12 cm.
- 1 x Sterile gauze pads (5 x 5, 10pcs).
- 1 x disposable gloves (size M, 1 pair)
  Material;
- Surgical grade stainless (AISI) 304/316) for instruments; autoclavable at 121°C, 15 psi for 15 min.
- Gauze; 100% cotton, lint-free.
- Dimensions (closed tray);
- L X W x H; 18 cm x 12 cm x 4 cm.
- Weight; Approx. 250 g (including tray).
- Sterility; Instruments supplied sterile in sealed blister packs, tray is autoclavable for re-sterilization.
- Packaging; Rigid, reusable ABS tray with foam inserts.

4	Quality standards	
4.1	Manufacturing standards	Compliance; meets ISO 13485, ISO 9001.IEC 606001-1,
4.2	Conformity to standards	CE marked (Class I medical device).
5	Delivery point	
5.1	See Schedule	For inspection and testing

6	Commissioning	
6.1	Testing and commissioning of the devices to the satisfaction of the user.	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Surgical set – minor surgery**
Department		Room Name/No.	

1. General Description

A compact, sterile instrument tray that contains all the tools needed for common outpatient procedures such as excisions, biopsies, lacerations repairs and I-D insertions.

2. Composition

2.1 Surgical set – minor surgery 1 Set.

3. Performance Specifications

3.1

Case;

- Rigid, autoclavable, ABS tray with snap-lock lid and foam insert to hold each instrument securely.
- External dimensions; 30 cm x 20 cm x 8 cm.
- Weight; About 0.9 Kg (empty).

Instruments (stainless steel, surgical grade 304/316, autoclavable)

- Scapel handle #3 (compatible with #10, #11, #15 blades – 1pc
- Needle holder, 12 cm, serrated jaws – 1pc.
- Tissue forceps, 12 cm, toothed – 1 pc
- Dressing forceps, 12 cm, smooth – 1pc
- Curved Metzenbaum scissors, 12 cm – 1 pc
- Straight Mayo scissors, 12 cm – 1 pc
- Hemostatic forceps (Carter-Babcock), 12 cm – 1pc
- Suture scissors, 10 cm – 1 pc
- Probe/needle, 10 cm – 1 pc
- Small towel clips, 5 cm – 2 pcs
- Disposable scapel blades (10, 11, 15) – 5pcs each.
- Kidney dish, 25 cm 14 cm x 40 cm - 1pc
- Sterile gauze pads, 5 x 5 cm – 10 pcs
- Sterile gloves (size M) – 1 pair.

Sterilization;

- Full set autoclavable at 121°C, 15psi for 15 min.
- Instruments supplied in sealed, sterilized blister packs, tray should be sterilizable.

4	Quality standards	
4.1	Manufacturing standards	Compliance; meets ISO 13485, ISO 9001.IEC 606001-1,
4.2	Conformity to standards	CE marked (Class I medical device).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Commissioning	
6.1	Testing and commissioning of the devices to the satisfaction of the user.	
7	Warranty	

7.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Surgical set – General surgery**
Department		Room Name/No.	

1. General Description

A comprehensive stainless steel tray that contains the core instruments required for a wide range of open and laparoscopic general surgery procedures.

2. Composition

2.1 Surgical set – General surgery 1 Set.

3. Performance Specifications

Tray and Case;

- Material: Autoclavable, impact resistant polypropylene with silicone lined compartments.
- Dimensions; About 38 cm x 28 cm x 10 cm.
- Weight; About 1.4 Kg (empty).
- Lid: Snap-lock, sealed for steam sterilization.

Instruments (stainless steel, surgical grade 304/316,fully autoclavable)

- Scalpel handle #3 (compatible with #10, #11, #15 blades – 1pc
- Needle holder, 12 cm, serrated jaws – 2pcs.
- Tissue forceps, 12 cm, toothed – 2 pcs
- Dressing forceps, 12 cm, smooth – 2ps
- Curved Metzenbaum scissors, 12 cm – 2 pcs
- Straight Mayo scissors, 12 cm – 2 pcs
- Hemostatic forceps (Crile), 12 cm – 4pcs
- Kelly clamp, 12 cm – 4 pcs
- Allis tissue clamp, 12 cm – 2 pcs
- Babcock intestinal forceps, 12 cm – 2 pcs
- Right angle (Mixter) clamp, 12 cm – 2 pcs
- Small tower clips, 5 cm – 4 pcs
- Probe/needle, 10 cm – 2 pcs
- Suction tip (Yankauer), stainless – 1 pcs
- Retractor set (Weitlaner, 6 cm; Army-Navy, 6 cm) – 2 pcs each
- Disposable scalpel blades (10, 11, 15) – 5pcs each.
- Kidney dish, 25 cm 14 cm x 40 cm - 1pc
- Sterile gauze pads, 5 x 5 cm – 10 pcs
- Sterile gloves (size M) – 1 pair.

Sterilization;

- Full set autoclavable at 121°C, 15psi for 15 min.
- Instruments supplied in sealed, sterilized blister packs, tray should be sterilizable.

4	Quality standards	
4.1	Manufacturing standards	Compliance; meets ISO 13485, ISO 9001.IEC 606001-1,
4.2	Conformity to standards	CE marked (Class I medical device).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Commissioning	

6.1	Testing and commissioning of the devices to the satisfaction of the user.	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Heavy duty handled poly scooter board (square) 406 X 406 cm**
Department	Occupational Therapy	Room Name/No.	

1. General Description

A robust, low profile scooter board made from high-density polyethylene (HDPE) with a reinforced steel handle designed for hospital rehabilitation. It lets the patients move safely across flat surfaces while seated of kneeling, reducing strain on staff and promoting independent mobility.

2. Composition

2.1	Heavy duty handled poly scooter board (square) 406 X 406 cm	1 No.

3. Performance Specifications

- Material; About 6 mm thick HDPE with UV-stabilizer, slip resistant surface.
- Frame; galvanized steel handle with ergonomic rubber grips, bolted to the board.
- Dimensions; 406 cm x 406 cm.
- Weight capacity; Approx. 200 Kg.
- Wheels/castors; 4 x polyurethane castor wheels, 100 mm diameter, lockable swivel.
- Finish; smooth, easy to clean surface; chemical-resistant to disinfectants.
- Material thickness; 6 mm HDPE core, 1 mm reinforced edge.
- Handle height; 90 cm from floor, adjustable 5 cm range.
- Load distribution; even across four castors.
- Packaging; single board per crate.

4	Quality standards	
4.1	Manufacturing standards	Meets ISO 7176-1/2 for medical equipment, ISO 9001
4.2	Conformity to standards	CE marked.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Commissioning	
61	Testing and commissioning of the devices to the satisfaction of the user.	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning.

Item Description			**Parallel Bar**
Department	Physiotherapy	Room Name/No.	

1. General Description

A sturdy, adjustable parallel bar system designed for gait training, balance work, and functional strengthening..

2. Composition

2.1 Parallel Bar 1 No.

3. Performance Specifications

- Frame material; 304 stainless steel, powder coated for corrosion resistance.
- Bar material; 25 mm diameter, 2 mm wall thickness, stainless steel, smooth finish.
- Overall dimensions; L x W x H ; 2.5 m x 9.0 m x 1.2 m (adjustable).
- Adjustable height; 0.7 m to 1.2 m in 5 cm increments; lock pin mechanism for secure positioning.
- Weight capacity; 200 Kg
- Mounting options; Floor mounted base with anti-slip pads.
- Base size; 0.6 m x 0.6 m, 10 mm thick steel plate with four castor wheels (lockable) for mobile use.
- Surface; Textured grip coating on bars to improve hand hold; easy clean finish resistant to hospital disinfectants.
-

4	Quality standards	
4.1	Manufacturing standards	Meets ISO 7176-1/2 standards for medical rehabilitation equipment.
4.2	Conformity to standards	CE marked.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up as per manufacturer's instructions	
7	Commissioning	
7.1	Testing and commissioning of the devices to the satisfaction of the user.	
8	Warranty	
8.1	Equipment	Minimum of one year after commissioning.

Item Description			**Polyethylene Head Rest**
Department	Physiotherapy	Room Name/No.	

1. General Description

A lightweight, contoured head-rest molded from high-density polyethylene (HDPE). It provides stable, comfortable support for patients during seated or supine therapy, wheelchair transfers, and imaging procedures.

2. Composition

2.1 Polyethylene head rest 1 No.

3. Performance Specifications

- Material; 100% high-density polyethylene, 6 mm wall thickness; UV-stabilized, antimicrobial additive.
- Dimensions; 45 cm x 30 cm x 12 cm (L X W X H), contour depth 5 cm.
- Weight; About 1.2 Kg
- Load capacity; About 120 Kg
- Surface; smooth, non-porous finish, low friction for easy

		cleaning. - Mounting; 75 mm V-slot bracket compatible with most therapy tables, wheelchair frames, and imaging crades. - Sterilization; autoclavable at high temperatures up to 121°C for 15 min. - Packaging; individually packed.
4	Quality standards	
4.1	Manufacturing standards	Meets ISO 7176-1/2 standards for medical rehabilitation equipment.
4.2	Conformity to standards	CE marked.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing Complete installation and set-up as per manufacturer's instructions	
7	Commissioning	
7.1	Testing and commissioning of the devices to the satisfaction of the user.	
8	Warranty	
8.1	Equipment	Minimum of one year after commissioning.

Item Code No.		Item Description	**Portable mirror**
Department	Physiotherapy	Room Name/No.	

1. General Description

A lightweight, adjustable mirror that can be positioned vertically or horizontally to provide real-time visual feedback during gait training, balance exercises, or posture correction.

2. Composition

2.1 Portable mirror 1 No.

3. Performance Specifications

Frame & housing;

- ✓ 1.5 mm anodized aluminum frame, powder coated white for corrosion resistance.
- ✓ Impact resistant polycarbonate enclosure, UV-stable.

Mirror surface;

- 4 mm tempered glass, 95% reflectivity, distortion free.
- Anti-scratch coating; easy to wipe with standard hospital disinfectants.

Dimensions;

- Mirror area: 60 CM X 40 CM
- Overall width with frame: 65 cm; Height: 45 cm: 2.5 cm.

Adjustability;

- Swivel-tilt head: 0 - 90° vertical tilt, 360° rotation.
- Height adjustment via telescopic stand: 90 cm – 150 cm with lock pin.

Mounting;

- Wall-mount bracket

		Weight; - Mirror assembly; About 2.2 Kg
4	Quality standards	
4.1	Manufacturing standards	Meets ISO 7176-1/2 standards for medical rehabilitation equipment.
4.2	Conformity to standards	CE marked.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing Complete installation and set-up as per manufacturer's instructions	
7	Commissioning	
7.1	Testing and commissioning of the devices to the satisfaction of the user.	
8	Warranty	
8.1	Equipment	Minimum of one year after commissioning.

Item Description			**Sitting Aid**
Department	Physiotherapy	Room Name/No.	

1. General Description

A compact, adjustable device that helps patients transition from supine to seated and maintain an upright posture during therapy.

2. Composition

2.1	Sitting Aid	1 No.

3. Performance Specifications

- Frame material; 25 mm diameter, 2mm wall, 304 stainless steel tubing, powder coated white.
- Seat surface: 12 mm high density polyethylene (HDPE) molded seat, contoured for even pressure distribution.
- Weight capacity; About 150 Kg.
- Dimensions; seat adjustable 45 cm – 70 cm; seat depth 35 cm; width 45 cm.
- Adjustability: Telescopic leg supports with lock pin; back rest tilt 0° - 30°; footrest height 10 cm – 20 cm.
- Portability; Two lockable castor wheels (75 mm) and a fold-flat handle; total weight about 7 Kg.
- Safety features; Non-slip rubber feet on the base, round edges, and a secure harness strap.
- Cleaning; smooth, non-porous surfaces compatible with hospital disinfectants.
-

4	Quality standards	
4.1	Manufacturing standards	Meets ISO 7176-1/2.
4.2	Conformity to standards	CE marked.
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing Complete installation and set-up as per manufacturer's instructions	
7	Commissioning	
7.1	Testing and commissioning of the devices to the satisfaction of the user.	
8	Warranty	

8.1	Equipment	Minimum of one year after commissioning.

Item Description			**Stainless scrub table**
Department	Theatre	Room Name/No.	

1. General Description

A robust, fully welded stainless steel work surface designed for surgical scrub areas, instrument preparation, and sterile handling.

2. Composition

2.1 Stainless scrub table 1 No.

3. Performance Specifications

Frame & Tabletop

- 18-gauge (1.2 mm) 304 stainless steel, fully welded, polished.
- Reinforced underside with 2 mm cross-braces for a 250 kg static load rating.
- Integrated, raised edge (10 mm) to contain fluids.

Dimensions

- Standard size: 180 cm × 60 cm × 90 cm (L × W × H).
- Lengths available in 30 cm increments; height adjustable 80–100 cm via telescopic legs.

Legs & Base

- 40 mm × 40 mm square stainless-steel legs, welded to the frame.
- Adjustable foot pads with silicone inserts for leveling and floor protection.

Work Surface

- Flat, non-porous, easy-to-clean surface; no seams or crevices.

Accessories

- Removable stainless-steel instrument tray (30 cm × 20 cm).
- Integrated waste bucket holder (15 L) with removable liner.
- Side rails (25 mm) for attaching sterile drapes or equipment brackets.

Cleaning & Sterilization

- Compatible with all standard hospital disinfectants.
- Autoclavable components (tray, bucket) up to 121 °C for 15 min.

4	Quality standards	
4.1	Manufacturing standards	Compliance to ISO 9001, ISO 13485.
4.2	Conformity to standards	CE marked (Class I medical device).
5	Delivery point	
5.1	See Schedule	For inspection and testing

6 Installation and testing

Complete installation and set-up as per manufacturer's instructions

7 Commissioning

7.1 Testing and commissioning of the devices to the satisfaction of the user.

8	Warranty	
8.1	Equipment	Minimum of one year after commissioning.

Department	Imaging	Room Name/No.	Imaging
Item Code No.	MOH-FA-3-06	Item Description	**Digital Mobile X –Ray Unit**

1. General Description Mobile X-ray unit, digital type, on castors and having a rotating anode standard tube. It should be easy to maneuver and control and capable of undertaking bedside and theatre radiography. Should also incorporate a cassette storage chamber with a minimum capacity of 5 Flat Panel detectors		
2. Composition		
2.1	X-Ray Generator	
2.2	X-Ray Tube	
2.3	Digital cassettes	
3. Performance Specifications		
3.1	X-Ray Generator	
3.1.1	Type Frequency	Microprocessor controlled, Maximum power rating 40-50W 40KHz
3.1.2	Anatomic programmes	Available
3.1.3	DAP	To be provided
3.1.4	mAs range	0.2mAs to 300mAs at 90 KV and 0.2 mAs to 50 mAs at 125KV
3.1.5	Control Panel	Touch Screen type with 19" LED/ LCD Digital display of parameters.
3.2	X-ray tube	
3.2.1	Type	Rotating anode type
3.2.2	Tube voltage range	40 to 150 kV.
3.2.3	Tube current	Not less than 125mA
3.2.4	Focal	0.6/1.2 duo focal spot
3.2.5	Anode heat storage	Min 300KHU
3.2.6	Collimator	Manual operation without screen with DAP assembly interface
3.3	Detector	Flat panel, wireless FPD Minimum size 14 X17 HD static type
3.4	Software	APR photography
3.4.1	Operating system	Minimum WIN 10 professional 64 bit
3.5.	Connectivity	DICOM 3.0 compatible with USB port, Wireless connection compatibility, Ethernet Port
3.6	Physical characteristics	Mobile on castors Ø 120 mm with brakes Electric assisted with anti-collision function
5	Operating environment	
5.1	Power Requirements	240V, a/c 50 Hz, Single phase, with PE conductor
5.2	Ambient temperature	10° C to 40° C
5.3	Relative humidity	40% to 90%
6	Accessories	
6.1	External Hard Disk, USB 3.0, 1000GB	
7	Spare parts Manufacturer's recommended service kit for one year	

9	Quality standards	
9.2	Manufacturing standards	IEC 60601-1, ISO 9001, ISO 13485or any other internationally recognized standards
	Conformity to standards	CE marked or any other internationally recognized documents
11	Delivery point	
11.1	See Hospital Schedule.	For delivery, inspection and testing, installation and commissioning
12	Pre installation requirements Nil .	
13	Installation and testing Complete installation and set up of the Mobile X-Ray Machine as per manufacturer's instructions	
14	Training	
14.1	User Training	On site user training on operation and daily up keep for 3 weeks
14.2	Maintenance training	On site maintenance training on preventive maintenance
15	Technical documentations	
15.1	User manuals	2 Sets
15.2	Service Manual	1 Set
15.3	Drawings	Nil
16	Commissioning	
16.1	Testing and commissioning of the machine including calibration and radiation testing to the satisfaction of the user.	
17	Warranty	
17.1	Equipment	Minimum of one year after commissioning on all parts.
17.2	Equipment System	Nil
18.	Maintenance contract	
18.1	Capacity to provide maintenance and repair service	Vendor/manufacturer shall have adequate facilities, spare parts, qualified and skilled technical staff to offer comprehensive maintenance contract for 10 years

Item Description			**Temporary pacemaker**
Department		Room Name/No.	
1. General Description A temporary cardiac pacing system used for rhythm support. It consists of an external pulse generator connected to a pacing lead that is inserted transvenous. The device delivers programmable electrical impulses to maintain an adequate heart rate when the native condition is compromised.			
2. Composition 2.1 Temporary pacemaker 1 No.			
3. Performance Specifications ***Pulse generator***			

- Type; External, battery powered, portable unit.
- Dimensions; Approx.12 cm x 8 cm x 3 cm
- Weight: Approx. 250g
- Power source: Rechargeable lithium-ion battery (≥ 24 h continuous pacing.
- Display: LCD with pacing mode, rate, output, and battery status.

Pacing modes;
- VVI, AAI, DVI, DDD, DOO, and asynchronous (fixed-rate) modes.
- Rate range: 30 – 180 ppm (adjustable in 5 ppm steps).
- Pulse width: 0.1 – 2.0 ms (0.1 ms increments).
- Output amplitude: 0.1 – 20 mA (0.1 mA steps).

Lead System;
- Type: Single or dual chamber transvenous pacing leads
- Material: Polyurethane or silicone insulation, stainless steel or platinum-iridium conductor.
- Fixation: Passive (tapered tip) or active (screw in).
- Connector: 2 mm ISO plug.

Safety feature;
- Over-current protection, lead integrity monitoring, and automatic pacing threshold test.
- Audible and visual alarms for lead disconnection, low battery, and pacing inhibition.

4	Quality standards	
4.1	Manufacturing standards	Regulatory compliance; IEC 606001-1(medical electrical safety), ISO 13485 quality management
4.2	Conformity to standards	CE marked (Class IIa).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up as per manufacturer's instructions	
7	Commissioning	
7.1	Testing and commissioning of the devices to the satisfaction of the user.	
8	Warranty	
8.1	Equipment	Minimum of one year after commissioning.

Item Description			**Endo motor**
Department	Dental	Room Name/No.	

1. General Description

A compact, high precision rotary handpiece designed for shaping root canals during endodontic therapy. It provides consistent torque and speed control, ergonomic handling, and a range of programmable settings to suit different file systems and canal anatomies.

2. Composition

2.1	Endo motor	1 No.

3. Performance Specifications

- Power source; Rechargeable battery (3.7V, A Ah), mains adapter (220-240V, 50/60 Hz).
- Battery life; Up to 4 hours continuous use.
- Speed range; 100 – 2,500 rpm (adjustable in 10 rpm steps).
- Torque range; 0.5 – 6.0 N cm (0.1. N cm increments).
- Torque accuracy; ± 0.1 N cm.
- Motor type; Brushless DC, quiet (< 45 dB).
- Weight; Approx. 180 g
- Dimensions; L x W x H; 150 mm x 45 mm x 30 mm.
- Display; 2" colour LCD, displays speed, torque, battery level and programme name.
- Programme presets; Up to 10 user defined programs (speed, torque, auto-reverse settings).
- Auto-reverse; Adjustable threshold (30% - 80% of set torque) with selectable reverse time (0.2 – 2s).
- Cooling; integrated water spray port.
- Sterilization; Hand-piece autoclavable at 121°C, 15 psi at 15 min.
- Compatibility; Accepts standards 2.35 mm (ISO) rotary files.
- Safety features; Over-heat protection, torque limit alarm.

4	Quality standards	
4.1	Manufacturing standards	Regulatory compliance; ISO 13485,
4.2	Conformity to standards	CE marked (Class IIa).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up as per manufacturer's instructions	
7	Commissioning	
7.1	Testing and commissioning of the devices to the satisfaction of the user.	
8	Warranty	
8.1	Equipment	Minimum of one year after commissioning.

Item Description			**Dental instrument set**
Department	Dental	Room Name/No.	

1. General Description

A compact, stainless-steel tray that contains the essential hand-pieces and accessories needed for routine examinations, restorative work, and minor surgical procedures in a dental clinic.

2. Composition

2.1 Dental instruments set 1 Set.

3. Performance Specifications

Case;

- Material; Autoclavable polypropylene with silicone-lined compartments.
- Dimensions; Approx. 28 cm x 18 x 8 cm.
- Weight; Approx. 800 g.

Instruments (all 304/316 surgical grade stainless steel, fully autoclavable).

i. Mouth mirror, round, 5 cm – 2 pcs
ii. Explorer, double-ended, 5 cm – 2 pcs
iii. Periodontal probe, 3 mm markings, 5 cm – 2 pcs
iv. Dental tweezers, fine, 5 cm – 2 pcs
v. Cotton pliers, 5 cm – 1 pc
vi. Scissors, crown-cutting, 5 cm -1 pc
vii. Scapel handle #3 (compatible with #10, #11, #15 blades) – 1 pc
viii. Needle holder, 5 cm, serrated jaws – 1 pc
ix. Matrix retainer, stainless, 5 cm – 1 pc

- Amalgam condenser, 4 mm tip – 1 pc
- Excavator, double ended, 5 cm – 1 pc
- Burnisher, stainless, 5 cm – 1 pc
- Disposable scapel blades (#10, #11, #15) – 5 pcs each
- Gauze pads, 5 x 5 cm – 10 pcs
- Sterile gloves (size M) – 1 pair

Sterilization;

- Full set autoclavable at 121°C, 15 psi for 15 min.

4	Quality standards	
4.1	Manufacturing standards	Regulatory compliance; ISO 13485, ISO 9001
4.2	Conformity to standards	CE marked (Class I medical device).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Commissioning	
61	Testing and commissioning of the devices to the satisfaction of the user.	
7	Warranty	
7.1	Equipment	Minimum of one year after commissioning.

Item Description			**Autoclave, 28 litres**
Department		Room Name/No.	

1. General Description

A compact, bench-top steam sterilizer designed for hospitals, labs and dental clinics that need to process medium-size loads quickly and reliably. The unit uses saturated steam at 121 °C (or 134 °C for rapid cycles) to achieve full sterilization in a 28-litre chamber.

2. Composition

2.1 Autoclave, 28 litres 1 No.

3. Performance Specifications

- Chamber volume: 28 L (approximately 28 × 28 × 35 cm)
- Construction: 304 stainless-steel interior and exterior, polished finish, double-walled with insulated jacket for energy efficiency
- Maximum operating pressure: 2.1 bar (30 psi)

	- Temperature range: 105 °C – 134 °C, selectable - Standard cycles: 121 °C for 15 min (wrapped instruments), 134 °C for 3 min (flash) – both with pre-vacuum and post-vacuum phases - Control system: Micro-processor-based digital controller with LCD display, password-protected settings, automatic cycle abort and alarm functions. - Power supply: 220-240 V, 50/60 Hz, 2.5 kW (peak). - Heating: Electric immersion heater, 2 kW, rapid heat-up (≈ 12 min to 121 °C) - Door: Hinged, lockable with safety interlock; silicone gasket for leak-tight seal - Drain & water supply: Front-mounted drain valve; built-in water reservoir (≈ 5 L) with automatic fill and level sensor; connection to external de-ionized water line. - Safety features: Over-pressure relief valve, temperature sensor redundancy, door-open prevention, audible/visual alarms - Dimensions (W × D × H): 48 cm × 55 cm × 70 cm - Weight: Approx. 45 kg.	
4	Quality standards	
4.1	Manufacturing standards	Regulatory compliance; EN 13060, ISO 13485
4.2	Conformity to standards	CE marked (Class II).
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up as per manufacturer's instructions	
7	Commissioning	
7.1	Testing and commissioning of the devices to the satisfaction of the user.	
8	Warranty	
8.1	Equipment	Minimum of one year after commissioning.

Item Description			**Handheld mobile electrostatic sprayer**
Department		Room Name/No.	
1. General Description A hand sprayer that provide 4 hour runtimes for fast efficient disinfection, wrapping charged particles around surfaces for complete coverage, using 60 to 80 micron nozzles for even misting and covering large area quickly. For wards and general areas.			
2. Composition 2.1. Electrostatic sprayer.			
3. Performance Specifications 3.1			-cordless - Power Source: chargeable lithium battery to run 3 to 5 hour - charge time: maximum 1 hour -nozzle size: 60 to 80 micron -spray distance: 2 to 7 feet - coverage per tank: minimum 800 square feet - coverage per charge: maximum 55,000 feet - coverage degree: 250 to 360 degrees - weight: 1.5 to 3kg - provide the technical data sheet

4	Quality standards	
4.1	Manufacturing standards	- Regulatory Compliance: ISO 9001, EN 50059, CE approved
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set-up of the machine as per manufacturer's instructions	
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Handheld mobile electrostatic sprayer applied chemical composition and specification**
Department		Room Name/No.	
1. General Description The product to be use by the Handheld mobile electrostatic sprayer. Highly effective against wide spectrum of micro-organisms – bacteria, fungi, virus, spores, protozoa etc. A certified disinfectant for surfaces, environment, equipment and medical installation			
2. Technical Composition of the product 2.1. 20 -25% hydrogen peroxide, 6-8% acetic acid, 4-5% peracetic acid, OX-VI core, excipients and water			
3. Performance Specifications 3.1		- Highly effective against wide spectrum of micro-organisms – bacteria, fungi, virus, spores, protozoa etc. - package- available in container of 5 litres - biodegradable, non-toxic, non-corroding, non-residue, non-allergic and environment friendly - Provide the material safety data sheet for the product	
4	Quality standards		
4.1	Manufacturing standards	- Regulatory Compliance: ISO 9001, EN 1276,1656	
5	Delivery point		
6	Technical documentations		
7	User manuals	1 Sets	

8		
9	Warranty	
10	Equipment	

Item Description			**Mobile misting system**
Department		Room Name/No.	

1. General Description

A room and surface disinfection device to disinfect theatre, ICU and NICU, PICU areas and medical laboratory and for area that requires highly sterilization. Used in inaccessible area

2. Composition

2.1. Disinfection device

3. Performance Specifications

3.1 GENERAL CHARACTERISTICS

- portable with wheels
- Power Source: Plug in
-diffusion nozzles: 2 in number
- maximum volume for treatment:1800-2000 cubic meters
- rotation speed: 20,000 – 22,000 trs/min
- average liquid flow rate: 1800 -2000 ml/hour
- output speed: 60-80m/s
- weight: 30-35kg
- uses bottle cartilage
- fully automated and used in combination with biodegradable disinfectant
- remote controlled and operating distance up to 20 metres
- provide the technical data sheet

OPERATING CONDITON

- Temperature: 0-45 degree centigrade
- Ambient humidity: 10-100%
- Atmospheric pressure: 800-1060 hPa

ELECTRICAL CHARACTERISTICS

- Voltage: 230/240V
- Power: 1500-2000W
- Frequency: 40-65 Hertz

4	Quality standards	
4.1	Manufacturing standards	- Regulatory Compliance: CE- ISO 9001, EN 17272
5	Delivery point	
5.1	See Schedule	For inspection and testing
6		
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance	On-site maintenance training on preventive maintenance

	training	
8	Technical documentations	
8.1	User manuals	1 Sets
9	Commissioning	
9.1	Testing and commissioning of the devices to the satisfaction of the user.	
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.

Item Description			**Mobile misting system applied chemical composition and specification**
Department		Room Name/No.	
1. General Description The product to be use by the Mobile misting system. Highly effective against wide spectrum of micro-organisms – bacteria, fungi, virus, spores, protozoa etc. A certified disinfectant for surfaces, environment, equipment and medical installation			
2. Technical Composition of the product 2.1. stabilized hydrogen peroxide in solution 4 -6.5% silver 15-18ppm			
3. Performance Specifications 3.1 - Highly effective against wide spectrum of micro-organisms – bacteria, fungi, virus, spores, protozoa etc. - package- available in bottle of at least 2 litres - biodegradable, non-toxic, non-corroding, non-residue, non-allergic and environmentally friendly - Provide the material safety data sheet for the product			
4	Quality standards		
4.1	Manufacturing standards	- Regulatory Compliance: ISO 9001, EN 1276,1656	
5	Delivery point		
8	Technical documentations		
8.1	User manuals	1 Sets	
9.1			
10	Warranty		
10.1	Equipment		

ITEM DESCRIPTION	**Handheld ultrasound transducer**
Category	**Requirement description**
Technology	Chip-based Ultrasound (CMUS)
Form factor	Handheld

Compliant with	DICOM 3.0 IEC 60601-1
Regulatory Clearance	FDA & CE Mark
Probe Types	Single Probe with following functionalities - Linear - Convex - Phased
Probe Frequencies	Range between 1 - 10 MHz
Scan depth	Range between 1 - 30 cm
Scan Modes	3D/4D B-mode (2-D) Tissue harmonic imaging M-mode Color Doppler imaging (CDI) Power Doppler imaging (PDI)
Image Display and Processing	Image magnification (zoom) Minimum display depth 1cm Maximum display depth 30cm Preprocessing & Postprocessing capabilities
Connectivity to smart devices	Wired
Clinical Applications	Abdominal Cardiac Adult Cardiac Pediatric Carotid and Arterial Fetal/Obstetric Gynecological Musculoskeletal (Conventional) Musculoskeletal (Superficial) Pediatric Peripheral Vessel Procedural Guidance Small Organs (including thyroid) Urology Lung Bladder FAST
Telemedicine capability	Remote diagnostic support
Software Features	
Operating Systems	Compatible with both iOS and Android (latest generations)
User Interface / Usability	User friendly GUI, doesn't require much training
Education	Onboard Video Tutorials
Analysis packages	Auto Ejection Fraction Auto Bladder Volume
Digital calipers	Up to 4 linear calipers, 1 Elliptical calipers
Beam Steering	Up to 50 degrees
Exam presets	at least 20 pre-programmed presets
Tools	Midline marker OB Calculations Needle guidance for vascular access Manual Volume Calculation On-screen annotation
Controls	Gain TGC (near, mid, far) Depth

Connectivity	
Data export methods	DICOM
Exported still image formats	DICOM/png
Exported video clip formats	DICOM/mp4
Integration	DICOM - Available HL7 - Available
Hardware Features	
Probe Casing	Preferably Aluminum
Waterproofing	Waterproofing to IPX7 standard
Advanced Micro-Organism Protection	High-Level
Battery	Lithium Ion Battery. Not replaceable.
Charger	Wireless charger, complies with Qi standards
Battery life	at least 2 hours (continuous scanning)
Recharge time	max 5 hours (for full recharge)
Weight	350 grams
Power Requirements	100-240 V
Drop test	4 ft (120cm)

CATHETER SECUREMENT DEVICE

Key Specifications of the Cathetrix Foley-Safe™ 2.0 Stabilizer:

The device provides multiple layers of protection through an innovative design and mechanism.

Function:

- Actively prevents accidental urinary catheter extraction and reduces the risk of Catheter-Associated Urinary Tract Infection (CAUTI).

Compatibility:

- Designed for use with standard latex and silicone Foley catheters.

Securement:

- Utilizes a durable adhesive patch to anchor the device to the patient's skin (typically the thigh). The patch can remain in place for up to 14 days without replacement.

Anti-Slide Mechanism:

- A smart internal mechanism detects and absorbs minor catheter movements, reducing mechanical stress on the urethra and bladder neck.

Safety Disconnection System:

- In the event of a significant or traumatic pulling force, an advanced cutting mechanism is activated. This severs the catheter's sterile fluid tube, causing the retention balloon to deflate and allowing the catheter to slide out safely without causing internal injury to the urethra or bladder.

Usability:

- It is a single-use, easy-to-apply device that takes only a few seconds to mount.

Disposal:

- The product is single-use and must be disposed of according to local infectious waste regulations after use.

PORTABLE ULTRASOUND KIT

The kit to contain Tablet, carry-on bag, ultrasound gel, probes and other accessories

Portable Point of Care Ultrasound (POCUS) Soft case

Specification	**Minimum Requirement**
Item Description	Soft case safe transport and storage of portable point of care ultrasound systems, including tablet based units and probes

Specification	Minimum Requirement
Intended Use	Transportation and storage of portable ultrasound equipment in clinical, outreach, and field settings
Outer Material	Fabric with water resistant finish, suitable for repeated handling and exposure to dust and light moisture
Fabric Quality	Durable woven with reinforced tear resistant structure for long term use
External Protection	Outer shell to provide protection against dust, splashes, and surface abrasion
Internal Padding	High density foam padding with layered nylon lining to reduce impact, vibration, and mechanical stress to equipment
Shock Protection	Padding and lining system designed to minimize damage from drops, handling, and transport movement
Internal Compartments	Two fully padded internal compartments to separately house ultrasound probes and tablet unit
Probe Storage	Padded section suitable for safe storage of probes and accessories without direct contact with tablet or other components
Tablet Compartment	Dedicated padded sleeve for tablet console with protection for screen and edges
Carrying Method	Adjustable shoulder strap securely attached to the bag for hands free transport
Branding	Permanent embroidered branding featuring MOH Logo
Identification Slot	Transparent PVC label holder for asset identification or user labeling
Internal Lining	Smooth nylon lining to reduce wear on equipment surfaces and cables
Closure System	Full length zip closure providing secure containment of contents
Dimensions	Approximate external dimensions of 18 inches (L) × 12 inches (H) × 4 inches (W)
Finish	Professional appearance suitable for medical and institutional use
Build Quality	Reinforced stitching at stress points for durability during routine use
Compatibility	Compatible with common portable ultrasound tablets and standard probes
Service Life	Designed for regular use in healthcare environments without premature wear

Centralized Tablet Configuration and Oversight Service

Specification	Minimum Requirement
Service Description	Centralized service for configuring, controlling, and overseeing tablet devices used for clinical and programmatic applications
Supported Platforms	Compatible with Android and iOS tablet operating systems
Deployment Model	Secure, cloud hosted management environment accessible through a web based interface
Device Enrollment	Tablets can be enrolled into a managed environment during initial setup or prior to field deployment
Configuration Control	Standardized device settings can be applied remotely to ensure consistent operation across all deployed tablets

Specification	Minimum Requirement
Application Management	Approved applications can be deployed, updated, restricted, or removed remotely to support intended use
Operational Control	Device functionality can be limited to maintain tablets in a ready to use state for clinical workflows
Security and Access	Supports device level protections including access control and restrictions to reduce unauthorized use
Data Protection	Measures in place to safeguard locally stored information and support secure handling of sensitive data
Remote Support	Remote actions can be performed to resolve configuration or application issues and reduce downtime
Update Coordination	Operating system and application updates can be centrally managed to minimize user disruption
Device Visibility	Provides overview of enrolled devices including basic status and compliance indicators
Loss Mitigation	Administrative actions can be applied to misplaced or compromised devices to limit misuse
Deployment Continuity	Supports phased deployments, allowing new devices to be added while existing devices remain under management
End of Use Handling	Devices can be securely removed from the managed environment at the end of the project or deployment period
Suitability	Appropriate for healthcare and institutional environments with routine data protection and governance requirements
User Impact	Designed to minimize interference with clinical work and reduce dependence on local IT support

Ultrasound Transmission Gel

Specification	Minimum Requirement
Item Description	Water based ultrasound transmission gel suitable for diagnostic and point of care ultrasound procedures
Intended Use	Facilitates acoustic coupling between ultrasound transducer and patient skin during ultrasound imaging
Container Size	Supplied in small volume containers suitable for portable use and storage within ultrasound carry case
Typical Volume Range	Approximately 200 ml per container
Gel Type	Non greasy, water soluble formulation intended for medical ultrasound applications
Skin Compatibility	Suitable for repeated skin contact and routine clinical use
Conductivity	Provides reliable acoustic transmission without degrading image quality
Residue	Leaves minimal residue and can be easily removed from skin and equipment
Color and Clarity	Clear or lightly tinted to allow visibility of probe contact area
Odor	Neutral or low odor formulation appropriate for clinical environments

Specification	Minimum Requirement
Drying Characteristics	Does not dry excessively during standard examination duration
Packaging	Leak resistant container with secure closure suitable for transport
Portability	Container shape and size suitable for placement inside padded equipment bags
Probe Compatibility	Compatible with common ultrasound probe materials and surfaces
Safety	Free from abrasive particles or harsh additives that may damage probes or irritate skin
Shelf Life	Stable under normal storage conditions with clearly marked expiry
Storage Conditions	Can be stored at room temperature away from direct heat
Suitability	Appropriate for hospital, clinic, training, and outreach use

Rugged Protective Cover for POCUS Tablets

Specification	Minimum Requirement
Item Description	Rugged protective cover designed for tablets used in point of care ultrasound applications
Intended Use	Protection and secure handling of tablets during clinical use, transport, and outreach activities
Device Fit	Cover shall be readily usable with the selected tablet supplied as part of the POCUS kit
Construction Type	Multi component protective cover incorporating a rigid outer frame with shock absorbing inner layer
Impact Protection	Designed to reduce damage from drops, minor impacts, and routine handling
Edge and Corner Design	Reinforced corners and raised edges to provide additional protection to vulnerable areas
Screen Protection	Raised front bezel or equivalent design to minimize direct screen contact with flat surfaces
Back Support	Integrated rear support structure allowing stable angled positioning on flat surfaces
Hand Strap	Adjustable rear hand strap enabling secure one handed operation during scanning
Carrying Strap	Detachable shoulder or neck strap attachment points to allow hands free carrying
Grip and Handling	Textured or contoured surfaces to improve grip during prolonged handheld use
Port and Button Access	Precisely aligned openings allowing access to charging ports, speakers, cameras, and control buttons
Cable Clearance	Design does not obstruct tablet edges commonly used for accessory or probe cable routing
Cleaning Compatibility	Suitable for routine cleaning using standard non abrasive clinical wipes
Bulk and Weight	Adds protective reinforcement without significantly limiting portability
Installation	Cover can be fitted and removed without the use of tools

Specification	Minimum Requirement
Appearance	Professional, non consumer finish appropriate for clinical environments
Durability	Designed for repeated daily use without loss of protective function

AI – ENABLED HANDHELD POINT OF CARE ULTRASOUND MACHINE

Intended Use - Antenatal care, basic obstetric imaging, early pregnancy assessment, foetal viability, multiple gestation detection, placenta location, amniotic fluid estimation.

Imaging & Clinical Modes
- B-Mode, M-Mode
- Color Doppler (for foetal heart, umbilical vessels)
- PW Doppler (optional)

AI-Enabled Functions (Maternal Focus)
- Automated Gestational Age Calculation (BPD, HC, AC, FL)
- Fetal Heart Rate Detection & Measurement
- Automatic Fetal Presentation Detection (cephalic, breech)
- Placenta Localization (anterior/posterior/low-lying)
- Amniotic Fluid Index (AFI) Estimation
- Guided Scanning: On-screen prompts for correct probe placement
    - Anomaly Flagging: Alerts for growth restriction, multiple gestation, absent cardiac activity (screening- level only)

Transducer
- Type: Convex/curvilinear
- Frequency: 2–6 MHz
- Depth: ≥ 25–30 cm
- Single-probe multi-application preferred

Display & Interface
- Tablet/smartphone based or integrated screen
- Simple OB presets (1st trimester, 2nd/3rd trimester)
- Multi-language interface

Connectivity & Data
- DICOM compatible
- Cloud upload for tele-consultation with radiologists/OB specialists
- Secure patient data storage

Power & Portability
- Battery life: ≥ 3–4 hours continuous scanning
- USB charging (power bank compatible)
- Weight ≤ 500 g

Compliance
- IEC 60601-1, IEC 60601-2-37
- CE / FDA approval
- Data encryption (HIPAA/GDPR compliant)

Ideal Deployment

- Antenatal clinics, maternity wards, outreach programs, rural maternal health programs.

Emergency Care

Imaging & Clinical Modes
- B-Mode, M-Mode
- Color Doppler
- PW Doppler
- Tissue harmonic imaging (preferred)

AI-Enabled Functions (Emergency Focus)
- FAST / eFAST Protocol Automation (free fluid detection)
- Cardiac View Recognition: Parasternal long/short axis, apical 4-chamber
- Automated Ejection Fraction Estimation
- IVC Measurement for Volume Status
- Lung AI: B-line detection, pneumothorax screening
- Shock Protocol Guidance: Hypovolemic, cardiogenic, obstructive patterns
- On-screen Scan Quality Feedback

Transducer
- Type: Phased array or multi-frequency probe
- Frequency: 2–8 MHz
- Depth: ≥ 30 cm

Display & Interface
- One-touch emergency presets (FAST, Cardiac, Lung, Vascular)
- Rapid boot time (< 10 seconds)
- Glove-friendly touch interface

Connectivity & Data
- Wi-Fi/Bluetooth
- Real-time tele-ultrasound for remote expert consultation
- PACS/HIS integration

Power & Durability
- Battery life: ≥ 2–3 hours
- IPX6 or higher water/splash resistance
- Shock-resistant casing

Compliance
- IEC 60601-1 / 60601-2-37
- CE / FDA certified
- Secure clinical data handling

Ideal Deployment

Emergency departments, ambulances, field hospitals, disaster response teams.

Primary Healthcare In Low-Resource Settings

Imaging & Clinical Modes
- B-Mode
- M-Mode
- Color Doppler (optional)

AI-Enabled Functions (Low-Resource Focus)
- Exam-Guided Scanning: Step-by-step prompts for non-specialist users
- Automated Key Measurements:
- Fetal heart rate

- Gestational age
- Bladder volume
- IVC diameter
- Condition Screening:
- Free fluid detection
- Lung B-lines (pneumonia/heart failure)
- Decision Support: Simple “normal / refer” prompts (screening only)

Transducer
- Type: Single multi-frequency probe
- Frequency: 2–10 MHz
- Supports OB, abdominal, cardiac, lung, vascular in one device

Display & Interface
- Smartphone/tablet based
- Large icons, minimal text
- Multi-language support (including local languages where possible)

Connectivity & Data
- Offline operation with local storage
- Optional cloud sync when internet is available
- Telemedicine support for remote expert review

Power & Portability
- Battery life: ≥ 4–6 hours
- USB charging from power banks or solar systems
- Lightweight, pocket-sized
- Protective case included

Environmental & Durability
- Operates in high temperature and dusty environments
- IPX5–IPX7 water resistance
- Drop-resistant casing

Compliance
- IEC 60601 standards
- CE / FDA / WHO-listed device preferred
- Encrypted data storage

SPECIALIZED DECONTAMINATION AND BIO DISINFECTION OF THE PUBLIC HEALTH FACILITIES

Specialized decontamination and bio disinfection of public health facilities (admission wards, surgical theaters, ICU, NICU, PICU and other patient holding areas.

Technical specifications and requirements

Service scope

- Treat all surfaces including electronic equipment
- Offer risk free disinfection

- Use products that are free from peracetic acid, biodegradable, non-allergenic, non-corrosive on all surfaces
- It should be effective against viruses, bacteria, yeast, fungi and spores

Requirements

- Bidder must propose the equipment (attach brochures) to be used in the service including the provision of attendant valid Manufacturer's authorization.
- Bidder must provide certification of conformity from accredited standard and regulatory bodies.
- Bidder must provide a detailed work program / methodology of the service provision including technical data sheet of the chemicals to be used in the decontamination.
- Bidder must provide at least two (2) technical officers for the decontamination certified by the relevant regulatory authorities.

BLOOD BANK REFREGERATOR

- **Purpose of the equipment**: A refrigerator for storing whole blood or red cell packs in a blood bank.
- **Type of equipment**: compression type refrigerator that uses CFC-free refrigerant gas.
- **Capacity**: wide range (200-1000 blood bags of 300/450 ml each).
- **Construction**:
    - Internal: Stainless steel
    - External: Corrosion resistant (CR at least 1mm thickness.
    - CFC-free insulation.
    - Drawers: Roll out type, stainless steel scratch resistant material, perforated on the bottom for perfect and homogeneous distribution of cold air. The separators, if provided in the drawers should be able to hold blood in a vertical position with the label side visible.
    - Door: Glass door, Automatic closing of the front door.
    - Insulation and gasket should be silicone.
    - Door opening audio and visual display alarm.
- **Temperature range**
    - 2 °C to 6°C and adjustable with setting accuracy of ±0.1°C with set temperature of 4°C.
    - Use parameter setting: set point, high alarm point, low alarm point, buzzer off time, C/F Temperature choice.
- **Electrical Characteristics**: Input voltage:220/240V 50Hz.
    - Equipment meets electrical safety specifications such as the IEC (Class I).
    - A line voltage corrector of appropriate rating will form part of standard configuration.
- **Minimum Compressor Starting Voltage**: 22% below nominal voltage
- **Internal Temperature Control**:
    - Electronic temperature control range +2°C to +6°C with setting accuracy of ±1°C whatever the load.
    - Fan air cooling.
- **External Ambient Temperature**: Performs in an ambient temperature of +10 to +40°C.

- **Hold-Over Time**: A full load of blood packs at +4°C (±1 °C) takes at least 30 minutes to rise to above +6°C.
- **Internal temperature hold**: over time in case of power should be at least 1.5 hours.
- **Cooling Down Time**: A full load of blood packs at +25°C takes a maximum of 13 hrs for all the packs to reach below +6°C.
- **Temperature monitoring**:
    - Digital temperature (LED) display with 0.1°C graduation.
    - Microprocessor based temperature controller with integrated audio-visual temperature and power alarm function with digital monitoring display.
    - Independent safety thermostat to avoid negative temperatures.
    - At least 2 Temperature sensors: Sensor for temperature monitoring show on front display, Sensor for managing user of compressor.

- **Temperature recording device**:
    - Visual and audible alarm system indicating unsafe temperatures.
    - Battery backup for alarm and temperature recording device.
    - Facility for remote alarm contact.
    - Seven days graphic temperature recording with range of -10°C to +20°C with data logger, with supply of free charts for a period of warranty.
    - Ideal compressor running time of 27% at room temperature.
    - Door locks should be available.
    - Audio and visual alarm for variation in temperature.
    - Interior lighting.
    - External ambient temperature +10°C to +40°C.
    - Auto defrosting.
    - Cooling time – Maximum 13 hours for all the packs to reach below +6°C
- **Clarification**:
    - Product clarification: CE Class II A US FDA certified.
    - Quality Certification: ISO certified.
    - Electrical Safety: Equipment meets electrical safety specification such as that of IEC (Class I).
- Audible and visual alarm system indicating unsafe temperatures, with memory for last alarms.
- Electronic control panel with alarm system.
- Structure: External structure in hot-dip galvanized steel, anti-corrosion treated and PVC film coated. Scotch-Brite stainless steel internal structure.
- Insulation**:** 55 - 70 mm of insulation obtained by injection of high density ecological polyurethane CFC-free foam.
- Light: LED light (energy saving up to approximately 70%, ecological) with automatic switch at door opening.
- Refrigeration system with CFC free compressors and ECO friendly refrigeration systems with time delay.
- 4 wheels for ease of mobility with adjustable feet.
- Main power switch by way of password; Protection fuses
- Back up battery
- USB Port available.

TOURNIQUETS (Latex free)

- Certifications/Compliance**:** Each case of plates contains a certificate that guarantees biological performance and traceability.
- Colour: Clear
- Closure: Yes
- Lid: Yes
- Culture area: Approximately 0.35 – 0.36 cm^2
- Sterile,
- Exterior length – Approximately 128 cm
- Exterior Width – Approximately 86 cm
- Surface coating: Nunclon Delta
- No. of items per pack – 50 pcs
- Well design: 96 U

SQUEEZER BALLS

- Size: tennis ball
- Shape: Round smooth
- Texture: Plastic and firm

VACCUTAINERS

A) EDTA –K3 0r K2 Blood Collection Tubes (Purple)– pack of 1000 pcs packed in (10x 100)

- 4ml

Product **Parameters**

•Blood collecting tube, 4ml,
•EDTA-K,
•purple topped vacuum container.
•with label for patient data entry

- All manufacturer's details must be on the final product
- User instructions must be on the final product for ease use

Packaging

•Pack of 100 pieces
•Standard weight of carton should be ≤ 20kg

Labelling parameters:

•Labelling should be in English in indelible ink.
•User instructions and storage conditions indicated.
•All packaging labelled with: "GOK/MOH" during delivery
•Each carton to be clearly marked with the name and characteristics of the article and number of units per carton.
•Manufacturer's Name and address, Country of Origin, Batch No, Date of Manufacture, and expiry date shown; with ≥ 75% Remaining shelf life

•Should conform to KEBS / ISO standard OR equivalent.
•Manufacturer must be KEBS / ISO certified or equivalent.

a) Plain Red Vacutainer pack of 1000 pcs packed in (10x 100)

Name	Blood Collection System
Tube Material	PET
Cap Color	Red
Tube Size	13x75mm,13x100mm,16x100mm
Draw Volume	2ml-10ml
Specimen	Serum
Sterile	EO gas
Certificate	CE&ISO13485

with label for patient data entry

- All manufacturer's details must be on the final product
- User instructions must be on the final product for ease use

Packaging

•Pack of 100 pieces
•Standard weight of carton should be ≤ 20kg

Labelling parameters:

•Labelling should be in English in indelible ink.
•User instructions and storage conditions indicated.
•All packaging labelled with: "GOK/MOH" during delivery
•Each carton to be clearly marked with the name and characteristics of the article and number of units per carton.
•Manufacturer's Name and address, Country of Origin, Batch No, Date of Manufacture, and expiry date shown; with ≥ 75% Remaining shelf life
•Should conform to KEBS / ISO standard OR equivalent.
•Manufacturer must be KEBS / ISO certified or equivalent.

LANCETS

a) Retractable Lancets

Product parameters

- Sterile stainless-steel disposable safety lancet burr-free, optimal, sharp lancet tip
- Needle gauge- approx. 25- 28 gauge,
- Retractable needle
- Penetration depths to suit most capillary blood requirements.
- individually wrapped

Packaging parameters:

- Pack of 100 retractable lancets
- Standard weight of carton should be ≤ 20kg.

Labelling parameters

- Labelling should be in English in indelible ink.
- Generic/ chemical name clearly indicated
- Quantity/volume matches the label name
- All packaging labelled with: "GOK/MOH" during delivery
- Each carton to be clearly marked with the name and characteristics of the article and number of units per carton.
- Manufacturer's Name and address, Country of Origin, Batch No, Date of Manufacture and expiry date shown; with ≥ 75% Remaining shelf life
- should conform to KEBS / ISO standard OR equivalent.
- Manufacturer must be KEBS / ISO certified or equivalent

Contact-Activated Lancet

- Activates on contact when positioned and pressed against the skin
- Allows for easier sampling and covers a small area at contact point, which improves visibility of the desired puncture site

Cat #	Description	Colour	Packaging
366592	30G Needle, 1.5 mm Depth, Single Drop	Purple	200/Box, 2000/Case
366593	21G Needle, 1.8 mm Depth, Medium Flow	Pink	200/Box, 2000/Case
366594	1.5 mm Blade, 2.00 mm Depth, High Flow	Blue	200/Box, 2000/Case

HOSPITAL BLANKETS

Composition: 60 % Wool 40% Synthetic Fiber
Color: Red, Blue or Bottle Green as per buyer requirement
Size: 150 x 220 cms
Weight: 1500 / 1800 / 2000 grams

ALCOHOL SWABS

1. One pad saturated with 75% Isopropyl Alcohol.

2. For External use only.

3. For Professional & Hospital Use.

4. For Disinfection, topical antiseptic use.

5. Wipes are individually wrapped, easy to tear.

6. Discard after single use.

7.Store in a cool and dry place.

Technical Data:

Name:75% Alcohol Pad

Material: Nonwoven fabric, aluminium foil paper, 75% Isopropyl

Unfold size:60*30mm

Foled size"30*30mm

Ply:2ply

Bag size:50*50m

SURGICAL MEDICAL ABSORBENT HYDROPHILIC 100% COTTON WOOL ROLL

Features:

• 100 % bleached absorbent cotton

• H2O2 bleached (non chlorine bleached, free of any optical brightener)

• Standard width: 20cm

• Standard weights: 100 g 250 g 500 g and 1000 g

• Used for absorption of exudates, peripheral cleaning wounds and supporting the application of products on the skin

• Shelf life: 5 years from production date

Ref No.	size	Packaging unit paper pack/plastic bag	Bulk pacjaging carton
CR50	50 g	1 pc	400 x 1 pc
CR100	100 g	1 pc	200 x 1 pc
CR200	200 g	1 pc	50 x 1 pc
CR250	250 g	1 pc	50 x 1 pc
CR500	500g	1 pc	40 x 1 pc
CR1000	1000g	1 pc	20 x 1pc

Comments:

Class I medical device, single use product

Packed in polyethylene bags to protect from dust and humidity

GLOVES

A) Surgical Sterile Gloves

1. Material: Natural latex.

2. Size: 6", 6.5", 7", 7.5", 8", 8.5", 9".

3. Thickness: Min0.15mm.

4. Length; 265-275mm.

5. Width: 80-120mm.

6. Surface: Smoothed or textured.

7. Finger: Curved.

8. Shelf life: 5 years.

9. Packing: 1 pair/pouch, 50pairs/box, 10boxes/CTN.

10. Type: Powered or powder free.

b) Powder Free Gloves

Glove features powder-free, anti-skid and waterproof. Its strong elasticity allows the gloves to stretch at 700% (latex) and 500% (nitrile) respectively.

The gloves resist any tearing, puncture and erosion from chemicals, which is of great sensibility and antibacterial penetration.

Ergonomics design, comfortably skintight and anti-skid treatment on the surface, which is applicable to different operating environment.

Three different sizes available M, L, XL

Storage: keep in dry and ventilates place below temperature of 140°F/160°C and avoid direct sunlight, fluorescent light and X-Ray.

FIRST AID KIT SPECIFICATIONS

First Aid Kits

Kits for use by Members taking part in outdoor events. Please note that these are only guidance notes for 'general purpose' use

General First Aid Kits should be kept in a container made of suitable material and so

designed to protect the contents. All boxes should be clearly marked, the

recommended marking being a white cross on a green background (Health and Safety

Safety Signs and Signals) regulations 1996). There are two basic types of First Aid

Kit.

a) **Standard First Aid Kit** - for use at places where a Local Group may meet regularly. Minimum quantities for low risk establishments and activities may be considered as a general guidance leaflet on first aid. 20 individually wrapped sterile adhesive dressings (assorted sizes) appropriate for the activity (detectable dressings (coloured blue) should be available if catering is to be undertaken)

2 sterile eye pads

4 individually wrapped triangular bandages (preferably sterile)

6 safety pins* (see note)

6 medium sized individually wrapped sterile unmediated wound dressings (approx.

12cm × 12cm) 2 large sterile individually wrapped unmediated wound dressings

(approx. 18cm × 18cm)

1 pair of disposable gloves. In situations where mains tap water is not readily available for eye irrigation, sterile

normal saline solution (0.9%) in sealed disposable containers should be provided.

Once opened they must not be re-used.

The use of eye baths/cups or re-fillable containers is not recommended.

b) Expanded First Aid Kit – For larger events

First aid manual, Sterile adhesive bandages in assorted sizes, Assorted sizes of safety

pins, Cleansing agent/soap, Latex gloves (2 pairs), Sunscreen, 2-inch sterile gauze

pads (4-6), 4-inch sterile gauze pads (4-6), Triangular bandages (3), Nonprescription

drugs, 2-inch sterile roller bandages (3 rolls), 3-inch sterile roller bandages (3 rolls),

Scissors, Tweezers, Needle, Moistened towels, Antiseptic, Thermometer, Tongue

depressor blades (2), Tube of petroleum jelly or other lubricant.

c) Travelling First Aid Kit -

The emphasis is for the contents to reflect the circumstances in which they may be

used, but the following at least should be included: general guidance leaflet on first

aid - 6 individually wrapped sterile adhesive dressings 1 large sterile unmediated dressing

(approximately 18cm × 18cm)

2 triangular bandages

2 safety pins*

individually wrapped moist cleansing wipes 1 pair of disposable gloves.

HAEMOGLOBIN ESTIMATION CUVETTES

Description

These shall be used for estimating blood levels using hemochroma equipment, these are specialized for the equipment and have two ports either for using blood drawn from fingers or drawn from a test-tube using pipettes when performing QC

Technical specification

- Dimensions 106x151x39
- Reading time 3 seconds
- Detection range 0-27g/dl
- Sample volume 15microlitre
- Dual port for using pipetting and finger pricking
- Cuvettes with dual sample inlets
- Provision of lancets
- Can be operated on battery
- Color display screen
- US FDAapproved
- Ambient temperature 15 – 35oc, humidity max 75%
- Communication ports available

BLOOD BAGS

Description and Specification

a) Single blood bags

Blood collection bag Made up of DEHP (Di-2-ethyhexyl phthalate) plasticized PVC (polyvinylchloride), collapsible non- vented sterile containers complete with collecting tube for completely closed system to avoid the chances of contamination.

Capacity: single blood bag 450 ml

Design and shape:

1. Flexible pre sterilized

2. Pyrogen free

3. Non toxic, non hemolytic, biocompatible material

4. No risk of contamination and air embolism(close system) with leaks proof seals

5. Slit on both sides of the bags should be enough to accommodate 5-10 ml test tubes.

6. The capacity of the bag should be enough to prevent any ballooning/ rupture of the bag from seam when it is filled up with the requisite volume of blood

Tubing of bag:

1. Flexible non kinking

2. Non sticking

3. Transparent

4. Leak proof

5. The minimum length of tubing from primary bag to the needle should be 80 cm.

6. The tube should have mulitple printed ID/Segment number. The number should be legible and clear Technical Specifications of Blood Bags

7. A clamp should be provided for closed system

Needle:

1. 16 gauge ultra thin walled and straight

2. Sharp, regular and smooth margins and beveled tip

3. Rust proof

4. Tightly fixed with hub covered with sterile guard

5. Hermetically sealed

6. The needle should not separate from the tube at any point of time,

especially while removing it from the vein for the donor safety

External port:

1. Tamper proof and should not be re-capped

2. Easily accessible

Package:

1. Protective dual packaging (individual & Aluminum) eliminating

microbial contamination on surface maintaining the contents of

the bag

2. Easy to handle

Anticoagulant and preservative solution:

1. CPDA-1 The quantity of anticoagulant/(63 ml)

2. Clear & colorless

3. No discoloration on storage at room temperature

4. Manufacturer to supply anti-coagulant quality check certificate

Label:

1. Non peel- off

2. Heat sealed/ pressure embossed labels

3. Remain attached between room temperature to 4 ˚C with a transparent adhesive

Technical Specifications of Blood Bags

4. Date of manufacturing, date of expiry and lot number must be mentioned on each bag

5. The expiry date should be at least 2 years from the date of manufacturing of blood bags and residual shelf life at the time of supply should be at least 3/4th of the total shelf life

b) **Triple blood bags**

Blood collection bag Made up of DEHP (Di-2-ethyhexyl phthalate)

plasticized PVC (polyvinylchloride), collapsible non- vented sterile containers complete with collecting tube for completely closed system to avoid the chances of contamination.

Capacity: Triple blood bag :

Primary bag (450 ml)

First satellite bag (of 300 ml capacity)

Second satellite bag (of 300 ml capacity) for platelet storage for 5 days

Design and shape:

1. Flexible pre sterilized

2. Pyrogen free

3. Non toxic, non hemolytic, biocompatible material

4. No risk of contamination and air embolism(close system) with leaks proof seals

5. Slit on both sides of the bags should be enough to accommodate 5-10 ml test tubes.

6. The capacity of the bag should be enough to prevent any ballooning/ rupture of the bag from seam when it is filled up with the requisite volume of blood

Tubing of bag:

Technical Specifications of Blood Bags

1. Flexible non kinking

2. Non sticking

3. Transparent

4. Leak proof

5. The minimum length of tubing from primary bag to the needle

should be 80 cm.

6. The tube should have multiple printed ID/Segment number. The number should be legible and clear

7. A clamp should be provided for closed system

Needle:

1. 16 gauge ultra thin walled and straight

2. Sharp, regular and smooth margins and beveled tip

3. Rust proof

4. Tightly fixed with hub covered with sterile guard

5. Hermetically sealed

6. The needle should not separate from the tube at any point of time, especially while removing it from the vein for the donor safety

External port:

1. Tamper proof and should not be re-capped

2. Easily accessible

Package:

1. Protective dual packaging (individual & Aluminum) eliminating microbial contamination on surface maintaining the contents of the bag

2. Easy to handle

Anticoagulant and preservative solution:

1. CPDA-1 The quantity of anticoagulant/(49 ml/63 ml)

2. Clear & colorless

Technical Specifications of Blood Bags

3. No discoloration on storage at room temperature

4. Manufacturer to supply anti-coagulant quality check certificate

Label:

1. Non-peel- off

2. Heat sealed/ pressure embossed labels

3. Remain attached between room temperature to 4 ˚C with a transparent adhesive

4. Date of manufacturing, date of expiry and lot number must be mentioned on each bag

5. The expiry date should be at least 2 years from the date of manufacturing of blood bags and residual shelf life at the time of supply should be at least 3/4th of the total shelf life

Resistance to distortion:

Filled to normal capacity

 Bag shall withstand a acceleration of 5000g for 30 min at temperature 4˚C to 24˚C

Bag should be able to withstand temperature upto -80˚C without breakage

c) Quadruple blood bags

Blood collection bag Made up of DEHP (Di-2-ethyhexyl phthalate) plasticized PVC (polyvinylchloride), collapsible non- vented sterile containers complete with collecting tube for completely closed system to avoid the chances of contamination.

Capacity: Quadruple blood bags :

 Primary bag (350/450 ml) with top and top

 First satellite bag (of 300 ml capacity containing 78 ml/ 100 ml additive solution)- for 42 days red cell storage

Technical Specifications of Blood Bags

 Second satellite bag (of 300 ml capacity) for platelet storage for 5 days

 Third satellite bag (of 300 ml capacity)

Design and shape:

1. Flexible pre sterilized

2. Pyrogen free

3. Non toxic, non hemolytic, biocompatible material

4. No risk of contamination and air embolism (close system) with leaks proof seals

5. Slit on both sides of the bags should be enough to accommodate 5-10 ml test tubes.

6. The capacity of the bag should be enough to prevent any ballooning/ rupture of the bag from seam when it is filled up with the requisite volume of blood

Tubing of bag:

1. Flexible non kinking

2. Non sticking

3. Transparent

4. Leak proof

5. The minimum length of tubing from primary bag to the needle should be 80 cm.

6. The tube should have multiple printed ID/Segment number. The number should be legible and clear

7. A clamp should be provided for closed system

Needle:

1. 16 gauge ultra thin walled and straight

2. Sharp, regular and smooth margins and beveled tip

3. Rust proof

Technical Specifications of Blood Bags

4. Tightly fixed with hub covered with sterile guard

5. Hermetically sealed

6. The needle should not separate from the tube at any point of time, especially while removing it from the vein for the donor safety

External port:

1. Tamper proof and should not be re-capped

2. Easily accessible

Package:

1. Protective dual packaging (individual & Aluminum) eliminating microbial contamination on surface maintaining the contents of the bag

2. Easy to handle

Anticoagulant and preservative solution:

1. CPDA-1 The quantity of anticoagulant/ (63 ml)

2. Additive solution- first satellite bag (100 ml for 450ml blood bag)

3. Clear & colorless

4. No discoloration on storage at room temperature

5. Manufacturer to supply anticoagulant quality check certificate

Label:

1. Non peel- off

2. Heat sealed/ pressure embossed labels

3. Remain attached between room temperature to 4 ˚C with a transparent adhesive

4. Date of manufacturing, date of expiry and lot number must be mentioned on each bag

Technical Specifications of Blood Bags

5. The expiry date should be at least 2 years from the date of manufacturing of blood bags and residual shelf life at the time of supply should be at least 3/4th of the total shelf life

Resistance to distortion:

Filled to normal capacity

Bag shall withstand a acceleration of 5000g for 30 min at temperature 4˚C to 24˚C

Bag should be able to withstand temperature upto -80˚Cwithout breakage

d) **Double blood bags**

Blood collection bag Made up of DEHP (Di-2-ethyhexyl phthalate)

plasticized PVC(polyvinylchloride), collapsible non- vented sterile containers complete with collecting tube for completely closed system to avoid the chances of contamination.

Capacity: Double blood bag :

Primary bag(450 ml)

First satellite bag(of 300 ml capacity)

Second satellite bag(of 300 ml capacity) for platelet storage for 5 days

Design and shape:

1. Flexible pre sterilized

2. Pyrogen free

3. Non toxic, non hemolytic, biocompatible material

4. No risk of contamination and air embolism (close system) with leaks proof seals

5. Slit on both sides of the bags should be enough to accommodate 5-10 ml test tubes.

6. The capacity of the bag should be enough to prevent any ballooning/ rupture of the bag from seam when it is filled up with the requisite volume of blood

Tubing of bag:

Technical Specifications of Blood Bags

1. Flexible non kinking

2. Non sticking

3. Transparent

4. Leak proof

5. The minimum length of tubing from primary bag to the needle

should be 80 cm.

6. The tube should have multiple printed ID/Segment number. The number should be legible and clear

7. A clamp should be provided for closed system

Needle:

1. 16 gauge ultra thin walled and straight

2. Sharp, regular and smooth margins and beveled tip

3. Rust proof

4. Tightly fixed with hub covered with sterile guard

5. Hermetically sealed

6. The needle should not separate from the tube at any point of time, especially while removing it from the vein for the donor safety

External port:

1. Tamper proof and should not be re-capped

2. Easily accessible

Package:

1. Protective dual packaging (individual & Aluminum) eliminating microbial contamination on surface maintaining the contents of the bag

2. Easy to handle

Anticoagulant and preservative solution:

1. CPDA-1 The quantity of anticoagulant/(49 ml/63 ml)

2. Clear & colorless

Technical Specifications of Blood Bags

3. No discoloration on storage at room temperature

4. Manufacturer to supply anti coagulant quality check certificate

Label:

1. Non peel- off

2. Heat sealed/ pressure embossed labels

3. Remain attached between room temperature to 4 ˚C with a transparent adhesive

4. Date of manufacturing, date of expiry and lot number must be mentioned on each bag

5. The expiry date should be at least 2 years from the date of manufacturing of blood bags and residual shelf life at the time of supply should be at least 3/4th of the total shelf life

Resistance to distortion:

Filled to normal capacity

 Bag shall withstand a acceleration of 5000g for 30 min at temperature 4˚C to 24˚C

Bag should be able to withstand temperature upto -80˚C without breakage

a) Pediatric Blood Bag

Penta Blood bags, Size (ml)-450ml Anticoagulant –CPDA, Bag 1: 450ml Bag,

2: 150ml Bag, 3:150ml Bag, 4: 150mlBag, 5:150ml, with leucocyte depleted filter. Sampling System: Needle 15G with protective cover and other sampling

DONOR REFRESHMENTS SPECIFICATIONS

SOFT DRINK

1. Must be packed in plastic (pet).
2. Must be 500ml (capacity).
3. Must be within Expiry (At least 3 months).
4. Should have assorted flavors.
5. Should have a REGIONAL DISTRIBUTION NETWORKS (domiciled across KBTTS's six regional framework).

DRINKING WATER

1. Must be packed in plastic (pet).
2. Must be 500ml (capacity).
3. Must be within Expiry Date (At least 6 months).
4. Should have a REGIONAL DISTRIBUTION NETWORKS (domiciled across KBTTS's six regional framework).

BISCUITS

1. Must be packed in a carton of 60 packets × 5 pieces (Each packet to have 5 pieces).
2. Must be within Expiry Date (At least eight (8) months).
3. Should be creamy/milky.
4. Should have a REGIONAL DISTRIBUTION NETWORKS (domiciled across KBTTS's six regional framework).

BREAD

1. White 600 grams
2. Should be 10% brown.
3. Must be within Expiry Date (At least 5 days).
4. Should have a REGIONAL DISTRIBUTION NETWORKS (domiciled across KBTTS's six regional framework).

MATERNAL (PRE- NATAL, NATAL AND POST NATAL) AND CHILD CARE BOOKLET

- **Size:** A5 (148 x 210 mm) booklets
- **Cover page:** 300 GSM matt paper
- **Saddle stitched on Gloss laminated cover one side**
- **Inside pages:** Bond Paper 100 Grams per meter square (GSM)
- **Binding:** Stapled twice through the middle of the book *(e.g. exercise books)*
- **Printing:** New Times Roman on all pages
- **Colour:** Full Colour throughout: Colors on Cover page and Growth Charts are as follows:

1. Cover: Purple = Cyan 39.95% + Magenta 79.86%
2. Growth charts: **Boys to Blue line** = Cyan 100% + magenta 64%
   Girls top pink line = Magenta 49% + yellow 18% Pink part in **both charts =** Magenta 49% + yellow 18%

The Red, yellow and Green in the charts:

a) Red = Magenta 100% + Yellow 100%
b) Yellow = Yellow 100%
c) Green = Yellow 100% +Cyan 100%

- **No of Pages:** 44 PAGES excluding the cover pages
- **Pages:** 4 of the 44 pages are A4 size, folded into A5, fitting in the booklet
- **Special Instruction**: "NOT FOR SALE" on the bottom of every page
- **Packaging:** Packed in 100 Booklets
- **Pouch:** Sealable, transparent polythene pouch, heavy gauge, size B4

Item No	Name of Goods or Related Service	Detailed Technical Specifications and Standards

PART 3 - CONDITIONS OF CONTRACT AND CONTRACT FORMS

1. Definitions

In the Conditions of Contract ("these Conditions"), which include Special Conditions, Parts A and B, and these General Conditions, the following words and expressions shall have the meanings stated. Words indicating persons or parties include corporations and other legal entities, except where the context requires otherwise.

a) "Contract" means the Contract Agreement entered into between the Procuring Entity and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.

b) "Contract Documents" means the documents listed in the Contract Agreement, including any amendments thereto.

c) "Contract Price" means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.

d) "Day" means calendar day.

e) "Completion" means the fulfilment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.

f) "GCC" means the General Conditions of Contract.

g) "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Procuring Entity under the Contract.

h) "Procuring Entity" means the Procuring Entity purchasing the Goods and Related Services, as **specified in the SCC.**

i) "Related Services" means the services incidental to the supply of the goods, such as insurance, delivery, installation, commissioning, training and initial maintenance and other such obligations of the Supplier under the Contract.

j) "SCC" means the Special Conditions of Contract.

k) "Subcontractor" means any person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.

l) "Supplier" means the person, private or government entity, or a combination of the above, whose Tender to perform the Contract has been accepted by the Procuring Entity and is named as such in the Contract Agreement.

m) **"Base Date"** means a date 30 day prior to the submission of tenders.

n) **"Laws"** means all national legislation, statutes, ordinances, and regulations and by-laws of any legally constituted public authority.

o) **"Letter of Acceptance"** means the letter of formal acceptance, signed by the contractor. Procuring Entity, including any annexed memoranda comprising agreements between and signed by both Parties.

p) **"Procuring Entity"** means the Entity named in the Special Conditions of Contract.

2. Interpretation

2.1. If the context so requires it, singular means plural and vice versa.

2.2. Incoterms

a) Unless inconsistent with any provision of the Contract**,** the meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms **specified in the SCC**.

b) The terms EXW and CIP and other similar terms, when used, shall be governed by the rules prescribed in the current edition of Incoterms specified in the **SCC** and published by the International Chamber of Commerce in Paris, France.

3. Contract Documents

Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole. The documents forming the Contract shall be interpreted in the following order of priority:

a) the Contract Agreement,
b) the Letter of Acceptance,
c) the General Conditions of Contract
d) Special Conditions of Contract
e) the Form of Tender,
f) the Specifications and Schedules of the Drawings (if any), and
g) the Schedules of Requirements, Price Schedule and any other documents forming part of the Contract.

4. Fraud and Corruption

3.1 The supplier shall comply with anti-corruption laws and guidelines and the prevailing sanctions, policies and procedures as set forth in the Laws of Kenya.

3.2 The Supplier shall disclose any commissions, gratuity or fees that may have been paid or are to be paid to agents or any other person with respect to the Tendering process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

4.1 Entire Agreement

4.1.2 Framework Agreement

4.1.2.1 The Parties shall enter into a Framework Agreement within 28 days after the Contractor receives the Letter of Acceptance, unless the Particular Conditions establish otherwise. The Framework Agreement shall be based upon FORM No. 3 – FRAMEWORK AGREEMENT annexed to the Particular Conditions. The costs of stamp duties and similar charges (if any) imposed by law in connection with entry into the Framework Agreement shall be borne by the Procuring Entity.

4.1.2.2 The Framework Agreement establishes the terms and conditions that will govern the contract awarded during the term of the Framework Agreement. The Framework Agreement establishes for the procurement works by package as and when required, over the specified period of time. The Framework Agreement does not commit a Procuring Entity to procure, nor a Firm to supply. The Framework Agreement allows the Procuring Entity to call the Contractor to commence the works on a particular package in a specified location within the duration of the agreement.

4.1.2.3 This Framework Agreement does not guarantee the contractor of being called for a contract to start and no commitment is made with regard to possible number of packages to carry out.

4.1.2.4 This Framework Agreement does exclude the Procuring Entity from the right to procure the same Works from other firms.

4.1.2.5 This Framework Agreement does not stop the Procuring Entity from removing the contractor from the same Agreement.

4.1.2.6 FAs shall be established for a maximum period of three (3) years. The Procuring Entity may with the Consent of the Contractor extend this Agreement where the agreement period is less than three (3) years, if the initial engagement has been satisfactory.

4.1.2.7 **Call-off Contracts;** for work on a package to start, the Procuring Entity shall issue a notice of acceptance of a particular package requesting the contractor to furnish a Performance Security and to start the works thereafter, and providing the contractor with details of location where the works, are to be carried out. The call-off statement shall specify the objectives, tasks, deliverables, timeframes and price or price mechanism. The price for individual call-off contracts shall be based on the prices detailed in the Framework Agreement.

4.1.2.8 The Contract constitutes the entire agreement between the Procuring Entity and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract.

4.2 Amendment

No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

4.3 Non-waiver

a) Subject to GCC Sub-Clause 4.5(b) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

4.4 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

5. Language

5.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Procuring Entity, shall be written in the **English Language.** Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate and certified translation of the relevant passages in the **English Language,** in which case, for purposes of

interpretation of the Contract, the English language is translation shall govern.

52 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Supplier.

6. Joint Venture, Consortium or Association

6.1 If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Procuring Entity for the fulfilment of the provisions of the Contract and shall designate one member of the joint venture, consortium, or association to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior written consent of the Procuring Entity.

7. Eligibility

7.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Sub- contractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.

7.2 All Goods and Related Services to be supplied under the Contract shall have their origin in Eligible Countries. For the purpose of this Clause, origin means the country where the goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

7.3 The Tenderer, if a Kenyan firm, must submit with its tender a valid tax compliance certificate from the Kenya Revenue Authority.

8. Notices

8.1 Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the **SCC.** The term "in writing" means communicated in written form with proof of receipt.

8.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

9. Governing Law

9.1 The Contract shall be governed by and interpreted in accordance with the laws of Kenya.

9.2 Throughout the execution of the Contract, the Supplier shall comply with the import of goods and services prohibitions in Kenya:

a) where, as a matter of law, compliance or official regulations, Kenya prohibits commercial relations with that country or any import of goods from that country or any payments to any country, person, or entity in that country ; or

b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Kenya prohibits any import of goods from that country or any payments to any country, person, or entity.

10. Settlement of Disputes

10.1 The Procuring Entity and the Supplier shall make every effort to resolve amicably by direct negotiation any disagreement or dispute arising between them under or in connection with the Contract.

10.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Procuring Entity or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract.

10.2 Arbitration proceedings shall be conducted as follows:

10.2.1 Any claim or dispute between the Parties arising out of or in connection with the Contract not settled amicably in accordance with Sub-Clause 10.1 shall be finally settled by arbitration.

10.2.2 No arbitration proceedings shall be commenced on any claim or dispute where notice of a claim or dispute has not been given by the applying party within thirty days of the occurrence or discovery of the matter or issue giving rise to the dispute.

10.2.3 Notwithstanding the issue of a notice as stated above, the arbitration of such a claim or dispute shall not commence unless an attempt has in the first instance been made by the parties to settle such claim or dispute amicably with or without the assistance of third

parties. Proof of such attempt shall be required.

10.2.4 The Arbitrator shall, without prejudice to the generality of his powers, have powers to direct such measurements, computations, or valuations as may in his opinion be desirable in order to determine the rights of the parties and assess and award any sums which ought to have been the subject of or included in any due payments.

10.2.5 Neither Party shall be limited in the proceedings before the arbitrators to the evidence, or to the reasons for the dispute given in its notice of a claim or dispute.

10.2.6 Arbitration may be commenced prior to or after delivery of the goods. The obligations of the Parties shall not be altered by reason of any arbitration being conducted during the progress of the delivery of goods.

10.2.7 The terms of the remuneration of each or all the members of Arbitration shall be mutually agreed upon by the Parties when agreeing the terms of appointment. Each Party shall be responsible for paying one-half of this remuneration.

10.3 Arbitration Proceedings

10.3.1 Arbitration proceedings with national suppliers will be conducted in accordance with the Arbitration Laws of Kenya. In case of any claim or dispute, such claim or dispute shall be notified in writing by either party to the other with a request to submit it to arbitration and to concur in the appointment of an Arbitrator within thirty days of the notice. The dispute shall be referred to the arbitration and final decision of a person or persons to be agreed between the parties. Failing agreement to concur in the appointment of an Arbitrator, the Arbitrator shall be appointed, on the request of the applying party, by the Chairman or Vice Chairman of any of the following professional institutions;

i) Kenya National Chamber of Commerce

ii) Chartered Institute of Arbitrators (Kenya Branch)

iii) The Law Society of Kenya

10.3.2 The institution written to first by the aggrieved party shall take precedence over all other institutions.

10.3.3 Alternative Arbitration Proceedings

Alternatively, the Parties may refer the matter to the Nairobi Centre for International Arbitration (NCIA) which offers a neutral venue for the conduct of national and international arbitration with commitment to providing institutional support to the arbitral process.

10.4 Arbitration with Foreign Suppliers

10.4.1 Arbitration with foreign suppliers shall be conducted in accordance with the arbitration rules of the United Nations Commission on International Trade Law (UNCITRAL); or with proceedings administered by the International Chamber of Commerce (ICC) and conducted under the ICC Rules of Arbitration; by one or more arbitrators appointed in accordance with said arbitration rules.

10.4.2 The place of arbitration shall be a location specified in the **SCC;** and the arbitration shall be conducted in the language for communications defined in Sub-Clause 1.4 [Law and Language].

10.5 Alternative Arbitration Proceedings

Alternatively, the Parties may refer the matter to the Nairobi Centre for International Arbitration (NCIA) which offers a neutral venue for the conduct of national and international arbitration with commitment to providing institutional support to the arbitral process.

10.6 Failure to Comply with Arbitrator's Decision

10.6.1 The award of such Arbitrator shall be final and binding upon the parties.

10.6.1 In the event that a Party fails to comply with a final and binding Arbitrator's decision, then the other Party may, without prejudice to any other rights it may have, refer the matter to a competent court of law.

10.7 Contract operations continue

Notwithstanding any reference to arbitration herein,

a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and

b) the Procuring Entity shall pay the Supplier any monies due the Supplier.

11. Inspections and Audit by the Procuring Entity

11.1 The Supplier shall keep, and shall cause its Subcontractors to keep, accurate and systematic accounts and records in respect of the Goods in such form and details as will clearly identify relevant time, changes and costs.

11.2 Pursuant to paragraph 2.2 of Instruction to Tenderers, the Supplier shall permit and shall cause its subcontractors to permit, the Procuring Entity and/or persons appointed by the Procuring Entity or by other statutory bodies of the Government to inspect the Site and/or the accounts and records relating to the procurement process, selection and/or contract execution, and to have such accounts and records audited by auditors appointed by the Procuring Entity. The Supplier's and its Subcontractors' attention is drawn to Sub- Clause 3.1 which provides, inter alia, that acts intended to materially impede the exercise of the Procuring Entity's inspection and audit rights constitute a prohibited practice subject to contract termination, as well as to a determination of ineligibility.

12. Scope of Supply

12.1 The Goods and Related Services to be supplied shall be as specified in the Schedule of Requirements.

13. Delivery and Documents

13.1 Subject to GCC Sub-Clause 33.1, the delivery of the Goods and completion of the Related Services shall be in accordance with the List of Goods and Delivery Schedule specified in the Supply Requirements. The details of shipping and other documents to be furnished by the Supplier are specified in the **SCC.**

14. Supplier's Responsibilities

14.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with GCC Clause 12, and the Delivery and Completion Schedule, as per GCC Clause 13.

15. Contract Price

15.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its Tender, with the exception of any price adjustments authorized in the **SCC.**

15.2 Where the contract price is different from the corrected tender price, in order to ensure the supplier is not paid less or more relative to the contract price (*which would be the tender price*), any partial payment valuation based on rates in the schedule of prices in the Tender, will be adjusted by a plus or minus percentage. The percentage already worked out during tender evaluation is worked out as follows: *(corrected tender price – tender price)/tender price X 100*.

16. Terms of Payment

16.1 The Supplier shall request for payment by submitting invoice(s), delivery note(s) and any other relevant documents as specified in the **SCC** to the Procuring Entity.

16.2 Payments shall be made promptly by the Procuring Entity, but not later than thirty (30) days after submission of an invoice by the Supplier, and after the Procuring Entity has accepted it.

16.3 Where a Procuring Entity rejects Goods and Related Services, in part or wholly, the procuring Entity shall promptly inform the Supplier to collect, replace or rectify as appropriate and give reasons for rejection. The Supplier shall submit a fresh invoice, delivery note and any other relevant documents as specified in the **SCC**.

16.4 The currencies in which payments shall be made to the Supplier under this Contract shall be those in which the Tender price is expressed.

16.5 In the event that the Procuring Entity fails to pay the Supplier any payment by its due date or within the period set forth in the **SCC,** the Procuring Entity may pay to the Supplier interest on the amount of such delayed payment at the rate shown in the **SCC,** for the period of delay until payment has been made in full, whether before or after judgment or arbitrage award.

17. Taxes and Duties

17.1 The Supplier shall be entirely responsible for all taxes, duties, license fees, and other such levies incurred to deliver the Goods and Related Services to the Procuring Entity at the final delivery point.

17.3 If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in Kenya, the Supplier shall inform the Procuring Entity and the Procuring Entity shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.

18. Performance Security

18.1 If required as specified in the **SCC**, the Supplier shall, within twenty-eight (28) days of the notification of contract award, provide a performance security for the performance of the Contract in the amount specified in the **SCC.**

18.2 The proceeds of the Performance Security shall be payable to the Procuring Entity as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

18.3 As specified in **the SCC**, the Performance Security, if required, shall be denominated in the currency(ies) of the Contract, or in a freely convertible currency acceptable to the Procuring Entity; and shall be in one of the formats stipulated by the Procuring Entity in

the SCC, or in another format acceptable to the Procuring Entity.

18.4 The Performance Security shall be discharged by the Procuring Entity and returned to the Supplier not later than thirty (30) days following the date of Completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in the **SCC.**

19. Copyright

19.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Procuring Entity by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Procuring Entity directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.

20. Confidential Information

20.1 The Procuring Entity and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Sub-Supplier such documents, data, and other information it receives from the Procuring Entity to the extent required for the Sub Supplier to perform its work under the Contract, in which event the Supplier shall obtain from such Sub Supplier undertaking of confidentiality similar to that imposed on the Supplier under GCC Clause 20.

20.2 The Procuring Entity shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Procuring Entity for any purpose other than the performance of the Contract.

20.3 The obligation of a party under GCC Sub-Clauses 20.1 and 20.2 above, however, shall not apply to information that:

a) the Procuring Entity or Supplier need to share with other arms of Government or other bodies participating in the financing of the Contract; such parties shall de disclosed in **the SCC;**

b) now or hereafter enters the public domain through no fault of that party;

c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or

d) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.

20.4 The above provisions of GCC Clause 20 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.

20.5 The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract.

21. Subcontracting

21.1 The Supplier shall notify the Procuring Entity in writing of all subcontracts awarded under the Contract if not already specified in the Tender. Such notification, in the original Tender or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.

21.2 Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.

22. Specifications and Standards

22.1 Technical Specifications and Drawings

a) The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards mentioned in Section VI, Schedule of Requirements and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the Goods' country of origin.

b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Procuring Entity, by giving a notice of such disclaimer to the Procuring Entity.

c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Procuring Entity and shall be treated in accordance with GCC Clause 33.

23. Packing and Documents

23.1 The Supplier 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. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.

23.2 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, including additional requirements, if any, specified **in the SCC**, and in any other instructions ordered by the Procuring Entity.

24. Insurance

24.1 Unless otherwise specified in the **SCC,** the Goods supplied under the Contract shall be fully insured—in a freely convertible currency from an eligible country—against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery, in accordance with the applicable Incoterms or in the manner specified in the **SCC.**

25. Transportation and Incidental Services

25.1 Unless otherwise specified in the **SCC,** responsibility for arranging transportation of the Goods shall be in accordance with the specified Incoterms.

25.2 The Supplier may be required to provide any or all of the following services, including additional services, if any, specified **in SCC:**

a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;

b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;

c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;

d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the

Supplier of any warranty obligations under this Contract; and

e) training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

25.3 Prices charged by the Supplier for incidental services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services

26. Inspections and Tests

26.1 The Supplier shall at its own expense and at no cost to the Procuring Entity carry out all such tests and/or inspections of the Goods and Related Services as are specified in the **SCC.**

26.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the Goods' final destination, or in another place in Kenya as specified in the **SCC.** Subject to GCC Sub-Clause 26.3, if conducted on the premises of the Supplier or its Subcontractor, 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.

26.3 The Procuring Entity or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Sub-Clause 26.2, provided that the Procuring Entity bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all travelling and board and lodging expenses.

26.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Procuring Entity. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Procuring Entity or its designated representative to attend the test and/or inspection.

26.5 The Procuring Entity may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.

26.6 The Supplier shall provide the Procuring Entity with a report of the results of any such test and/or inspection.

26.7 The Procuring Entity may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Procuring Entity, and shall repeat the test and/or inspection, at no cost to the Procuring Entity, upon giving a notice pursuant to GCC Sub- Clause 26.4.

26.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Procuring Entity or its representative, nor the issue of any report pursuant to GCC Sub-Clause 26.6, shall release the Supplier from any warranties or other obligations under the Contract.

27. Liquidated Damages

27.1 Except as provided under GCC Clause 32, if the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery or perform the Related Services within the period specified in the Contract, the Procuring Entity may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the **SCC** of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in those **SCC.** Once the maximum is reached, the Procuring Entity may terminate the Contract pursuant to GCC Clause 35.

28. Warranty

28.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

28.2 Subject to GCC Sub-Clause 22.1(b), the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.

28.3 Unless otherwise specified in the **SCC,** the warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the **SCC,** or for eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.

28.4 The Procuring Entity shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Procuring Entity shall afford all reasonable opportunity for the Supplier to inspect such defects.

28.5 Upon receipt of such notice, the Supplier shall, within the period specified in the **SCC,** expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Procuring Entity.

28.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the **SCC,** the Procuring Entity may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring Entity may have against the Supplier under the Contract.

29. Patent Indemnity

29.1 The Supplier shall, subject to the Procuring Entity's compliance with GCC Sub-Clause 29.2, indemnify and hold harmless the Procuring Entity and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Procuring Entity may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

a) the installation of the Goods by the Supplier or the use of the Goods in the country where the Site is located; and
b) the sale in any country of the products produced by the Goods.

Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any

products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Supplier, pursuant to the Contract.

29.2 If any proceedings are brought or any claim is made against the Procuring Entity arising out of the matters referred to in GCC Sub-Clause 29.1, the Procuring Entity shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Procuring Entity's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

29.3 If the Supplier fails to notify the Procuring Entity within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Procuring Entity shall be free to conduct the same on its own behalf.

29.4 The Procuring Entity shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.

29.5 The Procuring Entity shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Supplier may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Procuring Entity.

30. Limitation of Liability

30.1 Except in cases of criminal negligence or willful misconduct,

a) the Supplier shall not be liable to the Procuring Entity, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Procuring Entity, and

b) the aggregate liability of the Supplier to the Procuring Entity, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier to indemnify the Procuring Entity with respect to patent infringement.

31. Change in Laws and Regulations

31.1 Unless otherwise specified in the Contract, if after the date of 30 days prior to date of Tender submission, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in Kenya (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with GCC Clause 15.

32. Force Majeure

32.1 The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of

Force Majeure.

32.2 For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Procuring Entity in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

32.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring Entity in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring Entity in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

33. Change Orders and Contract Amendments

33.1 The Procuring Entity may at any time order the Supplier through notice in accordance GCC Clause 8, to make changes within the general scope of the Contract in any one or more of the following:

a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Procuring Entity;

b) the method of shipment or packing;

c) the place of delivery; and

d) the Related Services to be provided by the Supplier.

33.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery/Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Supplier's receipt of the Procuring Entity's change order.

33.3 Prices to be charged by the Supplier for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

33.4 **Value Engineering:** The Supplier may prepare, at its own cost, a value engineering proposal at any time during the performance of the contract. The value engineering proposal shall, at a minimum, include the following;

a) the proposed change(s), and a description of the difference to the existing contract requirements;

b) a full cost/benefit analysis of the proposed change(s) including a description and estimate of costs (including life cycle costs) the Procuring Entity may incur in implementing the value engineering proposal; and

c) a description of any effect(s) of the change on performance/functionality.

33.5 The Procuring Entity may accept the value engineering proposal if the proposal demonstrates benefits that:

a) accelerates the delivery period; or

b) reduces the Contract Price or the life cycle costs to the Procuring Entity; or

c) improves the quality, efficiency or sustainability of the Goods; or

d) yields any other benefits to the Procuring Entity, without compromising the necessary functions of the Facilities.

33.6 If the value engineering proposal is approved by the Procuring Entity and results in:

a) a reduction of the Contract Price; the amount to be paid to the Supplier shall be the percentage specified **in the SCC** of the reduction in the Contract Price; or

b) an increase in the Contract Price; but results in a reduction in life cycle costs due to any benefit described in (a) to (d) above, the amount to be paid to the Supplier shall be the full increase in the Contract Price.

33.7 Subject to the above, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

34. Extensions of Time

34.1 If at any time during performance of the Contract, the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services pursuant to GCC Clause 13, the Supplier shall promptly notify the Procuring Entity in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier's notice, the Procuring Entity shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

34.2 Except in case of Force Majeure, as provided under GCC Clause 32, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 26, unless an extension of time is agreed upon, pursuant to GCC Sub-Clause 34.1.

35. Termination

35.1 Termination for Default

a) The Procuring Entity, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:
   i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Procuring Entity pursuant to GCC Clause 34;
   ii) if the Supplier fails to perform any other obligation under the Contract; or
   iii) if the Supplier, in the judgment of the Procuring Entity has engaged in Fraud and Corruption, as defined in paragraph 2.2 a of the Appendix to the GCC, in competing for or in executing the Contract.

b) In the event the Procuring Entity terminates the Contract in whole or in part, pursuant to GCC Clause 35.1(a), the Procuring Entity may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Procuring Entity for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

35.2 Termination for Insolvency.

The Procuring Entity may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Procuring Entity

35.2 Termination for Convenience.

a) The Procuring Entity, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Procuring Entity's convenience, the extent to which

performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Procuring Entity at the Contract terms and prices. For the remaining Goods, the Procuring Entity may elect:
   i) to have any portion completed and delivered at the Contract terms and prices; and/or
   ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

36. Assignment

36.1 Neither the Procuring Entity nor the Supplier shall assign, in whole or in part, their obligations under this Contract, except with prior written consent of the other party.

37. Export Restriction

37.1 Notwithstanding any obligation under the Contract to complete all export formalities, any export restrictions attributable to the Procuring Entity, to Kenya, or to the use of the products/goods, systems or services to be supplied, which arise from trade regulations from a country supplying those products/goods, systems or services, and which substantially impede the Supplier from meeting its obligations under the Contract, shall release the Supplier from the obligation to provide deliveries or services, always provided, however, that the Supplier can demonstrate to the satisfaction of the Procuring Entity that it has completed all formalities in a timely manner, including applying for permits, authorizations and licenses necessary for the export of the products/goods, systems or services under the terms of the Contract. Termination of the Contract on this basis shall be for the Procuring Entity's convenience pursuant to Sub-Clause 35.3.

SECTION VII - SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract (SCC) shall supplement and/or amend the General The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

[The Procuring Entity shall select insert the appropriate wording using the samples below or other acceptable wording, and delete the text in italics]

Number of GC Clause	**Amendments of, and Supplements to, Clauses in the General Conditions of Contract**
GCC 1.1(h)	The Procuring Entity is: Ministry of Health - State Department for Medical Services jointly with the Council of Governors -Afya House, Cathedral Road P. O. Box 30016 - 00100 NAIROBI
GCC 4.2 (a)	The meaning of the trade terms shall be as prescribed by Incoterms. If the meaning of any trade term and the rights and obligations of the parties thereunder shall not be as prescribed by Incoterms, they shall be as prescribed by: *[exceptional; refer to other internationally accepted trade terms]*
GCC 4.2 (b)	The version edition of Incoterms shall be *2020 edition*
GCC 8.1	For **notices**, the Procuring Entity's address shall be: Attention: The Principal Secretary Ministry of Health State Department for Medical Services Afya House, Cathedral Road P. O. Box 30016 - 00100 NAIROBI
GCC 10.4.2	The place of arbitration shall be NAIROBI, KENYA
GCC 15.1	The prices charged for the Goods supplied and the related Services performed ***SHALL NOT* be adjustable.** If prices are adjustable, the following method shall be used to calculate the price adjustment *[see attachment to these SCC for a sample Price Adjustment Formula]*
GCC 16.1	***Sample provision*** GCC 16.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows: ***Payment shall be made after the goods have been supplied and delivered, have been inspected and accepted by the Inspection and Acceptance Committee.***
GCC 18.1	**A 5% Performance Security *may be required prior to the issuance of a purchase order***
GCC 18.3	N/A
GCC 18.4	N/A
GCC 23.2	The packing, marking and documentation within and outside the packages shall be: **N/A**
GCC 24.1	**N/A**
GCC 26.1	The inspections and tests shall be: ***[shall be carried out by the inspection and acceptance committee]***
GCC 26.2	The Inspections and tests shall be conducted at: *the delivery point*

SECTION VIII - CONTRACT FORMS

This Section contains forms which, once completed, will form part of the Contract. The forms for Performance Security and Advance Payment Security, when required, shall only be completed by the successful tenderer after contract award.

FORM No. 1: NOTIFICATION OF INTENTION TO AWARD

This Notification of Intention to Award shall be sent to each Tenderer that submitted a Tender. Send this Notification to the Tenderer's Authorized Representative named in the Tender Information Form on the format below.

FORMAT

1. For the attention of Tenderer's Authorized Representative

   I) Name:_____*[insert Authorized Representative's name]*

   ii) Address:_____*[insert Authorized Representative's Address]*

   iii) Telephone:_____*[insert Authorized Representative's telephone/fax numbers]*

   iv) Email Address:_____*[insert Authorized Representative's email address]*

   [IMPORTANT: insert the date that this Notification is transmitted to Tenderers. The Notification must be sent to all Tenderers simultaneously. This means on the same date and as close to the same time as possible.]

2. Date of transmission:_____[*email*] on [*date*]_____(local time)

   This Notification is sent by_____(*Name and designation*) _____

3. Notification of Intention to Award

   I) Employer:_____*[insert the name of the Employer]*

   ii) Project:_____*[insert name of project]*

   iii) Contract title:_____*[insert the name of the contract]*

   iv) Country:_____*[insert country where ITT is issued]*

   v) ITT No:_____*[insert ITT reference number from Procurement Plan]*

   This Notification of Intention to Award (Notification) notifies you of our decision to award the above contract. The transmission of this Notification begins the Standstill Period. During the Standstill Period, you may:

4. Request a debriefing in relation to the evaluation of your tender

   Submit a Procurement-related Complaint in relation to the decision to award the contract.

   (i) The successful tenderers:

   (ii) Other Tenderers

   Names of all Tenderers that submitted a Tender. If the Tender's price was evaluated include the evaluated price as well as the Tender price as read out.

(Note a) State NE if not evaluated

5. How to request a debriefing

a) DEADLINE: The deadline to request a debriefing expires at midnight on [*insert date*] (*local time*).

b) You may request a debriefing in relation to the results of the evaluation of your Tender. If you decide to request a debriefing your written request must be made within three (5) Business Days of receipt of this Notification of Intention to Award.

c) Provide the contract name, reference number, name of the Tenderer, contact details; and address the request for debriefing as follows:

I) Attention:_____[*insert full name of person, if applicable*]

ii) Title/position:_____[*insert title/position*]

ii) Agency:_____[*insert name of Employer*]

iii) Email address:_____[*insert email address*]

d) If your request for a debriefing is received within the 3 Days deadline, we will provide the debriefing within five (3) Business Days of receipt of your request. If we are unable to provide the debriefing within this period, the Standstill Period shall be extended by five (3) Days after the date that the debriefing is provided. If this happens, we will notify you and confirm the date that the extended Standstill Period will end.

e) The debriefing may be in writing, by phone, video conference call or in person. We shall promptly advise you in writing how the debriefing will take place and confirm the date and time.

f) If the deadline to request a debriefing has expired, you may still request a debriefing. In this case, we will provide the debriefing as soon as practicable, and normally no later than fifteen (15) Days from the date of publication of the Contract Award Notice.

6. How to make a complaint

a) Period: Procurement-related Complaint challenging the decision to award shall be submitted by midnight, [*insert date*] (local time).

b) Provide the contract name, reference number, name of the Tenderer, contact details; and address the Procurement-related Complaint as follows:

I) Attention:_____[*insert full name of person, if applicable*]

ii) Title/position:_____[*insert title/position*]

iii) Agency:_____[*insert name of Employer*]

iv) Email address:_____[*insert email address*]

c) At this point in the procurement process, you may submit a Procurement-related Complaint challenging the decision to award the contract. You do not need to have requested, or received, a debriefing before making this complaint. Your complaint must be submitted within the Standstill Period and received by us before the Standstill Period ends.

d) Further information: For more information refer to the Public Procurement and Disposals Act 2015 and its Regulations available from the Website www.ppra.go.ke or email complaints@ppra.go.ke.

You should read these documents before preparing and submitting your complaint.

e) There are four essential requirements:

i) You must be an 'interested party'. In this case, that means a Tenderer who submitted a Tender in this tendering process, and is the recipient of a Notification of Intention to Award.

ii) The complaint can only challenge the decision to award the contract.

iii) You must submit the complaint within the period stated above.

iv) You must include, in your complaint, all of the information required to support your complaint.

7. Standstill Period

i) DEADLINE: The Standstill Period is due to end at midnight on [*insert date*] (local time).

ii) The Standstill Period lasts ten (14) Days after the date of transmission of this Notification of Intention to Award.

iii) The Standstill Period may be extended as stated in paragraph Section 5 (d) above.

If you have any questions regarding this Notification please do not hesitate to contact us.

On behalf of the Employer:

Signature: _____

Name: _____

Title/position: _____

Telephone: _____

Email: _____

FORM FOR REVIEW(r.203(1))

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 of ……20…….in the matter of Tender No……..…of ……..20….. for ..... (Tender description).

REQUEST FOR REVIEW

I/We……,the above named Applicant(s), of address: Physical address…….P. O. Box 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.

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

1.

2.

SIGNED ……(Applicant) Dated on…….day of ……/…20……

FOR OFFICIAL USE ONLY Lodged with the Secretary Public Procurement Administrative Review Board on……day of ……....20….……

SIGNED

Board Secretary

FORM NO. 3 LETTER OF AWARD

[Use letter head paper of the Procuring Entity]

[Date]

To: *[name and address of the Supplier]*

Subject: ***Notification of Award Contract No.*** . . . .

This is to notify you that your Tender dated ***[insert date]*** for execution of the ***[insert name of the contract and identification number, as given in the SCC]*** for contract **Lot No… …… (amount……...), Lot No… …… (amount……...), Lot No… …… (amount……...).** etc. are hereby accepted by …… (name of Procuring Entity.

You are requested to arrange to sign the Framework Agreement within 28 days in accordance with the Conditions of Contract. On being instructed to commence the contract on any of the packages you have won, by a call-off notification, you will be requested to furnish for the particular package a Performance Security within 28 days in accordance with the Conditions of Contract, and for that purpose, using one of the Performance Security Forms included in Section VIII, Contract Forms, of the Tender Document.

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Agency: _____

Attachment: Contract Agreement

FORM NO. 4 - CONTRACT AGREEMENT

[The successful tenderer shall fill in this form in accordance with the instructions indicated]

THIS AGREEMENT made the_____*[insert: **number**] day* of___ _____*[insert: **month**]*, [*insert: **year***]. BETWEEN (1)_____*[insert complete name of Procuring Entity* and having its principal place of business at *[insert: address of Procuring Entity]* (hereinafter called "Procuring Entity"), of the one part; and (2)_____*[insert name of Supplier**]***, a corporation incorporated under the laws of *[insert: country of Supplier**]*** and having its principal place of business at_____*[insert: address of Supplier]* (hereinafter called "the Supplier"), of the other part.

1. WHEREAS the Procuring Entity invited Tenders for certain Goods and ancillary services, viz., _____ *[insert brief description of Goods and Services]* and has accepted a Tender by the Supplier for the supply of those Goods and Services, the Procuring Entity and the Supplier agree as follows:

   i) In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.

   ii) The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other contract documents.

      a) the Letter of Acceptance

      b) the Letter of Tender

      c) the Addenda Nos.___(if any)

      d) Special Conditions of Contract

      e) General Conditions of Contract

      f) the Specification (including Schedule of Requirements and Technical Specifications)

      g) the completed Schedules (including Price Schedules)

      h) any other document listed in GCC as forming part of the Contract

   iii) In consideration of the payments to be made by the Procuring Entity to the Supplier as specified in this Agreement, the Supplier hereby covenants with the Procuring Entity to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

2. The Procuring Entity hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services 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.

3. IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Kenya on the day, month and year indicated above.

For and on behalf of the Procuring Entity

Signed:_____*[insert signature]*

in the capacity of_____*[insert title or other appropriate designation]* In the presence of__

_____*[insert identification of official witness]* **For and on behalf of the Supplier**

Signed:_____*[insert signature of authorized representative(s) of the Supplier]* in the capacity of_____*[insert title or other appropriate designation]* in the presence of_____*[insert identification of official witness]*

FORM NO. 5 - PERFORMANCE SECURITY

[Option 1 - Unconditional Demand Bank Guarantee]

[Guarantor letterhead]

Beneficiary: *[insert name and Address of Employer]*

Date: *[Insert date of issue]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

1. We have been informed that _____(hereinafter called "the Contractor") has entered into Contract No._____ _____dated _____with *(name of Employer)*_____(the Employer as the Beneficiary), for the execution of_____(hereinafter called "the Contract").

2. Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

3. At the request of the Contractor, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of___(*in words*),[1] such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

4. This guarantee shall expire, no later than the …. Day of ……, 2...…[2], and any demand for payment under it must be received by us at the office indicated above on or before that date.

5. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed *[six months] [one year],* in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."

_____

[Name of Authorized Official, signature(s) and seals/stamps]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

FORM No. 6 - PERFORMANCE SECURITY

[Option 2– Performance Bond]

[Note: Procuring Entities are advised to use Performance Security – Unconditional Demand Bank Guarantee instead of Performance Bond due to difficulties involved in calling Bond holder to action]

[Guarantor letterhead or SWIFT identifier code]

Beneficiary:_____*[insert name and Address of Employer] Date***:**_____*[Insert date of issue]*

PERFORMANCE BOND No.:_____

Guarantor:_____*[Insert name and address of place of issue, unless indicated in the letterhead]*

1. By this Bond_____ as Principal (hereinafter called "the Contractor") and_____] as Surety (hereinafter called "the Surety"), are held and firmly bound unto__] as Obligee (hereinafter called "the Employer") in the amount of_____for the payment of which sum well and truly to be made in the types and proportions of currencies in which the Contract Price is payable, the Contractor and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

2. WHEREAS the Contractor has entered into a written Agreement with the Employer dated the_____day of , 20 _____, for_____in accordance with the documents, plans, specifications, and amendments thereto, which to the extent herein provided for, are by reference made part hereof and are hereinafter referred to as the Contract.

3. NOW, THEREFORE, the Condition of this Obligation is such that, if the Contractor shall promptly and faithfully perform the said Contract (including any amendments thereto), then this obligation shall be null and void; otherwise, it shall remain in full force and effect. Whenever the Contractor shall be, and declared by the Employer to be, in default under the Contract, the Employer having performed the Employer's obligations thereunder, the Surety may promptly remedy the default, or shall promptly:

   1) complete the Contract in accordance with its terms and conditions; or

   2) obtain a tender or tenders from qualified tenderers for submission to the Employer for completing the Contract in accordance with its terms and

conditions, and upon determination by the Employer and the Surety of the lowest responsive Tenderers, arrange for a Contract between such Tenderer, and Employer and make available as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the Balance of the Contract Price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "Balance of the Contract Price," as used in this paragraph, shall mean the total amount payable by Employer to Contractor under the Contract, less the amount properly paid by Employer to Contractor; or

3) pay the Employer the amount required by Employer to complete the Contract in accordance with its terms and conditions up to a total not exceeding the amount of this Bond.

4. The Surety shall not be liable for a greater sum than the specified penalty of this Bond.

5. Any suit under this Bond must be instituted before the expiration of one year from the date of the issuing of the Taking-Over Certificate. No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Employer named herein or the heirs, executors, administrators, successors, and assigns of the Employer.

6. In testimony whereof, the Contractor has hereunto set his hand and affixed his seal, and the Surety has caused these presents to be sealed with his corporate seal duly attested by the signature of his legal representative, this day _____of _____ 20_____.

SIGNED ON _____ on behalf of _____

By _____ in the capacity of _____

In the presence of _____

SIGNED ON _____ on behalf of _____

By _____ in the capacity of _____

In the presence of _____

FORM NO. 7 - ADVANCE PAYMENT SECURITY

[Demand Bank Guarantee]

[Guarantor letterhead]

Beneficiary:
_____ *[Insert name and Address of* Employer*]*
Date:_____ *[Insert date of issue]*

ADVANCE PAYMENT GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: [*Insert name and address of place of issue, unless indicated in the letterhead]*

1. We have been informed that _____ (hereinafter called "the Contractor") has entered into Contract No. _____ *dated* _____ with the Beneficiary, for the execution of _____ (hereinafter called "the Contract").

2. Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum _____ (*in words*____) is to be made against an advance payment guarantee.

3. At the request of the Contractor, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (*in words* _____) [1] upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating either that the Applicant:

(a) has used the advance payment for purposes other than the costs of mobilization in respect of the goods; or
(b) has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Applicant has failed to repay.

4. A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the advance payment referred to above has been credited to the Contractor on its account number _____ at ----------.

5. The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor as specified in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that ninety (90) percent of the Accepted Contract Amount, less provisional sums, has been certified for payment, or on the ___

[1] *The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency of the advance payment as specified in the Contract.*

day of _____, 2___,[2] whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

6. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed *[six months] [one year],* in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.

_____
_____ *[Name of Authorized Official, signature(s) and seals/stamps*]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

[2] *Insert the expected expiration date of the Time for Completion. The Employer should note that in the event of an extension of the time for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.*

FORM NO. 8 BENEFICIAL OWNERSHIP DISCLOSURE FORM

(Amended and issued pursuant to PPRA CIRCULAR No. 02/2022)

INSTRUCTIONS TO TENDERERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE FORM

This Beneficial Ownership Disclosure Form ("Form") is to be completed by the successful tenderer pursuant to Regulation 13 (2A) and 13 (6) of the Companies (Beneficial Ownership Information) Regulations, 2020. In case of joint venture, the tenderer must submit a separate Form for each member. The beneficial ownership information to be submitted in this Form shall be current as of the date of its submission.

For the purposes of this Form, a Beneficial Owner of a Tenderer is any natural person who ultimately owns or controls the legal person (tenderer) or arrangements or a natural person on whose behalf a transaction is conducted, and includes those persons who exercise ultimate effective control over a legal person (Tenderer) or arrangement.

Tender Reference No.:_____[*insert identification no*] Name of the Tender Title/Description:_____*[insert name of the assignment]* to:_____*[insert complete name of Procuring Entity]*

In response to the requirement in your notification of award dated__*[insert date of notification of award]* to furnish additional information on beneficial ownership:_____*[select one option as applicable and delete the options that are not applicable]*

I) We here by provide the following beneficial ownership information.

Details of beneficial ownership

	Details of all Beneficial Owners		**% of shares a person holds in the company Directly or indirectly**	**% of voting rights a person holds in the company**	**Whether a person directly or indirectly holds a right to appoint or remove a member of the board of directors of the company or an equivalent governing body of the Tenderer** (Yes / No)	**Whether a person directly or indirectly exercises significant influence or control over the Company (tenderer) (Yes / No)**
	Full Name		Directly---------- % of shares	Directly…… …….% of voting rights	1.Having the right to appoint a majority of	1.Exercises significant influence or
	National identity card					

	Details of all Beneficial Owners		**% of shares a person holds in the company Directly or indirectly**	**% of voting rights a person holds in the company**	**Whether a person directly or indirectly holds a right to appoint or remove a member of the board of directors of the company or an equivalent governing body of the Tenderer** (Yes / No)	**Whether a person directly or indirectly exercises significant influence or control over the Company (tenderer) (Yes / No)**
1.	number or Passport number		Indirectly----------% of shares	Indirectly----------% of voting rights	the board of the directors or an equivalent governing body of the Tenderer: Yes -----No---- 2.Is this right held directly or indirectly? Direct…… …… Indirect…… ……...	control over the Company body of the Company (tenderer) Yes -----No---- 2.Is this influence or control exercised directly or indirectly? Direct…… …….. Indirect… ……
	Personal Identification Number (where applicable)					
	Nationality					
	Date of birth *[dd/mm/yyyy]*					
	Postal address					
	Residential address					
	Telephone number					
	Email address					
	Occupation or profession					
2.	Full Name		Directly---------- % of shares Indirectly-	Directly…… …….% of voting rights Indirectly----------% of voting	1.Having the right to appoint a majority of the board of the directors or an equivalent	1.Exercises significant influence or control over the Company
	National identity card number or Passport number					

	Details of all Beneficial Owners		**% of shares a person holds in the company Directly or indirectly**	**% of voting rights a person holds in the company**	**Whether a person directly or indirectly holds a right to appoint or remove a member of the board of directors of the company or an equivalent governing body of the Tenderer** (Yes / No)	**Whether a person directly or indirectly exercises significant influence or control over the Company (tenderer) (Yes / No)**
	Personal Identification Number (where applicable)		---------% of shares	rights	governing body of the Tenderer: Yes -----No---- 2.Is this right held directly or indirectly? Direct…… …… Indirect…… ……...	body of the Company (tenderer) Yes -----No---- 2.Is this influence or control exercised directly or indirectly? Direct…… …….. Indirect… ……
	Nationality(ies)					
	Date of birth *[dd/mm/yyyy]*					
	Postal address					
	Residential address					
	Telephone number					
	Email address					
	Occupation or profession					
3. **e.t.c**						

II) Am fully aware that beneficial ownership information above shall be reported to the Public Procurement Regulatory Authority together with other details in relation to contract awards and shall be maintained in the Government Portal, published and made publicly available

pursuant to Regulation 13(5) of the Companies (Beneficial Ownership Information) Regulations, 2020.(Notwithstanding this paragraph Personally Identifiable Information in line with the Data Protection Act shall not be published or made public). *Note that Personally Identifiable Information (PII) is defined as any information that can be used to distinguish one person from another and can be used to deanonymize previously anonymous data. This information includes National identity card number or Passport number, Personal Identification Number, Date of birth, Residential address, email address and Telephone number.*

III) In determining who meets the threshold of who a beneficial owner is, the Tenderer must consider a natural person who in relation to the company:

(a) holds at least ten percent of the issued shares in the company either directly or indirectly;

(b) exercises at least ten percent of the voting rights in the company either directly or indirectly;

(c) holds a right, directly or indirectly, to appoint or remove a director of the company; or

(d) exercises significant influence or control, directly or indirectly, over the company.

IV) What is stated to herein above is true to the best of my knowledge, information and belief.

Name of the Tenderer: .....[insert complete name of the Tenderer]*_____

*Name of the person duly authorized to sign the Tender on behalf of the Tenderer: ** [insert complete name of person duly authorized to sign the Tender]*

Designation of the person signing the Tender: ..... [insert complete title of the person signing the Tender]

Signature of the person named above: ..... [insert signature of person whose name and capacity are shown above]

Date this ..... [insert date of signing] day of..... [Insert month], [insert year]

Bidder Official Stamp