MACHAKOS UNIVERSITY

P O Box 136 – 90100, MACHAKOS

Email:vc@mksu.ac.ke

ITT NO.: MKSU/OT/05/2024/2025

ITT NAME: SUPPLY AND DELIVERY, TESTING AND COMMISSIONING OF MEDICAL EQIPMENT FOR HEALTH SCIENCES

CLOSING DATE: TUESDAY 25TH MARCH 2025 AT 10.00AM

PROCURING ENTITY: MACHAKOS UNIVERSITY P.O.BOX 136 – 90100 MACHAKOS

CONTRACT NAME AND DESCRIPTION: SUPPLY AND DELIVERY, TESTING AND COMMISSIONING OF MEDICAL EQUIPMENTS FOR HEALTH SCIENCES

1. The Machakos University invites sealed tenders for the SUPPLY, DELIVERY, TESTING AND COMMISSIONING OF MEDICAL EQUIPMENTS FOR HEALTH SCIENCES

2. Qualified and interested tenderers may obtain further information and inspect the Tender Documents during office hours 8.00 a.m. to 5.00 p.m. at the address given below. Tender documents may be viewed and/or downloaded from the website: **www.mksu.ac.ke** or **http://www.tenders.go.ke/.**

3. A complete set of tender documents may be purchased or obtained by interested tenders upon payment of a non- refundable fees of KES1,000 in cash or Banker's Cheque and payable to the address given below. Tender documents obtained electronically will be free of charge.

4. Tender documents may be viewed and downloaded for free from the website: **www.mksu.ac.ke or http://www.tenders.go.ke/.** Tenderers who download the tender document must forward their particulars immediately to Procurement Officer, **Machakos University, P.O. Box 136 - 90100**, Machakos; ***po@mksu.ac.ke*** to facilitate any further clarification or addendum.

5. All tender must be accompanied by a tender Security of an amount equivalent to **Ksh.200,000.00 (Bank Guarantee).Valid for 180 days from the date of the tender opening.**

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

7. Completed tenders must be delivered to the address below on or before ***Tuesday, 25th March, 2025 at 10.00 am.*** Electronic Tenders will not be permitted.

8. 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.

9. Late tenders will be rejected.

10. The addresses referred to above are:

A. Address for obtaining further information and for purchasing tender documents

1) Name of Procuring Entity: **Machakos University**

2) Physical address for hand Courier Delivery to an office or Tender Box:
Along Machakos - Wote road, Administration Block

3) Postal Address:
136 - 90100, MACHAKOS

4) **The Vice Chancellor Machakos University P O Box 136 – 90100, Machakos, Kenya.;**
Email:vc@mksu.ac.ke

B. Address for Submission of Tenders.

1) Name of Procuring Entity:
Machakos University

2) Postal Address:
The Vice Chancellor
Machakos University
P O Box 136 – 90100,

Machakos, Kenya.
Email: vc@mksu.ac.ke

3) Physical address for hand Courier Delivery:
Completed tender documents are to be enclosed in plain sealed envelopes, marked with Tender Number and be deposited in the Tender Box at the entrance of the Administration block.

C. Address for Opening of Tenders.

1) Name of Procuring Entity: **Machakos University**

2) Physical address for the location:
Vice Chancellor,
Machakos University,
P.O. Box 136 - 90100,
Machakos
Tenders will be opened publicly in the University Conference Room 10 immediately after the above Stated closing date and time in the presence of the candidates or their representatives who choose to attend.

VICE -CHANCELLOR

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.

33 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.

34 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.

35 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.

36 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.

37 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

38 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.

39 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 serialize 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 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 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 Award, without thereby incurring any liability to Tenderers. In case of annulment, all Tenderers shall be notified with reasons andall 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: **MKSU/OT/05/2024/2025** The Procuring Entity is: **MACHAKOS UNIVERSITY** The name of the Contract is: **SUPPLY, DELIVERY, TESTING AND COMMISSIONING OF MEDICAL EQUIPMENT FOR HEALTH SCIENCES**
ITT 1.2(a)	Electronic –Procurement System shall **NOT** be used for this procurement proceedings.
ITT 3.1	Maximum number of members in the Joint Venture (JV) shall be: **None (Joint Venture shall not be required)**
ITT 3.7	A list of debarred firms and individuals is available on the PPRA's website: www.ppra.go.ke
ITT 3.11	Tenderers shall be required to be to be registered with **Registrar of Companies**
	B. Contents of Tendering Document
ITT 6.1	(a) Address where to send enquiries is **Vice Chancellor** **Machakos University** **P.O. Box 136 - 90100** **Machakos** **Email:vc@mksu.ac.ke** **Tel: : 254 – (0)735 247939/(0)723 805829** to reach the Procuring Entity not later than **three (3) days prior to the deadline for submission of the tender.** (b) The Procuring Entity publish its response at the website **www.mksu.ac.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 **N/A**
ITT 6.5	The Minutes of the Pre-Tender meeting shall be published on the at the website: **N/A**
	C. Preparation of Tenders
ITT 10 (j)	The Tenderer shall submit the following additional documents in its Tender: **N/A**
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 lot (contract) shall correspond at least **to 100%** percent of the items specified for each lot (contract). Prices quoted for each item of a lot shall correspond at least to **100%** percent of the quantities specified for this item of a lot.
ITT 13.8 (a) (i) and (iii)	Place of final destination: **Machakos University**
ITT 13.8 (a) (iii)	Final Destination (Project Site): **Machakos University**
ITT 13.8 (b) (i)	place of destination, in Kenya is **Machakos University**
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 **Machakos University**
13.8 (c) (iv)	Place of final destination (Project Site) is **Machakos University**
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): **N/A**
ITT 16.2 (a)	Manufacturer's authorization is: **Required**

ITT Reference	Particulars Of Appendix To Instructions To Tenders
ITT 16.2 (b)	After sales service is: **Required**
ITT 17.1	The Tender validity period shall be **150** 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: *(i)* By **Zero** % of t*he local currency portion of the Contract price adjusted to reflect local inflation during the period of extension, and* *(ii) By* **Zero** *% the foreign currency portion of the Contract price adjusted to reflect the international inflation during the period of extension.*
ITT 18.1	Tender shall provide **Tender Security**. The type of Tender security shall be **Bank Guarantee** in the amount of Kenya Shillings, Two Hundred Thousand Shillings only (Ksh.200,000.00) valid for 180 days from the date of tender submission deadline
ITT 19.1	In addition to the original of the Tender, the number of copies is**: One (1) copy**
ITT 19.3	The written confirmation of authorization to sign on behalf of the Tenderer shall consist of**: Power of Attorney document duly signed and witnessed**
	D. Submission and Opening of Tenders
ITT 20.3	A tender package or container that cannot fit in the tender box shall be received as follows: **at Procurement Department and acknowledgement of receipt shall be issued**
ITT 21.1	For **Tender submission purposes** only, the Procuring Entity's address is: Vice Chancellor Machakos University P.O. Box 136 - 90100 Machakos Email:vc@mksu.ac.ke Tel: : 254 – (0)735 247939/(0)723 805829 Machakos University is situated along Machakos-Wote Road **The deadline for Tender submission is:** Date: **25th March 2025** Time: **10:00 am** tenderers **shall not** have the option of submitting their Tenders electronically.
ITT 24.1	The Tender opening shall take place at: Machakos University. Machakos University is situated along Machakos-Wote Road **Date: 25th March 2025** **Time:** 10:00 am Tenders will be opened publicly in the University Conference Room 10 immediately after the above stated closing date and time in the presence of the candidates or their representatives who choose to attend. tenderers **shall not** have the option of submitting their Tenders electronically.
ITT 24.6	The number of representatives of the Procuring Entity to sign is **One**
E. Evaluation and Comparison of Tenders	
ITT 29.3	The manner of rectify quantifiable nonmaterial nonconformities described below: **Shall not be allowed**
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: **Central Bank in Kenya.**
ITT 32.5	The invitation to tender will be open to all eligible bidders
ITT 33.2	Price evaluation will be done for **Price received**

ITT Reference	Particulars Of Appendix To Instructions To Tenders
ITT 33.2 (d)	Additional evaluation factors are **N/A**
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; insert complementary details if necessary]*** **(a)** Deviation in Delivery schedule: **No** **(b)** Deviation in payment schedule: **No** **(c)** the cost of major replacement component, mandatory spare parts, and service: **No** **(d)** the availability in Kenya of spare parts and after-sales services for the equipment offered in the Tender **No** **(e)** Life cycle costs: the costs during the life of the goods or equipment **No** **(f)** the performance and productivity of the equipment offered; **No**
	F. Award of Contract
ITT 41.1	The maximum percentage by which quantities may be increased is: **Zero %** The maximum percentage by which quantities may be decreased is: **Zero %**
ITT 41.1	The Procuring Entity shall increase or decrease the quantity of Goods and Related Services by an amount not exceed **Zero** % 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 in the sum of **N/A**
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. If a Tenderer wishes to make a Procurement-related Complaint, the Tenderer should submit its complaint following these procedures, in writing (by the quickest means available, that is either by email or fax), to: For the attention: *[insert full name of person receiving complaints]* Title/position: *[insert title/position]* Procuring Entity: *[insert name of Procuring Entity]* Email address*: [insert email address]* In summary, a Procurement-related Complaint may challenge any of the following: 1. the terms of the Tendering Documents; and 2. the Procuring Entity's decision to award the contract.

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

Preliminary/Mandatory Evaluation Criteria

The following documents are mandatory and must be submitted by the bidders, failure to which the tender will be treated as non-responsive.

S/No.	Completeness and Responsiveness Criteria	Requirement
1.	Form of Tender	Must submit dully filled form of tender on company letter head, signed and stamped in the prescribed format in the tender document.
2	Power of attorney where applicable	Attach signed commitment approval by all the directors appointing an authorized signatory for the subject tender
3	Certificate of Confirmation of Directors and Shareholding (CR12)	Must attach Certificate of Confirmation of Directors and Shareholding (CR12). This requirement is not applicable to sole proprietorships. Sole proprietorships to attach a copy of National Identity Card. The CR12 must be issued within the last six months
4.	Certificate of Independent Tender Determination	Duly Filled, Stamped and Signed
5.	Confidential Business Questionnaire	Duly Filled, Stamped and Signed
6.	Self Declaration on debarment (PPADA 2015)	Duly Filled, Stamped and Signed
7.	Self-Declaration on Corruption /Fraudulent Practices	Duly Filled, Stamped and Signed
8.	Declaration and Commitment to the Code of Ethics	Duly Filled, Stamped and Signed
9.	Tenderer Information Form	Dully filled and stamped (organizational chart not required for this tender – bidders to attach list of board of Directors (CR12 or CR13 or copy of National ID for sole proprietor)
10.	Tender document submission	Submit one (1) original and one (1) Copy of the tender document, paginated and well bound. The bid document Must be chronologically and sequentially serialized i.e., 1,2,3,4…back to back including the original tender document and the table of content and including the last page.
11.	Certificate of Incorporation/ Registration	Must Submit a copy of the Certificate of incorporation or Registration Certificate
12.	Tax Compliance Certificate	Provide valid tax compliance certificate
13.	Trade License	Attach Valid Copy of Trade License or Evidence of renewal from relevant County Government
14.	Written Declaration by all Companies/ Institutions that neither of their Directors have participated in the same Tender as Individual Tenderers, Joint Venture, Sole Proprietor or as a subcontractor	Attach copy of Written declaration letter signed and stamped by the person authorized to sign the Tender
15.	Tender security	Tender security Kenya shillings Two hundred thousand shillings (kshs 200,000.00) valid for 180 days from the date of tender opening and must be in form of Bank Guarantee

Tenderer must comply with all the above requirements so as to proceed to the second stage of technical evaluation on capacity to deliver the contract.

STAGE 2: Technical Evaluation

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. This will be done using the attached product bronchures/catalogues comparing with the procuring entity's specifications provided.

The technical score is either 100% or 0%. A bidder who meets all the below technical requirements will score 100% while a bidder who fails to meet any of the above technical requirements will score 0%. All responsive bidders in technical evaluation will proceed to the next stage of evaluation.

NB. Only bids that qualify at Technical Evaluation above shall proceed to financial/price evaluation.

2.2.2 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.

STAGE 3: PRICE EVALUATION/FINANCIAL EVALUATION

Responsive Bidders in the **Technical evaluation** stage shall proceed to financial evaluation. Financial Evaluation shall involve checking arithmetic errors and completeness of the financial bids.

Financials will be ranked and award shall be to the lowest evaluated bidder per line item. The lowest evaluated tenderer will be awarded a contract for that Lot (Line item), provided the tenderer meets the Eligibility and Qualification Criteria.

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

a) **Performance and productivity of the equipment**:

N/A

b) **Specific additional criteria** [Other specific additional criteria to be considered in the evaluation, and the evaluation method shall be detailed in TDS 34.6][If specific **sustainable procurement technical requirements** have been specified in Section VII- Specification, **either** state that (i) those requirements will be evaluated on a pass/fail (compliance basis) **or** otherwise

(ii) in addition to evaluating those requirements on a pass/fail (compliance basis), if applicable, specify the monetary adjustments to be applied to Tender Prices for comparison purposes on account of Tenders that exceed the specified minimum sustainable procurement technical requirements.]

Multiple Contracts (ITT 33.4)

Multiple contracts will be permitted in accordance with ITT 33.4. Tenderers are evaluated on basis of Lots and the lowest evaluated tenderer identified for each Lot. The Procuring Entity will select one Option of the two Options listed below for award of Contracts.

OPTION 1

i) If a tenderer wins only one Lot, the tenderer will be awarded a contract for that Lot, provided the tenderer meets the Eligibility and Qualification Criteria for that Lot.

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.‖

3. MARGIN OF PREFERENCE

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%.

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:

i) **Group A:** Tenders offering goods manufactured in Kenya, for which (a) labor, 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; ii) **Group B:** All other Tenders offering Goods manufactured in Kenya;

iii) **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. ‖

4. Post-Qualification of Tenderers

(ITT 37) N/A

Post-Qualification Criteria (ITT 37.1)

In case the tender <u>was not subject to pre-qualification</u>, 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.

If the Tenderer is

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

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
_____
_____

_____
[inse
rt 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
_____(*spe*
c ify 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

_____

(*speci fy 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 i n t h e name of the JV.

2.2.2 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.

Financial Evaluation

Tenderers will be evaluated on basis of line item and the lowest evaluated tenderer identified for each line item will be proposed for award. The comparison of prices will be done with the indicative market prices

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.** *[insert one of the following]*

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.

or

ii. The SCC stipulates the payment schedule specified by the Procuring Entity. If a Tender deviate from the schedule and if such deviation is considered acceptable to the Procuring Entity, the Tender will be evaluated by calculating interest earned for any earlier payments involved in the terms outlined in the Tender as compared with those stipulated in the SCC, at the rate per annum [insert adjustment rate].

c) **Cost of major replacement components**, mandatory spare parts, and service. *[insert one of the followings]*
The list of items and quantities of major assemblies, components, and selected spare parts, likely to be required during the initial period of operation specified in the TDS 15.4, is in the List of Goods. An adjustment equal to the total cost of these items, at the unit prices quoted in each Tender, shall be added to the Tender price, for evaluation purposes only.

or
The Procuring Entity will draw up a list of high-usage and high-value items of components and spare parts, along with estimated quantities of usage in the initial period of operation specified in the TDS 15.4. The total cost of these items and quantities will be computed from spare parts unit prices submitted by the tenderer and added to the Tender price, for evaluation purposes only.

or

Tenderer shall provide along with its Tender, the list of recommended spare parts for Goods offered indicating for each item of spare part the recommended quantity and unit, and total CIP final destination prices required during the initial period of operation specified in the TDS 15.4. The prices offered shall not exceed the prevailing prices charged to other parties by the Tenderer. The cost of such spare parts will not be taken into account for tender evaluation. The Procuring Entity may award the contract for spare parts to the Tenderer that is successful for the supply of Goods, by selecting at its option, from the Tender's list of recommended spare parts, such items and quantities against each as the Procuring Entity may deem appropriate at the unit prices indicated by the Tenderer but not exceeding ----% (present) of the cost of Goods [normally not more than 10% or 15%.]

d) **Availability in Kenya** of spare parts and after sales services for equipment offered in the Tender.

An adjustment equal to the cost to the Procuring Entity of establishing the minimum service facilities and parts inventories if quoted separately, shall be added to the Tender price, for evaluation purposes only.

e) **Life Cycle Costs**

If specified in TDS 33.6, an adjustment to consider the additional life cycle costs for the period specified below, such as the operating and maintenance costs of the Goods, will be added to the Tender price, for evaluation purposes only. The adjustment will be evaluated in accordance with the methodology specified below and the following information:

[Note to Procuring Entity: Life cycle costing should be used when the costs of operation and/or maintenance over the specified life of the goods are estimated to be considerable in comparison with the initial cost and may vary among different Tenders. Life cycle costs shall be evaluated on a net present value basis. If life cycle costs apply, then specify the factors required to determine them for evaluation purposes.

[Either amend the following text as required, or delete if life cycle cost is not applicable]

i) number of years for life cycle cost determination *[insert the number of years of economic life of Goods];*
ii) the discount rate to be applied to determine the net present value of the life-cycle-cost is *[insert the discount rate*];

iii) the annual operating and maintenance costs (recurrent costs) shall be determined on the basis of the following methodology: *[insert methodology E.G. This should include factors that will be used for determination of life-cycle- cost such as costs of operation and maintenance, residual value at the end of economic life of Goods, major elements that will be used for determination of cost of operation and maintenance such as fuel, power, labor, spare parts, etc. unit prices of elements such as fuel, power, etc., quantity of annual usage such as Kms or Hours of operation of Goods, Formula for calculation of LCC, etc*];

iv) and the following information is required from tenderers *[insert any information required from tenderers, including prices e.g. Guaranteed fuel and/or power consumption, cost of labour, spare parts, etc*].

f) Performance and productivity of the equipment: *[insert one of the followings]*

i) Performance and productivity of the equipment. An adjustment representing the capitalized cost of additional operating costs over the life of the goods will be added to the Tender price, for evaluation purposes if specified in the TDS 33.6. The adjustment will be evaluated based on the drop in the guaranteed performance or efficiency offered in the Tender below the norm of 100, using the methodology specified below.
*[Insert the methodology and criteria if applicable e.g. The Following aspects could be considered in the formulation of this methodology and criteria: (i) Tender price for the equipment; ii) Price of spare parts required for AAA years of operations, iii) Adjustments to tender price for omissions, deviations and exceptions to technical and commercial conditions in the tender documents; iv) Capitalized cost savings due to the equipment efficiency at the rate of **XXX** (specify currency and amount) for each **YYY %** (percent) above the **minimum ZZZ %** (percent) efficiency; v) Capitalized cost for the auxiliary power consumption at **PPP** (specify currency and amount) per KW for AAA years; and vi) Applicable discount rate of **BBB%**.]*

or

ii) An adjustment to consider the productivity of the goods offered in the Tender will be added to the Tender price, for evaluation purposes only, if specified in ITT 33.6. The adjustment will be evaluated based on the cost per unit of the actual productivity of goods offered in the Tender with respect to minimum required values, using the methodology specified below.

[Insert the methodology and criteria if applicable E.G. The evaluation and comparison of responsive tenders shall be based on the total life cycle cost for XXX years, per unit of output. The life cycle cost shall be the sum of the initial purchase price of the equipment and the cost of operation in electric energy for XXX years of operation at unit cost of AAA (specify currency and amount) per kwh, discounted to net present value at YYY percent.]

g) Specific additional criteria

[Other specific additional criteria to be considered in the evaluation, and the evaluation method shall be detailed in TDS 34.6][If specific **sustainable procurement technical requirements** have been specified in Section VII- Specification, **either** state that (i) those requirements will be evaluated on a pass/fail (compliance basis) **or** otherwise (ii) in addition to evaluating those requirements on a pass/fail (compliance basis), if applicable, specify the monetary adjustments to be applied to Tender Prices for comparison purposes on account of Tenders that exceed the specified minimum sustainable procurement technical requirements.]

22.4. Multiple Contracts (ITT 33.4)

Multiple contracts will be permitted in accordance with ITT 33.4. Tenderers are evaluated on basis of Lots and the lowest evaluated tenderer identified for each Lot. The Procuring Entity will select one Option of the two Options listed below for award of Contracts.

OPTION 1

i) If a tenderer wins only one Lot, the tenderer will be awarded a contract for that Lot, provided the tenderer meets the Eligibility and Qualification Criteria for that Lot.

ii) If a tenderer wins more than one Lot, the tender will be awarded contracts for all won Lots, provided the tenderer meets the aggregate Eligibility and Qualification Criteria for all the Lots. The tenderer will be awarded the combination of Lots for which the tenderer qualifies and the others will be considered for award to second lowest the tenderers.

OPTION 2

The Procuring Entity will consider all possible combinations of won Lots [contract(s)]and determine the combinations with the lowest evaluated price. Tenders will then be awarded to the Tenderer or Tenderers in the combinations provided the tenderer meets the aggregate Eligibility and Qualification Criteria for all the won Lots.

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."

3. MARGIN OF PREFERENCE

3.1 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%.

3.2 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:

i) **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;

ii) **Group B:** All other Tenders offering Goods manufactured in Kenya;

iii) **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."

4. 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.]

4.1 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.

[Note for Procuring Entity to be deleted before issuing the tender documents.
Select requirements (criteria) for post qualification from below as relevant and appropriate for the nature, size and type of Goods and Services to be procured. Generally, for procurement of Goods, unless the value of the item is very large, the criteria for assessment of Manufacturer's technical capability should always be considered more important than its financial resources. For very small value items, the criteria for financial capability may even be omitted].

4.2 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.

4.3 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.

4.4 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].

4.5 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 is:

Option 1, in case of one lot: Total price is: *[insert the total price of the Tender in words and figures, indicating the various amounts and the respective currencies];*

or

Option 2, in case of multiple lots: (a) Total price of each lot [*insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies*]; and (b) Total price of all lots (sum of all lots) [*insert the total price of all lots in words and figures, indicating the various amounts 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)* for..... *(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.

[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 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		

	Type of Conflict	Disclosure YES OR NO	If YES provide details of the relationship with Tenderer
	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

SCHEDULE OF REQUIREMENTS

1. Ergonomic Office Chair

- Chair Design & Structure:
  - **Type: Ergonomic** Task Chair
  - **Frame: durable plastic** for strength and longevity.
  - **Seat Base**: 5-point base with casters (wheels) for mobility.
  - **Backrest:** Mid-back or high-back
  - **Seat Size**: 17–21 inches wide, with a depth of 16–20 inches
  - **Adjustable Features:**
    - **Height** (seat height, backrest height).
    - **Armrests** (height, width, and sometimes angle).
    - **Lumbar support** (height and depth).
    - **Seat depth** and tilt tension.
- Seat and Backrest Features:
  - **Seat Cushion:** High-density foam or memory foam
  - **Seat Material:** Upholstered with breathable fabrics: Mesh
  - **Backrest Support:** Contoured or adjustable lumbar
  - **Backrest Material:** padded upholstery
  - **Back Recline:** Adjustable recline angle (90–130 degrees) with tilt tension
  - **Headrest :** for neck support
- Adjustability:
  - **Seat Height Adjustment:** Gas lift mechanism for easy and smooth height adjustment.16 inches to 21 inches from the floor.
    - **Tilt Mechanism:** Tilt lock and tilt tension adjustment allow the chair to recline and return to an upright position, helping reduce strain on the spine.
    - **Seat Depth Adjustment:** Allows you to adjust the seat depth (distance from backrest to the front edge) to accommodate thigh length.
    - **Armrests: Adjustable armrests** (height, width, and angle), or pivoting armrests, to reduce strain on the shoulders and arms.
    - **Lumbar Support:** Adjustable lumbar support that can be moved up/down and in/out to support the natural curve of the spine.
    - **Backrest Recline/Lock:** Provides flexibility to recline or lock the backrest in a comfortable position.
- Mobility and Stability:
  - **Base Type: 5-point star base** made from metal for stability.
  - **Casters (Wheels):** High-quality casters for mobility, with options for hard floor or carpet **wheels**.
  - **Caster Material:** Soft polyurethane or nylon for quiet, smooth rolling.
  - **Weight Capacity:** 250–400 pounds.
- Durability and Material Quality:
  - **Frame Construction:** Reinforced steel or aluminium frame for long-term durability and support.
  - **Upholstery Material:** High-quality mesh
  - **Armrest Material:** padded
  - **Weight Capacity:** 250 lbs to 400 lbs,
- Aesthetic and Design:
  - **Color Options**: black and mesh fabric.

2. Water dispenser Hot and Normal with storage

1. General Features:
   - **Type: Countertop or Floor-standing** water dispenser.
   - **Water Dispensing Options:**
     - Hot Water (85°C to 95°C)
   - **Storage Capacity:** 6 liters for each temperature setting.
   - **Storage Tank Capacity:** 6 liters
   - **Material:** stainless steel
   - **Cooling Type:** an option for cold water hot and normal settings
2. Safety Features:
   - **Child Safety Lock** to prevent accidental burns from hot water.
   - **Overheat Protection** to prevent the unit from overheating.
   - **Anti-Dry Heating Function** to ensure the device doesn't run dry.
3. Normal/Room Temperature Water Features:
   - **Water Storage Tank:** Stores water at room temperature, ready for drinking.
   - **Dispensing Mechanism:** manual or button-based dispenser

- **Water Tank Size: 6 liters**

4. **Water Tank & Dispensing System:**
   - **Water Tank Capacity: 6L** for both hot and normal water
   - **Refillable Reservoir:** allowing for easy refilling of the internal water tanks.
5. **Power and Energy Efficiency:**
   - **Power Consumption:**
     - Hot Water: 500 to 1000 watts.
     - Normal Water: 50-150 watts
   - **Power Supply: 110V or 220V**
6. **Design & Size:**
   - **Design:** freestanding installation with digital controls or simple mechanical buttons.
   - **Dimensions:** Floor-standing models:30 cm x 30 cm x 100 cm
   - **Finish:** high-quality food-grade plastic
7. **Dispensing Mechanism:**
   - **Button or Taps:** The dispenser may have push-button
   - **Flow Rate:** 1-2 liters per minute
8. **Additional Features:**
   - **LED Display or Indicator Lights:** LED indicators showing the status of the heating or cooling process.

3. <u>Hospital Cellular Blankets 4*6 (Blue in colour) cotton</u>

1. **Material:**
   - **Fabric:** Usually made from 100% cotton, or a cotton-blend for softness and breathability.
   - **Weave:** Cellular (or "waffle weave"), designed to create air pockets for better insulation and lightweight warmth.
   - **Color:** Blue
2. **Dimensions:**
   - **Size:** 4 feet by 6 feet (121 cm x 183 cm).
3. **Weight:**
   - 500g to 900g.
4. **Care Instructions:**
   - Machine washable (typically at 40°C or 60°C).

4. <u>Cellulose pillow cases 20 by 26 inches (51X56 cm)</u>

1. **Material Composition:**
   - **Fabric:** 100% **Cellulose-based fibers** (Rayon, Viscose, or a blend of cellulose materials).
2. **Dimensions:**
   - **Size:** Standard 20 inches x 26 inches (51 x 66 cm).
3. **Design & Features:**
   - **Closure Type: Envelope closure** or **overlap closure** to securely encase the pillow without zippers or buttons.
   - **Color Options:** Primarily blue
   - **Texture:** Soft and smooth to the touch with no rough seams.
   - **Finish:** Often with a **non-pilling** surface
4. **Care Instructions:**
   - **Machine washable**
   - **Wash temperature:** Can be washed at **up to 60°C** for disinfecting purposes, but check the manufacturer's specific instructions.
   - **Drying: Tumble dry on low** or air dry; avoid high heat to maintain fabric integrity.

5.**Certifications & Compliance:**
   - **Healthcare Standards:** Often compliant with hospital-grade textile regulations for comfort, safety, and hygiene.
   - **Non-toxic Dyes:** Should meet **OEKO-TEX** certification (for non-toxic, safe materials), particularly for medical-grade materials.

<u>5. Draw mackintosh 130 x 200 green rubber</u>

1. **Material Composition:**
   - **Fabric Base: polyester fabric** as the base material.
   - **Coating: Rubberized coating** on one side
   - **Color:** Green
   - **Surface Texture:** Smooth, non-porous rubberized surface on one side, with soft fabric on the reverse side for comfort.
2. **Dimensions:**

- **Size: 130 x 200 cm** (approximately 51 x 79 inches),

3. **Design & Features:**
   - **Edges:** Often **hemmed or sealed** to prevent fraying and enhance durability.
   - **Foldable:** Flexible and easy to fold or roll for storage when not in use.
4. **Care Instructions:**
   - **Cleaning:** Can be wiped down with a damp cloth for spot cleaning or machine washed

6. Bed covers Blue 4 by 6 feet

1. **Material Composition:**
   - **Fabric:** a poly-cotton blend
   - **Color:** Blue
   - **Weight:** 200-250 gsm (grams per square meter)
2. **Dimensions:**
   - **Size: 4 feet by 6 feet** (121 cm x 183 cm)
   - **Shape:** Rectangular,
3. **Care Instructions:**
   - **Machine Washable:** at temperatures between **40°C and 60°C**

7. Draw sheets T-180

1. **Material Composition:**
   - **Fabric:** cotton-polyester blend.
2. **Thread Count:**
   - **Thread Count: T-180**, which means the sheet has 180 threads woven in a square inch.
3. **Dimensions:**
   - **Size: Full:** 54 x 75 inches (137 x 191 cm)
4. **Design & Features:**
   - **Weave: Percale weave** (a simple, tight weave pattern) is common for T-180 sheets, giving them a smooth, crisp feel and a durable finish.
   - **Color:** blue.
   - **Edge Type:** hemmed edges
5. **Care Instructions:**
   - **Washing Instructions:** Typically washed at 40°C to 60°C

8. Examination Couch

1. **General Features:**
   - **Couch Dimensions:**
     - **Height: 610mm–810mm** adjustable
     - **Width: 630mm**
     - **Length: 1850mm**
2. **Construction and Materials:**
   - **Frame Material:** Typically made of **powder-coated steel**, **stainless steel**, or **aluminium**
   - **Upholstery Material:** High-quality **vinyl or faux leather** with a **foam padding**
   - **Cushioning: High-density foam**
   - **Stitching and Seams:** Double-stitched seams
3. **Adjustability and Mechanisms:**
   - **Height Adjustment:**
     - **Manual Adjustment: mechanical** height adjustment (using a hand lever or foot pedal).
   - **Range:** Adjustable height between **610mm to 810mm**
   - **Backrest Adjustment: adjustable backrest** that can be tilted to various angles
   - **Leg Rest Adjustment: leg section** can be elevated for
   - **Stability Mechanism:** The **base** of the couch should have **non-slip feet** or a **stable locking mechanism**
4. **Comfort Features:**
   - **Padding Thickness: 50–100mm** of high-density foam
   - **Ergonomic Design:** provides full-body support
   - **Armrests:** detachable or integrated **armrests**
5. **Safety and Stability:**
   - **Load Capacity:** Must support a range of **up to 250kg** (550 lbs)
   - **Non-slip Feet:** Rubberized feet or pads
   - **Locking Mechanisms: secure locking mechanisms**
6. **Mobility:**
   - **Fixed or Mobile: casters (wheels)** for easy mobility

- Wheel Locks: locking mechanisms

7. Design and Aesthetics:
   - Color Options: black

9. Patient locker Hospital bedside locker with table top
   1. Construction and Materials:
      - Frame Material: high-grade aluminium
      - Table Top: stainless steel
      - Cabinet/Body Material: Powder-coated steel or high-quality plastic
      - Finish: The finish should be smooth and non-porous
   2. Design and Dimensions:
      - Overall Dimensions:
        - Height: Typically, between 75cm and 90cm (29.5 to 35.4 inches)
        - Width: Around 40cm to 45cm (15.7 to 17.7 inches)
      - Depth: Between 40cm to 50cm (15.7 to 19.7 inches)
      - Tabletop Size: 40cm x 40cm (15.7 x 15.7 inches)
      - Design: The bedside locker should be designed with rounded corners or protective edges
   3. Storage and Organizational Features:
      - Cabinet Compartments:
        - Two Doors: A lockable cabinet with two doors
        - Shelving: Adjustable or fixed shelves
        - Tabletop Surface: A flat, smooth surface
   4. Mobility and Stability:
      - Wheels/Casters: casters (wheels) lockable
   5. Safety Features:
      - Locking Mechanism: Lockable drawers and doors
      - Rounded Edges: All corners and edges of the locker should be smooth and rounded
      - Non-slip Base
   6. Aesthetic Considerations:
      - Design: light grey colour

10 . Drip stand standard stainless steel
   1. Material
      - Stainless Steel Grade: corrosion-resistant
      - Finish: Satin or mirror finish
   2. Dimensions
      - Height: 1500 mm to 1800 mm (1.5 to 1.8 meters).
      - Base Diameter/Width: 400 mm to 500 mm
      - Top Rod Length: Adjustable, 300 mm to 450 mm.
      - Weight: 2 kg to 5 kg
   3. Construction
      - Base: Heavy-duty with a round base
      - Vertical Rod: Tubular stainless steel, with smooth edges and rust-resistant coating.
      - Adjustability: Adjustable height mechanism with a locking screw or nut
      - Hooks/IV Pole: hooks at the top for hanging IV bags, infusion pumps, or other medical equipment.
   4. Load Capacity
      - able to handle a weight load of at least 5 kg to 10 kg
   5. Wheels
      - Caster Wheels, 4 wheels (2 fixed and 2 swivel), with anti-slip properties.
   6. Features
      - Non-slip Base:
      - Portability: Can be disassembled for easier transportation.

11. Ward linen Trolley With dirty linen carrier

1. Material
   - Frame Material: Stainless steel
   - Linen Carrier Bag: High-quality PVC-coated fabric, which is washable
   - Wheels/Casters: Heavy-duty, non-marking, and easy-to-move wheels made of rubber
2. Dimensions
   - Overall Size (L x W x H):
     - Length: 1000 mm to 1200 mm.
     - Width:450 mm to 600 mm.

    - Height: 900 mm to 1200 mm.
- **Linen Carrier Dimensions**:
    - Capacity: 50 to 100 liters

3. **Construction**
- **Frame**: Tubular stainless steel construction with welded joints
- **Linen Carrier**:
    - Fabric should be easy to remove
    - The carrier should be ventilated (if possible)
    - Secure attachment to the trolley frame
- **Base**: Flat base

4. **Capacity and Design**
- **Storage**: Multiple shelves or compartments
- **Dirty Linen Carrier**:
    - Should have a large capacity to carry a significant amount of dirty linen.
    - Removable and washable carrier

5. **Wheels/Casters**
- **Type**: Four or more swivel casters, preferably with locking mechanisms
- **Size**: Diameter of 100 mm to 125 mm for easy manoeuvrability, especially in tight spaces.
- **Material**: Rubber or polyurethane

6. **Features**
- **Height Adjustment**: Adjustable height or fixed height
- **Handle**: Ergonomic, sturdy handle preferably with a soft-grip or rubberized coating.
- **Ventilation**: The dirty linen carrier may have ventilation holes or mesh inserts to allow airflow and reduce odor.
- **Lid or Closure**: A lid or flap for the dirty linen compartment to maintain cleanliness and reduce contamination.

7. **Load Capacity**
- The trolley weight capacity of at least 50-80 kg,
- The linen carrier should be able to handle a full load of dirty linens

8. **Finish**
- **Frame Finish**: electro-polished or powder-coated stainless steel.
- **Linen Carrier**: fabric with waterproof or water-resistant properties.
- **Removable Parts**: The linen carrier and other components should be removable

9. **Safety and Stability**
- **Non-slip Base**: anti-slip feet or features
- **Locking Mechanisms**: locking features for both the wheels and the linen carrier

12. Pedal bin 20L biohazard pedal bins

1. **Material**
- **Bin Material**:
    - High-density polyethylene (HDPE) or polypropylene (PP)
    - stainless steel components for the pedal mechanism.
- **Lid Material**: Same material as the bin, with a tightly fitting design

2. **Capacity**
- **Volume**: 20 liters
- **Dimensions**:
    - Height: Approx. 500 mm to 600 mm.
    - Width/Depth: Approx. 300 mm to 350 mm.

3. **Biohazard Symbol**
- Clearly marked with the **Biohazard Symbol** (in yellow or orange)
- The symbol should be highly visible and easily recognizable.

4. **Design and Features**
- **Pedal Mechanism**:
    - Foot-operated pedal for hands-free operation
- **Lid Design**:
    - **Soft-closing lid**
    - Lid should close securely
- **Removable Inner Bucket**:
    - A removable inner bucket
    - a separate plastic liner or a full internal bucket.
    - The inner bucket should fit snugly within the outer casing

5. **Safety Features**
- **Lockable Lid** : a lid that can be locked or sealed tightly .

- **Odor Control**:
  - The lid should have a **seal or gasket**
  - **Smooth, Rounded Edges**:

6. **Waste Compatibility**
   - **Leak-proof**: The bin should be leak-proof to prevent any liquid waste from spilling.

7. **Color**
   - **Color: yellow, red and black** with black or printed biohazard markings with yellow, red and black liners

8. **Wheels**
   - **Casters** : wheels for easier mobility
   - **Lockable Wheels:** To ensure stability when the bin is stationary.

9. **Weight**
   - The weight of the bin (empty) is between 2 to 3 kg

13. Over bedside feeding table invacare 6418 with adjustable height

1. **Adjustable Height Range**:
   - **Height Range**: 28" to 41" (71 cm to 104 cm)
2. **Tabletop Dimensions**:
   - **Length**: 30" (76 cm)
   - **Width**: 15" (38 cm)
3. **Tabletop Surface**:
   - **Material**: Laminated
   - **Tilting Mechanism**: tilting table surface that adjusts to an ergonomic angle.
4. **Frame Material**:
   - **Frame**: Powder-coated steel frame
   - **Legs**: Tubular steel construction
5. **Mobility**:
   - **Caster Wheels**: Four swivel casters (two with brakes)
   - **Wheel Diameter**: 2" (5 cm) or 3" (7.6 cm)
6. **Weight Capacity**:
   - **Weight Capacity**: lbs (18 kg)
7. **Safety and Stability Features**:
   - **Locking Mechanism**
   - **Non-Slip Surface**
8. **Color**:beige or wood laminate finishes

14. Ward Screen Movable, 4-fold

1. **Dimensions:**
   - **Overall Height**: Typically **6 feet (180 cm)** or **72 inches**
   - **Panel Dimensions**: Each panel **24" to 30" (61 cm to 76 cm)**
   - **Folded Width**: When fully folded, the width **10" to 12" (25 cm to 30 cm)**
2. **Frame Material:**
   - **Frame Material**: **stainless steel**
   - **Color**: Frame colors silver
   - **Corner Supports**: Reinforced corners
3. **Panel Material:**
   - **Material**: The panels made of **PVC-coated fabric**, or **polyester**
   - **Colors**: green
   - **Transparent/Non-transparent Panels**
4. **Mobility:**
   - **Wheels/Casters**: Four high-quality **casters**, often **2-inch (5 cm) or 3-inch (7.6 cm)** diameter, for easy mobility.
   - **Caster Type**: Two locking casters
   - **Wheel Material**: Rubber
5. **Foldability:**
   - **Easy Folding Mechanism**: easily fold and unfold to adjust to the required position.
   - **Storage**: Compact folding design for easy storage when not in use.
6. **Weight:**
   - **Weight**: Approximately **10 to 15 kg** (depending on materials and size)

15. Examination light Movable LED

1. **Light Source:**
   - **Type**: **LED** (Light Emitting Diode).
   - **Color Temperature**: Typically **4500K to 5000K** (neutral white) for optimal visibility, mimicking natural daylight.
   - **Light Intensity**: Adjustable light intensity ranging from **30,000 to 80,000 lux** at a distance of 1 meter, ensuring proper illumination for detailed examination.
   - **CRI (Color Rendering Index)**: **≥95** for accurate color rendering, ensuring the patient's skin tone and other key details are visible under the light.
2. **Design and Structure:**
   - **Movable/Adjustable Arm**: The light should have **adjustable arms** (with at least **3-5 joints)** that allow for flexible positioning and easy movement of the light source.
   - **Material**: The frame is generally made of **high-quality stainless steel** for strength, durability, and resistance to corrosion.
   - **Base Type**: Typically mounted on a **stable wheeled base** for easy mobility.
   - **Stand Type**: **Floor-standing**
3. **Light Head:**
   - **Shape**: Round,
   - **Diameter of Light Head**: **10 cm to 20 cm** (4" to 8") for a focused examination area.
   - **Anti-glare Lens**: Equipped with a **diffuser lens** or **anti-glare technology** to ensure uniform lighting without discomfort or shadowing.
4. **Power Supply:**
   - **Voltage**: **100V to 240V AC**, with a standard plug compatible with local electrical outlets.
   - **Power Consumption**: consumes **30-60 watts**.
5. **Adjustability and Flexibility:**
   - **Height Adjustment**: adjustable height range, allowing positioning from approximately **1.5 meters (59 inches)** to **2 meters (78 inches)**
   - **Angle Adjustment**: The light head should be capable of **360-degree rotation** and **tilt** to direct the light where it is needed.
   - **Swivel Arm**: Flexible arm design to manoeuvre the light to various angles without affecting its position.
5. **Cooling and Durability:**
   - **Heat Dissipation**: Efficient **heat management system** (heat sinks or ventilation) to prevent the LED light from overheating, allowing long hours of continuous use without degradation of performance.
6. **Control Features:**
   - **Touch Control Panel**: **digital touch panel** or **remote control** to adjust light intensity and color temperature.
   - **Memory Function**: Ability to save preferred settings for future use.
7. **Weight and Dimensions:**
   - **Weight**: **5 to 15 kg**
   - **Dimensions**: the light's head and arm range from **60 cm to 150 cm** in length, with the lighthead around **10 cm to 20 cm** in diameter.

16. Medicine trolley PVC drug trolley with compartments

1. **Frame Material**: PVC or ABS plastic with corrosion-resistant finish.
2. **Dimensions**: 75 cm (L) x 45 cm (W) x 95 cm (H).
3. **Compartments**: 3 lockable drawers, 2 open shelves, removable dividers.
4. **Casters**: 4 swivel casters, 2 with brakes.
5. **Locking Mechanism**: Centralized locking system with individual drawer locks.
6. **Weight**: Approx. 12 kg.
7. **Color**: White with beige trim.
8. **Cleaning**: Easy to clean with non-porous surface.

17. Medicine trolley Stainless steel with atleast 2 shelves

1. **Material**: High-quality stainless steel (Grade 304) with polished or satin finish.
2. **Dimensions**:
   - Overall: 80 cm (L) x 45 cm (W) x 90 cm (H)
   - Shelves: 70 cm (L) x 40 cm (W) per shelf
3. **Shelves**: 2 shelves with raised edges for secure storage.
4. **Casters**: Four 3-inch swivel casters, two with locking brakes.
5. **Handle**: Ergonomic stainless steel push handle.
6. **Weight**: Approx. 12-15 kg.
7. **Load Capacity**: 50-80 kg.

8. **Safety Features**: Rounded corners, non-slip feet, and a sturdy design to prevent tipping.
9. **Cleaning**: Easy-to-clean surface, with antibacterial finish.
10. **Warranty**: 1-2 year warranty on the frame and casters

18. Stethoscope Original litman Classic II

Product Name:Littmann Classic II Stethoscope (Original)
Manufacturer:3M™ Littmann®)
Chestpiece:

1. **Type**: Dual-Sided (Large Diaphragm and Small Bell)
2. **Material**: Stainless steel
3. **Size of Diaphragm**:
    - Large: 4.3 cm (1.7 inches)
    - Small Bell: 3.3 cm (1.3 inches) (for pediatric use)
4. **Diaphragm Technology**: Tunable (allows for high and low-frequency sounds with the same diaphragm)
5. **Finish**: Polished stainless steel or matte black, depending on the model
6. **Tubing:**
    - **Material**: Latex-Free, PVC (Polyvinyl Chloride), flexible and durable
    - **Length**: 27 inches (69 cm) (Standard, but may vary depending on the region or custom request)
    - **Color**: black
7. **Eartips:**
    - **Material**: Soft-sealing, silicone
    - **Size**: Includes small and large eartips (interchangeable)
    - **Ear Tube Design**: Ergonomically designed for comfort and acoustic sealing
8. **Acoustic Performance:**
    - **Sensitivity**: High acoustic sensitivity to detect a wide range of heart, lung, and body sounds.
    - **Diaphragm Pressure Adjustment**: Allows for listening to both low- and high-frequency sounds by adjusting pressure on the chestpiece.
    - **Sound Transmission**: Clear and crisp sound quality, even in noisy environments.
      Weight:
    - **Stethoscope Weight**: Approximately 150–170 grams (5.3–6 ounces)
    - **Chestpiece Weight**: Light enough for prolonged use
9. **Warranty:**
    - **Warranty Duration**: 1 year (Manufacturer's warranty covering defects in materials and workmanship)
10. **Certifications and Compliance:**
    - **Latex-Free**: Suitable for latex-sensitive users
    - **Non-Sterile**: To be used in accordance with medical guidelines

19. Suction machine Folee double bottle

Product Name:Folee Double Bottle Suction Machine
Manufacturer:Folee (or equivalent)
Model Number:

1. **Model**: Folee FM-2000 or FM-3000 (specify model based on requirement)
    - **Power Supply:**
2. **Power Input**: 220-240V AC, 50/60Hz
3. **Power Consumption**: 50W – 100W depending on the model
    - **Vacuum Pressure:**
4. **Vacuum Range**: 0 to -80 kPa or 0 to -600mmHg (adjustable)
5. **Vacuum Regulation**: Adjustable vacuum control with a manual dial for precise pressure control
6. **Flow Rate**: 20 – 30 liters per minute (L/min)
    - **Collection Bottles:**
7. **Number of Bottles**: 2 (dual-bottle design)
8. **Material**: Medical-grade, transparent **polycarbonate** or **plastic** for clear visibility of collected fluids
9. **Capacity per Bottle**: 1.5 to 2 liters (each bottle)
10. **Overflow Protection**: Integrated overflow valve or anti-backflow system to prevent fluid backflow into the machine
11. **Motor and Performance:**
    - **Motor Type**: Oil-free piston motor or diaphragm motor (based on model)
    - **Motor Speed**: 2000 – 3000 RPM (approximate)
    - **Noise Level**: Typically 50 to 60 dB(A), designed for quiet operation in medical environments
    - **Continuous Operation**: Can function for extended periods without overheating

12. **Dimensions and Weight:**
    - **Dimensions**: (L x W x H) approx. 35 x 20 x 30 cm (may vary by model)
    - **Weight**: 5-8 kg (approx.)
13. **Safety Features:**
    - **Overflow Protection**: Prevents backflow of fluid into the machine.
    - **Automatic Shut-Off**: May include an automatic shutdown function if the bottle fills completely.
    - **Anti-Vibration**: Designed to minimize vibrations during operation for smooth suction.
    - **Filter**: Built-in bacterial filter for suction system protection (or disposable filters as applicable)
14. **User Interface and Controls:**
    - **Vacuum Control**: Easy-to-use adjustable knob or pressure dial
    - **On/Off Switch**: Standard power switch with LED indicator for operational status
    - **Suction Gauge**: Visual gauge to monitor suction pressure levels
    - **Alarm Indicators**: Audible or visual alarm for overfilled bottles, blocked tubes, or operational malfunction (depending on model)
15. **Accessories:**
    - **Suction Tubing**: Medical-grade PVC tubing, approximately 2 meters in length
    - **Suction Catheters**: Set of reusable or disposable catheters (size options available)
    - **Filters**: Disposable bacterial filter (if applicable) for protection
    - **Power Cord**: Suitable length for power connection
    - **User Manual**: Includes detailed operation and maintenance instructions
16. **Warranty:**
    - **Warranty Period**: 2 years, covering defects in materials and workmanship

20. <u>Diagnostic set Otoscope practitioner fibre optic set</u>

Otoscope Head:

1. **Type**: Fibre optic otoscope head for **bright, shadow-free illumination**.
2. **Illumination**: Fibre optic light for enhanced clarity and less heat transmission to the ear canal.
3. **Light Source**: Typically powered by a **halogen or LED bulb**,
4. **Lens**: **10x magnifying lens**
5. **Viewing**: High-definition **3D optics** for detailed visualization of the ear canal and eardrum.
6. **Material**: **Durable, lightweight metal or plastic** body for ease of handling and comfort during exams.
7. **Power Source**:

- **Rechargeable** battery-**operated**
- **charging stand** or docking station.

8. **Battery Type**: If battery-operated, typically uses **AA, C, or rechargeable lithium-ion batteries**
9. **Power Indicator**: **Battery life indicator** or charging status LED for user convenience.
10. **Handle Design**: Ergonomic design for easy grip and comfort during prolonged use.
11. **Magnification and Viewing:**

- **Magnification**: Standard magnification is **3x-4x** for the otoscope lens, with some sets offering additional magnification.
- **Angle**: Angled for optimal visualization of the ear canal.

12. **Specula:**

- **Type**: Disposable or reusable specula (in sizes **2.5 mm**, **3 mm**, **4 mm**, and **5 mm**).
- **Material**: Typically **medical-grade plastic** or **metal** (some with soft tips for patient comfort).
    - **Light and Illumination:**
    - **Fibre Optic Technology**: Ensures bright, even lighting across the ear canal with no shadows.
    - **Color Temperature**: Balanced color rendering to assist in accurate diagnosis (generally **3200-3500 Kelvin**).
    - **Light Bulb**LED for lower heat generation and longer lifespan.
    - **Durability**: High-quality **shock-resistant plastic** for long-lasting use.
    - **Finish**: Typically **matte** or **chrome-plated** finish for corrosion resistance.
    - **Size**: Compact and lightweight for easy handling, often portable for field use.
    - **Power Supply and Battery:**
    - **Battery Type**: If battery, compatible with standard **AA, C, or lithium-ion rechargeable** batteries.
    - **Charging Stand/Cradle** : Designed for easy recharging and safe storage.
- **Dimensions**: head and handle are compact, measuring around **5-7 inches (13-18 cm)** in length.
- **Weight**: Approximately **200-300 grams** for the full set
- **Warranty Period**: **2-5 years**

21. <u>Diagnostic set Otoscope practioner fibre optic set</u>

1. **Brand**: Welch Allyn, Heine, or Riester
2. **Model**: Welch Allyn Macroview Otoscope with Fiber Optic (11810 or 25000)

3. **Specifications**:
   - LED or halogen lighting for enhanced viewing
   - 3.5V power handle (rechargeable or AA battery option)
   - 2.5x magnification with wide viewing lens
   - Interchangeable specula tips (reusable)
   - Durable construction, portable carrying case

22. **Diagnostic set Laryngoscope 5 blades set**

Product Name: Diagnostic Laryngoscope Set (5 Blades)

Laryngoscope Handle:

1. **Type**: **Reusable**
2. **Material**: High-quality **aluminium**
3. **Power Source**:**Battery-operated**: Typically uses **AA or C batteries**
4. **Rechargeable Handle**:
5. **Handle Length**: **6-8 inches (15-20 cm)**
6. **Light Source**: Powered by either **halogen** or **LED bulb**
7. **Light Intensity**: Adjustable to suit different lighting conditions.

Blades:

- **Number of Blades**: **5 blades** included in the set.
- **Blade Material**: **stainless steel** or **high-grade aluminum**,
- **Blade Types/Models**:
  - A variety of blade sizes to accommodate different patient needs.
- **Blade Sizes**:
  - size 0-2 and size 3-4 sizes for diverse patient demographics.

Illumination System:

- **Type**: **Fiber-optic illumination** for bright, shadow-free light.
- **Light Bulb Type**: Halogen or **LED**
- **LED Light Source**: Long-lasting, energy-efficient, and provides a consistent color temperature.

- **Set Configuration:**
  - **Spare Bulbs**: Some models come with spare light bulbs (LED or halogen) for maintenance.
  - **Cleaning Tools**: Includes sterilization and maintenance instructions for cleaning and disinfecting the blades and handle.
  - **User Manual**: Detailed instructions on use, care, and maintenance of the set
  - **Warranty Period**: **2 years**, Covers defects in material and workmanship

23. **Ophthalmoscope Complete set with spare lamp with color coded range of lenses from -20D to 40D**

1. **Model**: Welch Allyn 3.5V PocketScope Ophthalmoscope Set (e.g., 11720)
2. **Specifications**:
   - **Light Source**: LED or halogen options.
   - **Lens Range**: Includes lenses from **-20D to +40D**.
   - **Filters**: Red-free, blue, and polarizing filters for different viewing conditions.
   - **Handle**: Rechargeable handle with a long-lasting battery life.
   - **Apertures**: Multiple apertures including small, large, and slit.
   - **Spare Lamp**: 1 spare bulb included.
   - **Carrying Case**: Includes a durable carrying case for storage and transport.
   - **Warranty**: Typically comes with a 1-year warranty

24. **Ambu bags Pediatric**

Brand: Laerdal

1. **Model**: Laerdal® Resuscitator Pediatric (Silicone)
2. **Specifications**:
   - **Size**: Pediatric model (450 mL)
   - **Material**: Medical-grade silicone, latex-free
   - **Mask**: Soft, transparent pediatric masks
   - **Valve**: One-way valve with positive pressure relief
   - **Oxygen Inlet**: Oxygen port for increased oxygen delivery
   - **Reusable**: Can be cleaned and reused
   - **Ergonomics**: Designed for quick, easy operation in emergency situations

25. **Ambubags Adult manual rescusitator with mask**

Brand: Ambu

1. **Model**: Ambu® Res-Cue® Resuscitator (Adult)
2. **Specifications**:

- **Size**: Adult (1,000-1,500 mL)
- **Material**: Non-toxic, medical-grade silicone or PVC, latex-free
- **Mask**: Soft, flexible, adult-sized mask with good seal
- **Oxygen Port**: Compatible with oxygen supply, allowing for supplemental oxygen delivery
- **Valve**: One-way valve with optional adjustable pressure relief
- **Ergonomics**: Ergonomically designed for ease of use, with an easy-to-grip handle
- **Pressure Relief Valve**: Built-in safety valve to avoid over-inflation
- **Disposable or Reusable**: reusable option
- **Carrying Case**: Protective case for storage and transport
- **Compliance**: CE-marked and FDA-approved

26. Mercury Clinical Thermometer model JDMS-72

1. **measurement Range**: from **35.5°C to 42.0°C** (95.9°F to 107.6°F),
2. **Scale**:**Celsius (°C)** and **Fahrenheit (°F)** markings.
3. **Accuracy**: accuracy of **±0.1°C** (±0.2°F)
4. **Material**:
   - Glass body with mercury inside for temperature measurement.
   - **Mercury column** visible for reading temperature.
5. **Length**:**12-15 cm** (4.7 to 5.9 inches).
6. **Usage**:underarm (axillary)
7. **Graduation Interval**:Divided into 0.1°C (0.2°F) graduations.
8. **Display Type**:**Analog** display with liquid mercury column that expands and contracts based on body temperature.
9. **Durability**:Made from **high-quality glass**,
10. **Packaging**: protective casing or box for safe storage.
11. **Certifications**: Certified by health and safety standards like **ISO** or **CE**.

27. Non Contact Forehead Gun, Medical Digital Thermometer for Children and Adults

1. **Measurement Method**:**Non-contact infrared sensor** technology that detects temperature by measuring the infrared heat emitted from the forehead.
2. **Temperature Measurement Range**:
   - **Body Temperature Range**: **32.0°C to 42.9°C** (89.6°F to 109.2°F).
   - **Object Temperature Range**: **0°C to 100°C** (32°F to 212°F), allowing for versatile use for both body and object temperature measurement.
3. **Accuracy**: Generally, **±0.2°C** (±0.4°F) for body temperature readings.
4. **Response Time**:**1 to 2 seconds** for a reading.
5. **Display**:
   - **Digital LCD** screen with **clear, backlit** display for easy reading.
   - **Color-coded fever indicators** (e.g., green for normal, yellow for mild fever, and red for high fever).
6. **Measurement Mode**: **Body Temperature Mode** (for humans).
7. **Fever Alarm**: Audible **beep** or color-coded indicator (usually a red light or a loud beep) if a high fever is detected.
8. **Power Supply**:
   - Powered by **2 x AAA batteries** and rechargeable **Li-ion battery**.
   - **Low Battery Indicator** when batteries are running low.
9. **Automatic Shut-off**: Auto power-off feature after a few seconds to conserve battery life.
10. **Distance to Measure**: **3-5 cm** (1.2-2 inches) from the forehead for optimal readings.
11. **User-Friendly Features**:
    - **Memory Function**: Stores the last few readings (commonly up to 32 readings).
    - **Silent Mode**: Option to turn off beeping sounds for discreet measurements.
    - **No Contact**: Prevents the spread of germs and is more hygienic, especially for infants and children.
12. **Temperature Unit**: Option to switch between **Celsius (°C)** and **Fahrenheit (°F)**.
13. **Certifications and Standards**: certifications such as **FDA**, **CE**, and **ISO** standards for medical safety and accuracy.
14. **Size and Weight**:
    - Generally lightweight and compact, with dimensions of **150mm x 100mm x 40mm** (approx. 5.9 x 3.9 x 1.6 inches).
    - Weighs about **100g to 150g** (3.5 to 5.3 ounces), making it easy to hold and use.

28. Wheelchair Adorned Foldable Standard

1. **Frame Material**:
   - **Steel** (for a balance of durability and weight).

2. **Weight Capacity**:
    - **250–350 lbs** (113–159 kg)
3. **Seat Dimensions**:
    - Width: **16–20 inches** (40–51 cm), Depth: **16–18 inches** (40–46 cm).
4. **Dimensions (Open)**:
    - Width: **25–30 inches** (63–76 cm), Length: **36–45 inches** (91–114 cm), Height: **36–42 inches** (91–107 cm).
5. **Foldability**:
    - **Easy folding** for compact storage and transport, **12–15 inches** (30–38 cm) deep when folded.
6. **Armrests**:
    - **Removable**, and **padded** option for comfort.
7. **Footrests/Legrests**:
    - **Removable or swing-away**, with **elevating legrests**
8. **Wheels**:
    - **Rear wheels**: 24-inch (61 cm) diameter.
    - **Front casters**: 6–8 inches (15–20 cm), with **solid or pneumatic** option.
9. **Brakes**:
    - **Self-locking brakes** for user or caregiver control.
10. **Seat Cushion**:
    - **Padded seat** or **pressure-relief cushions** for added comfort.
11. **Backrest**:
    - **Fixed or adjustable** height for comfort.
12. **Safety Features**:
    - **Anti-tip bars**, **reflective strips** for visibility, and **non-slip footrests**.
13. **Storage**:
    - Some models have **pockets** or compartments for personal items.
14. **Color/Adornments**:
    - **decorative upholstery**.
15. **Durability**:
    - Suitable for both **indoor and outdoor use**.
16. **Assembly**:
    - **Pre-assembled** or requires minimal setup.

29. Walking cane mediline aluminium offset

1. **Material**: **Aluminum** frame for lightweight yet durable support.
2. **Weight Capacity**: **250 lbs** (113 kg)
3. **Cane Type**: **Offset design**, meaning the handle is positioned slightly to the side, offering better weight distribution and a more natural grip.
4. **Height Adjustment**:
    - **Adjustable height**, ranging from **30 to 39 inches** (76 to 99 cm), to fit users of different heights.
    - Features a **quick-lock mechanism** to securely adjust the height.
5. **Handle Type**:
    - **Ergonomic handle**, made of soft **rubber** or **foam** for comfortable, non-slip grip.
    - Offset design helps reduce strain on the wrist and promotes proper posture.
6. **Base**:
    - Equipped with a **single rubber tip** or **quad base** for stability and traction.
    - **Rubber tip** provides extra grip on smooth surfaces to prevent slipping.

- **Weight:0.5 to 1 lb** (230 to 450 g), making it easy to carry and use.
- **Color: black**
- **Additional Features**:
    - **Non-slip ferrule** for stability and traction.
    - **Anti-shock system** to reduce impact on the hand and wrist.
    - **foldable** design for portability
    - **cane tip** with better grip for outdoor use.

30. Walker stainless steel folding walker 3.5 inches D X 18 inches W x 3.5 H

1. **Material**: **Stainless steel frame** for durability, strength, and resistance to rust or corrosion.
2. **Dimensions**:
    - **Depth**: 3.5 inches (approx. 9 cm).
    - **Width**: 18 inches (approx. 46 cm), providing a comfortable width for users.
    - **Height**: 3.5 inches (approx. 9 cm) in its folded state, making it compact for storage or transport.
3. **Weight Capacity**: supports **up to 250 lbs** (113 kg),

4. **Adjustability**:
   - Height-adjustable legs, ranging from **30 to 39 inches** (76 to 99 cm),
5. **Folding Design**:
   - **Easy-folding** mechanism for convenient storage and portability.
   - Compact when folded, with dimensions of **3.5 inches in height** and **18 inches in width** for easy storage in small spaces
6. **Handles**:
   - **Ergonomic grips**, typically made of **foam or rubber**, for comfortable and secure hand support.
   - **adjustable hand grips**.
7. **Base and Stability**:
   - Equipped with **rubber tips** or **non-slip feet** for traction and stability on smooth surfaces.
8. **Portability**:
   - **Folding** feature allows for quick and simple collapsing of the walker for transport in vehicles or compact storage.
9. **Color**:
   - **Silver** with **metallic finishes**, but may come in other colors or styles.
10. **Additional Features**:
    - **Padded armrests**, a **basket**, or **seat** for extra comfort and convenience.
    - **Reflective strips** for increased visibility at night or in low-light conditions.

31. <u>Elbow Crutches Closed Cuff LK933L. 97*54*52cm aluminium</u>

1. **Material**:
   - **Aluminium frame** for strength, lightweight, and resistance to corrosion.
2. **Dimensions**:
   - **Total Dimensions**: 97 cm (Height) x 54 cm (Width) x 52 cm (Depth).
3. **Weight**:
   - Lightweight construction, **around 1.5 to 2 kg** (3.3 to 4.4 lbs) for the pair, making them easy to handle.
4. **Weight Capacity**:
5. Typically supports up to **250 lbs** (113 kg)
6. **Closed Cuff Design**:
   - **Closed cuff** provides a secure fit around the forearm, offering enhanced stability and reducing the risk of the crutch slipping off the arm.
   - Cuffs are designed to prevent pinching and allow easy adjustment for a comfortable fit.
7. **Height Adjustment**:
   - **Adjustable height** feature, range of **100 cm to 150 cm** (39 to 59 inches), suitable for various user heights.
   - Quick and easy adjustment mechanism with **push-button or twist-lock** system.
8. **Handgrips**:
   - **Ergonomic handgrips**, made of **soft rubber** or **foam**, designed for comfort and a secure hold.
9. **Base/Feet**:
   - **Rubber tips** at the base provide traction and stability on various surfaces, preventing slipping.
   - **reinforced or anti-slip feet** for additional safety.
10. **Portability**:
    - **Foldable** for easier storage and transport.
11. **Color**: **black**
12. **Additional Features**:

- **reflective strips** for better visibility
- **ergonomic padding** on the cuffs for added comfort.

32. <u>IS IndoSurgicals Seamless Stainless Steel Unisex Adult Bed Pan with Lid</u>

1. **Material**: **high-quality stainless steel**, offering durability, resistance to corrosion, and easy cleaning.
2. **Design**:
   - **Seamless design** to prevent leakage and ensure hygienic use.
   - **Unisex design**, suitable for both male and female users.
   - **Ergonomically shaped** for comfort, designed to fit the contours of the body.
   - **Dimensions**: Approximately **40 cm (L) x 30 cm (W) x 8 cm (H)**
3. **Lid**:
   - **Comes with a lid** for hygienic storage and odor control.
4. **Weight**:
   - **Lightweight**, around **1 to 1.5 kg**

5. **Capacity**:

- holds **1.5 liters** and suitable for adults.

6. **Easy to Clean**:
   - **Smooth stainless steel surface** ensures easy cleaning and sanitization.
   - Can be washed manually or with a disinfectant for hospital-grade hygiene.
7. **Durability**:
   - **Rust-resistant** and long-lasting, ideal for regular use in medical and home care settings.
8. **Color**:
   - **Shiny silver finish** typical of stainless steel, providing a clean, professional look.
9. **Usage**:

- Designed for **bedridden adults**, the bedpan and for individuals who have difficulty using a toilet or need assistance with personal care.

33. **Carex Health Brands Fracture Bed Pan**

- **Material**: **durable, lightweight plastic** that is easy to clean and resistant to wear and tear.
- **Design**: **Ergonomically shaped** for comfort, with a wider rear to ensure proper fit and support for users.
- **Dimensions**: Approx. **16.5 inches (L) x 12 inches (W) x 3 inches (H)**
- **Capacity**: **1.5 liters**, ideal for adult use.
- **Lightweight**:**1 lb (450g)**, making it easy to handle, position, and store.
- **Color**:**blue**
- **Easy to Clean**: **Smooth plastic surface** ensures easy cleaning and sanitation after each use.
- **Usage**: **Unisex design**, suitable for both male and female users.
- **Additional Features**:
  - **Compact size** for convenience and easy storage.
  - **Non-slip surface** at the base to prevent slipping or shifting while in use.

34. **Fractured Bed Pad with covers**

1. **Material**: **high-quality, absorbent cotton** with a **waterproof backing** to prevent leaks and protect the mattress and **soft quilted** tops for enhanced comfort.
2. **Design**:
   - **contoured shape** or **extra padding** for comfort and protection.
3. **Dimensions**: **34 inches x 36 inches** (86 cm x 91 cm)
4. **Absorbency**:
   - **Highly absorbent** core (multiple layers of absorbent fabric or materials such as **gel** or **foam**) to manage **urine leaks**, **sweat**, or other fluids.
   - **absorbs up to 8 oz** (240 ml) or more
5. **Waterproofing**: **moisture-resistant backing** (made of **polyurethane or PVC**) to protect the mattress or bedding from fluid damage.
6. **Ease of Cleaning**:
   - **disposable use**.
   - **Quick-drying** fabric and waterproof backing to prevent moisture retention.
7. **Covers**:
   - The bed pad comes with a **removable cover** that adds an extra layer of protection and comfort.
   - Covers is **waterproof**, **soft**, or **antimicrobial** to enhance hygiene and comfort.
8. **Durability**:
   - **reinforced stitching** and durable fabrics to improve lifespan.
9. **Uses**:
   - May include features like **anti-slip backing** to prevent shifting or movement of the pad.

35. **Urinal Bottle Male Urinals Portable Urine Bottle with Screw Lid (1200 ml)**

1. **Material**: **high-quality plastic (PP or PE plastic)** that is lightweight, shatterproof, and resistant to odors.
2. **Capacity**: **1200 ml capacity**, providing ample space for urine collection, suitable for men needing to use it during travel, bed rest, or in emergency situations.
3. **Design**:
   - **Ergonomically designed** for male use, with a **contoured shape** for comfort and easy use.
   - **wide opening** for easy filling and a **comfortable handle** for secure holding.
4. **Screw Lid**:

- **Screw-on lid** with a **tight seal** to prevent spills or odors, ensuring hygiene and portability.
- The lid is designed to be leak-proof, offering added security during transport.

5. **Size and Dimensions**: **9–10 inches (23–25 cm) in height**, and **5–6 inches (12–15 cm) in width**.
6. **Portability**:
   Portable urine bottle that can be used in a variety of settings like home care, hospitals, or outdoor activities.
7. **Color**: C**lear or translucent** plastic, allowing users to easily monitor urine levels.
8. **Ease of Cleaning**: using soap and water
9. **Usage**:
   - **Unisex design**; though intended for male use, it can be used by individuals with limited mobility or for emergency purposes.
10. **Additional Features**:
    - **Graduation markings** on the side for easy volume measurement.
    - **Odor-resistant** plastic to reduce unpleasant smells.

36. Spill-Proof Fracture Urinal from PrimeMed - Gold - High Volume Non-Stick Bedpans

1. **Material**: D**urable plastic (polypropylene** or **polyethylene)**, ensuring sturdiness and long-lasting use and **Non-stick coating**
2. **Capacity**: Holding **up to 2000 ml (2 liters)**, providing ample space for urine collection.
3. **Design**:
   - **Fracture urinal design** with a **low-profile front edge** for easy use
   - **Spill-proof design** with a secure **tight-seal lid** that prevents accidental spills and leaks.
   - **Ergonomic shape** designed to accommodate the natural positioning of the body for comfortable use.
4. **Color**:
   - Finished in a **gold color**
5. **Dimensions**:
   - **Standard dimensions**: **16–18 inches (40–45 cm) in length**, **12–14 inches (30–35 cm) in width**, and around **3–4 inches (8–10 cm)** in height when flat, making it easy to store and transport.
6. **Portability**:
   - **Lightweight** and portable, making it suitable for home care, hospital settings, and travel.
7. **Spill-Proof Lid**: Comes **spill-proof lid** designed to securely fit over the opening to contain the urine and prevent leaks during transport.
8. **Ease of Cleaning**:
   - **Non-stick surface** allows for easy cleaning and sanitization after each use.
   - Commonly used in **hospital**, **nursing home**, or **home care** settings where patients need assistance with urination.
9. **Additional Features**:
   - **Graduation marks** for easy measurement of urine volume.
   - **Odor-resistant materials** to help control and reduce unpleasant smells.

37. Bath Towel Set of 4-27" X 54 - Classic Turkish Cotton Soft 600 GSM White Luxury

1. **Material**: Made from **100% Turkish cotton, Soft and plush** texture that provides a gentle touch on the skin.
2. **GSM (Grams per Square Meter)**: **600 GSM** (grams per square meter), indicating a **medium-thick** towel, providing a perfect balance between absorbency, softness, and quick drying.
3. **Size**:
   - Each towel measures **27 inches x 54 inches** (68 cm x 137 cm)
   - Set includes **4 towels** of the same size.
4. **Color**: **Classic white** color
5. **Additional Features**:
   - **Double-stitched edges** to prevent fraying and enhance durability

38. Washcloth towel ,White Cotton - 18 Count

1. **Material**:
   - Made from **100% cotton**,
2. **Quantity**: Includes **18 washcloths** in each set
3. **Size**: Each washcloth typically measures **12 inches x 12 inches** (30 cm x 30 cm)
4. **Color**: Classic **white color**
5. **Care Instructions**:
   - **Machine washable** for convenience and easy maintenance.
   - Wash with **warm or cold water** using mild detergent.
   - **Tumble dry on low** heat or air dry for longer towel lifespan.
   - **Iron-safe**, but typically not required due to the natural texture of cotton.
6. **Weight**:
   - **Light to medium weight**, making them **easy to handle** and **quick to dry** after use.

7. **Additional Features**:
   - **Durable stitching** along the edges to prevent fraying.
   - **Pre-shrunk** to minimize shrinkage during the first few washes.

39. Hospital gowns unisex patient gowns

1. **Material**: **Polyester-blend**.
2. **Design**:
   - **Unisex** design, suitable for both male and female patients.
   - **Open-back design** with tie closures, Velcro, or snap buttons for easy access during medical procedures.
   - **Roomy fit** that allows for comfort and freedom of movement, suitable for patients who may be bedridden or need assistance.
   - **V-neck** or **round neck** options available based on preference.
3. **Size**:
   - **one-size-fits-all** with adjustable ties or snaps for a customizable fit.
4. **Color**: **light blue**
5. **Comfort & Functionality**:
   - **Side vents** or **snap closures** to allow for additional comfort and ventilation, especially in long-term care settings.
   - **pockets** for holding small items like tissues or personal care items.
6. **Durability**: **Machine washable**
7. **Ease of Use**:
   - **Adjustable closures** such as ties, Velcro, or snap buttons make it easy for patients and caregivers to put on or remove the gown.
   - **Easy to remove and wear** for quick medical access, particularly in emergency or outpatient care settings.
8. **Additional Features**:
   - **Anti-static** material in some models to minimize discomfort and maintain a professional appearance.
   - **Lightweight design** for easy packing or transport when required.
9. **Care Instructions**:
   - **Reusable gowns** are **machine washable** with mild detergent in cold or warm water.
   - Tumble dry on **low heat** or air dry to preserve fabric integrity.

40. Theatre gowns -(small, medium and large) round nech 3RD flap long sleeve

1. **Material**: **Polyester-cotton blend** for durability, breathability, and fluid resistance.
2. **Design**:
   - **Round neck** design to provide comfort and allow for easy wear, preventing pressure on the neck area.
   - Features a **third flap** (additional protective layer) at the back to improve coverage and ensure a secure, sterile fit.
   - **Long sleeves** for full coverage, providing protection to the arms and preventing exposure during surgical procedures.
   - **Back closure** with either **ties**, **Velcro**, or **snap buttons** to ensure a snug, secure fit that can be adjusted as needed.
   - **Unisex design**, suitable for both male and female patients or surgical staff.
3. **Size**: **Generous fit** in each size for comfort, freedom of movement, and to allow for layering over other garments, such as surgical scrubs.
4. **Color**: **surgical green**
5. **Additional Features**:
   - **Elastic wrist cuffs** or adjustable sleeve openings for a better fit and additional protection.
   - **Tie-back design** allows for a customizable fit and easy removal after surgery.
6. **Care Instructions**:
   - **Reusable gowns** should be washed according to the manufacturer's instructions, typically in **warm water** with mild detergent. **Tumble dry on low** or air dry.

41. Plastic buckets, white,10 litres

1. **Material**: **high-quality, durable plastic** (typically **polypropylene** or **polyethylene**) that is resistant to cracking, breaking, and staining and **Chemical-resistant** to handle cleaning agents, disinfectants, and other hospital-grade substances
2. **Capacity**: Each bucket holds **10 liters** (approximately **2.64 gallons**)
3. **Color**: **White**
4. **Design**:
   - **Round with a fitting lid design** for easy stacking and efficient storage in hospital settings.
   - Features a **wide, open top** for convenient filling, emptying, and cleaning.

- **Ergonomic handle** for easy lifting, carrying, and pouring, typically designed with a sturdy, reinforced plastic to prevent breakage.
- The handle may have a **comfortable grip** for ease of use, even when the bucket is full.

5. **Capacity Markings**: G**raduation marks** (measurement indicators) on the side, making it easier to measure liquid contents, which is especially useful for handling medications, IV fluids, or mixing cleaning solutions.
6. **Care Instructions**: **Easy to clean**: wash with warm water and mild soap or disinfectant.

42. Height and Weight Scale Electronic Weight Scale Home Precision Adult Health Scale

1. **Material**:
   - **High-Quality Plastic** for a durable, smooth, and easy-to-clean platform.
   - **ABS Plastic** or **Stainless-Steel** frame for durability and modern design.
   - **Non-slip surface** for added safety and stability.
2. **Display**:
   - **Digital LCD or LED Display** for easy-to-read weight and BMI data.
   - **Backlit screen** for visibility in low light conditions.
   - Displays weight in **kg (kilograms)**, **lbs (pounds)**, and **stones** with unit conversion options.
   - Displays **BMI (Body Mass Index)** calculated based on weight and height, showing BMI value and categorization (underweight, normal weight, overweight, obese).
3. **Height Measurement**:
   - **height measurement function**, ranging from **90 cm to 210 cm** (approximately **3 feet to 7 feet**).
   - automated sensors
4. **BMI Calculation**:
   - **BMI Calculation** displayed alongside weight, indicating whether the user falls within healthy weight ranges.
   - Categories typically include **Underweight**, **Normal**, **Overweight**, and **Obese**, based on BMI standards.
   - BMI calculated using both the **weight** and **height** data.
5. **Weight Measurement**:
   - **Precision Sensors** providing accurate weight measurement
   - Weight capacity ranges from **5 kg to 180-250 kg** (550 lbs).
   - **Auto-calibration**
6. **Functionality**:
   - **Step-on technology**: Automatically powers on when the user steps on the scale.
   - **Auto-off feature** saves battery life after a period of inactivity.
7. **Power Source**:
   - **rechargeable batteries** for eco-friendliness.
   - **Low battery indicator** alerts when batteries need replacing.
8. **Design**:
   - **Sleek, slim, modern design** that fits well with home decor.
   - **Wide, stable platform** for comfortable use and secure standing.
   - **Non-slip feet** to ensure the scale remains stable and does not slide during use.
9. **Dimensions**:
   - Platform typically measures **12 to 15 inches** (30 to 38 cm) in length and width.
   - Scale height is typically **1 to 2 inches**, easy to step on and off.
10. **Weight**:
    - The scale weighs between **2 to 3 kg** (4-6 lbs), making it portable and easy to store.
11. **Safety Features**:
    - **Anti-slip surface** to reduce the risk of slipping while standing.
    - **Anti-skid feet** to prevent movement during use.

43. Digital Baby Weighing Scale for Infant Toddler With Weight Upto 20kg K-life or Equivalent

1. **Material**:
   - **High-quality ABS plastic** construction for a lightweight, durable, and easy-to-clean platform.
   - **Non-slip surface** to ensure the baby stays securely on the scale during measurements.
2. **Capacity**: **weight capacity of up to 20 kg** (approximately **44 lbs**).
3. **Display**:
   - **Large digital LCD display** for clear, easy-to-read weight readings.
   - **Backlit screen** for visibility in dim light or low-light environments.
   - Displays weight in **kilograms (kg)**, with the option to switch to **pounds (lbs)**.
   - Clear digital numbers with **high resolution** for precise measurements.
4. **Accuracy**:

- **Auto-calibration** ensures accurate readings each time the scale is used.

5. **Functionality**:
   - **Tare function**: Allows you to subtract the weight of blankets or other items when weighing the baby, ensuring that only the baby's weight is recorded.
   - **Hold function**: Locks the weight reading on the display, making it easier to record the weight once the baby is settled.
   - **Auto-off function** to save battery life after a period of inactivity.
   - **Step-on technology**: The scale activates automatically when weight is placed on the platform.
6. **Power Source**:
   - **Battery-operated**: Typically uses **AAA** and rechargeable **lithium batteries**.
   - **Low battery indicator** alerts when battery power is running low.
   - **Energy-saving mode** helps extend battery life by turning off after inactivity.
7. **Design**:
   - **Compact and lightweight** design, making it easy to store and transport.
   - **Ergonomic, smooth-edged platform** for comfort and safety when placing the baby on the scale.
   - **Wide, flat surface** to accommodate babies comfortably during measurement.
   - **Non-slip feet** or rubber pads to ensure the scale remains stable and secure while in use.
8. **Dimensions**:
   - The platform measures **25-35 cm (10-14 inches)** in width and **50-60 cm (20-24 inches)** in length
   - The height of the scale is **2-5 cm**, allowing easy access for placing the infant.
9. **Weight**:
   - The scale weighs around **1.5-3 kg** (approximately **3-6 lbs**), making it portable and easy to move for storage or transport.
10. **Safety Features**:
    - **Non-slip mat** or surface for added safety, ensuring the baby is secure during weighing.
    - **Rounded edges** for safety to avoid any accidental bumps or injuries.
    - **Stable base** to prevent tipping or movement during use.

44. Oxygen cylinder- medical oxygen cylinder with gas and key 8.5 m3

1. **Type and Capacity**:
   - **Medical Oxygen Cylinder** designed for use in healthcare settings, hospitals, clinics, and home care.
   - **Volume Capacity**: **8.5 m³** (approximately **8,500 liters**) of oxygen.
2. **Material**:
   - **Made of high-strength aluminium alloy**
   - **Powder-coated or anodized** surface to prevent wear and corrosion.
3. **Dimensions**:
   - **Height**: Approximately **120 to 140 cm**
   - **Diameter**: Around **20 to 25 cm**, varying slightly
   - **Weight**: around **15 to 20 kg** (empty), with total weight including oxygen gas being higher.
4. **Pressure Rating**:
   - **Working Pressure**: approx. **150 to 200 bar** at full capacity
   - **Maximum Pressure**: The cylinder is built to withstand **high pressure** while maintaining safety standards.
5. **Gas Purity**:
   - Contains **medical-grade oxygen** with a purity level of **≥ 99%** for safe and effective use in medical treatments.
   - Pre-filled with medical-grade oxygen, ready for immediate use upon purchase.
6. **Regulator Compatibility**:
   - Compatible with standard **medical oxygen regulators** and **flowmeters** (e.g., **pressure-reducing valve** and **needle valve** for flow control).
   - **Regulator and key** included to control oxygen flow for accurate administration.
7. **Valve and Safety Features**:
   - **Cylinder valve**: a **CGA-540 valve** or similar, specifically designed for medical use to control the release of oxygen.
   - **Safety valve**: **Pressure relief valve** to prevent over-pressurization and ensure safe oxygen delivery.
   - **Oxygen key** for opening and closing the valve securely and safely.
   - **Color-coded** (green or white) to distinguish medical oxygen from other gases.
8. **Refill and Maintenance**:
   - **Refillable** at authorized medical gas suppliers or oxygen refill stations.
9. **Regulatory Compliance**:
   - Complies with **ISO 13485** and other **medical-grade certifications** to ensure quality and safety.
   - Adheres to relevant **national and international safety standards** for medical gas cylinders (such as **DOT**, **CE**, and **ISO**).

10. **Accessories**:
    - **Oxygen cylinder key** to open and close the cylinder valve.
    - **Protective cylinder cap or collar** for safety when the cylinder is not in use.
    - **Cylinder carrying bag** or **cylinder trolley** for ease of transportation.

45. Oxygen delivery set flow meter with a regulator and a humidifier

1. **Components**:
    - **Flow Meter**: from **0 to 15 LPM**.
    - **Regulator**: y **50 psi** with a **pressure gauge** for monitoring.
    - **Humidifier**: with a **capacity of 200-1000 ml** of water.
2. **Material**:
    - **Flow Meter**: Durable **plastic** (e.g., **polycarbonate)**, clear scale for easy reading.
    - **Regulator**: Made of **brass** or **stainless steel** for strength and corrosion resistance.
    - **Humidifier**: Transparent **polycarbonate** for visibility of water levels.
3. **Flow Meter**:
    - **Adjustable flow rate**: **0 to 15 LPM** or more.
    - **Precision**: Accurate measurement with **±1 LPM** tolerance.
    - **Connector type**: Standard **threaded** connectors (e.g., CGA-870) to fit various oxygen cylinders.
4. **Regulator**:
    - **Pressure Range**: Regulates oxygen pressure from **1500-2000 psi** to **50 psi** for safe use.
    - **Gauge**: Includes a pressure gauge for both **cylinder** and **outlet** pressure monitoring.
    - **Control**: Easy-to-adjust **flow control knob**.
5. **Humidifier**:
    - **Water Capacity**: Typically holds **200 to 1000 ml** of water for oxygen humidification.
    - **Water Level Indicator**: **Graduated scale** for easy monitoring.
    - **Connection**: Easy-to-attach to the flow meter or regulator.
6. **Safety Features**:
    - **Oxygen flow control** and **pressure relief valve** to prevent over-pressurization.
    - **Leak-proof design** to ensure safe oxygen delivery.
    - **Humidifier with secure seal** to avoid water spillage.
7. **Compatibility**:
    - **Universal connectors** for easy attachment to various oxygen systems.
8. **Certifications**:
    - **Medical grade**, meeting **ISO 13485**, **CE**, and other relevant safety and quality standards for medical device

46. Wash basins 10 L

1. **Material**: **durable plastic** -**polypropylene** or **PVC)**, resistant to impact and chemicals.
2. **Capacity**: **10 liters** capacity for medical washing or rinsing procedures.
3. **Design**:
    - **Ergonomic** with **rounded edges** for safety.
    - **Wide opening** for easy access and use.
    - **Flat bottom** for stability.
    - **Stackable** for efficient storage.
    - **Dimensions**: Approximate size: **40-45 cm** (length), **30-35 cm** (width), **15-20 cm** (height).
4. **Color**: **white** for visibility and hygiene.
5. **Safety**:
    - **Non-slip base** for stability.
    - **Smooth edges** to prevent injury.
6. **Certifications**:
    - Meets **medical-grade standards**, such as **ISO 13485**, **FDA**, or **CE certifications**.

47. Extension Cable APC Surge Arrest Surge Protector 5 outlets 230V

1. **Brand**: APC (by Schneider Electric)
2. **Power Rating**:
    - **Voltage**: **230V AC** (compatible with standard 230V electrical systems).
    - **Current Rating**: up to **10A**
    - **Power Capacity**: Supports up to **2500W**
    - **Number of Outlets**: **5** outlets for connecting multiple devices.
    - **Outlet Type**: Standard **UK** or **European-style**
    - **Spacing**: Widely spaced outlets to accommodate large plugs and adapters.

3. **Surge Protection**:
   - **surge protection** to prevent damage from power surges, spikes, and lightning strikes.
   - Surge protection rating **300-600 joules**
   - **Overload protection** for preventing overheating and electrical faults.
   - **Cable Length**:**1.5 to 2 meters** providing flexibility in positioning devices.
     - **Design**:
       - **Compact and durable design**
       - **Wall-mountable** for easier placement and space-saving.
       - **Integrated safety cover** for unused outlets to prevent dust and debris.
     - **Indicator Lights**:
       - **LED indicator lights** showing power status and protection status (e.g., "protected" or "surge protection working").
     - **Safety Features**:
       - **Overload Protection**: Automatically shuts off if the power exceeds the unit's safe threshold.
       - **Thermal Fuse Protection**: In case of overheating, the unit will shut down to avoid fire hazards.
     - **Certification**:
       - Complies with **international safety standards**, including **CE certification**, and may be **RoHS** compliant.
       - Meets or exceeds **IEC 61643-1** standards for surge protection.
       - **Warranty**: 1-2 years

48. **Langenback Retractor (1" blade width) stainless steel**

1. **Material**: **high**-Quality stainless steel
2. **Blade Width**: 1" (25mm) blade width
3. **Length**: 7-8 inches in total length, providing sufficient reach for most surgical fields.
4. **Design**:
   - Straight blade with a curved handle for ergonomic grip.
   - Flat, smooth blade surface for effective tissue retraction
   - Non-reflective surface to minimize glare during procedures.
5. **Sterilization**:
   - Can be easily sterilized by autoclaving to meet medical hygiene standards.
6. **Safety Features**:
   - Smooth, rounded edges to prevent injury to the tissue during retraction.
   - Handle design ensures a secure grip for the surgeon, reducing slippage during use.
7. **Certifications**:
   - Meets relevant medical-grade standards, such as ISO 13485 and CE certification, ensuring quality and safety.
8. **Packaging**:

- As a single instrument

49. **Morisson Retractor (2" blade width) stainless steel**

1. **Material**: Made from premium stainless steel, offering high durability
2. **Blade Width**: 2" (50mm) blade width
3. **Length**: 9-10 inches in length, providing ample reach for most surgical fields.
4. **Design**:
   - Straight blade for effective retraction of tissue.
   - The blade is flat and smooth, reducing the risk of tissue damage or trauma.
   - Curved handle for ergonomic and comfortable grip during use.
5. **Sterilization**:
   - Can be easily sterilized by autoclaving to meet medical hygiene standards for reusable surgical instruments.
6. **Safety Features:**
   - Rounded edges on the blade and handle to minimize injury to tissues during use.
   - Handle provides a secure, non-slip grip, ensuring the surgeon has full control.
7. **Certifications**:
   - Meets relevant medical-grade standards, such as ISO 13485 and CE certification, ensuring high quality and compliance with safety regulations.
8. **Packaging**:
   - As a single instrument

50. **Doyen Retractor (3" blade width) stainless steel**

1. **Material**: Made from high-quality stainless steel

2. **Blade Width**: 3" (75mm) blade width
3. **Length**: 10-12 inches in length
4. **Design:**
   - Straight, flat blade designed for efficient tissue retraction.
   - Smooth, rounded edges to prevent tissue damage and enhance comfort during prolonged use.
   - Ergonomic curved handle for a secure, comfortable grip, allowing the surgeon precise control during procedures.

5. **Sterilization**:
   - Can be easily autoclaved for sterilization, meeting medical hygiene standards for reusable surgical instruments.
6. **Safety Features**:
   - Rounded edges reduce the risk of accidental tissue trauma.
   - Non-slip handle ensures a stable and firm grip during use, even in sterile conditions.
7. **Certifications**:
   - Meets medical-grade standards, such as ISO 13485 and CE certification, ensuring safety and high performance.
   - Compliant with regulations for medical devices, guaranteeing product reliability.
8. **Packaging**:
   - As a single instrument

51. **Malleable Retractor (1" blade width) stainless steel**

1. **Material**: Made from high-quality stainless steel
2. **Blade Width**: 1" (25mm) blade width.
3. **Length**: 8-10 inches
4 **Design**:
   - Straight, smooth blade for effective tissue retraction without causing damage.
   - Ergonomic, handle design provides a secure and comfortable grip for the surgeon, ensuring precise control.

5.**Sterilization**:
   - Can be easily autoclaved to meet medical hygiene standards, ensuring safe reuse in sterile environments.

6. **Safety Features**:
   - Smooth, rounded edges on the blade to minimize tissue damage during retraction.
   - Flexible design helps to reduce the need for multiple retractors and provides precise tissue positioning.

7. **Certifications**:
   - Meets medical-grade standards such as ISO 13485 and CE certification, ensuring reliability and safety for medical use.

8.**Packaging**:
   - as a single instrument

52. **Sims Speculum small(27mm*29mm)**

1. **Material:**
   - High-quality **stainless steel (medical-grade, rust-resistant, and autoclavable)**.
   - Smooth, polished surface for easy cleaning and sterilization.
2. **Dimensions:**
   - **Blade Size:** 27mm (width) x 29mm (length)
   - **Handle:** Ergonomic design for firm grip and ease of use.
3. **Design Features:**
   - **Double-ended** with curved blades for better visualization and access.
   - **Non-locking**, allowing controlled movement during use.
   - **Seamless construction** to prevent accumulation of debris.
4. **Sterilization & Compliance:**
   - **Autoclavable** and reusable.
   - Meets **ISO 13485** and **CE Marking** standards for medical devices.
5. **Packaging & Labeling:**
   - Individually packaged in **sterile medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**.

53. **Speculum large**

1. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Smooth, polished finish for easy cleaning and sterilization.

2. Dimensions:
   - **Blade Size:** Large (approx. **100mm - 110mm in length** and **36mm - 40mm in width**).
   - **Handle:** Ergonomic, non-slip grip for ease of handling.
3. Design Features:
   - **Bivalve construction** with an adjustable screw for positioning.
   - **Rounded, smooth edges** to ensure patient comfort.
   - **Hinged design** for easy insertion and controlled opening.
4. Sterilization & Compliance:
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
5. Packaging & Labeling:
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**.

54. Speculum medium

1. Material:
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Smooth, polished finish for easy cleaning and sterilization.
2. Dimensions:
   - **Blade Size:** Medium (approx. **80mm - 90mm in length** and **32mm - 35mm in width**).
   - **Handle:** Ergonomic, non-slip grip for easy handling.
3. Design Features:
   - **Bivalve construction** with an adjustable screw for positioning.
   - **Rounded, smooth edges** to enhance patient comfort.
   - **Hinged design** for easy insertion and controlled opening.
4. Sterilization & Compliance:
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
5. Packaging & Labeling:
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**

55. Needle Holder 7" Sims

1. General Description:
   - A **7-inch Sims Needle Holder** designed for holding and guiding surgical needles during suturing procedures.
2. Material:
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Tungsten carbide (TC) inserts on jaws for enhanced grip and durability
3. Dimensions:
   - **Length:** 7 inches (approx. 18 cm).
   - **Jaw Design:** Serrated or cross-hatched for secure needle grip.
4. Design Features:
   - **Ratchet locking mechanism** for secure needle control.
   - **Ergonomic ring handles** for comfortable grip and control.
   - **Smooth, polished finish** for easy cleaning and sterilization.
5. Sterilization & Compliance:
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
6. Packaging & Labeling:
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**.

56. Artery Forceps Straight 8"

1. General Description:
   - Straight Artery Forceps (8 inches / 20 cm)
2. Material:
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Tungsten carbide (TC) inserts for enhanced grip and durability.
3. Dimensions:

- **Length:** 8 inches (approx. 20 cm).
- **Jaw Type:** Serrated for a secure grip on tissues and vessels.

4. **Design Features:**
   - **Straight design** for easy access to superficial and deep tissues.
   - **Ratchet locking mechanism** for controlled pressure.
   - **Ergonomic ring handles** for a comfortable grip and precise control.
   - **Smooth, polished finish** for easy cleaning and sterilization.
5. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
6. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**.

57. Artery Forceps Curved 8"

1. **General Description:**
   - **Curved Artery Forceps (8 inches / 20 cm)**
2. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Tungsten carbide (TC) inserts for enhanced grip and durability.
3. **Dimensions:**
   - **Length:** 8 inches (approx. 20 cm).
   - **Jaw Type:** Serrated for a secure grip on tissues and vessels.
4. **Design Features:**
   - **Curved design** for better access to deep or hard-to-reach areas.
   - **Ratchet locking mechanism** for controlled pressure.
   - **Ergonomic ring handles** for comfortable grip and precision.
   - **Smooth, polished finish** for easy cleaning and sterilization.
5. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
6. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**

58. Mosquito artery forceps straight

1. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Tungsten carbide (TC) inserts for enhanced grip and durability.
2. **Dimensions:**
   - **Length: 5 inches (12.5 cm)** or **6 inches (15 cm)**.
   - **Jaw Type:** Fine, serrated tips for a secure grip on delicate tissues and vessels.
3. **Design Features:**
   - **Straight design** for precise control in superficial and confined areas.
   - **Ratchet locking mechanism** for secure clamping.
   - **Ergonomic ring handles** for comfortable grip and maneuverability.
   - **Smooth, polished finish** for easy cleaning and sterilization.
4. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
5. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**.

59. Toothed Dissecting Forceps 6”

1. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Tungsten carbide (TC) inserts for enhanced grip and durability.
2. **Dimensions:**
   - **Length:** 6 inches (15 cm).
   - **Tip Type:** Fine, serrated tips with **1x2 teeth** for a secure grip on tissues.

3. **Design Features:**
   - **Toothed tip** provides a firm grasp without excessive pressure.
   - **Ergonomic, non-slip handle** for better control and precision.
   - **Smooth, polished finish** for easy cleaning and sterilization.
4. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
5. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**.

60. Dressing Forceps 5”

1. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Tungsten carbide (TC) inserts for enhanced grip and durability.
2. **Dimensions:**
   - **Length:** 5 inches (12.5 cm).
   - **Tip Type:** Fine, serrated or smooth tips for precise handling.
3. **Design Features:**
   - **Straight design** for easy access and maneuverability.
   - **Ergonomic, non-slip handle** for better control and comfort.
   - **Smooth, polished finish** for easy cleaning and sterilization.
4. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
5. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**

61. Sponge holding forceps 7”

1. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Tungsten carbide (TC) inserts for enhanced grip and durability.
2. **Dimensions:**
   - **Length:** 7 inches (18 cm).
   - **Tip Type:** Looped, serrated jaws for a secure grip on sponges and dressings.
3. **Design Features:**
   - **Ratchet locking mechanism** for secure holding.
   - **Ergonomic, ring-handled design** for better control and precision.
   - **Smooth, polished finish** for easy cleaning and sterilization.
4. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
5. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**

62. Trochars - 1 per procedure

1. General Description:
   - **Trocar** is a surgical instrument used for creating an opening in the body, typically for inserting a cannula or for performing procedures like laparoscopy or endoscopy.
   - The trocar is single-use, intended for one procedure only.
2. **Material:**
   - **High-quality, medical-grade stainless steel** for the trocar cannula and cutting tip.
   - **Plastic or silicone components** for safety features or ergonomic handles (if applicable).
3. **Dimensions and Sizes:**
   - **Size : 5 mm to 12 mm** in diameter
   - Length: **10-20 cm**
4. **Design Features:**
   - **Cutting tip:** Sharp, beveled tip for precise tissue penetration.

- **Safety shield** to prevent accidental injury or damage.
- **Cannula:** Hollow tube that allows for instrument insertion or drainage.
- **Ergonomic grip:** Non-slip handle or mechanism for easy manipulation and insertion.
- **Single-use design** for infection control and sterility.

5. **Sterilization & Compliance:**
   - **Single-use**, disposable device to reduce risk of cross-contamination.
   - **Pre-sterilized** and individually sealed in sterile packaging.
   - Complies with **ISO 13485**, **CE Marking**, and relevant medical device standards for safety and performance.
6. **Packaging & Labeling:**
   - **Individually packaged** in sterile, medical-grade pouches or blister packs.
   - **Clearly labeled** with manufacturer details, device size, batch number, and expiry date.

63. Surgical Theatre Gown with sleeves and cuffs Cotton (Medium size), Green in colour, Reusable

1. **General Description:**
   - **Surgical Theatre Gown** designed for use in sterile environments during surgical procedures.
   - **Medium size**, with long sleeves and cuffs for full coverage.
   - **Reusable**, made from high-quality cotton fabric.
2. **Material:**
   - **Cotton fabric** (100% or high cotton blend) for comfort, breathability, and durability.
   - **Water-resistant or fluid-repellent coating** on the outer surface (optional, for additional protection).
3. **Dimensions:**
   - **Size:** Medium (custom sizing available upon request).
   - Designed to fit an average adult with a range of chest and waist measurements.
4. **Design Features:**
   - **Long sleeves** with elastic or adjustable cuffs to prevent fluid contamination at the wrist.
   - **Full back coverage** with adjustable ties or Velcro closures for secure fastening.
   - **Generous fit** to allow for free movement during surgical procedures.
   - **Reinforced stitching** at critical points to enhance durability.
5. **Sterilization & Compliance:**
   - **Reusable**; designed for multiple washes and sterilizations.
   - **autoclaved**
   - Complies with **ISO 13485**, **CE Marking**, and relevant medical device standards for infection control and safety
6. **Packaging & Labeling:**
   - **Individually packaged** in sterile or clean packaging to maintain hygiene.
   - Clearly labeled with **manufacturer details, size, batch number, and care instructions**

64. Insect mounting pins 2 inches

1. **Material:**
   - **High-quality stainless steel** or **nickel-plated steel** for enhanced durability, corrosion resistance, and sterile handling.
   - **Smooth, polished finish** to prevent rust and ensure ease of handling during specimen mounting.
2. **Dimensions:**
   - **Length:** 2 inches (approximately 5 cm).
   - **Diameter: 0.5mm to 0.6mm**
3. **Design Features:**
   - **Sharp, fine-pointed tip** for easy and precise insertion into insect specimens.
   - **Smooth shaft** to avoid specimen damage during mounting.
   - **Standard size** to accommodate typical insect and arthropod specimens commonly used in medical entomology or pathology.
4. **Sterilization & Compliance:**
   - **Pre-sterilized** or available in sterile packaging to maintain hygiene and ensure safe handling in clinical and laboratory settings.
   - Meets **ISO 13485** and **CE Marking** standards for medical and scientific use.
5. **Packaging & Labeling:**
   - bulk packaged in sterile containers to ensure safe handling and easy distribution.
   - Clearly labeled with **manufacturer details, batch number, and quantity**, ensuring traceability and compliance with medical and scientific standards.

65. Mayo Trolley with tray Stainless steel

1. General Description:
   - **Mayo Trolley with Tray (Stainless Steel)** is a mobile, multi-functional cart designed for use in operating rooms, clinics, and medical facilities.
   - It is used for holding sterile instruments, supplies, and equipment during surgeries or medical procedures.
2. Material:
   - **High-quality stainless steel** for the trolley frame and tray, ensuring **corrosion resistance**, **durability**, and **easy cleaning**.
   - **Stainless steel tray** for supporting instruments and medical items, with smooth edges for safe handling.
3. Dimensions:
   - **Height: 36 inches (91 cm)**, adjustable to suit user preference
   - **Width: 18 - 24 inches**
   - **Length:** Typically **30 - 40 inches**
   - **Tray Size:** Generally **18" x 12"** and adjustable to accommodate surgical instruments and supplies.
4. Design Features:
   - **Adjustable height** for comfort during procedures, allowing customization of work surface level.
   - **Two or three shelves** with one main tray and bottom storage tray or shelf.
   - **Smooth, rounded edges** for safety and easy cleaning.
   - **Locking wheels** (casters) for secure positioning during procedures and mobility between areas.
   - **Ergonomically designed** handles for easy maneuvering.
5. Sterilization & Compliance:
   - **Autoclavable** trays and components for high-level sterilization.
   - Complies with **ISO 13485**, **CE Marking**, and relevant medical standards for use in healthcare settings.
   - **Non-porous surface** to avoid contamination and ensure proper hygiene during medical procedures.
6. Packaging & Labeling:.
   - **Labeled** with manufacturer details, specifications, and instructions for use.
   - **Assembly** instructions and safety handling information included

66. Mayo Stand Cover(76*145cm) Disposable

1. General Description:
   - Provides a clean, sterile surface to protect medical instruments and supplies during surgery or medical procedures.
2. Material:
   - Polyethylene
   - Sterile
     Latex free
     Single use
   - Colour: Blue transparent/ semi-transparent
   - packs of 56 unit
3. Dimensions:
   - **Size:** : 145 x 80 cm
4. Design Features:
   - **Sterile, single-use design** to maintain infection control during medical procedures.
   - **Elasticized edges or adhesive strips** (optional) for secure and tight fit over the Mayo Stand.
   - **Fluid-resistant properties** to protect instruments and prevent fluid penetration.
   - **Tear-resistant** to prevent accidental rips or damage during use.
5. Sterilization & Compliance:
   - **Pre-sterilized** in accordance with **medical standards** to ensure safety and hygiene.
   - Complies with **ISO 13485**, **CE Marking**, and relevant medical device standards.
   - Designed for **single-use** only to minimize the risk of cross-contamination.
6. Packaging & Labeling:
   - **Individually packed** in sterile packaging for easy distribution and use.
   - Labeled with **manufacturer details, batch number, and expiration date** for traceability.
   - Clear **instructions for use** included on packaging.
   - Features: Absorbent and impermeable, sterile, single-use

67. Surgical Green Towels (16"*26") Cotton material

1. General Description:
   - These towels are used in operating rooms, clinics, and medical settings to provide a sterile surface and absorbent material during procedures.

2. Material:
    - **100% cotton fabric**, offering high absorbency, softness, and durability.
    - **Pre-washed** and **pre-shrunk** to ensure consistent size and reliable performance after multiple washes.
3. Dimensions:
- **Size:** 16 inches (40.6 cm) x 26 inches (66 cm)
4. Design Features:
    - **Surgical green color** for easy identification and compliance with hospital and clinical standards.
    - **Highly absorbent** fabric to quickly absorb fluids and maintain a dry and clean environment during procedures.
    - **Double-stitched edges** for durability and to prevent fraying after repeated use.
    - **Soft and comfortable** to the touch for patient and staff comfort during procedures.
5. Sterilization & Compliance:
    - **Autoclavable** for sterilization at high temperatures, ensuring the towels are free from pathogens after each use.
    - Complies with **ISO 13485**, **CE Marking**, and other relevant medical standards for safety and quality.
6. Packaging & Labeling:
    - **Bulk packed**
    - **Care instructions** included for proper washing, sterilization, and handling.

68. Surgical Green Towels (16"*26") Cotton material with a hole in the middle

1. General Description:
    - Includes a **hole in the middle**, making them ideal for use during certain procedures
2. Material:
    - **100% cotton fabric** for superior **absorbency**, **softness**, and **durability**.
    - **Pre-washed and pre-shrunk** to ensure consistent size and performance after repeated use.
3. Dimensions:
    - **Size:** 16 inches (40.6 cm) x 26 inches (66 cm) with a hole approximately **3 to 4 inches in diameter** in the center
4. Design Features:
    - **Surgical green color** for easy identification and conformity with hospital or surgical facility color standards.
    - **Hole in the middle** for specific surgical access, ideal for draping over a patient while providing access for surgical procedures.
    - **Highly absorbent** material to absorb fluids during surgery, helping maintain a sterile field.
    - **Double-stitched edges** to enhance durability and prevent fraying or damage after multiple washes.
5. Sterilization & Compliance:
    - **Autoclavable** for sterilization at high temperatures to ensure a sterile environment after each use.
    - Complies with **ISO 13485**, **CE Marking**, and other relevant medical device and safety standards.
6. Packaging & Labeling:
    - Clearly labeled with **manufacturer details**, **size**, **hole diameter**
    - **Care instructions** provided to ensure proper washing, sterilization, and maintenance of the towels.

69. Dual Head Training stethoscope Littmann Teaching stethoscope with diaphragm and bell

1. General Description:
    - **Dual Head Training Stethoscope (Littmann Teaching Stethoscope)** featuring both **diaphragm** and **bell**
2. Material:
    - **High-quality, durable stainless steel chest piece** for enhanced acoustics and long-lasting use.
    - **Soft, non-latex ear tips** for comfort during extended use.
    - **Flexible, high-quality tubing** for ease of movement and durability.
    - **Diaphragm:** Designed with **non-chill ring** for patient comfort.
    - **Bell side:** Classic bell design for low-frequency sounds.
3. Dimensions and Design:
    - **Chestpiece:** Dual-head design with both **diaphragm** (for high-frequency sounds) and **bell** (for low-frequency sounds).
    - **Length: 27 to 28 inches** for optimal user comfort and functionality.
    - **Ear tubes:** Anatomically designed for a proper seal and comfortable fit.
4. Design Features:
    - **Dual-head stethoscope**:
        - **Diaphragm side:** Offers clear detection of high-frequency sounds such as heart and lung sounds.
        - **Bell side:** Picks up low-frequency sounds, such as heart murmurs or certain bowel sounds.
    - **Adjustable binaural** with ergonomic ear tips for a customized and comfortable fit.
    - **Acoustic seal** ensures efficient sound transmission without loss of sound quality.

- **High-quality construction** to ensure reliability, even under repeated use in educational or clinical settings.

5. **Sterilization & Compliance:**
   - Easy to clean and maintain with **disinfectant wipes**.
   - Complies with **ISO 13485**, **CE Marking**, and relevant medical device standards for safe and effective use.
6. **Packaging & Labeling:**
   - **Individually packaged** in a protective case or box.
   - Labeled with **manufacturer details, model, batch number**, and **certification** for traceability.
   - **Instructions for use** and care guidelines provided in the packaging

70. Intramuscular Injection Simulator with audio feedback Upper arm manikin (black in colour)

1. **Material:**
   - **High-quality, durable synthetic material** designed to mimic human skin texture and tissue layers.
   - **Non-toxic, latex-free** construction to prevent allergic reactions and ensure safety during use.
   - **Soft, flexible outer skin** for realistic feel during injection.
   - Internal structures are designed to replicate the feel of **muscle and tissue** under the skin for authentic training experience.
2. **Dimensions and Design:**
   - **Upper arm manikin size: 22 to 26 inches** in length, mimicking the average adult upper arm.
   - **Realistic anatomy** to ensure that trainees can practice proper needle insertion techniques.
   - **Audio feedback feature** activated when the needle reaches the correct depth, providing real-time training cues.
   - **Injection site** is designed to replicate typical sites for intramuscular injections, such as the **deltoid muscle**.
3. **Design Features:**
   - **Audio feedback system** that produces a sound when the **correct depth** for the injection is achieved, ensuring proper technique.
   - **Realistic skin and muscle layers** provide tactile feedback similar to real tissue.
   - **Reusable** and **easy to clean** for repeated use in training environments.
   - **Adjustable or replaceable injection site areas** to extend the product's lifespan and ensure continuous training.
   - **Detailed anatomical markers** for proper injection placement.
4. **Sterilization & Compliance:**
   - **Non-sterile**; designed for **training** purposes only.
   - Easy to disinfect after each use with **medical-grade disinfectants**.
   - Complies with **ISO 13485**, **CE Marking**, and relevant medical device standards.
5. **Packaging & Labeling:**
   - **Individually packaged** in a secure box or case for protection during transport and storage.
   - **Clear labeling** with manufacturer details, product specifications, and batch number for traceability.
   - **Instruction manual** for proper use, care, and maintenance included in the packaging.

71. Intramuscular Injection Simulator with audio feedback Gluteus Muscle (black in colour)

1. **Material:**
   - **High-quality, durable synthetic material** that mimics human tissue layers, including the skin and muscle, to replicate a realistic injection experience.
   - **Non-toxic, latex-free** construction to ensure safety and prevent allergic reactions.
   - **Flexible outer skin** designed for realistic texture and feel during injection.
   - Internal structures include a **muscle layer** that simulates the density and resistance encountered during actual injections.
2. **Dimensions and Design:**
   - **Gluteus muscle simulator size:** designed to replicate the **adult gluteal region**, with a focus on the **upper outer quadrant** for correct injection placement.
   - **Realistic anatomical design** for accurate practice of the intramuscular injection technique in the gluteus area.
   - **Audio feedback** that triggers when the needle reaches the correct depth for the injection, providing immediate response to the trainee's actions.
3. **Design Features:**
   - **Audio feedback system**: Produces a sound when the needle reaches the correct depth in the muscle, confirming accurate technique and helping trainees adjust as needed.
   - **Realistic muscle and skin layers** offer authentic tactile feedback during the injection process.
   - **Injection site** designed specifically for the gluteus muscle, commonly used for intramuscular injections.
   - **Adjustable or replaceable injection sites** to extend the life of the simulator.
   - **Reusable** and **easy to clean**, allowing for continuous training use.

4. Sterilization & Compliance:
   - **Non-sterile**; intended for training purposes only.
   - Designed for easy **disinfection** with medical-grade disinfectants between uses.
   - Complies with **ISO 13485**, **CE Marking**, and other relevant medical device standards for safety and quality.
5. Packaging & Labeling:
   - **Individually packaged** in a protective box or case to prevent damage during shipping and storage.
   - **Clear labeling** with the manufacturer's details, product specifications, and batch number for traceability.
   - **Instruction manual** provided, detailing proper use, care, and maintenance of the simulator.

72. Box files office point with lever arch size 280mm *350mm

1. Material:
   - **Durable cardboard or plastic** outer shell for long-lasting use, providing sturdy support for heavy files.
   - **Lever arch mechanism** made from **metal** for reliable performance and easy opening/closing of the file.
   - **Reinforced edges** for added durability, ensuring the file withstands regular handling without tearing or wear.
2. Dimensions:
   - **Size:** 280mm (width) x 350mm (height) – suitable for A4-sized documents.
   - **Width of spine: 40mm to 75mm**
3. Design Features:
   - **Lever arch mechanism** allows for easy insertion, removal, and organization of papers within the file.
   - **Finger hole** in the spine for easy retrieval and access when stored upright on shelves.
   - **Clear label holder** on the spine for easy identification of contents.
   - **Wide capacity** to hold a large number of documents (typically up to **250-300 sheets**) per file, depending on the spine width.
   - **Smooth, strong finish** that prevents document damage and offers a professional appearance.
   - Available in various **colours** for better categorization and organization in the office.

73. Electric Hospital bed with mattress Model YA-D5-3 Multi-Function 5 Position Medical Electric Bed

1. General Description:
   - **Electric Hospital Bed (Model YA-D5-3)** is a **multi-function medical bed** designed for hospital, clinic, or home care use.
   - Offers **5 adjustable positions** for enhanced comfort and medical care, including **backrest, knee rest, height adjustment**, and **Trendelenburg positions**.
   - Includes a **mattress** specifically designed to support patient comfort and medical needs.
2. Material and Construction:
   - **Frame Material:** Constructed from **high-quality steel** with **powder-coated finish** for durability, rust resistance, and easy cleaning.
   - **Head and Foot Boards:** Made from **ABS plastic** or **high-strength plastic** for light weight, durability, and ease of cleaning.
   - **Mattress Material:** High-density **foam mattress** with a **waterproof cover** to protect from fluids and spills. The mattress is designed to provide **pressure relief** and support.
   - **Mattress Size: 90cm x 200cm** or as specified.
3. Dimensions:
   - **Bed Dimensions (without mattress):**
     - **Length:** Approximately **200 cm**
     - **Width:** Approximately **90 cm**
     - **Height:** Adjustable from **40 cm to 80 cm**
   - **Weight Capacity:** supports up to **200 kg**
4. Design Features:
   - **5 Adjustable Functions:**
     - **Backrest Position:** Adjustable from **0 to 75 degrees** to provide comfort for patients in a seated or semi-reclined position.
     - **Knee Rest:** Adjustable to a range of **0 to 40 degrees** to elevate the lower body.
     - **Height Adjustment:** The bed height is adjustable electrically, providing ease of access for both patients and caregivers.
     - **Trendelenburg Position:** Tilts the bed to **20-30 degrees**, ideal for medical procedures and certain patient conditions.
     - **Reverse Trendelenburg:** Adjustable to assist in certain medical treatments, such as for patients with respiratory difficulties.
- **Electric Control:**
     - Operated via **hand-held controller** or **nurse control panel** for easy adjustment of bed functions.

    - **Memory function** may be included to save preferred positions for patient comfort.
- **Caster Wheels:**
    - Equipped with **locking swivel wheels** for easy mobility around the hospital or home care space.
    - **Wheel locks** to ensure the bed remains securely in place during patient care.

5. Safety and Comfort:

- **Safety Rails: Adjustable side rails** to prevent patient falls and ensure safety while adjusting the bed.
- **Mattress Pressure Relief:** Designed to reduce **pressure ulcers** with an ergonomic, pressure-relieving mattress suitable for long-term use.
- **Quiet Operation:** The electric motor is designed to operate quietly and smoothly, ensuring minimal disturbance to patients.

6. Sterilization & Maintenance:

- **Easy to Clean:** The **frame** and **plastic components** are easy to clean and disinfect with hospital-grade cleaners.
- The **waterproof mattress cover** can be cleaned easily, and the mattress is designed for easy replacement or maintenance if needed.

7. Compliance & Certification:

- Complies with **ISO 13485**, **CE Marking**, and other relevant medical device safety and performance standards.
- Certified for **medical use** and designed with **patient safety** in mind.

8. Packaging & Labeling:

- **Assembly instructions** and **user manual** provided to guide proper use, setup, and maintenance.

74. White Cotton bedsheets 4*6 with pillow cases

1. General Description:

- **White Cotton Bedsheets (4'x6')** designed for use in hospitals, clinics, hotels, or home care environments.
- Includes **two pillowcases** (standard size), making it a complete bedding set for a single bed.
- Made from **high-quality cotton** for comfort, breathability, and durability.

2. Material:

- **100% Cotton Fabric** for a soft, breathable feel and excellent absorbency.
- **High-thread count** (e.g., 200 to 300 thread count) for a smooth, durable finish that resists wear and tear over time.
- Fabric is designed to withstand repeated washings while maintaining its softness and quality.
- **Non-toxic and hypoallergenic** material, safe for patients with sensitive skin.

3. Dimensions:

- **Bedsheet Size: 4 feet x 6 feet** (122 cm x 183 cm) – suitable for single beds or hospital beds.
- **Pillowcase Size:** Standard size for common pillows, typically **18 inches x 28 inches** (45 cm x 70 cm).

4. Design Features:

- **White Color:** Neutral and professional appearance, ideal for hospital and healthcare environments.
- **Smooth and Soft Finish** to ensure patient comfort during use.
- **Durable and Long-lasting** fabric that retains its softness and appearance after multiple washes.
- **Fitted or Flat Option:** Bedsheets may be available in **flat** or **fitted** styles depending on procurement needs.
- **Elasticized Corners (for fitted sheets):** To keep the bedsheet securely in place on the mattress, ensuring smoothness and comfort for the patient.

5. Quality Standards:

- **Machine washable** and **resistant to shrinkage** to maintain size and quality after washing.
- **Wrinkle-resistant** or **easy-iron fabric** to minimize post-wash ironing needs.
- Meets **ISO 9001** or similar quality standards for healthcare linens.

75. Aneroid Sphygmomanometer Manual blood pressure machine without mercury

1. General Description:

- **Aneroid Sphygmomanometer** is a **manual blood pressure measuring device** designed for use in healthcare environments, including hospitals, clinics, and medical offices.

2. Material:

- **Gauge**: High-quality **metal** (e.g., brass or steel) housing for durability and long-term performance.
- **Cuff**: Made from **durable nylon or polyester** fabric with a comfortable, adjustable fit. The cuff is designed for easy wrapping around the upper arm and provides a snug fit during use.
- **Manometer (Dial)**: features a **large, clear dial** for easy reading of blood pressure measurements.
- **Valve**: Precision valve made from durable materials to control the release of air during inflation and deflation.
- **Inflation Bulb**: **Rubber bulb** with a **non-slip texture** for easy handling.

3. Dimensions:

- **Gauge Size: 4 to 5 inches** in diameter for clear visibility of readings.
- **Cuff Size:** up to 42 cm

- **Hose Length:** Approximately **22 to 30 inches** to accommodate a variety of patient positions.

4. **Design Features:**
   - **Manual Operation:** Uses a **bulb and valve** to inflate the cuff manually, with the pressure being monitored via the dial gauge.
   - **Mercury-free**: The aneroid sphygmomanometer uses **mechanical pressure sensing** rather than mercury, making it safer for both the environment and healthcare workers.
   - **Durable Gauge**: Large, easy-to-read dial marked with **mmHg** (millimeters of mercury) for precise measurement of systolic and diastolic pressure.
   - **Adjustable cuff** with a **hook-and-loop closure** for a secure fit.
   - **Easy to Use:** Simple operation with minimal training required for accurate measurements.
   - **Calibration**: Requires periodic calibration to ensure accurate readings.
5. **Accuracy and Performance:**
   - Provides highly accurate blood pressure readings in the range of **0 to 300 mmHg**.
   - **Precision dial mechanism** ensures reliability for regular use in clinical environments.
   - **Range of Measurement**: Suitable for measuring systolic and diastolic pressure within **standard clinical ranges**.
6. **Compliance & Safety:**
   - **Mercury-free design** adheres to safety standards, reducing the risk of mercury exposure.
   - Complies with relevant international quality and safety standards, such as **ISO 81060-1**, **CE marking**, and other regulatory certifications for medical devices.
   - **Latex-free** components to accommodate patients with latex allergies.
7. **Packaging & Labeling:**
   - **User manual** included, providing instructions for proper use, maintenance, and calibration.
   - Clear labeling indicating **non-mercury** and **safety compliance** for medical use.
8. **Sterilization & Maintenance:**
   - **Easy to clean** and disinfect with medical-grade wipes.
   - The **cuff** is washable, and the **dial gauge** can be wiped clean.

76. Fingertip Pulse Oximeter Battery use

1. **General Description:**
   - **Fingertip Pulse Oximeter** designed to measure **oxygen saturation (SpO2)** and **pulse rate (PR)** in the blood.
   - **Battery-operated** for portable and convenient use in clinical, home care, and emergency settings.
   - Provides quick, accurate readings and is ideal for monitoring **respiratory and cardiovascular health**.
2. **Material:**
   - **Outer casing** made of **durable, high-quality plastic** for light weight and resilience to everyday use.
   - **Non-slip design** for easy gripping and comfortable handling during use.
   - **Soft, hypoallergenic silicon material** around the finger sensor to ensure comfort during measurement.
3. **Dimensions:**
   - **Compact and lightweight design** for portability: **5.5 cm x 3.5 cm x 3.0 cm**.
   - **Weighs approximately 50-60 grams** (including batteries), making it easy to carry and use.
   - fits fingers with a width of 8-20 mm
4. **Design Features:**
   - **One-button operation** for easy use by healthcare professionals and patients alike.
   - **LED Display** showing **SpO2 levels** (percentage), **pulse rate**, and **pulse strength** with clear numeric and bar graph indicators.
   - **Adjustable display orientation** with a 180-degree rotatable screen to allow reading from different angles.
   - **Audible alarm function** (optional): Alerts the user when oxygen saturation levels are outside the preset threshold range.
   - **Low power consumption** for extended battery life.
   - **Automatic power-off** after a few seconds of inactivity to save battery.
   - **Battery Indicator**: Displays remaining battery level on the screen.
5. **Performance Specifications:**
   - **Measurement Range:**
     - **SpO2:** Typically **70% to 100%** with an accuracy of ±2%.
     - **Pulse Rate:** Typically **30 to 250 bpm** with an accuracy of ±2 bpm or ±2%.
   - **Fast Readings**: Provides quick results in **5-10 seconds**.
   - **Operating Temperature**: **5°C to 40°C** for optimal performance.
6. **Power Supply:**
   - **Battery Operated**: Uses **2 x AAA batteries** (included with the unit).
   - **Battery Life**: lasts for **20-30 hours** of continuous use, depending on the brand and usage.

- **Low power consumption** design extends battery life.

7. Compliance & Safety:

- Complies with relevant international standards such as **CE Marking**, **FDA**, and **ISO 13485** for medical devices.

8. Packaging & Labeling:

- **Instruction manual** included for guidance on proper usage, maintenance, and battery replacement.

9. Sterilization & Maintenance:

- **Batteries are replaceable**, and the unit does not require complex maintenance or calibration.

77. Kidney dishes

- **Material**: High-grade stainless steel (18/10).
- **Dimensions**: L x W x H 260mm x 100mm x 55mm
- **Features**: Autoclavable, reusable, smooth surface for easy cleaning, and resistant to corrosion

78.Kidney dishes 10”

- Stainless Steel hollowware
- autoclavable 121°C, with 0.5 mm thickness.
- Economic kidney dish - with curved edges
- Size:247x122x43mm; Capacity: 600 ml

79 . Gullipots

- Gallipots without lids 10 oz MH-100
- Gallipots without lids 4oz MH-070
- Material: Stainless or glass
- **Diameter:** 2.5-3 inches (64-76mm)

80. Trays Stainless steel medium

- Stackable With fixed handles
- Material: Stainless steel
- Dimensions: 530 x 325 mm
- Height: 100 mm

81 .Trays Stainless steel Large

- Material: Stainless steel
- a length of 595mm, a width of 395mm, and a height of 48mm.
- Colour: Silver
- Weight:1.64Kg

82. Bowls 8" Stainless steel

- Smooth surface
- Innerdiameter:115-135mm.
- Height:50-70mm.
- Capacity;550-650ml.
- Thickness:0.75-0.85mm.
- Material: stainless steel; Reusable.

83. Instrument Trolley Strong stainless steel with two shelves and wheels

- Material: Stainless steel
- Dimensions:40D * 55W *76Hcm
- Colour: Steel
- Wheel: Swivel casters

84.Phlebotomy/Intravenous Infusion Practice Kit Venipuncture Nurse Training Blood Drawing Arm Model Kit IV Training Injection Arm Manikin (beige in colour)

Components of a Phlebotomy/IV Infusion Practice Kit

1. **Practice Arm or Venipuncture Model**

2. A lifelike model or arm that mimics the human anatomy, including veins, to simulate real venipuncture procedures.
3. The model may be made of soft, durable materials to replicate skin, muscle, and vein structure.
4. Some models are refillable, allowing repeated use with simulated blood flow.
5. **Simulated Blood or Fluid**

Artificial blood or fluid is used to simulate real blood, providing a more realistic experience when performing venipuncture or IV infusions.

6. **Syringes (various sizes)**
   1 mL to 20 mL.
7. **Needles (with safety features)**
   - Hypodermic needles in different gauges and sizes that allow for practice in inserting into veins.
   - Safety needles may be included to ensure the trainee practices safe techniques.
8. **IV Catheters**
   - A variety of IV catheters are included for practicing the insertion and removal of these devices in vein puncture procedures.
9. **Tourniquet**
   - A tool used to apply pressure to veins, making them easier to locate for venipuncture or IV insertion.
10. **Alcohol Swabs**
    - To clean the area before performing a procedure to ensure hygiene and prevent infection.
11. **Gauze Pads**
    - Used for cleaning and dressing the site after venipuncture or infusion.
12. **Adhesive Bandages**
    - Used to cover the puncture site after the procedure to prevent bleeding and infection.
13. **Practice Blood Collection Tubes**
    - Tubes for collecting blood samples, which can simulate real blood draw procedures.
14. **Educational Manual/Instructions**
    - Many kits come with a manual or instruction guide to help users understand the proper procedures, including step-by-step instructions and safety precautions.

85 Ampoule cutter file Stainless steel

- Material: stainless steel
- Size:8”
- Length:15cm
- Packing type:polypack

86. Hospital beds with mattress 3 cranks manual (complete with three pieces mechanical ABS cranks, four wheels and braking pedals, guard rails)

- Dimensions:
  - Overall Length: Approximately 200 cm (79 inches)
  - Overall Width: 90 cm (35 inches)
  - Height: Adjustable based on the crank mechanism, but typically 40–80 cm (15–31 inches)
- Weight Capacity: Generally, the weight capacity is around 150-250 kg
- Wheels: Equipped with lockable caster wheels for easy mobility and stability.
- Number of crunks 3-head/backrest adjustment, leg/footrest adjustment, and height adjustment

87.Pillow medium size covered with mackintosh

Size:20” * 26”(51cm * 66cm)
Medium loft: 5” thickness
Makintosh:waterproof

88. Baby cot MDF with cot bumper and mattress
Internal Bed Dimensions: 120 cm x 60 cm .
External Dimensions: 125 cm x 65 cm x 90 cm (L x W x H)
Weight-30kg
Thickness:15cm
Mattress size:120cm * 60cm

89.CPR trainer; Adult Half body cross section to the 6th rib CPR model, size 63x25x44cm, 8kgs, The cross-section is color painted to show different organs clearly and vivid.

1. **Half-Body Design**
   - The mannequin typically features a **cutaway half-body** with the upper chest area, providing a **cross-section** up to the **6th rib**. This allows the instructor and trainee to observe and interact with key anatomical structures such as the **sternum, ribs, heart, lungs**, and **airway** during CPR practice.

- The cutaway view provides a **realistic anatomical depiction**, which enhances understanding of where chest compressions and ventilations should be applied and how the internal organs and structures move during CPR.
    - **Realistic Chest for Compressions**
- The mannequin's chest is designed to mimic the **resilience** and **feel** of a real adult chest, allowing the trainee to practice **correct compression depth and rate**. Chest compressions should be performed at a depth of **2~2.4 inches (5~6 cm)** for adults, and the mannequin should provide tactile feedback to indicate if the correct depth is achieved.
- Compression feedback may include a **clicking sound** or other indicators to ensure the trainee knows when they've achieved the proper depth.
    - **Breathing and Airway Management**
- The **airway** can be manually adjusted, allowing for practice in **head-tilt/chin-lift** and **jaw-thrust** techniques to open the airway, which are essential for performing effective mouth-to-mouth or mouth-to-nose rescue breathing.
- The mannequin may include a **lungs mechanism** that simulates the rise and fall of the chest during ventilation, providing feedback on whether effective breaths are being delivered.
- **Nasal and Oral Airways** are designed to simulate real-life airway obstruction and allow for proper ventilation practice.

2. **Anatomical Features**
    - **Cross-Section of Ribs:** The cutaway view reveals the **ribcage** and how chest compressions impact the ribs. This feature helps trainees understand how compressions interact with the internal anatomy and can help improve accuracy and confidence when performing CPR on real patients.
    - **Heart and Lungs:** The internal organs, such as the **heart** and **lungs**, may be visible to provide insight into how chest compressions affect circulation and airflow. In some models, the heart may visibly **contract** when proper compressions are performed, reinforcing the concept of circulation during CPR.
3. **Feedback and Performance Monitoring**
    - **Compression Depth and Rate Feedback:** The mannequin may include a feedback system that tracks the **rate** (100~120 compressions per minute) and **depth** of chest compressions. Feedback may be visual (lights) or auditory (clicks or sounds).
    - **CPR Feedback Devices:** Some advanced models are compatible with CPR feedback devices or apps that monitor and evaluate performance metrics, helping instructors assess and guide trainees more effectively.

- **Replaceable Parts**
    - The chest and airway parts, as well as the **lungs**, may be replaceable to ensure proper hygiene and extend the life of the trainer mannequin.
    - **Simulated Skin:** The outer surface of the mannequin is typically made of durable, soft material resembling human skin, offering a realistic feel when performing CPR.
- **Realistic Limb Movement**
    - The arms and legs of the mannequin can move naturally, simulating the proper positioning of the body during CPR. Some models allow for **two-person CPR** practice, where one person performs chest compressions while the other provides rescue breathing.
- **Portability and Storage**
    - The mannequin is designed to be lightweight and portable, making it ideal for training in various settings, such as classrooms, workshops, or training centers.
    - **Carrying Case:** Most models come with a carrying case for easy transport and storage.
- **Durability and Easy Maintenance**
    - The mannequin should be made from **high-quality, durable materials** that can withstand repeated use in training environments.
    - It should be easy to clean and sanitize, particularly in the airway and mouth areas where saliva or other fluids may be present.
    - Must comply with current CPR guidelines

90. CPR trainer Infant; Advanced infant CPR and nursing manniquin designed according to infant anatomical structure, imported material, flexible joints, soft skin, realistic and , realistic and vivid, size 64x20x34cm, 8kgs

- **Realistic Anatomy**
    - **Head, Neck, and Chest:** The mannequin should replicate the infant's anatomy, including a soft head, neck, and chest to mimic how an actual infant would feel when performing chest compressions and breaths.
    - **Airway:** The mannequin should have a realistic airway structure that simulates the resistance and feel of airway management during infant CPR. It should allow users to properly position the head and open the airway.
    - **Chest Compression:** The chest should be soft and flexible enough to allow realistic compression during CPR but firm enough to provide the correct resistance needed to teach effective chest compressions.

- Chest Rise and Fall (Ventilation Feedback)
  - **Lung Mechanism:** Many models include a mechanism that causes the chest to rise and fall when performing proper mouth-to-mouth or mouth-to-nose ventilation. This provides feedback to the user about whether the breaths are effective in inflating the lungs.
  - **Realistic Resistance:** The mannequin should offer appropriate resistance during chest compressions, indicating whether the compressions are being performed with the correct depth (approximately 1.5 inches or 4 cm for infants).
- Airway Opening
  - **Proper Head Tilt-Chin Lift:** The mannequin should allow for proper head tilt and chin lift techniques, crucial for opening the airway of an infant during CPR. The head should move freely to simulate the proper alignment.
- Feedback Mechanisms
  - **Compression Depth and Rate:** Some models include built-in feedback mechanisms to indicate whether the chest compressions are being performed at the right depth (approximately 1.5 inches or 4 cm) and rate (100-120 compressions per minute).
  - **Visual or Audible Feedback:** Some advanced mannequins provide feedback via lights, sounds, or digital displays that show if the proper CPR techniques are being followed, such as correct compression depth and proper breath delivery.
  - **CPR Dashboard:** Some mannequins come with a CPR feedback system or app that can track performance metrics, including compression depth, rate, and ventilation volume.
- Realistic Features
  - **Skin Texture:** Many CPR infant mannequins have soft, lifelike skin that provides a more realistic feeling when handling and performing CPR techniques.
  - **Flexible Limbs:** The limbs may be flexible to allow proper positioning during CPR (e.g., moving the arms for appropriate placement of hands during compressions).
  - **Eyes and Mouth:** The mannequin may have realistic eyes and mouth features, which help trainees practice opening the airway and performing rescue breathing.
- Replaceable Parts
  - **Mouth/Nose Piece and Airways:** Most infant CPR mannequins have replaceable airways and mouth/nose pieces to ensure hygiene and enable long-term use. These are typically simple to replace or sanitize between training sessions.
  - **Skin or Chest Inserts:** Some models offer replaceable skin or chest inserts to extend the mannequin's usability and maintain its lifelike feel.
- Training Scenarios
  - **Simulated Respiratory Distress:** Some mannequins can simulate conditions like respiratory distress or choking to practice infant CPR in different emergency situations.
  - **Two-Person CPR Training:** Some kits allow for two-person CPR practice, where one person administers chest compressions while the other provides rescue breaths.
- Portability and Storage
  - **Lightweight and Compact:** Many infant CPR mannequins are lightweight and easy to transport, making them ideal for training in various locations (e.g., classrooms, hospitals, or at home).
  - **Carrying Case:** Some models come with a carrying case for easy storage and portability.
- Safety and Durability
  - **Non-Toxic Materials:** Mannequins should be made from non-toxic, durable materials that are safe for frequent use and cleaning.
  - **Easy to Clean:** The mannequin should be designed for easy cleaning and sanitizing, especially for the mouth, airway, and skin surfaces, to ensure hygiene.

91.CPR trainer Child; Advanced hemibody resuscitation model, size 74*26*36cm

- **Weight:** 7 lbs. (for one manikin)
- **Dimensions**: 14 x 7 x 23 (for one manikin)

Contents:

- 1 Prestan Child Manikin (OPTIONAL CPR Monitor)
- 10 Lung Bags
- Instruction Sheet
- 1 Nylon Carrying Case
- Color: skin
- Material: vinyl rubber, foam
- Red Light:1 to 50 compression per minute; Yellow Light:60 to fewer than 79 compression per minute; One green Light:80-99 compression per minute; Two green Lights:100 compression per minute

92. AED Trainer

- Mini AED trainer Model No: D0009. DC3.0V (2*AAA Battery)

- Power Supply: DC3.0V (2 x AAA battery)
- Product size: 100 x 80 x 18mm
- Shutdown Current: <20uA Max
- Maximum Operating Current: <350ma max

93. Hand paper towel dispenser Wall mounted

- Color: Brushed Nickel
- Installation: wall mounted
- Shape: Rectangular
- Suitable facial tissue amount 200pcs
    - * 3.9 * 11(L * W* H)

94. Tablet cutter plastic with stainless blade

- Material: Stainless steel blade
- Color: Blue
- Dimensions:8.8cm * 4cm *2.5cm
- Weight:0.05kg
- Plastic case with stainless steel blade
- Triangle for placing the tablet to be cut
- Compartment to receive the half tablet

95. Tea Spoon (10) Stainless steel

- Color: Silver
- Material: Stainless steel
- Dimension:6.7*L * 1.48W

96. Saucers (10) Stainless steel.

- Material: Stainless steel
- Size:7”
- Weight:250g

97. Water tumblers stainless steel

- Material: Stainless steel
- Color: Multi
- Dimensions:6.6 * 6.6 *22.86cm
- Weight:730g
- Capacity:500ml

98. Multi wound suture training block

- Suture practice model size 17.3cm*12.2cm*1.2cm
- Size: For external wounds 4-0, For internal wounds 7-0
- Length; 75cm
- Color: Clear
- Type: Curved
- Composite silicone material

99. Episiotomy suturing Simulators a set of 3

- Set Composition
    - Midline Suture Simulator
    - Left Mediolateral Suture Simulator
    - Right Mediolateral Suture Simulator
- Material: Silicon, strengthening mesh
- Dimensions: 20.5 * 13.5 * 6.5cm
- Weight: 0.553kg

100. Vaccine IM Injection Trainer Wearable design with an anti-piercing plate to prevent needle piercing through (a pack of 10)

- **Material:**

- **Skin Layer:** Soft, flexible, and realistic materials like silicone or rubber that mimic human skin. This provides a lifelike surface to practice skin insertion.
- **Muscle Layer:** A dense, firm inner layer simulating human muscle tissue, usually made of soft gel or foam, to provide resistance during the injection.
- **Needle Insertion Simulation:** Some trainers include a material that offers realistic "resistance" to simulate the feeling of the needle penetrating through skin and muscle layers.

o **Anatomical Accuracy:**
- Many IM injection trainers are designed to mimic various injection sites on the human body, such as:
  - **Deltoid (upper arm)** – Common for vaccines.
  - **Vastus Lateralis (thigh)** – Often used for pediatric or larger volume injections.
  - **Gluteus Medius (hip/upper buttock)** – Preferred for larger volume injections.

o **Injection Sites:**
- Realistic anatomical landmarks (e.g., acromion for deltoid, iliac crest for the gluteus) help users practice identifying the correct location for the injection.

101: Injection training arm: skin and vein replacement kit black in colour

o **Material**:
- **Silicone/Soft PVC**: The replacement skin and veins are typically made from high-quality, soft silicone or flexible PVC. These materials closely mimic human skin texture and elasticity while being durable enough for repeated use.
- **Black Color**: The kit is specifically designed in black or darker shades to represent darker skin tones, enhancing the realism of the training experience for students learning to inject in diverse populations.

o **Components**:
- **Skin Layer**: A replaceable skin layer that fits over the arm's underlying structure, mimicking the texture and feel of human skin. It may include details like wrinkles, pores, and general skin appearance to provide a more realistic surface for practicing injections.
- **Veins**: Embedded or integrated into the skin layer, veins are usually made from a flexible material that allows for the practice of locating veins and performing venipuncture. The veins are designed to simulate real human veins, offering both tactile feedback and realistic injection simulation.
- **Subcutaneous and Intramuscular Layers**: Some kits may include additional layers that simulate subcutaneous fat and muscle tissue beneath the skin to provide the full range of injection techniques (subcutaneous, intramuscular, and intravenous).

102. NOELLE S550 Maternal Care Patient Simulator with OMNI. Obstetric Manikin phantom with fetus & placenta

General Features
- Full-Body Simulator: Articulating full-body female model with realistic anatomy.
- Control System: Wireless OMNI® 2 tablet for scenario management, including play, pause, and reset functions.
- Airway Management:
  - Nasal/oral intubation (ETT/LMA).
  - Visible chest rise with bag-valve-mask ventilation.
  - Esophageal intubation capability.
- CPR Feedback: eCPR™ system for real-time monitoring of chest compressions and ventilations.
- Vascular Access:
  - IV training arm for bolus/infusion training.
  - Anterolateral thigh intramuscular injection sites.
- Pulse Points: Carotid, brachial, and radial pulses (manual squeeze bulb).
- External Maneuvers: Leopold maneuvers and external cephalic version training.

Labor and Delivery Features
- Birthing Mechanism:
  - Automatic delivery system supporting repeatable scenarios.
  - Programmable labor speed, fetal descent, and cervical dilation.
  - Supports multiple birthing positions.
- Delivery Scenarios:
  - Cephalic (vertex) deliveries with vacuum or forceps assistance.
  - Shoulder dystocia with visible "turtle sign" and maneuvers like McRoberts, suprapubic pressure, and Zavanelli.
  - Breech deliveries (frank, complete, footling) with maneuvers like Loveset and Mauriceau-Smellie-Veit.
- Placenta and Cord Management:
  - Placenta with removable fragments for retained placenta scenarios.
  - Simulates nuchal cord, cord prolapse, and true knots.

- Postpartum Features
    - Postpartum hemorrhage simulation with a 1-liter fluid reservoir.
    - Adjustable uterine tone and postpartum uterus with patent cervix.
    - Vulval inserts for postpartum suturing practice.
- **Neonatal Resuscitation**
    - Includes a full-term neonate with an intubatable airway and umbilical catheter site.
    - Neonatal respiratory distress modeling and resuscitation trainer.
- **Fetal Monitoring**
    - Virtual fetal monitoring (TOCO) with dynamic fetal heart rate (FHR) tracing.
    - Programmable FHR variability, accelerations/decelerations, contraction frequency/duration/intensity.
- **Accessories Included**
    - Articulating birthing baby with palpable sutures/fontanelle.
    - Two dilating cervices, two umbilical cords, clamps, lubricant.
    - Postpartum suturing kits with vulval inserts.
    - Carrying bag, power supply (100–240 VAC), user guide

103. Gaumard NOELLE S574 patient simulator General Nursing Manikin (SU SIE dark skin tone High fidelity)

- **Height: 5 feet, 9 inches (175 cm)**
- **Weight: 65 lbs (29 kg)**
- **Power Supply:**
- **Input: 100-240 VAC, 50/60 Hz, 2 A**
- **Output: 13 VDC, 9.2 A**
- **Battery Life: Up to 3 hours of tetherless operation; continuous operation possible on AC power**
- **Operating Temperature: Between 45°F to 95°F**

Features

- **Realistic Anatomy**: The simulator includes detailed anatomical features such as realistic neck, shoulder, elbow, hip, knee, and ankle articulation, allowing for various birthing positions including supine, semi-recumbent, and lateral positions.
- **Programmable Labor Scenarios**: Comes with a library of over 49 preprogrammed labor scenarios that can be customized. Users can change maternal or fetal conditions dynamically during simulations.
- **Delivery Mechanism**: Automatic birthing system simulates cardinal movements and descent during labor. It supports complex delivery scenarios such as breech births and shoulder dystocia.
- **Monitoring Capabilities**: Equipped with a touchscreen monitor that displays vital signs in real-time, including uterine activity and fetal heart tones. It can show multiple waveforms simultaneously.
- **Training Features**:
- Supports procedures like epidural placement and intubation.
- Simulates postpartum complications such as hemorrhaging and retained placenta.
- Includes realistic birth canal with dilating cervix for training in delivery techniques.

Additional Information

- **Environmental Requirements**: Operating temperature range is between 45°F to 95°F (7°C to 35°C).
- **Accessories**: The simulator comes with various accessories for enhanced training experiences, including lubricants specifically designed for use with the simulator

104. Gaumard NOELLE S574 patient simulator General Nursing Manikin (Medium fidelity)

General Specifications

- **Model**: NOELLE S574.100
- **Height**: 5 feet, 9 inches (175 cm)
- **Weight**: 65 lbs (29 kg)
- **Power Supply**: 100-240 VAC, 50/60 Hz, 2 A; operates on internal battery for up to 2 hours and 30 minutes when fully charged.
- **Connectivity**: Wireless (802.11) and wired options available for communication with monitoring systems.

Key Features

- **Interactive Simulation**: The simulator supports realistic obstetric scenarios including normal labor and delivery, shoulder dystocia, C-sections, and postpartum hemorrhage.
- **Vital Signs Monitoring**: Equipped with a touchscreen patient monitor that displays simulated vital signs in real-time, including maternal and fetal heart rates.
- **Programmable Functions**: Allows control over uterine activity such as contraction frequency, duration, intensity, and resting tone.
- **Realistic Anatomy**: Features include articulated limbs for various delivery positions, dilating cervix, and a mechanism to simulate fetal descent during labor.

- **Advanced Airway Management**: Supports intubation and advanced airway techniques for neonatal resuscitation.

Included Components

- **Control Tablet**: The UNI® 3 control tablet enables instructors to manage simulation scenarios effectively.
- **Accessories**: Comes with a variety of inserts for different clinical scenarios including umbilical cords, clamps, and an episiotomy repair kit.
- **Learning Materials**: Includes the Labor & Delivery Simulation Learning Experience Courseware package to enhance educational outcomes.

Environmental Requirements

- **Operating Temperature**: 45°F to 95°F (7°C to 35°C).
- **Storage Conditions**: Should be kept within recommended environmental parameters to maintain functionality

105. Manikin for cervical dilatation & effacement

Anatomical Accuracy:

- The manikin should accurately represent the anatomy of the female reproductive system, including the cervix, vagina, and pelvic area. It should allow for realistic simulation of cervical examination during labor.
- **Cervical Dilatation and Effacement Stages**:

The model must demonstrate multiple stages of cervical dilatation and effacement, typically ranging from no dilation (0 cm) to full dilation (10 cm). Many models feature six distinct stages for training purposes

- **Materials and Cleaning**:
  The surfaces of the manikin should be made from materials that do not require chemical sterilization, allowing for mechanical cleaning methods. A detailed training on cleaning and maintenance should be provided upon installation
- A complete set should include:
  - Multiple cervical simulation blocks or models (typically six) representing different stages of dilation.
  - An acrylic stand for display.
  - Instructional materials such as a user manual and demonstration guides.
  - Accessories like lubricants and cleaning solutions
- **Weight and Dimensions**:

Typical dimensions 33.2 in. x 7.2 in. x 5.3 in., with weights varying from approximately 6.8 kg (14.99 lbs) to 9.9 lbs

- **Training Features**:
  The manikin should allow for various training scenarios, including assessment of cervical position, consistency (soft, medium, hard), and fetal station adjustments during labor

It may also include features for simulating artificial rupture of membranes

- **Warranty and Support**:5 years
- **Portability**:
  The manikin should come with a hard carry case for easy transport and storage, ensuring it is suitable for use in various training environments

106. Obstetric manikin (PROMPT FLEX Birthing Simulator standard dark skin tone)

Overview

- **Type**: Anatomically correct birthing simulator
- **Model**: PROMPT FLEX Standard Dark Skin Tone
- **Manufacturer**: Laerdal Medical
- Dimensions and Weight
  - **Length**: 65 cm (25.9 in)
  - **Width**: 46 cm (18.1 in)
  - **Height**: 30 cm (11.8 in)
  - **Weight**: 19.8 kg (43 lbs)

Key Features

- **Modular Design**: Allows for multiple training scenarios, including routine and non-routine deliveries.
- **Realistic Anatomy**:
- Gynaecoid pelvis with a soft, flexible birth canal.
- Dilatable cervix and pelvic floor musculature for enhanced realism.
- **Training Capabilities**:
- Simulates normal births, breech deliveries, shoulder dystocia management, and instrumental deliveries (forceps and vacuum).
- Supports hybrid simulation and stand-alone bench training.

Included Components

- **Birthing Mother**:
- Articulated thighs for demonstrating various birthing techniques.
- Handle on the base for operator use during simulations.
- **Enhanced PROMPT FLEX Standard Baby**:
- Represents a full-term infant with improved articulation for realistic handling.
- **Additional Items**:
- Placenta
- Abdomen for PROMPT FLEX
- Perineum and birth canal components
- PROMPT birthing lubricant
- Wheeled carry case for transportation

107. Baby for nurse training

1.Physical Characteristics:

• **Size and Weight:** Should mimic the size and weight of an average infant to enhance realism. weight 10 pounds, and dimensions similar to a newborn (18–22 inches in length).

• **Appearance:** Realistic skin tone, facial features, and hair. The body should have accurate anatomical features, such as a soft, flexible head, neck, arms, and legs.

• **Movability:** Should be able to mimic realistic movements (e.g., turning head, limbs, and making slight motions) to simulate real-life interaction.

• **Body Materials:** Soft, durable materials (e.g., silicone or vinyl) that resemble human skin and allow for repeated handling and nursing tasks.

2. Functional Features:

• **Breastfeeding Simulation:** The baby should be capable of simulating breastfeeding interactions. This includes a realistic mouth and latch system for practice.

• **Nursing Tasks:** The doll should allow students to practice essential nursing tasks such as diaper changing, bathing, positioning, feeding, and holding techniques.

• **Vital Sign Simulation:** Some models may include simulated heartbeats or breathing sounds to enhance realism for practicing assessments like temperature, pulse, or respiration monitoring.

• **Interactivity (optional):** Features like crying or moving to simulate infant needs, such as hunger or discomfort.

3. Safety and Durability:

- **Material Safety:** Must comply with international safety standards for child-safe materials, such as non-toxic, hypoallergenic substances.
- **Easy Cleaning:** The model should be easy to clean and disinfect, with removable and washable parts where necessary.

4. Training Scope:

- **Age Representation:** The baby should represent the age of a typical newborn or infant for the intended nursing tasks.
- **Diverse Scenarios:** May include optional add-ons for specific training scenarios, such as jaundice, colic, or other common infant conditions.
- **Realistic Behavior Simulation (optional):** Some advanced models might include features to simulate preterm birth or other specialized nursing training scenarios.

5. Training Support:

- **Instruction Manual:** Provide a detailed manual for instructors on how to use the baby model effectively in various training scenarios.
- **Compatibility with Educational Programs:** Ensure the product can be integrated into a broader nursing training curriculum.
- Should include a **removable belly covering** and **interchangeable genital organs** essential accessories like syringes, suction catheters, feeding tubes, urinary catheters, and a carrying bag, providing a comprehensive training experience,

108. **Neonatal resuscitation model (Newborn PEDI dark skin tone)**

- **Design**: Anatomically accurate, including realistic facial features, skin texture, and anatomical landmarks for proper chest compressions, intubation, and ventilation.
- **Color & Tone**: A dark-toned skin color to simulate a newborn with a darker skin tone, ensuring diversity and inclusivity in training.
- **Size**: Full-term newborn size, typically 48-53 cm in length and weighing around 2.5-4 kg.
- **Materials**: Durable, high-quality, medical-grade materials such as silicone or rubber for lifelike skin feel and resistance to wear.

- **Weight**: Realistic weight for ease of handling during training exercises (can include adjustable features to simulate variations in newborn weight).

Functionality & Features

- **Airway Management**: The model should allow for airway management tasks like intubation, suctioning, and placement of airway devices
- **Chest Compressions**: The torso should be responsive to chest compressions, providing realistic feedback such as chest rise and resistance.
- **Breathing & Ventilation**: Functional to simulate breathing during positive pressure ventilation (PPV) or bag-valve-mask (BVM) ventilation, with realistic chest rise and lung inflation.
- **Circulation**: The model should feature a palpable pulse for training in resuscitation and CPR techniques.
- **Simulated Response**: Adjustable heart rates, breathing patterns, and pulse rates to mimic clinical scenarios, including bradycardia, tachycardia, and normal vital signs.
- **Invasive Procedures**: Capability for umbilical line insertion, intraosseous needle insertion, and other emergency procedures.

Durability & Maintenance

- **Longevity**: Designed for repeated use in training environments, with parts that are easy to clean and maintain.
- **Replaceable Components**: Anatomical parts should be replaceable to prolong the life of the model.
- **Cleaning**: Non-porous, easy-to-clean materials with removable and washable parts for hygienic use in training settings.

Training Features

- **Feedback Mechanism**: Integration with electronic systems or app-based platforms to provide feedback on CPR quality, ventilation effectiveness, and other resuscitation techniques.
- **Realistic Sounds**: Incorporation of realistic sounds such as heartbeats, lung sounds, and crying to simulate various neonatal conditions.
- **Scenario-based Training**: Ability to simulate a wide range of neonatal emergencies, from birth asphyxia to cardiac arrest and neonatal respiratory distress.

Compatibility & Support

- **Training Equipment**: Compatible with external equipment such as bag-valve-masks, defibrillators, and neonatal resuscitation kits.
- **Training Programs**: Support for standard neonatal resuscitation programs (NRP) and certification courses.
- **Technical Support**: Availability of technical support for repairs, upgrades, and troubleshooting.

Regulatory Compliance

- Compliance with safety standards certifications

109. ZOE Gynecological skills trainer (dark skin tone) S504.200 Gynaecologic Trainer

Anatomy

- Adult-sized female lower torso: diaphragm to upper-quadriceps
- Smooth and supple skin
- Available in light, medium, and dark skin tones at no additional cost
- Bony landmarks including ischial spines and coccyx
- Patent rectum for suppository administration

Gynecologic

- Vaginal introitus facilitates placement of female condom or diaphragm
- Removable and interchangeable cervices for visualization of normal and abnormal physiologies
    - Normal parous
    - Polyp
    - Erosion
    - Nabothian cyst
    - Purulent cervicitis
    - Carcinoma
- Lifelike uteri and cervices structure for bimanual examinations
    - 6-8 week pregnant
    - 6-8 week pregnant with shortened ligaments
    - 10-12 week pregnant
    - 20 week pregnant
    - Non-pregnant anteverted
    - Non-pregnant retroverted
- Realistic fallopian tubes and ovaries for visualization and occlusion practice
- Pre-cut openings in non-pregnant abdomen permit minilaparotomy procedures
- Patent cervices and uterus opening allow passage of real instruments for procedures like uterine sounding

- Package Contents

- ZOE Gynecologic Torso
- Non-pregnant abdomen
- Anteverted uterus
- Retroverted uterus
- Clear IUD uterus
- Pregnant uteri: 6-8 weeks, 6-8 weeks w/ short ovarian ligaments, 10 12 weeks, 20 weeks
- Normal patent cervices
- Abnormal cervices
- Pregnant cervices: (3) 6-8 weeks, (3) 10-12 weeks • Urine kit • Instruction manual

110. **Breast model (Breast Examination Trainer- Advanced dark skin tone) included**

- Set of Lymph Node Pads and Lymph Nodes (1)
- Set of Breast Examination Pathologies (1)
- Breast Examination Inserts (2)
- Breast Pathologies Supports (2)
- Breast Back Plates (2)
- Breast Examination Torso (1)
- Wearable Examination Breasts (1)
- Length: 66 cm / 25.9 in
- Width: 31 cm / 12.2 in
- Height: 51 cm / 20.1 in
- Weight: 6.6 kg / 14.5 lb

111. Implant model (RITA- Reproductive Implant Training Arm Dark skin tone)

- Compact simulator for inserting and removing Levonorgestral (Norplant®) implants
- Consists of upper left arm on base
- Soft arm inserts simulate soft arm tissue
- Soft foam insert can be rotated 360°, allowing multiple insertion exercises
- Includes 5 tubular inserts, 1 extra latex skin, and instructions

112. Penile Model

Intended Use:

- **Medical Training**: To assist in teaching anatomy, diagnostic methods, or surgical techniques.
- **Patient Education**: For demonstration of conditions, treatments, or procedures.
- **Surgical Planning**: For use in pre-surgical consultation or simulation.

Material Specifications:

- **Durability**: The model should be made of durable, high-quality materials (such as silicone, rubber, or plastic) that mimic the texture, elasticity, and anatomical features of real tissue.
- **Realism**: The model should replicate the physical properties (texture, flexibility) and appearance (color, shape, size) of human tissue.
- **Non-toxic & Hypoallergenic**: Materials should be safe for use in medical settings and free of harmful substances.
- **Temperature Resistance**: Capable of withstanding varying temperatures, particularly for models that may simulate procedures involving thermal applications.

Design Features:

- **Anatomical Accuracy**: The model should accurately represent the male genital anatomy, including the penis, urethra, and surrounding structures such as the scrotum.
- **Modular Design**: Some models may have removable parts (e.g., internal structures) to facilitate detailed education or surgery planning.
- **Color and Texture**: A realistic skin texture and color to aid in visualization for medical professionals or patients.
- **Size Variability**: Available in various sizes to represent a range of anatomies or conditions.

Functional Features:

- **Simulation of Common Pathologies**: Features that allow the demonstration of common conditions such as erectile dysfunction, Peyronie's disease, or penile implants.
- **Insertable Components**: For some models, the inclusion of insertable components like catheters, prosthetics, or models for surgical training (e.g., penile implants or circumcision procedures).
- **Interactive Elements**: Some models may include mechanisms for simulating functions like erection, ejaculation, or catheterization.
- **Simulated Tissue Feel**: The model should allow users to practice surgical or diagnostic procedures with realistic feedback.

Ease of Use:

- **Cleanability**: The model should be easy to clean and maintain, especially in medical or educational environments where hygiene is important.
- **Lightweight and Portable**: Depending on its purpose, the model should be easy to transport or handle in training settings.

Safety and Compliance:

- **Non-toxic, Medical Grade Materials**: Compliance with standards for medical or educational tools, such as ISO or FDA standards.

113. Bony pelvis model MVA

Model Type and Purpose

- **Type**: Anatomically accurate, full bony pelvis model (complete with femoral head and sacrum) designed for trauma assessment, teaching, and simulation in MVA scenarios.
- **Purpose**: To simulate fractures, dislocations, and trauma related to motor vehicle accidents, focusing on pelvic injuries.

Material

- **Construction**: High-quality, durable materials (e.g., medical-grade PVC, ABS, or synthetic bone resin) that closely resemble human bone in terms of texture, weight, and fragility.
- **Flexibility**: Flexible enough to demonstrate fractures and dislocations, yet durable for long-term use.
- **Finish**: Surface finish should simulate the texture and appearance of human bone (e.g., slightly rough, matte finish).

Size and Dimensions

- **Realistic Proportions**: The model should accurately replicate the average adult human pelvic bone structure in size and proportions.
    - Adult male/female dimensions to be provided based on intended use.
- **Modular Components**: The model may feature separable or movable parts (e.g., sacrum, iliac bones, pubis, femoral heads, and acetabulum) for ease of manipulation and fracture simulation.

Features

- **Fracture Simulation**: Capable of replicating common MVA-related injuries such as:
    - Pelvic fractures (e.g., pubic rami fractures, sacral fractures, acetabular fractures).
    - Dislocations and misalignments.
    - Soft tissue simulation for ligament or muscle attachment representation (optional).
- **Realistic Movement**: Includes joints or hinges to replicate the natural range of motion, particularly the sacroiliac joint and the acetabulofemoral joint.
- **Injury Representation**: Ability to simulate soft tissue damage, bone displacement, and fracture patterns associated with significant trauma (e.g., high-impact motor vehicle accidents).
- **Visual Markings**: Anatomical landmarks and structures (e.g., iliac crest, pubic symphysis, sacrum) should be clearly indicated or painted for clear visualization.
- **Modularity**: The pelvis model should be designed for easy assembly, disassembly, or replacement of damaged parts.

Educational Utility

- **Interactivity**: Must be easily manipulated for educational scenarios, such as:
    - MVA trauma assessment training.
    - Demonstration of emergency response and medical interventions.
    - Injury simulation for fracture reduction and immobilization techniques.
- **Compatibility with Software**: (Optional) Ability to integrate with simulation software or diagnostic tools for virtual or augmented reality setups.

Durability and Maintenance

- **Impact Resistance**: Capable of withstanding frequent handling during practical training and simulations without significant wear or damage.
- **Maintenance**: Easy to clean and maintain; materials should be resistant to degradation from regular handling or exposure to fluids commonly encountered in medical or trauma simulations.

Safety

- **Non-toxic**: The model should be made from non-toxic materials, meeting medical safety standards.
- **No Sharp Edges**: All edges should be smoothed to prevent injury during handling.
- **Skin/Tissue Simulation**: be paired with a soft tissue or skin overlay to simulate real-world injuries in a more lifelike manner.

Dimensions and Weight

- **Dimensions**: height of approximately 25–30 cm and a width of 20–25 cm.
- **Weight**: Typically weighs around 2–4 kg, with weight distribution approximating that of a human pelvis.

Compliance and Standards

- The model should meet any relevant medical, educational, or industry standards (such as ISO, CE marking, or ASTM).

114. **Female condom model FC2**

Specifications

- **Length**: Approximately 170 mm to 190 mm.
- **Width**: 75 mm (nominal diameter).
- **Thickness**: Typically, around 0.05 mm, designed for strength and flexibility.
- **Shape**: Flexible, with a closed-end ring that fits over the cervix and an open-end ring for external placement over the vaginal opening.
- **Packaging**: Usually comes individually sealed in a pouch to maintain sterility and ensure safe storage.
- **Safety Certification**: Must comply with international health and safety standards such as ISO 4074 (female condom standard), and may have certifications from regulatory bodies like the World Health Organization (WHO), the U.S. Food and Drug Administration (FDA), and others.
- **Durability**: Expected to have a shelf life of around 5 years with proper storage conditions (e.g., in a cool, dry place).

115. **Perineal repair model AR312 Episiotomy suturing**

- **Purpose**: Designed to simulate the perineal region for practicing episiotomy and perineal repair techniques.
- **Material**: Typically made from high-quality silicone or thermoplastic elastomer to replicate human tissue feel and behavior during suturing.
- **Features**:
  - Anatomical accuracy for realistic training.
  - Reusable with the ability to simulate skin, muscle, and vaginal wall layers.
  - It may include features like rectal and vaginal openings for realistic training in suturing and wound management.
  - Includes detailed anatomical markings for correct placement of sutures.
- **Dimensions**: Size and shape should approximate a standard human perineal region.
- **Realism**: Should have skin, subcutaneous tissue, and muscle layers to closely replicate real-world anatomy.
- **Suture Simulation**: The material should allow sutures to be placed and removed repeatedly without significant wear, making the model durable for numerous training sessions.
- **Vaginal Opening**: For practice in episiotomy incision and closure, as well as other related procedures.
- **Ease of Cleaning**: The surface should be easily cleaned with appropriate disinfectants to maintain hygiene standards.
- **Portability**: Should be lightweight and portable for use in various training environments (e.g., clinics, simulation labs)

116 **Uv (Ultraviolet-visible) vis spectrophotometer**

- PC based Eco-friendly high performance, double beam Spectrophotometer with proprietary LoRay
- Light diffraction grating for unmatched optical specifications with Windows-based 32/64- bit UV Software for operation on 220V / 50Hz
- Proprietary Lo-Ray-Light grade blazed holographic diffraction grating with Czerny-Turner monochromator design for ultra-low stray light.
- Wavelength range from 185 nm to 900 nm which can be expandable to Near Infra-Red range up to 1,400nm with integrating sphere attachment.
- Variable spectral bandwidth selection from 0.1nm to 5nm and L2/L5 for low stray light mode for critical samples. Excellent wavelength reproducibility ±0.05 nm or better
- Resolution 0.1 nm
- Mode: Abs, %T, %R,
- Photometric range:-5 to 5 Abs
- Stray light: Max. 0.005 %T (220 nm NaI) or better
- noise level 0.00003 Abs RMS (500 nm) or better
- Two independent high energy sources, D2 and Tungsten for better energy throughput.
- High Dynamic range and linearity through extended photometric range.
- Built in Validation program complying with all Pharmacopoeias.

- 32bit UV Probe software (Window Professional compatible) includes – Spectrum, Data processing, Multitasking Photometric, Kinetics and time course, Report Generation and Inspection mode.
- Wavelength slew rate: 14000 nm/min or better ¬ Wavelength scan rate: 4000 to 0.5 nm/min or better
- UV 10mm Cell GS Kit includes 10 mm Quartz UV cells, 3.5mL and 1 mL cuvette Matched Pair (With transmission certificate) and Micro fiber Cleaning Cloth.
- Integrating Sphere by combining the 0 deg / 8 deg incidence angle integrating sphere with the S/R exchange function of the spectrophotometer, diffuse and specular reflectance measurements are possible without using any special attachments.
- The system should be equipped with two detectors: a photomultiplier tube and an InGaAs detector with following the parts Sphere attachment
    - Solid Sample Holder – 1 no.
    - Thin Film Attachment – 1 no

- **Applications**: Used in laboratories for filtering solvents, chemicals, and other liquids to remove particulate matter or microorganisms.
    - **Filter Compatibility**: Should support various filter membranes such as nylon, PTFE, PES, or cellulose acetate.
    - **Vacuum Pressure Rating**: Unit should handle a vacuum pressure range of -0.9, ensuring the system can filter under controlled vacuum conditions.
    - **Funnel Shape**: Conical or cylindrical for optimal flow and filtration efficiency.
    - **Volume Capacity**: 1000 mL or 1L capacity to allow large volume filtration.
    - **Outlet Size**: Appropriate outlet for attaching tubing (e.g., ¼" or ½" tubing compatible).
    - **Reusable Components**: such as a funnel and collection flask.
    - **Ergonomic Design**: Should have easy-to-handle components such as a secure lid or closure for filtering.
    - **Clear Markings**: Volume markings on the collection flask or funnel
- **Leak-proof Seal**: The system should have a secure sealing mechanism to prevent leaks during filtration.
- **Sterility Option**: Some units may require sterilization or be supplied in sterile packaging, depending on the use case.

117. Solvent filtration unit 1000 ml

- **Capacity: 1000 mL**
- **Material of Construction: PTFE for chemical resistance.**
- **Filter Type: Suitable for both sterile and non-sterile filtration to include membrane filters (0.22 µm)**

118. Digital colony counter 220V, 50 Hz

- For counting bacterial colonies.
- Features 11.5 cm (4.5") lens with 1.5x magnification to eliminate parallax erros; 40-watt tungsten bulbs to illuminate dark backgrounds;
- Wolffhuegel guide plate and 3-wire cord.
- Accomodates Stewart plates.
- Sheet metal case.
- Dimensions: 25 x 28 x 27 cm (10 x 11x 10.5").
- CSA certified. 220V
- Magnification: 113mm lens
- Includes: Colony counter, guide plate, Instructional manual and power cord

119. Viscometer

- Viscosity range cP(MPaS): 1 to 2M
- RPM: 0.3-100 or 0.3-200
- Accuracy of viscosity : ±1.0% of range • Repeatability : : ±2%
- Display Info: - Viscosity (cP or mPaS) - % Torque - Temperature (°C or °F)
- Analog/digital outputs for recording torque and temperature
- Temperature off-set capability to : ±1°C
- USB PC interface

- Optional: Adapter/accessory for measuring minimal viscosity ranges

120. Auto titrator 0.1-200ML

Titrator Capacity and Range
- **Volume Range**: 0.1 mL to 200 mL
- **Precision**: High accuracy resolution of 0.001 mL or better.

Titration Modes
- **Automatic Endpoint Detection**: Use of pH, conductivity, or color indicators
- **Multiple Titration Techniques**: Potentiometric, conductometric, or redox titrations.
- **Support for Various Titrants**: Compatible with a wide range of chemicals for titration.

Display & User Interface
- **Digital Display**: Clear and easy-to-read display, typically touchscreen.
- **Software Interface**: Should include pre-programmed methods, easy customization, and data export options.
- **Automatic Calibration**: Support for automatic calibration to ensure accurate titration.

Pump and Burette
- **Motorized Pump**: Precision motorized pump for accurate titrant dispensing.
- **Burette Size**: Should be able to accommodate titrant volumes from 0.1 mL to 200 mL.
- **Material**: Glass, PTFE
- **Flow Control**: Adjustable flow rates, 0.001 mL/min to several mL/min.

Safety Features
- **Leak Detection**: Ability to detect and prevent leaks during titration.
- **Overpressure Protection**: Ensure safe operation under pressure.
- **Automatic Shut-off**: If the titration reaches a predefined limit or endpoint.

Compatibility
- **Connectivity**: USB, Ethernet, or Wi-Fi
- **Power Supply**: Typically 100-240V AC with low power consumption.

Cleaning and Maintenance
- **Self-Cleaning**: Automated cleaning cycle
- **Low Maintenance**: Minimal user intervention required for long-term operation.

Software
- **Data Logging**: Ability to log titration results, including raw data, for reporting and analysis.
- **Method Storage**: The option to save and load different titration methods.
- **Compliance**: Should meet regulatory requirements Good Laboratory Practices

Size and Footprint
- **Compact Design**: Should be space-efficient for laboratory environments.
- **Portable Option**: Optionally portable for field use, if required.
- **Technical Support**: Access to customer support for troubleshooting and maintenance

121. High performance liquid chromatograph system machine

- **Pump**:
  - High-pressure, solvent delivery system with a wide flow range 0.001 to 10 mL/min.
  - Precision in pressure and flow rate control ≤ 0.1% RSD.
  - Capable of handling high pressure up to 6000 psi
- **Injector**:
  - auto-sampler with precise volume injection control.
  - Autosampler with a minimum capacity for at least 100-200 vials.
  - Variety of injection volumes 1-100 µL
- **Column Oven**:
  - Temperature control 100°C or higher.
  - Stability and uniformity in temperature regulation to ensure consistent analysis.
- **Detector(s)**:
  - UV-Vis detector (190-800 nm) for general applications.
  - Additional detectors
    - Refractive Index (RI) detector.
    - Fluorescence detector (for specific analyses).
    - Conductivity detector (for ion chromatography).
  - Sensitivity and linearity specifications ≤ 0.001 AU for UV-Vis).
- **Software**:
  - User-friendly, PC-based chromatography data system (CDS) with integrated software for method development, data acquisition, processing, and reporting.
  - Compliance with 21 CFR Part 11 for data security and audit trails if required.

- **Resolution**: Capability to resolve components with a minimum of 1.5
- **Precision**: System suitability with reproducibility ≤ 1% RSD for retention time and area.
- **Linearity**: High linearity for peak response, with a minimum of 0.999 correlation coefficient.
- **Sensitivity**: Low detection limits, < 1 ng for UV-Vis
- **Ease of Maintenance**: Easy access to parts, self-diagnostics, and built-in maintenance schedules.
- **Modularity**: The system should be modular to allow upgrades or additions of detectors, pumps
- **Compatibility**: System should be compatible with a variety of columns, solvents, and sample types.
- **Regulatory Compliance**: Should meet global regulatory standards GMP, FDA.
- **Safety Features**: Automated leak detection, solvent level monitoring, and safe handling features.
- **Training**: Provide on-site training for operators.
- **Warranty**: 1-year warranty with optional extended service contracts.
- **Installation**: Delivery, installation, and operational qualification.
- **Documentation**: Provide all relevant manuals, calibration certificates, and performance qualification reports.

122. Tintometer BCM-110

1. **Color Measurement Range:**
   - Designed for precise color measurement in various liquids, solids, and semi-solids.
   - Measurement is typically in color indices (Pt-Co, APHA, Hazen, or Gardner).
2. **Measuring Method:**
   - uses a spectrophotometric or visual method to assess color.
   - Measurement based on optical principles using a light source and a detector to analyse color.
3. **Display and Interface:**
   - Equipped with a digital display for easy reading of results.
   - a user-friendly interface, touchscreen
4. **Accuracy and Resolution:**
   - High precision with color accuracy d ±0.5–1 units.
   - Provides repeatable and reliable color measurements.
5. **Measurement Units:**
   - Hazen, APHA, and Pt-Co.
6. **Power Source:**
   - standard AC power or sometimes battery-operated for portability.
7. **Data Storage and Connectivity:**
   - options for storing test results for future reference.
   - data output options like USB, Bluetooth, or wired connections for integration with other systems.
8. **Calibration:**
   - pre-calibrated standards for quick and reliable results.
   - self-calibration function.
9. **Build and Design:**
   - Typically robust, compact, and portable.
   - a built-in sample compartment for ease of use.

- **Software Integration**: software for data analysis and reporting.
- **Additional Accessories**: options for sample vials, adapters, and calibration standards

123. Dissolved Carbon dioxide meter CarboQC At-line

- **Technology**: Infrared (IR) absorption, or membrane-based optical sensors
- **Measurement Range**: Typically, 0 to 1000 mg/L
- **Accuracy**: ± 1%
- **Resolution**: At least 0.1 mg/L.
- **Response Time**: Less than 1 minute
- **At-line Measurement**: Designed for measurement of dissolved CO2 at-line
  User Interface: Color touchscreen display with graphical data representation.
- **Data Logging**: Capability to store a certain number of measurements, with timestamp and operator input.
- **Calibration**: Automatic or manual calibration options, with a clear and easy calibration procedure.
- **Temperature Compensation**: Built-in compensation to account for temperature effects on CO2 concentration.
- **Sample Volume**: Typically low-volume (5-10 mL) per measurement cycle.
- **Sample Temperature Range**: 5°C to 40°C.
- **Pressure Requirements**: Standard atmospheric pressure or optionally pressurized sample conditions.
- **Sample Type**: Suitable for carbonated beverages, water, or similar fluids
- **Output Type**: digital (RS232, RS485)

- **Data Logging**: Capability to store measurements in internal memory or export to external systems (e.g., LIMS, SCADA).
- **Connectivity**: Options for connectivity to PLC or remote control.
- **Alarm Outputs**: Configurable alarms for high/low CO2 levels
- **Calibration Gas**: Compatibility with certified calibration gases for CO2 concentration
- **Cleaning**: Easy-to-clean sample chamber, ensuring minimal contamination.
- **Operating Temperature Range**: between 5°C and 45°C.
- **Humidity**: 0-90% non-condensing.
- **Enclosure Rating**: IP65 for protection against dust and water ingress.
- **Voltage**: Typically 100-240V AC,
- **Power Consumption**: Low-power consumption, typical for laboratory-grade instruments
- **Regulatory Compliance**: CE, UL, and other relevant certifications
- **Safety Standards**: Meets industrial safety standards for operation in factory or laboratory environments.
- **Dimensions**: Compact form factor suitable for benchtop
- **Weight**: Light enough for easy portability or setup.

Warranty & Support:

- **Warranty** 1-year warranty

124. **Portable Dissolved Oxygen Meter OxyQC standard**

Features

- High-Resolution Optochemical Sensor
- Data Logger Function
- User-Friendly Interface
- Bluetooth and USB Connectivity
- Robust Design:
- Fast Measurement Time

Specs

- Measuring range 0.015 ppm to 45 ppm
- Repeatability (s.d). ±20 ppb (for <5 ppm)
- Reprocubility (s.d) ±50 ppb (for <15 ppm)
- Resolution 1 ppb
- Sample volume ~100 mL
- Sample temperature -3 °C to +40 °C
- Measuring Time per Sample ~50 seconds
- Power Supply AC 100–240 V, 50/60 Hz
- Data memory 500 measurement results
- Built-in support O_2 Data Logger, threshold value functionality, system check
- Portable use Up to 11 hours continuous use
- Communication interfaces 1x RS-232, 1x USB; optional: 1x RFID, 1x Bluetooth
- Accessories PFD (Plus), SFD, carrying strap, RFID tags, printer, rubber protection
- Protection class IP67
- Dimensions (L x W x H) 262 mm x 209 mm x 176 mm (10.3 in x 8.2 in x 6.9 in)
- Weight 1.7 kg (3.75 lbs)

125. **Water test photometers**

- Instrument Direct-reading colorimeter with automatic set-up and reading
- Wavelength Pre-programmed wavelengths of 450, 500, 550, 570, 600 and 650nm
- Display Touch screen backlit display. Test identification and prompts in foreign languages.
- Direct reading of results in mg/L, mmol/L or µmol/L (user selectable) Accuracy ±0.005 at 0.3au Resolution Transmittance resolution to 0.1% and absorbance resolution to 0.001au.
- User selectable Options Date format, display language, test, units, sample number, dilution, user I.D. and wavelength Memory 1,000 sample results can be stored in on-board memory and selectively recalled to screen Output Bidirectional communication with output to printer or computer via RS232 serial interface
- Test mode Automatic adjustment for round test tubes from 13 to 20mm diameter
- Mass, kg 1.65
- Dimensions [w x d x h], mm 290 x 240 x 90 Electrical supply Standard mains power, optional battery power through standard AA batterie

126. Water test strips 5 in 1

- Free chlorine Range 0-10 mg/L
- Total Chlorine Range 0-10 mg/L
- Total Hardness Range 0-25 gpg / 0-425 mg/L
- pH range 6.2 - 8.4
- Pack Size: 50 strips

127. Laboratory Incubator

- Temperature range: Ambient +5.0°C to 60.0°C
- Temperature control accuracy ±0.5°C of set point
- Temperature uniformity ±0.5°C
- Control type: Time proportionate digital / Microprocessor PID, Auto tune
- Temperature display: 3½ digit LED
- With motorized fan blower for air circulation
- Inner full-length acrylic door
- Input voltage: 230Volts AC, 50 Hz

128. Micro-titration equipment 50 mL

- titration, 50 ml, 230 Volt (EURO), with reagent recirculation-system, conformity certified,
- serial or USB interface, complete with thread A 45 mm, 3 adapters (A 32, A 38 and S 40),
- 1 screw coupled suction tube, 1 titration discharge unit and 1 power supply,
- Data Power Cable 0,75 m, instruction manual, individual certificate of performance, valve spanner. With touch screen module "titration

129. Electric Stirrer 40L homogenizer 100-2000rpm

- Mounting Type: Free Standing, Tabletop
- Power Source: Corded Electric
- Plug Type: US Standard
- Display Type: Digital Tube Screen
- Motor Type: DC Permanent Magnet Motor
- Time Range: 0-999min
- Maximum Mixing Volume: 40L/10.57gal
- Recommended Mixing Volume: 10L/2.64gal
- Motor Input Power: 120W
- Motor Output Power: 100W
- Voltage: 100-240V
- Frequency: 50/60HZ
- Speed Range: 100-2000rpm
- Speed Display Resolution: ±10rpm
- Speed Increase/Decrease: 10rpm
- Maximum Torque: 40N·cm
- Maximum Viscosity: 30000mPa.s
- Drill Clamping Diameter Range: 0.8-10mm/0.03-0.39in
- Protection Level: IP42
- Permissible Ambient Temperature: 5-40°C/41-104°F
- Permissible Ambient Humidity: 80%
- Motor Adjustment Range: 30-60cm/11.81-23.62in
- Power Cord Length: 1.5m/4.92ft
- Overall Product Size(L*H): 37*60cm/14.57*23.62in
- Package Size: 45*34.5*16cm/17.72*13.58*6.3in
- Gross Weight: 5.5kg/12.13lbs
- Net Weight: 5.25kg/11.57lbs

130. Water bath

Description

Thermostatically controlled; stores easily in any laboratory and comes with instructions.

- Durable, seamless, stainless-steel construction
- Tight-fitting polycarbonate lid
- Adjustable knob
- ON/OFF switch
- Material Stain steel
- Dimensions L x W x H 40.6 x 27.9 x 20.3 cm

Specifications:

- Capacity: 1.6L (1.56 qt.)
- Temperature range: 45° to 65°C (113° to 149F)
- Temperature Accuracy (with cover on): ±2°C (±4°F)

131. Water distiller

- **High purity distilled water** - conductivity approximate 2,5 µS/cm
    - Automatic water switching and power cut-off
    - Electronic water level switch
    - Automatic thermostatic cut-off safety system
    - Hearing element made of high quality stainless steel
    - All material contact water made of stainless steel AISI 304
    - Easily accessed evaporator tank for effortless cleaning and maintenance
    - The unit is suitable for both bench and wall mounting.
- All parts and tools for installation included.
- CE Certificate

132. Sound level meter/Decibel meter PCE-MSL 1

- **Measuring range:** 35-135 dB
- **Dynamic range:** 50 dB
- **Frequency range:** 31.5 Hz -8 kHz
- **Accuracy:** ±2 dB
- Frequency rating: A
- **Time rating:** fast: 125 ms
  slow: 1 sec.
- **Microphone type:** 1/2" Electret condenser microphone
- **Visual alarm limits:** >100 dB: display shows "HI"< 100 dB: display shows "LO"
- **Temperature measuring range:** -20 -70 °C / -4- 158 °F
- **Temperature accuracy:** ±1.5 °C / ±2.7 °F
- **Resolution:** 0.1
- **Data update:** 300 ms
- **Battery life:** <60 h
- **Automatic shutdown:** after 15 mins inactivity (can be deactivated)
- **Power supply:** 3 x 1.5 AAA batteries
- **Operating conditions**: 0 ... +60 °C / 32 ... 140 °F, 10 ... 90 % rel. humidity
- **Storage conditions:** 0 ... +60 °C / 32 ... 140 °F, 10 ... 70 % rel. humidity
- **Dimensions**: 144 x 56 x 30.5 mm / 5.6 x 2.2 x 1.2"
- **Weight**: 73 g / 2.5 oz

133. Noise Dosimeter GM1357

- **Measuring Level** 30~130dB (A)/35~130dB
- **Linearity Range**: 50dB / 100dB
- **Microphone:** 1/2" Electronic Condenser microphone
- **Level Range** 30 ~ 80, 50 ~ 100, 60 ~ 110, 30 ~ 130 dB
- **Resolution**: 0.1dB
- **Accuracy:** ±1.5 dB
- **Frequency Range**: 31.5Hz to 8.5KHz
- **Digital Display**: 5 Digits
- **Sample Rate**: 20 Times/sec
- **Over Indication**: **OVER/UNDER**
- **AC Signal Output:** 0.707Vrms/ full bar graph, output impedance is about 600ohm

- **DC Signal Output:** 10mV/dB,output impedance is about 100ohm
- **Power Supply:** 4 pcs AA 1.5V Batteries or DC 6V 100 mA
- **Packaging Details:**
  - Product Size 256*70*35mm
  - Product Weight 238g
  - Inner box Size 24.5*17.5*27.3cm(10PCS)
  - Outer box Size(1PCS) 26.5*8.5*6.4CM
  - Inner box weight (1pcs) 0.37KG

134. Bunsen Burner

- Total weight of the burner is about 350 g. Nickel plated brass burner tube with rotatable air regulator & cylindrical riffled connector, mounted on casted base. Burner tube 12.5 mm dia., base 75 mm dia., connector 10 mm o.d. For use with LPG / Butane gas.
  Burner Specifications: Tube Dia. - 12.5 mm, Height - 160 mm, Weight - 350 g.

135. Tripods 12 inches tall

- 12" tall circular tripod stand
- Made from plated mild steel
- Inner diameter: 2.5"
- Legs measure 5.5" apart

136. Hot Plate Stuart UC 150

- Glass ceramic150 x 150
- **Plate Dimensions, mm**
- **Heated Area, mm**120 x 120
- **Heater Power, Watt** 500
- **Max plate temp, °C**450
- **Contact thermometer socket**
- **Dimensions (w x d x h), mm**172 x 248 x 122
- **Net weight, kg 2.2**
- **Electrical supply**230V, 50Hz, 500W
- **IP Rating** 32

137. Ice Time cool box 6L

- **Model:** HJI-ICEBOX-003
- **Temperature**+2°C and +8°C, critical for vaccine storage.
  - It should be packed with ice packs and gel packs
- **Features**
- **Insulation:** Solid-walled construction provides effective insulation.
- **Monitoring:** Equipped with a probe linked to an external temperature display for continuous monitoring without opening the box. The thermometer should have an accuracy of ±0.5°C
- **Data logger**
- **Material:** Polyethylene
- **Dimensions**
  - Inner Dimensions: Approximately 26 cm (diameter) x 19 cm (height)
  - Outer Dimensions: Approximately 30 cm (diameter) x 23 cm (height)
  - Colour Blue

138. Freezer L2X-3-FM

- **Type:** Benchtop Laboratory Freezer
- **Capacity:** 2.5 cu. ft. (approximately 70.8 liters)
- **Temperature Range:** Adjustable set point from -10°C to -30°C, factory set at -20°C
- **Stability:** ±2.0°C from the set point
- **Defrost Type**: Manual defrost
- **Physical Dimensions**
  - Exterior Dimensions: 20.1" W × 20.9" D × 25.8" H
  - Interior Dimensions: 15.5" W × 15.5" D × 16" H
  - Weight: Approximately 94 lbs
- **Energy and Electrical Specifications**
  - Power Requirements: 120V, 60 Hz, 15 Amps
  - Energy Consumption: Approximately 0.75 kWh/day

- Refrigerant: R600a (environmentally friendly)
- **Construction and Design**
- Material: White powder-coated steel with CFC-free insulation
- Door Type: Single solid door with magnetic seal
- Shelving: Two adjustable epoxy-coated wire shelves
- Alarm System: Audible and visual alarms for high/low temperatures
- **Operational Features**
- **Controller:** Intelligent microprocessor with digital display and adjustable temperature control
- **Interior Lighting**: LED lighting activated by door opening
- **Locking Mechanism:** Keyed door lock for security
- must be designed to operate continuously in high humidity (up to 90% at 35°C) and ambient temperatures of 5–40°C.
- Must comply with electrical safety standards IEC 60601–1, UL 61010–1, EN 61010–1.

139. Photometric sensor UDT model 211

- **Type**: Illuminance Sensor Head
- **Calibration**: Standard calibrations are available in lux and foot-candles (fc).
- **Photometric Filter Accuracy**: Less than 1.0%.
- **CIE V(λ) Function Accuracy**: Less than f′1≤3%f′1≤3%.
- **Active Area**: 1 cm².
- **Dynamic Range**: 1.0×10−21.0×10−2 to 5.0×1055.0×105 lux.
- **Typical Response**: 3.2×10−93.2×10−9 A/lux at 555 nm

140. Safety Boxes

- **Performance Requirements**
  - **Functionality:** The box must securely contain contaminated sharps at the point of use, during temporary storage, and throughout transport to treatment facilities
  - **Nominal Capacity:** Each box should accommodate no less than 20 units of 0.5ml AD syringes per nominal liter of storage capacity
  - **Sharps Aperture:** Must allow for the insertion of syringes and needle assemblies of standard sizes (up to 20 ml). The aperture should be closable at any point to prevent needle-stick injuries
- **Safety Features**
  - **Resistance to Penetration**: Boxes must withstand a minimum penetration force of 12.5 N, with an average requirement of 15 N across samples
  - **Drop Test Compliance**: After undergoing drop tests, boxes should not allow syringes to fall out or sustain significant damage
  - **Stability**: Boxes must remain upright on a non-slip surface at a 15-degree incline without tipping over

141. Knap sack sprayers HD 550-20 LITRES

- **Tank Capacity**: 20 liters
- **Weight**:
  - Gross Weight: 4.98 kg
  - Liquid Weight: 4.32 kg
- **Pump Type**: Piston
- **Maximum Pressure**: 58 psi (4 bar)
- **Hose Length**: 1650 mm
- **Length of Launch**: 600 mm
- **Opening Diameter**: 105 mm
- **Material**: Polypropylene (UV-resistant)
- **Chamber Volume**: 900 ml
- **Dimensions**: Length - 190 mm, Width - 402 mm
- **Color**: white or blue
- **Should have** Adjustable Spray Nozzle padded shoulder straps and contoured back panel

142. Drainage Pipes

- **Dimensions and Sizes:**
  - Nominal Diameter (DN): DN 110 mm to DN 1000 mm (4" to 40")
- **Length:** 4 meters or 6 meters
- **Material Composition**:
  - High-quality PVC resin, often combined with stabilizers, lubricants, fillers, and color enhancers to enhance physical and chemical properties

- **Pressure Ratings:**
    - pressure classes including 4 bar, 6 bar, 9 bar, 12 bar, 16 bar, and 20 bar
- **Color Options:**
    - green for drainage applications; other colors like black, blue, or gray
- **Certifications:**
    - Compliance with international standards such as ISO 4435, ISO 4427, AS/NZS 4130, and BS EN 12201.
    - Certifications include CE Certification, ISO9001, ISO14001, and OHSAS 18001

143. Pyranometer sensor SR 100-D1

- **Measurement Range;** Solar radiation intensity (W/m^2)
- **Spectral Range**: 200 to 50,000 nm
- **Temperature Range:** Operating temperatures -40°C to +80°C
- **Weight and Dimensions:** 930 g dimensions 150 x 95 mm
- **Cable Length:** 10 m, facilitating installation in various setups
- **Compliance:**
    - IEC 61724-1:2021 for PV monitoring systems
    - ISO 9060:2018 classification as a spectrally flat Class B pyranometer

144. Drainage Fitments

- **Standard Elbows:** Fixed angles (90°, 45°, 180°), material Stainless Steel:
- **Multi-Port Drain Adapter:**
- **Material:** White PVC, 100% lead-free.
- **Inputs**: Options for 2, 4, or 8 ports, each with 1/2" female NPT threads.
- **Dimensions:** Diameter of 4 inches (10.16 cm) and height of 4 inches (10.16 cm).
- **Weight:** 7.6 oz (215.5 g).
- **Closed Nipples**:
    - No unthreaded area; both ends are fully threaded.
    - Used when two female fittings need to be connected tightly.
    - Commonly ordered by diameter and specified as "close" (e.g., 1/2" x close)
- **Open Nipples:**
    - Features male and female ends for connection.
    - Allows fluid flow without valves, facilitating easy installation
- **Weld Nipples:**
    - Lacks threads; connects via welding.
    - Suitable for high-pressure and vibration environments due to enhanced structural integrity
    - PVC Tees comply with relevant standards such as BS1329 and BS1401
    - multiple sizes ranging from small (e.g., 50mm) to large (up to 60 inches) diameters. Specific sizes include common dimensions like 200mm, 220mm, and 225mm for drainage applications
- -PVC Cross
- -PVC Union
- -Coupling

145. Quantum sensor SQ-205X

- **Voltage Output Range**: 0-5 V
- **Calibration Factor**: 0.8 µmol m−2−2 s−1−1 per mV
- **Power Supply**: 5-24 VDC
- **Sensitivity SQ-205X**: 1.25 mV per µmol m−2−2 s−1−1
- **Calibration Uncertainty**: ±5%
- **Measurement Repeatability**: <1%
- **Electromagnetic Compatibility (EMC)**: BS EN 61326-1:2013
- **Restriction of Hazardous Substances (RoHS):** EU directives including 2002/95/EC and 2011/65/EU

146. Polarimeter POL-568

- **Key Specifications**

- **Measurement Range:**
  - Optical Rotation: ±90°
  - Sugar Degree: ±259° Z
- **Minimum Reading:**
  - 0.0001° for optical rotation
- **Accuracy:**
  - ±0.003° for optical rotation
  - ±0.004° for sugar degree
- **Repeatability:**
  - ≤0.002°
- **Light Source:**
  - High-brightness LED with a lifespan of up to 10,000 hours
- **Working Wavelength:**
  - 589.44 nm (Sodium D Spectrum)
- **Response Speed:**
  - 8°/s
- **Measurement Time:**
  - Approximately 26 seconds for six measurements
- **Temperature Control**
  - Built-in Temperature Control: Yes
  - Temperature Control Mode: Peltier
  - Temperature Control Range: 10°C to 50°C
  - Temperature Control Accuracy: ±0.2°C
- **Display and Interface**
  - Display Type:
  - 8-inch color dot matrix touch LCD
- **Operation System:**
  - Windows
- **Data Storage Capacity:**
  - 16 GB database
- **Communication Interfaces:**
  - USB, Ethernet, optional wireless card for internet access

147. Flame Photometer – FP910

- **Model:** FP910
- **Type:** Digital Flame Photometer
- **Control System:** Microprocessor controlled
- **Display:** 7-inch embedded color touch screen with graphical output for calibration and results
- **Dimensions:** 285 mm (L) x 255 mm (W) x 210 mm (H)
- **Weight:** 7.5 kg
- **Performance Features**
  - **Reproducibility:** Less than 1% coefficient of variation for consecutive samples.
  - **Calibration:** Capable of storing multiple calibration curves with user-defined standards.
  - **Flame System**: Operates on LPG with a dry oil-free air supply.
  - **Ignition System:** Automatic ignition with flame failure detection.
- **Connectivity and Output**
  - **Data Output**: RS-232C for external devices; can connect to printers via Centronics parallel interface.
  - **Software**: In-built software for data management and analysis.
- **Safety and Maintenance Features**
  - **Gas Control**: Adjustable knobs for precise control of gas flow.
  - **Safety Features:** Automatic gas cutoff, audible alarms, and modular gas supply system

148. Micropippettes eppendorff research plus

- **Multi-Channel Pipettes**
- **Ergonomic Design**: The pipettes are ultra-lightweight and designed to minimize hand strain, featuring a spring-loaded tip cone that reduces the force needed to attach tips, thereby lowering the risk of repetitive strain injuries
- fully autoclavable at 121 °C
- **Material Composition**: Made from Forton®, an organic polymer resistant to heat, chemicals, and abrasion
- **Volume Range**: 0.1 µL to 10 m

- **Tip Ejection Force** 3.6 N
- **Weight** 80 g
- **Display** Easy-to-read four-digit magnifying display

149. Eppendorff Micropippettes tips

- **Volume Range** 2-200 µl
- **Material:** High-quality polypropylene (PP) with good transparency.
- **Autoclavable:** Meet PCR clean standards, being free from RNase/DNase contamination

150. Suction machine lifecare

- **Capacity:** ~710 Mmhg + 10 At 32-35 Lpm
- **Model Name/Number**. Lifecare Suction Machine.
- **Capacity.** ~710 mmHg + 10 at 32-35 LPM.
- **Number Of Wheels**. Four.
- **Noise.** <50 dB A + 3 Almost Wishpers.
- **Vacuum Gauge.** 2.0 inch, 0-760 mmHg.
- **Power.** 220/230 V AC ,50 Hz, 1Ph.

151. Anatomy Full body mannequin (dual sex)

- **Dual Sex Anatomy:** Must include both male and female anatomical features
- **Dimensions and Weight:** 90 cm in height with a weight of approximately 15 kg, which is manageable for educational settings
- **Removable Parts:**
  - A minimum of 33 removable parts including; -
  - Head (2-part)
  - Brain (half)
  - Muscles (e.g., deltoid, biceps brachii)
  - Internal organs (e.g., lungs, heart, liver, kidneys)
  - Genital inserts (3-part female and 4-part male) for reproductive anatomy education

152. Skeletal system anatomy poster

- **Size:** 59.4 x 84.1 cm
- **Features:** Colorful anatomical poster detailing all the parts of the human skeleton.
  - 125 micron laminated and is printed on premium glossy (200 g) UV resistant paper with 2 sided lamination (75 micron). Able to be written on and wiped off with non-permanent markers.
- **Detailed illustrations to include:**
  - Anterior and posterior views of the skeleton.
  - Lateral views of the spinal column and skull.
  - Specific details of joints (e.g., knee joint, hand and foot ligaments)
  - Additional illustrations may focus on components like auditory ossicles and vertebrae

153. Human body analyzer

- **Model:** MC-780 MA
- **Type:** Multi-frequency Segmental Body Composition Analyzer
- **Maximum Weight Capacity**: 270 kg
- **Graduation**: 0.1 kg
- **Dimensions:** 360 mm x 360 mm x 1165 mm
- **Weight:** 15.5 kg
- **Power Supply**: AC 100 - 240V
- **Operating System Compatibility**: Windows® OS
- **Warranty:** 5 years
- **Technical Features**
  - Electrodes: 8 electrodes for accurate readings.
  - Testing Time: Approximately 20 seconds for a complete analysis.
- **Connectivity Options:**
  - RS 232C, USB, SD Card for data output.
  - Compatible with Pictrbridge printers for detailed assessment sheets.
- **Data Storage**: Built-in SD card facility allows automatic data collection and downloading.

- **User Interface**: Dual display for easy reading of results; the screen should be rotatable for privacy during measurements.
- **Color**: Dark Grey

154. laboratory Flame photometer (FP8500)

- **Precision:**
  - Standard Precision: ±0.2% at specified concentrations.
  - Maximum Drift: ±1% over a period of 60 minutes.
- **Sample Volume:**2.5 ml.
- **Display and Interface:**
  - Should be Equipped with an 8.4-inch TFT touchscreen display (800x600 pixels) for easy operation.
  - Multiple connectivity options to include:
  - 2 x USB
  - 1 x Ethernet
  - 1 x RS-232 printer
  - Dimensions; Width: 47 cm; Height: 49 cm; Depth: 44 cm

155. Digital butryo refractometer

- **Model**: Atago PR-Butyro Digital Butyro Refractometer (Model 3454)
- **Precision:**
  - Resolution: 0.1 for Butyro, 0.0001 for RI.
  - Accuracy: ±0.5 for Butyro, ±0.0003 for RI (at 40°C).
- **Automatic Temperature Compensation (ATC):**
  - temperature range of 10°C to 50°C
- **Durability:**
  - IP64-rated: Dust-tight and splash-proof, suitable for industrial environments.
  - Dimensions: 17 cm x 9 cm x 4 cm
  - Weight: 300 g Power Supply: 006P dry battery (9V)
- **Screen Features:**
  - Display Type: LCD screen
  - Readability: Large font for easy visibility
  - Measurement Display: Simultaneously shows both Butyro and RI values
  - External Light Interference Function: to alert users when intense light may affect measurement accuracy.

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.]*

No	Equipment	UNITY OF ISSUE	Qty	UNIT PRICE Kshs inclusive of all taxes	TOTAL PRICE	Delivery period
1.	Ergonomic office Chair Orthopaedic high back Chair nylon 5 star base fixed arms, black mesh back and black	pcs	1			
2.	Water dispenser Hot and Normal with storage RM/417	NO	1			
3.	Hospital Cellular Blankets 4*6 (Blue in colour) cotton	NO	10			
4.	Cellulose pillow cases 20 by 26 inches (51X56 cm)	Pairs	18			
5.	Draw mackintosh 130 x 200 green rubber	pcs	4			
6.	Bed covers Blue 4 by 6	pcs	4			
7.	Draw sheets T-180 white	pcs	10			
8.	Examination couch Couch height 610-810mm, Couch width 630mm, Couch Length 1850mm.	pcs	1			
9.	Patient locker Hospital bedside locker with table top 500 mm X530 mm X753 mm	pcs	4			
10.	Drip stand standard stainless steel	pcs	4			
11.	Ward linen Trolley With dirty linen carrier	pcs	2			
12.	Pedal bin 20L biohazard pedal bins	Red, black, yellow	3			
13.	Over bedside feeding table invacare 6418 with adjustable height	pcs	1			
14.	Ward Screen Movable, 4 fold	pcs	1			
15.	Examination light Movable LED	pcs	2			
16.	Medicine trolley PVC drug trolley with compartments	pcs	1			
17.	Medicine trolley Stainess steel with atleast 2 shelves	pcs	1			
18.	Stethoscope Original litman Classic II	pcs	2			

19.	Suction machine Folee double bottle	pcs	1			
20.	Diagnostic set Otoscope practioner fibre optic set	pcs	1			
21.	Diagnostic set Laryngoscope 5 blades set	pcs	1			
22.	Ophthalmoscope Complete set with spare lamp with color coded range of lenses from -20D to 40D	pcs	1			
23.	Ambubags Paediatric	pcs	1			
24.	Ambubags Adult manual rescusitator with mask	pcs	1			
25.	Mercury Clinical Thermometer model JDMS-72	pcs	6			
26.	Non Contact Forehead Gun, Medical Digital Thermometer for Fever, Clinical Detecting Body Temperature in Infants, Children and Adults	pcs	2			
27.	Wheelchair Adorned Foldable Standard	pcs	1			
28.	Walking cane mediline aluminium offset	pcs	1			
29.	Walker stainless steel folding walker 3.5 inches D X 18 inches W x 3.5 H	pcs	1			
30.	Elbow Crutches Closed Cuff LK933L. 97*54*52cm aluminimum	pcs	2			
31.	IS IndoSurgicals Seamless Stainless Steel Unisex Adult Bed Pan with Lid	pcs	2			
32.	Carex Health Brands Fracture Bed Pan	pcs	2			
33.	Fractured Bed Pad with covers	pcs	4			
34.	Urinal Bottle Male Urinals Portable Urine Bottle with Screw Lid 1200 ml Plastic Pee Bottles for Men	pcs	2			

No	Equipment	UNITY OF ISSUE	Qty	UNIT PRICE Kshs inclusive of all taxes	TOTAL PRICE	Delivery period
35.	Spill-Proof Fracture Urinal from PrimeMed - Gold - High Volume Non-Stick Bedpans	pcs	2			
36.	Classic Turkish Cotton Soft 600 GSM White Luxury Bath Towel Set of 4-27" X 54	pcs	4			
37.	White Cotton Washcloth towel - 18 Count	pcs	4			
38.	Hospital gowns unisex patient gowns	pcs	6			
39.	Theatre gowns -(small, medium and large) round nech 3RD flap long sleeve	pcs	3			
40.	Plastic buckets, white,10 litres	pcs	3			
41.	Height and Weight Scale Electronic Weight Scale Home Precision Adult Health Scale	pcs	1			
42.	K-life Digital Baby Weighing Scale for Infant Toddler With Weight Upto 20kg	pcs	1			
43.	Oxygen cylinder medical oxygen cylinder with gas and key 8.5 m3	pcs	1			
44.	Oxygen delivery set flow meter with a regulator and a humidifier	pcs	1			
45.	Wash basins 10 L	pcs	3			
46.	Extension Cable APC Surge Arrest Surge Protector 5 outlets 230V	pcs	3			
47.	Langenback Retractor (1" blade width) stainless steel	pcs	1			
48.	Morisson Retractor (2" blade width) stainless steel	pcs	1			
49.	Doyen Retractor (3" blade width) stainless steel	pcs	1			
50.	Malleable Retractor (1" blade width) stainless steel	Pcs	1			

No	Equipment	UNITY OF ISSUE	Qty	UNIT PRICE Kshs inclusive of all taxes	TOTAL PRICE	Delivery period
51.	Sims Speculum small(27mm*29mm)	NO	1			
52.	Cusco speculum large	pcs	2			
53.	Cusco speculum medium	pcs	2			
54.	Needle Holder 7" Sims	pcs	4			
55.	Artery Forceps Straight 8"	pcs	6			
56.	Artery Forceps Curved 8"	pcs	3			
57.	Mosquito artery forceps straight	pcs	6			
58.	Toothed Dissecting Forceps 6”	pcs	6			
59.	Dressing Forceps 5”	pcs	4			
60.	Sponge holding forceps 7”	pcs	2			
61.	Trochars 1 per procedure	pcs	5			
62.	Surgical Theatre Gown with sleeves and cuffs Cotton (Medium size), Green in colour, Reusable	Pcs	8			
63.	Insect mounting pins 2 inchs	Pcs	100			
64.	Mayo Trolley with tray Stainless steel	Pcs	2			
65.	Mayo Stand Cover(76*145cm) Disposable	Pcs	50			

No	Equipment	UNITY OF ISSUE	Qty	UNIT PRICE Kshs inclusive of all taxes	TOTAL PRICE	Delivery period
66.	Surgical Green Towels (16"*26") Cotton material	NO	12			
67.	Surgical Green Towels (16"*26") Cotton material with a hole in the middle	pcs	8			
68.	Dual Head Training stethescope Littmann Teaching stethecsope with diaphgram and bell	NO	6			
69.	Intramuscular Injection Simulator with audio feedback Upper arm manikin (black in colour)	NO	10			
70.	Intramuscular Injection Simulator with audio feedback Gluteus Muscle (black in colour)	NO	10			
71.	Box files office point with lever arch size 280mm *350mm	NO	15			
72.	Electric Hospital bed with mattress Model YA-D5-3 Multi Function 5 Position Medical Electric Bed	NO	1			
73.	White Cotton bedsheets 4*6 with pillow cases	pairs	10			
74.	Aneroid Sphygnomanometer Manual blood pressure machine without mercury	NO	6			
75.	Fingertip Pulse Oximeter Battery use	NO	9			
76.	Kidney Dishes Stainless steel 8"	NO	8			
77.	Kidney Dishes Stainless steel 10"		8			
78.	Gallipots stainless steel with lid 10 oz (without lid 4 oz)	Pcs	8			
79.	Trays Stainless steel medium	pcs	5			
80.	Trays Stainless steel large	pcs	5			
81.	Bowls 8" Stainless steel	pcs	3			

No	Equipment	UNITY OF ISSUE	Qty	UNIT PRICE Kshs inclusive of all taxes	TOTAL PRICE	Delivery period
82.	Phlebotomy/Intravenous Infusion Practice Kit Venipuncture Nurse Training Blood Drawing Arm Model Kit IV Training Injection Arm Manikin(black in colour	NO	10			
83.	Instrument Trolley Strong stainless steel with two shelves and wheels	NO	4			
84.	Ampoule cutter file Stainless steel	NO	10			
85.	Hospital beds with mattress 3 cranks manual(complete with three pieces mechanical ABS cranks, four wheels and braking pedals, guard rails)	NO	4			
86.	Pillows Medium sized covered with makintosh	pcs	9			
87.	Baby cot MDF with cot bumper and matress	pcs	1			
88.	CPR trainer; Adult Half body cross section to the 6th rib CPR model, size 63x25x44cm, 8kgs, The crosssection is color painted to show different organs clearly and vivid. The full shape of the heart and lung showing the various movements on demonstration	Pcs	1			
89.	CPR trainer Infant; Advanced infant CPR and nursing manniquin designed according to infant anatomical structure, imported material, flexible joints, soft skin, realistic and vivid, size 64x20x34cm, 8kgs	Pcs	1			
90.	CPR trainer Child; Advanced hemibody rescusitation model, size 74*26*36cm	Pcs	1			
91.	AED Trainer; Mini AED trainer Model No: D0009. DC3.0V (2*AAA Battery) Power supply: Size: 100*80*18mm, Shutdown Current:<20 uA Max and Maximum Operating Current: <350 uA Max	NO	1			
92.	Hand paper towel dispenser Wall mounted	NO	1			
93.	Tablet cutter plastic with stainless blade	NO	5			
94.	Tea spoons(10) Stainless steel	NO	10			
95.	Saucers(10) Stainless steel	NO	10			

No	Equipment	UNITY OF ISSUE	Qty	UNIT PRICE Kshs inclusive of all taxes	TOTAL PRICE	Delivery period
96.	Water tumblers Stainless steel	NO	10			
97	Multi wound suture training block Suture practice model size 17.3cm*12.2cm*1.2cm	NO	10			
98.	Episiotomy suturing Simulators a set of 3	sets	5			
99.	Vaccine IM Injection Trainer Wearable design with an anti-piercing plate to prevent needle piercing through (a pack of 10)	Pack	1			
100	Injection training arm: skin and vein replacement kit black in colour	pcs	10			
101	NOELLE S550 Maternal Care Patient Simulator with OMNI. Obstetric Manikin ()phantom with fetus & placenta	NO	1			
102	Gaumard NOELLE S574 patient simulator General Nursing Manikin (SU SIE dark skin tone High fidelity)	Pcs	1			
103	Gaumard NOELLE S574 patient simulator General Nursing Manikin (Medium fidelity)	Pcs	2			
104	Manikin for cervical dilatation & effacement	Pcs	1			
105	Obstetric manikin (PROMPT FLEX Birthing Simulator standard dark skin tone)	Pcs	1			
106	Baby for nurse training	Pcs	1			
107	Neonatal rescusitation model (Newborn PEDI dark skin tone)	Pcs	1			
108	ZOE Gynaecological skills trainer (dark skin tone)	Pcs	1			

No	Equipment	UNITY OF ISSUE	Qty	UNIT PRICE Kshs inclusive of all taxes	TOTAL PRICE	Delivery period
109	Breast model (Breast Examination Trainer- Advanced dark skin tone)	Pcs	1			
110	Implant model (RITA- Reproductive Implant Training Arm Dark skin tone)	Pcs	1			
111	Penile Model	Pcs	1			
112	Bony pelvis model MVA	Pcs	1			
113	Female condom model FC2	Boxes	1			
114	Perineal repair model AR312 Episiotomy suturing	pcs	1			
115	UV Vis Spectrophotometer DR 6000	No	1			
116	Solvent filtration unit 1000 ml	No	10			
117	Digital colony counter 220V, 50 Hz	No	1			
118	Viscometer 110-240V 1-100,000mPa.s	No	2			
119	Auto titrator 0.1-200ML	No	3			
120	High perfomance liquid chromatograph system machine ZT-HPLC-3A	No	1			
121	Tintometer BCM-110	No	2			
122	Dissolved Carbon dioxide meter CarboQC At-line	No	2			
123	Portable Dissolved Oxygen Meter OxyQC standard	No	2			

No	Equipment	UNITY OF ISSUE	Qty	UNIT PRICE Kshs inclusive of all taxes	TOTAL PRICE	Delivery period
124	Water test photometers MD600	No	10			
125	Water test strips	Boxes	5			
126	Laboratory Incubator IN-Z18/IN-Z30	No	2			
127	Micro-titration equipment 50 mLSKU: 9582050	No	3			
128	Electric Stirrer 40L homogenizer 100-2000rpm	No	3			
129	Water bath S94210	No	2			
130	Water distiller DS 4000	No	2			
131	Sound level meter/Decibel meter PCE-MSL 1	No	5			
132	Noise Dosimeter GM1357	No	5			
133	Bunsen Burner CH0086HD	No	10			
134	Tripods 12 inches tall	No	10			
135	Hot Plate Stuart UC 150	No	3			
136	Ice Time cool box 6L	no	3			
137	Freezer L2X-3-FM	No	2			
138	Photometric sensor UDT model 211	No	1			

No	Equipment	UNITY OF ISSUE	Qty	UNIT PRICE (Ksh)	TOTAL PRICE	Delivery period
139	Safety boxes	No	5			
140	Knap sack sprayers HD 550-20 LITRES	No	20			
141	Drainage pipes - assorted	No	100			
142	Pyranometer sensor SR 100-D1	No	1			
143	Drainage fitments - assorted	No	100			
144	Quantum sensor QSPAR	No	1			
145	Polarimeter POL-568	No	1			
146	Flame photometer FP910	No	1			
147	Micropippettes eppendorff research plus	No	6			
148	Eppendorff Micropippettes tips	Pkt	3			
149	Suction machine lifecare01	No	2			
150	Anatomy Full body mannequin (dual sex) 816M102	No	2			
151	Skeletal system anatomy poster 17.3 X 22.5 inches	No	4			
152	Human body analyser BCA100	no	1			
153	laboratory Flame photometer BLFP-501	No	1			
154	Digital butryo refractometer J157HA	No	1			
	TOTAL TENDER PRICE (inclusive of all taxes,overhead costs and Capacity Building Levy)					

Note: All prices quoted should be inclusive of Capacity Building Levy (0.03%), applicable taxes and any overhead costs.

Signature:_____

And seal/Stamp

Name:_____

Position:

Authorized for and on behalf of (*specify name of tenderer*) _____

Date

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.]*

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 item 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*]

Price and Completion Schedule - Related Services

Currencies in accordance with ITT 15					Date: _____ ITT No: _____ Alternative No: _____ Page N° _____ 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*]

FORM OF TENDER SECURITY-[Option 1–Demand Bank Guarantee]

Beneficiary:_____

Request forTenders No:

_____

Date:_____

TENDER GUARANTEE No.:_____

Guarantor: _____

1. We have been informed that_____(here inafter called "the Applicant") has submitted or will submit to the Beneficiary its Tender (here inafter 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 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).

SCHEDULE OF REQUIREMENTS

1. Ergonomic Office Chair

- **Chair Design & Structure:**
  - **Type: Ergonomic** Task Chair
  - **Frame: durable plastic** for strength and longevity.
  - **Seat Base**: 5-point base with casters (wheels) for mobility.
  - **Backrest:** Mid-back or high-back
  - **Seat Size**: 17–21 inches wide, with a depth of 16–20 inches
  - **Adjustable Features:**
    - **Height** (seat height, backrest height).
    - **Armrests** (height, width, and sometimes angle).
    - **Lumbar support** (height and depth).
    - **Seat depth** and tilt tension.
- **Seat and Backrest Features:**
  - **Seat Cushion:** High-density foam or memory foam
  - **Seat Material:** Upholstered with breathable fabrics: Mesh
  - **Backrest Support:** Contoured or adjustable lumbar
  - **Backrest Material:** padded upholstery
  - **Back Recline:** Adjustable recline angle (90–130 degrees) with tilt tension
  - **Headrest :** for neck support
- **Adjustability:**
  - **Seat Height Adjustment:** Gas lift mechanism for easy and smooth height adjustment.16 inches to 21 inches from the floor.
    - **Tilt Mechanism:** Tilt lock and tilt tension adjustment allow the chair to recline and return to an upright position, helping reduce strain on the spine.
    - **Seat Depth Adjustment:** Allows you to adjust the seat depth (distance from backrest to the front edge) to accommodate thigh length.
    - **Armrests: Adjustable armrests** (height, width, and angle), or pivoting armrests, to reduce strain on the shoulders and arms.
    - **Lumbar Support:** Adjustable lumbar support that can be moved up/down and in/out to support the natural curve of the spine.
    - **Backrest Recline/Lock:** Provides flexibility to recline or lock the backrest in a comfortable position.
- **Mobility and Stability:**
  - **Base Type: 5-point star base** made from metal for stability.
  - **Casters (Wheels):** High-quality casters for mobility, with options for hard floor or carpet **wheels**.
  - **Caster Material:** Soft polyurethane or nylon for quiet, smooth rolling.
  - **Weight Capacity:** 250–400 pounds.
- **Durability and Material Quality:**
  - **Frame Construction:** Reinforced steel or aluminium frame for long-term durability and support.
  - **Upholstery Material:** High-quality mesh

- **Armrest Material:** padded
- **Weight Capacity:** 250 lbs to 400 lbs,

- **Aesthetic and Design:**
  - **Color Options**: black and mesh fabric.

2. <u>Water dispenser Hot and Normal with storage</u>

General Features:
- **Type: Countertop or Floor-standing** water dispenser.
- **Water Dispensing Options:**
  - Hot Water (85°C to 95°C)
- **Storage Capacity:** 6 liters for each temperature setting.
- **Storage Tank Capacity:** 6 liters
- **Material:** stainless steel
- **Cooling Type:** an option for cold water hot and normal settings

Safety Features:
- **Child Safety Lock** to prevent accidental burns from hot water.
- **Overheat Protection** to prevent the unit from overheating.
- **Anti-Dry Heating Function** to ensure the device doesn't run dry.

Normal/Room Temperature Water Features:
- **Water Storage Tank:** Stores water at room temperature, ready for drinking.
- **Dispensing Mechanism:** manual or button-based dispenser
- **Water Tank Size: 6 liters**

Water Tank & Dispensing System:
- **Water Tank Capacity: 6L** for both hot and normal water
- **Refillable Reservoir:** allowing for easy refilling of the internal water tanks.

Power and Energy Efficiency:
- **Power Consumption:**
  - Hot Water: 500 to 1000 watts.
  - Normal Water: 50-150 watts
- **Power Supply: 110V or 220V**

Design & Size:
- **Design:** freestanding installation with digital controls or simple mechanical buttons.
- **Dimensions:** Floor-standing models:30 cm x 30 cm x 100 cm
- **Finish:** high-quality food-grade plastic

Dispensing Mechanism:
- **Button or Taps:** The dispenser may have push-button
- **Flow Rate:** 1-2 liters per minute

Additional Features:
- **LED Display or Indicator Lights:** LED indicators showing the status of the heating or cooling process.

3. <u>Hospital Cellular Blankets 4*6 (Blue in colour) cotton</u>

Material:
- **Fabric:** Usually made from 100% cotton, or a cotton-blend for softness and breathability.
- **Weave:** Cellular (or "waffle weave"), designed to create air pockets for better insulation and lightweight warmth.
- **Color:** Blue

Dimensions:
- **Size:** 4 feet by 6 feet (121 cm x 183 cm).

Weight:
- 500g to 900g.

Care Instructions:
- Machine washable (typically at 40°C or 60°C).

4. <u>Cellulose pillow cases 20 by 26 inches (51X56 cm)</u>

1. **Material Composition:**
   - **Fabric:** 100% **Cellulose-based fibers** (Rayon, Viscose, or a blend of cellulose materials).
2. **Dimensions:**
   - **Size:** Standard 20 inches x 26 inches (51 x 66 cm).
3. **Design & Features:**
   - **Closure Type: Envelope closure** or **overlap closure** to securely encase the pillow without zippers or buttons.
   - **Color Options:** Primarily blue

- **Texture:** Soft and smooth to the touch with no rough seams.
- **Finish:** Often with a **non-pilling** surface

Care Instructions:

- **Machine washable**
- **Wash temperature:** Can be washed at **up to 60°C** for disinfecting purposes, but check the manufacturer's specific instructions.
- **Drying: Tumble dry on low** or air dry; avoid high heat to maintain fabric integrity.

9.Certifications & Compliance:

- **Healthcare Standards:** Often compliant with hospital-grade textile regulations for comfort, safety, and hygiene.
- **Non-toxic Dyes:** Should meet **OEKO-TEX** certification (for non-toxic, safe materials), particularly for medical-grade materials.

5. Draw mackintosh 130 x 200 green rubber

1. Material Composition:

- **Fabric Base: polyester fabric** as the base material.
- **Coating: Rubberized coating** on one side
- **Color:** Green
- **Surface Texture:** Smooth, non-porous rubberized surface on one side, with soft fabric on the reverse side for comfort.

2. Dimensions:

- **Size: 130 x 200 cm** (approximately 51 x 79 inches),

3. Design & Features:

- **Edges:** Often **hemmed or sealed** to prevent fraying and enhance durability.
- **Foldable:** Flexible and easy to fold or roll for storage when not in use.

4. Care Instructions:

- **Cleaning:** Can be wiped down with a damp cloth for spot cleaning or machine washed

5 Bed covers Blue 4 by 6 feet

1. Material Composition:

- **Fabric:** a poly-cotton blend
- **Color:** Blue
- **Weight:** 200-250 gsm (grams per square meter)

2. Dimensions:

- **Size: 4 feet by 6 feet** (121 cm x 183 cm)
- **Shape:** Rectangular,

3. Care Instructions:

- **Machine Washable:** at temperatures between **40°C and 60°C**

5. Draw sheets T-180

1.Material Composition:

- **Fabric:** cotton-polyester blend.

2. Thread Count:

- **Thread Count: T-180**, which means the sheet has 180 threads woven in a square inch.

3. Dimensions:

- **Size: Full:** 54 x 75 inches (137 x 191 cm)

4. Design & Features:

- **Weave: Percale weave** (a simple, tight weave pattern) is common for T-180 sheets, giving them a smooth, crisp feel and a durable finish.
- **Color:** blue.
- **Edge Type:** hemmed edges

5. Care Instructions:

- **Washing Instructions:** Typically washed at 40°C to 60°C

6. Examination Couch

1. General Features:

- **Couch Dimensions:**
  - **Height: 610mm–810mm** adjustable
  - **Width: 630mm**
  - **Length: 1850mm**

2. Construction and Materials:

- **Frame Material:** Typically made of **powder-coated steel**, **stainless steel**, or **aluminium**
- **Upholstery Material:** High-quality **vinyl or faux leather** with a **foam padding**
- **Cushioning: High-density foam**
- **Stitching and Seams:** Double-stitched seams

3. **Adjustability and Mechanisms:**
   - **Height Adjustment:**
     - **Manual Adjustment: mechanical** height adjustment (using a hand lever or foot pedal).
   - **Range:** Adjustable height between **610mm to 810mm**
   - **Backrest Adjustment: adjustable backrest** that can be tilted to various angles
   - **Leg Rest Adjustment: leg section** can be elevated for
   - **Stability Mechanism:** The **base** of the couch should have **non-slip feet** or a **stable locking mechanism**
4. **Comfort Features:**
   - **Padding Thickness: 50–100mm** of high-density foam
   - **Ergonomic Design:** provides full-body support
   - **Armrests:** detachable or integrated **armrests**
5. **Safety and Stability:**
   - **Load Capacity:** Must support a range of **up to 250kg** (550 lbs)
   - **Non-slip Feet:** Rubberized feet or pads
   - **Locking Mechanisms: secure locking mechanisms**
6. **Mobility:**
   - **Fixed or Mobile: casters (wheels)** for easy mobility
   - **Wheel Locks: locking mechanisms**
7. **Design and Aesthetics:**
   - **Color Options: black**

9. **Patient locker Hospital bedside locker with table top**
   1. **Construction and Materials:**
      - **Frame Material: high-grade aluminium**
      - **Table Top: stainless steel**
      - **Cabinet/Body Material:** Powder-coated **steel** or **high-quality plastic**
      - **Finish:** The finish should be **smooth** and **non-porous**
   2. **Design and Dimensions:**
      - **Overall Dimensions:**
        - **Height:** Typically, between **75cm and 90cm** (29.5 to 35.4 inches)
        - **Width:** Around **40cm to 45cm** (15.7 to 17.7 inches)
      - **Depth:** Between **40cm to 50cm** (15.7 to 19.7 inches)
      - **Tabletop Size: 40cm x 40cm** (15.7 x 15.7 inches)
      - **Design:** The bedside locker should be designed with **rounded corners** or **protective edges**
   3. **Storage and Organizational Features:**
      - **Cabinet Compartments:**
        - **Two Doors:** A **lockable** cabinet with two doors
        - **Shelving:** Adjustable or fixed **shelves**
        - **Tabletop Surface:** A **flat, smooth surface**
   4. **Mobility and Stability:**
      - **Wheels/Casters: casters (wheels) lockable**
   5. **Safety Features:**
      - **Locking Mechanism: Lockable drawers** and **doors**
      - **Rounded Edges:** All corners and edges of the locker should be **smooth and rounded**
      - **Non-slip Base**
   6. **Aesthetic Considerations:**
      - **Design: light grey colour**

10 . Drip stand standard stainless steel

1. **Material**
   - **Stainless Steel Grade**: corrosion-resistant
   - **Finish**: Satin or mirror finish
2. **Dimensions**
   - **Height**: 1500 mm to 1800 mm (1.5 to 1.8 meters).
   - **Base Diameter/Width**: 400 mm to 500 mm
   - **Top Rod Length**: Adjustable, 300 mm to 450 mm.
   - **Weight**: 2 kg to 5 kg
3. **Construction**
   - **Base**: Heavy-duty with a round base

- **Vertical Rod**: Tubular stainless steel, with smooth edges and rust-resistant coating.
- **Adjustability**: Adjustable height mechanism with a locking screw or nut
- **Hooks/IV Pole**: hooks at the top for hanging IV bags, infusion pumps, or other medical equipment.

4. Load Capacity
   - able to handle a weight load of at least 5 kg to 10 kg
5. Wheels
   - **Caster Wheels,** 4 wheels (2 fixed and 2 swivel), with anti-slip properties.
6. Features
   - **Non-slip Base**:
   - **Portability**: Can be disassembled for easier transportation.

10. Ward linen Trolley With dirty linen carrier

2. Material
   - **Frame Material**: Stainless steel
   - **Linen Carrier Bag**: High-quality PVC-coated fabric, which is washable
   - **Wheels/Casters**: Heavy-duty, non-marking, and easy-to-move wheels made of rubber

2. Dimensions
   - **Overall Size (L x W x H)**:
     - Length: 1000 mm to 1200 mm.
     - Width:450 mm to 600 mm.
     - Height: 900 mm to 1200 mm.
   - **Linen Carrier Dimensions**:
     - Capacity: 50 to 100 liters
3. Construction
   - **Frame**: Tubular stainless steel construction with welded joints
   - **Linen Carrier**:
     - Fabric should be easy to remove
     - The carrier should be ventilated (if possible)
     - Secure attachment to the trolley frame
   - **Base**: Flat base
4. Capacity and Design
   - **Storage**: Multiple shelves or compartments
   - **Dirty Linen Carrier**:
     - Should have a large capacity to carry a significant amount of dirty linen.
     - Removable and washable carrier
5. Wheels/Casters
   - **Type**: Four or more swivel casters, preferably with locking mechanisms
   - **Size**: Diameter of 100 mm to 125 mm for easy manoeuvrability, especially in tight spaces.
   - **Material**: Rubber or polyurethane
6. Features
   - **Height Adjustment**: Adjustable height or fixed height
   - **Handle**: Ergonomic, sturdy handle preferably with a soft-grip or rubberized coating.
   - **Ventilation**: The dirty linen carrier may have ventilation holes or mesh inserts to allow airflow and reduce odor.
   - **Lid or Closure**: A lid or flap for the dirty linen compartment to maintain cleanliness and reduce contamination.
7. Load Capacity
   - The trolley weight capacity of at least 50-80 kg,
   - The linen carrier should be able to handle a full load of dirty linens
8. Finish
   - **Frame Finish**: electro-polished or powder-coated stainless steel.
   - **Linen Carrier**: fabric with waterproof or water-resistant properties.
   - **Removable Parts**: The linen carrier and other components should be removable
9. Safety and Stability
   - **Non-slip Base**: anti-slip feet or features
   - **Locking Mechanisms**: locking features for both the wheels and the linen carrier

11. Pedal bin 20L biohazard pedal bins

2. Material
   - Bin Material:
     - High-density polyethylene (HDPE) or polypropylene (PP)
     - stainless steel components for the pedal mechanism.

- **Lid Material**: Same material as the bin, with a tightly fitting design

2. **Capacity**
   - **Volume**: 20 liters
   - **Dimensions**:
     - Height: Approx. 500 mm to 600 mm.
     - Width/Depth: Approx. 300 mm to 350 mm.
3. **Biohazard Symbol**
   - Clearly marked with the **Biohazard Symbol** (in yellow or orange)
   - The symbol should be highly visible and easily recognizable.
4. **Design and Features**
   - **Pedal Mechanism**:
     - Foot-operated pedal for hands-free operation
   - **Lid Design**:
     - **Soft-closing lid**
     - Lid should close securely
   - **Removable Inner Bucket**:
     - A removable inner bucket
     - a separate plastic liner or a full internal bucket.
     - The inner bucket should fit snugly within the outer casing
5. **Safety Features**
   - **Lockable Lid** : a lid that can be locked or sealed tightly .
   - **Odor Control**:
     - The lid should have a **seal or gasket**
     - **Smooth, Rounded Edges**:
6. **Waste Compatibility**
   - **Leak-proof**: The bin should be leak-proof to prevent any liquid waste from spilling.
7. **Color**
   - **Color: yellow, red and black** with black or printed biohazard markings with yellow, red and black liners
8. **Wheels**
   - **Casters** : wheels for easier mobility
   - **Lockable Wheels:** To ensure stability when the bin is stationary.
9. **Weight**
   - The weight of the bin (empty) is between 2 to 3 kg

12. <u>Over bedside feeding table invacare 6418 with adjustable height</u>

9. **Adjustable Height Range**:
   - **Height Range**: 28" to 41" (71 cm to 104 cm)
10. **Tabletop Dimensions**:
   - **Length**: 30" (76 cm)
   - **Width**: 15" (38 cm)
11. **Tabletop Surface**:
   - **Material**: Laminated
   - **Tilting Mechanism**: tilting table surface that adjusts to an ergonomic angle.
12. **Frame Material**:
   - **Frame**: Powder-coated steel frame
   - **Legs**: Tubular steel construction
13. **Mobility**:
   - **Caster Wheels**: Four swivel casters (two with brakes)
   - **Wheel Diameter**: 2" (5 cm) or 3" (7.6 cm)
14. **Weight Capacity**:
   - **Weight Capacity**: lbs (18 kg)
15. **Safety and Stability Features**:
   - **Locking Mechanism**
   - **Non-Slip Surface**
16. **Color**:beige or wood laminate finishes

13. <u>Ward Screen Movable, 4-fold</u>

1. **Dimensions:**
   - **Overall Height**: Typically **6 feet (180 cm)** or **72 inches**
   - **Panel Dimensions**: Each panel **24" to 30" (61 cm to 76 cm)**
   - **Folded Width**: When fully folded, the width **10" to 12" (25 cm to 30 cm)**

2. Frame Material:
   - Frame Material: stainless steel
   - Color: Frame colors silver
   - Corner Supports: Reinforced corners
3. Panel Material:
   - Material: The panels made of PVC-coated fabric, or polyester
   - Colors: green
   - Transparent/Non-transparent Panels
4. Mobility:
   - Wheels/Casters: Four high-quality casters, often 2-inch (5 cm) or 3-inch (7.6 cm) diameter, for easy mobility.
   - Caster Type: Two locking casters
   - Wheel Material: Rubber
5. Foldability:
   - Easy Folding Mechanism: easily fold and unfold to adjust to the required position.
   - Storage: Compact folding design for easy storage when not in use.
6. Weight:
   - Weight: Approximately 10 to 15 kg (depending on materials and size)

14. Examination light Movable LED

1. Light Source:
   - Type: LED (Light Emitting Diode).
   - Color Temperature: Typically 4500K to 5000K (neutral white) for optimal visibility, mimicking natural daylight.
   - Light Intensity: Adjustable light intensity ranging from 30,000 to 80,000 lux at a distance of 1 meter, ensuring proper illumination for detailed examination.
   - CRI (Color Rendering Index): ≥95 for accurate color rendering, ensuring the patient's skin tone and other key details are visible under the light.
2. Design and Structure:
   - Movable/Adjustable Arm: The light should have adjustable arms (with at least 3-5 joints) that allow for flexible positioning and easy movement of the light source.
   - Material: The frame is generally made of high-quality stainless steel for strength, durability, and resistance to corrosion.
   - Base Type: Typically mounted on a stable wheeled base for easy mobility.
   - Stand Type: Floor-standing
3. Light Head:
   - Shape: Round,
   - Diameter of Light Head: 10 cm to 20 cm (4" to 8") for a focused examination area.
   - Anti-glare Lens: Equipped with a diffuser lens or anti-glare technology to ensure uniform lighting without discomfort or shadowing.
4. Power Supply:
   - Voltage: 100V to 240V AC, with a standard plug compatible with local electrical outlets.
   - Power Consumption: consumes 30-60 watts.
5. Adjustability and Flexibility:
   - Height Adjustment: adjustable height range, allowing positioning from approximately 1.5 meters (59 inches) to 2 meters (78 inches)
   - Angle Adjustment: The light head should be capable of 360-degree rotation and tilt to direct the light where it is needed.
   - Swivel Arm: Flexible arm design to manoeuvre the light to various angles without affecting its position.
5. Cooling and Durability:
   - Heat Dissipation: Efficient heat management system (heat sinks or ventilation) to prevent the LED light from overheating, allowing long hours of continuous use without degradation of performance.
6. Control Features:
   - Touch Control Panel: digital touch panel or remote control to adjust light intensity and color temperature.
   - Memory Function: Ability to save preferred settings for future use.
7. Weight and Dimensions:
   - Weight: 5 to 15 kg
   - Dimensions: the light's head and arm range from 60 cm to 150 cm in length, with the lighthead around 10 cm to 20 cm in diameter.

15. Medicine trolley PVC drug trolley with compartments

9. **Frame Material**: PVC or ABS plastic with corrosion-resistant finish.
10. **Dimensions**: 75 cm (L) x 45 cm (W) x 95 cm (H).
11. **Compartments**: 3 lockable drawers, 2 open shelves, removable dividers.
12. **Casters**: 4 swivel casters, 2 with brakes.
13. **Locking Mechanism**: Centralized locking system with individual drawer locks.
14. **Weight**: Approx. 12 kg.
15. **Color**: White with beige trim.
16. **Cleaning**: Easy to clean with non-porous surface.

16. Medicine trolley Stainless steel with atleast 2 shelves

11. **Material**: High-quality stainless steel (Grade 304) with polished or satin finish.
12. **Dimensions**:
    - Overall: 80 cm (L) x 45 cm (W) x 90 cm (H)
    - Shelves: 70 cm (L) x 40 cm (W) per shelf
13. **Shelves**: 2 shelves with raised edges for secure storage.
14. **Casters**: Four 3-inch swivel casters, two with locking brakes.
15. **Handle**: Ergonomic stainless steel push handle.
16. **Weight**: Approx. 12-15 kg.
17. **Load Capacity**: 50-80 kg.
18. **Safety Features**: Rounded corners, non-slip feet, and a sturdy design to prevent tipping.
19. **Cleaning**: Easy-to-clean surface, with antibacterial finish.
20. **Warranty**: 1-2 year warranty on the frame and casters

17. Stethoscope Original litman Classic II

Product Name:Littmann Classic II Stethoscope (Original)
Manufacturer:3M™ Littmann®)
Chestpiece:

10. **Type**: Dual-Sided (Large Diaphragm and Small Bell)
11. **Material**: Stainless steel
12. **Size of Diaphragm**:
    - Large: 4.3 cm (1.7 inches)
    - Small Bell: 3.3 cm (1.3 inches) (for pediatric use)
13. **Diaphragm Technology**: Tunable (allows for high and low-frequency sounds with the same diaphragm)
14. **Finish**: Polished stainless steel or matte black, depending on the model
15. **Tubing:**
    - **Material**: Latex-Free, PVC (Polyvinyl Chloride), flexible and durable
    - **Length**: 27 inches (69 cm) (Standard, but may vary depending on the region or custom request)
    - **Color**: black
16. **Eartips:**
    - **Material**: Soft-sealing, silicone
    - **Size**: Includes small and large eartips (interchangeable)
    - **Ear Tube Design**: Ergonomically designed for comfort and acoustic sealing
17. **Acoustic Performance:**
    - **Sensitivity**: High acoustic sensitivity to detect a wide range of heart, lung, and body sounds.
    - **Diaphragm Pressure Adjustment**: Allows for listening to both low- and high-frequency sounds by adjusting pressure on the chestpiece.
    - **Sound Transmission**: Clear and crisp sound quality, even in noisy environments.

      Weight:
    - **Stethoscope Weight**: Approximately 150–170 grams (5.3–6 ounces)
    - **Chestpiece Weight**: Light enough for prolonged use
18. **Warranty:**
    - **Warranty Duration**: 1 year (Manufacturer's warranty covering defects in materials and workmanship)

10. **Certifications and Compliance:**
    - **Latex-Free**: Suitable for latex-sensitive users
    - **Non-Sterile**: To be used in accordance with medical guidelines

18. Suction machine Folee double bottle

Product Name:Folee Double Bottle Suction Machine

Manufacturer:Folee (or equivalent)
Model Number:

12. **Model**: Folee FM-2000 or FM-3000 (specify model based on requirement)
    - **Power Supply:**
13. **Power Input**: 220-240V AC, 50/60Hz
14. **Power Consumption**: 50W – 100W depending on the model
    - **Vacuum Pressure:**
15. **Vacuum Range**: 0 to -80 kPa or 0 to -600mmHg (adjustable)
16. **Vacuum Regulation**: Adjustable vacuum control with a manual dial for precise pressure control
17. **Flow Rate**: 20 – 30 liters per minute (L/min)
    - **Collection Bottles:**
18. **Number of Bottles**: 2 (dual-bottle design)
19. **Material**: Medical-grade, transparent **polycarbonate** or **plastic** for clear visibility of collected fluids
20. **Capacity per Bottle**: 1.5 to 2 liters (each bottle)
21. **Overflow Protection**: Integrated overflow valve or anti-backflow system to prevent fluid backflow into the machine
22. **Motor and Performance:**
    - **Motor Type**: Oil-free piston motor or diaphragm motor (based on model)
    - **Motor Speed**: 2000 – 3000 RPM (approximate)
    - **Noise Level**: Typically 50 to 60 dB(A), designed for quiet operation in medical environments
    - **Continuous Operation**: Can function for extended periods without overheating

12. **Dimensions and Weight:**
    - **Dimensions**: (L x W x H) approx. 35 x 20 x 30 cm (may vary by model)
    - **Weight**: 5-8 kg (approx.)

13. **Safety Features:**
    - **Overflow Protection**: Prevents backflow of fluid into the machine.
    - **Automatic Shut-Off**: May include an automatic shutdown function if the bottle fills completely.
    - **Anti-Vibration**: Designed to minimize vibrations during operation for smooth suction.
    - **Filter**: Built-in bacterial filter for suction system protection (or disposable filters as applicable)

14. **User Interface and Controls:**
    - **Vacuum Control**: Easy-to-use adjustable knob or pressure dial
    - **On/Off Switch**: Standard power switch with LED indicator for operational status
    - **Suction Gauge**: Visual gauge to monitor suction pressure levels
    - **Alarm Indicators**: Audible or visual alarm for overfilled bottles, blocked tubes, or operational malfunction (depending on model)

15. **Accessories:**
    - **Suction Tubing**: Medical-grade PVC tubing, approximately 2 meters in length
    - **Suction Catheters**: Set of reusable or disposable catheters (size options available)
    - **Filters**: Disposable bacterial filter (if applicable) for protection
    - **Power Cord**: Suitable length for power connection
    - **User Manual**: Includes detailed operation and maintenance instructions

16. **Warranty:**
    - **Warranty Period**: 2 years, covering defects in materials and workmanship

19. <u>Diagnostic set Otoscope practitioner fibre optic set</u>

Otoscope Head:

7. **Type**: Fibre optic otoscope head for **bright, shadow-free illumination**.
8. **Illumination**: Fibre optic light for enhanced clarity and less heat transmission to the ear canal.
9. **Light Source**: Typically powered by a **halogen or LED bulb**,
10. **Lens**: **10x magnifying lens**
11. **Viewing**: High-definition **3D optics** for detailed visualization of the ear canal and eardrum.
12. **Material**: **Durable, lightweight metal or plastic** body for ease of handling and comfort during exams.
12. **Power Source**:

- **Rechargeable** battery-**operated**
- **charging stand** or docking station.

13. **Battery Type**: If battery-operated, typically uses **AA, C, or rechargeable lithium-ion batteries**
14. **Power Indicator**: **Battery life indicator** or charging status LED for user convenience.
15. **Handle Design**: Ergonomic design for easy grip and comfort during prolonged use.
16. **Magnification and Viewing:**

- **Magnification**: Standard magnification is **3x-4x** for the otoscope lens, with some sets offering additional magnification.
- **Angle**: Angled for optimal visualization of the ear canal.

12. **Specula:**

- **Type**: Disposable or reusable specula (in sizes **2.5 mm**, **3 mm**, **4 mm**, and **5 mm**).
- **Material**: Typically **medical-grade plastic** or **metal** (some with soft tips for patient comfort).
  - **Light and Illumination:**
  - **Fibre Optic Technology**: Ensures bright, even lighting across the ear canal with no shadows.
  - **Color Temperature**: Balanced color rendering to assist in accurate diagnosis (generally **3200-3500 Kelvin**).
  - **Light Bulb**LED for lower heat generation and longer lifespan.
  - **Durability**: High-quality **shock-resistant plastic** for long-lasting use.
  - **Finish**: Typically **matte** or **chrome-plated** finish for corrosion resistance.
  - **Size**: Compact and lightweight for easy handling, often portable for field use.
  - **Power Supply and Battery:**
  - **Battery Type**: If battery, compatible with standard **AA, C, or lithium-ion rechargeable** batteries.
  - **Charging Stand/Cradle** : Designed for easy recharging and safe storage.
- **Dimensions**: head and handle are compact, measuring around **5-7 inches (13-18 cm)** in length.
- **Weight**: Approximately **200-300 grams** for the full set
- **Warranty Period**: **2-5 years**

20. <u>Diagnostic set Otoscope practioner fibre optic set</u>

1. **Brand**: Welch Allyn, Heine, or Riester
2. **Model**: Welch Allyn Macroview Otoscope with Fiber Optic (11810 or 25000)
3. **Specifications**:
   - LED or halogen lighting for enhanced viewing
   - 3.5V power handle (rechargeable or AA battery option)
   - 2.5x magnification with wide viewing lens
   - Interchangeable specula tips (reusable)
   - Durable construction, portable carrying case

21. <u>Diagnostic set Laryngoscope 5 blades set</u>

Product Name: Diagnostic Laryngoscope Set (5 Blades)

Laryngoscope Handle:

8. **Type**: **Reusable**
9. **Material**: High-quality **aluminium**
10. **Power Source**:**Battery-operated**: Typically uses **AA or C batteries**
11. **Rechargeable Handle**:
12. **Handle Length**: **6-8 inches (15-20 cm)**
13. **Light Source**: Powered by either **halogen** or **LED bulb**
14. **Light Intensity**: Adjustable to suit different lighting conditions.

Blades:

- **Number of Blades**: **5 blades** included in the set.
- **Blade Material**: **stainless steel** or **high-grade aluminum**,
- **Blade Types/Models**:
  - A variety of blade sizes to accommodate different patient needs.
- **Blade Sizes**:
  - size 0-2 and size 3-4 sizes for diverse patient demographics.

Illumination System:

- **Type**: **Fiber-optic illumination** for bright, shadow-free light.
- **Light Bulb Type**: Halogen or **LED**
- **LED Light Source**: Long-lasting, energy-efficient, and provides a consistent color temperature.

- **Set Configuration:**
  - **Spare Bulbs**: Some models come with spare light bulbs (LED or halogen) for maintenance.
  - **Cleaning Tools**: Includes sterilization and maintenance instructions for cleaning and disinfecting the blades and handle.
  - **User Manual**: Detailed instructions on use, care, and maintenance of the set
  - **Warranty Period**: **2 years**, Covers defects in material and workmanship

22. <u>Ophthalmoscope Complete set with spare lamp with color coded range of lenses from -20D to 40D</u>

3. **Model**: Welch Allyn 3.5V PocketScope Ophthalmoscope Set (e.g., 11720)
4. **Specifications**:
   - **Light Source**: LED or halogen options.
   - **Lens Range**: Includes lenses from **-20D to +40D**.
   - **Filters**: Red-free, blue, and polarizing filters for different viewing conditions.
   - **Handle**: Rechargeable handle with a long-lasting battery life.

- **Apertures**: Multiple apertures including small, large, and slit.
- **Spare Lamp**: 1 spare bulb included.
- **Carrying Case**: Includes a durable carrying case for storage and transport.
- **Warranty**: Typically comes with a 1-year warranty

23. Ambu bags Pediatric

Brand: Laerdal

3. **Model**: Laerdal® Resuscitator Pediatric (Silicone)
4. **Specifications**:
    - **Size**: Pediatric model (450 mL)
    - **Material**: Medical-grade silicone, latex-free
    - **Mask**: Soft, transparent pediatric masks
    - **Valve**: One-way valve with positive pressure relief
    - **Oxygen Inlet**: Oxygen port for increased oxygen delivery
    - **Reusable**: Can be cleaned and reused
    - **Ergonomics**: Designed for quick, easy operation in emergency situations

24. Ambubags Adult manual rescusitator with mask

Brand: Ambu

3. **Model**: Ambu® Res-Cue® Resuscitator (Adult)
4. **Specifications**:
    - **Size**: Adult (1,000-1,500 mL)
    - **Material**: Non-toxic, medical-grade silicone or PVC, latex-free
    - **Mask**: Soft, flexible, adult-sized mask with good seal
    - **Oxygen Port**: Compatible with oxygen supply, allowing for supplemental oxygen delivery
    - **Valve**: One-way valve with optional adjustable pressure relief
    - **Ergonomics**: Ergonomically designed for ease of use, with an easy-to-grip handle
    - **Pressure Relief Valve**: Built-in safety valve to avoid over-inflation
    - **Disposable or Reusable**: reusable option
    - **Carrying Case**: Protective case for storage and transport
    - **Compliance**: CE-marked and FDA-approved

25. Mercury Clinical Thermometer model JDMS-72

12. **measurement Range**: from **35.5°C to 42.0°C** (95.9°F to 107.6°F),
13. **Scale**:**Celsius (°C)** and **Fahrenheit (°F)** markings.
14. **Accuracy**: accuracy of **±0.1°C** (±0.2°F)
15. **Material**:
    - Glass body with mercury inside for temperature measurement.
    - **Mercury column** visible for reading temperature.
16. **Length**:**12-15 cm** (4.7 to 5.9 inches).
17. **Usage**:underarm (axillary)
18. **Graduation Interval**:Divided into 0.1°C (0.2°F) graduations.
19. **Display Type**:**Analog** display with liquid mercury column that expands and contracts based on body temperature.
20. **Durability**:Made from **high-quality glass**,
21. **Packaging**: protective casing or box for safe storage.
22. **Certifications**: Certified by health and safety standards like **ISO** or **CE**.

26. Non Contact Forehead Gun, Medical Digital Thermometer for Children and Adults

15. **Measurement Method**:**Non-contact infrared sensor** technology that detects temperature by measuring the infrared heat emitted from the forehead.
16. **Temperature Measurement Range**:
    - **Body Temperature Range**: **32.0°C to 42.9°C** (89.6°F to 109.2°F).
    - **Object Temperature Range**: **0°C to 100°C** (32°F to 212°F), allowing for versatile use for both body and object temperature measurement.
17. **Accuracy**: Generally, **±0.2°C** (±0.4°F) for body temperature readings.
18. **Response Time**:**1 to 2 seconds** for a reading.
19. **Display**:
    - **Digital LCD** screen with **clear, backlit** display for easy reading.
    - **Color-coded fever indicators** (e.g., green for normal, yellow for mild fever, and red for high fever).
20. **Measurement Mode**: **Body Temperature Mode** (for humans).
21. **Fever Alarm**: Audible **beep** or color-coded indicator (usually a red light or a loud beep) if a high fever is detected.
22. **Power Supply**:

- Powered by **2 x AAA batteries** and rechargeable **Li-ion battery**.
- **Low Battery Indicator** when batteries are running low.

23. **Automatic Shut-off**: Auto power-off feature after a few seconds to conserve battery life.
24. **Distance to Measure**: **3-5 cm** (1.2-2 inches) from the forehead for optimal readings.
25. **User-Friendly Features**:
    - **Memory Function**: Stores the last few readings (commonly up to 32 readings).
    - **Silent Mode**: Option to turn off beeping sounds for discreet measurements.
    - **No Contact**: Prevents the spread of germs and is more hygienic, especially for infants and children.
26. **Temperature Unit**: Option to switch between **Celsius (°C)** and **Fahrenheit (°F)**.
27. **Certifications and Standards**: certifications such as **FDA**, **CE**, and **ISO** standards for medical safety and accuracy.
28. **Size and Weight**:
    - Generally lightweight and compact, with dimensions of **150mm x 100mm x 40mm** (approx. 5.9 x 3.9 x 1.6 inches).
    - Weighs about **100g to 150g** (3.5 to 5.3 ounces), making it easy to hold and use.

27. Wheelchair Adorned Foldable Standard

17. **Frame Material**:
    - **Steel** (for a balance of durability and weight).
18. **Weight Capacity**:
    - **250–350 lbs** (113–159 kg)
19. **Seat Dimensions**:
    - Width: **16–20 inches** (40–51 cm), Depth: **16–18 inches** (40–46 cm).
20. **Dimensions (Open)**:
    - Width: **25–30 inches** (63–76 cm), Length: **36–45 inches** (91–114 cm), Height: **36–42 inches** (91–107 cm).
21. **Foldability**:
    - **Easy folding** for compact storage and transport, **12–15 inches** (30–38 cm) deep when folded.
22. **Armrests**:
    - **Removable**, and **padded** option for comfort.
23. **Footrests/Legrests**:
    - **Removable or swing-away**, with **elevating legrests**
24. **Wheels**:
    - **Rear wheels**: 24-inch (61 cm) diameter.
    - **Front casters**: 6–8 inches (15–20 cm), with **solid or pneumatic** option.
25. **Brakes**:
    - **Self-locking brakes** for user or caregiver control.
26. **Seat Cushion**:
    - **Padded seat** or **pressure-relief cushions** for added comfort.
27. **Backrest**:
    - **Fixed or adjustable** height for comfort.
28. **Safety Features**:
    - **Anti-tip bars**, **reflective strips** for visibility, and **non-slip footrests**.
29. **Storage**:
    - Some models have **pockets** or compartments for personal items.
30. **Color/Adornments**:
    - **decorative upholstery**.
31. **Durability**:
    - Suitable for both **indoor and outdoor use**.
32. **Assembly**:
    - **Pre-assembled** or requires minimal setup.

28. Walking cane mediline aluminium offset

7. **Material**: **Aluminum** frame for lightweight yet durable support.
8. **Weight Capacity**: **250 lbs** (113 kg)
9. **Cane Type**: **Offset design**, meaning the handle is positioned slightly to the side, offering better weight distribution and a more natural grip.
10. **Height Adjustment**:
    - **Adjustable height**, ranging from **30 to 39 inches** (76 to 99 cm), to fit users of different heights.
    - Features a **quick-lock mechanism** to securely adjust the height.
11. **Handle Type**:
    - **Ergonomic handle**, made of soft **rubber** or **foam** for comfortable, non-slip grip.

- Offset design helps reduce strain on the wrist and promotes proper posture.

12. **Base**:
    - Equipped with a **single rubber tip** or **quad base** for stability and traction.
    - **Rubber tip** provides extra grip on smooth surfaces to prevent slipping.

- **Weight:0.5 to 1 lb** (230 to 450 g), making it easy to carry and use.
- **Color**: **black**
- **Additional Features**:
    - **Non-slip ferrule** for stability and traction.
    - **Anti-shock system** to reduce impact on the hand and wrist.
    - **foldable** design for portability
    - **cane tip** with better grip for outdoor use.

29. <u>Walker stainless steel folding walker 3.5 inches D X 18 inches W x 3.5 H</u>

11. **Material**: **Stainless steel frame** for durability, strength, and resistance to rust or corrosion.
12. **Dimensions**:
    - **Depth**: 3.5 inches (approx. 9 cm).
    - **Width**: 18 inches (approx. 46 cm), providing a comfortable width for users.
    - **Height**: 3.5 inches (approx. 9 cm) in its folded state, making it compact for storage or transport.
13. **Weight Capacity**: supports **up to 250 lbs** (113 kg),
14. **Adjustability**:
    - Height-adjustable legs, ranging from **30 to 39 inches** (76 to 99 cm),
15. **Folding Design**:
    - **Easy-folding** mechanism for convenient storage and portability.
    - Compact when folded, with dimensions of **3.5 inches in height** and **18 inches in width** for easy storage in small spaces
16. **Handles**:
    - **Ergonomic grips**, typically made of **foam or rubber**, for comfortable and secure hand support.
    - **adjustable hand grips**.
17. **Base and Stability**:
    - Equipped with **rubber tips** or **non-slip feet** for traction and stability on smooth surfaces.
18. **Portability**:
    - **Folding** feature allows for quick and simple collapsing of the walker for transport in vehicles or compact storage.
19. **Color**:
    - **Silver** with **metallic finishes**, but may come in other colors or styles.
20. **Additional Features**:
    - **Padded armrests**, a **basket**, or **seat** for extra comfort and convenience.
    - **Reflective strips** for increased visibility at night or in low-light conditions.

30. <u>Elbow Crutches Closed Cuff LK933L. 97*54*52cm aluminium</u>

12. **Material**:
    - **Aluminium frame** for strength, lightweight, and resistance to corrosion.
13. **Dimensions**:
    - **Total Dimensions**: 97 cm (Height) x 54 cm (Width) x 52 cm (Depth).
14. **Weight**:
    - Lightweight construction, **around 1.5 to 2 kg** (3.3 to 4.4 lbs) for the pair, making them easy to handle.
15. **Weight Capacity**:
16. Typically supports up to **250 lbs** (113 kg)
17. **Closed Cuff Design**:
    - **Closed cuff** provides a secure fit around the forearm, offering enhanced stability and reducing the risk of the crutch slipping off the arm.
    - Cuffs are designed to prevent pinching and allow easy adjustment for a comfortable fit.
18. **Height Adjustment**:
    - **Adjustable height** feature, range of **100 cm to 150 cm** (39 to 59 inches), suitable for various user heights.
    - Quick and easy adjustment mechanism with **push-button or twist-lock** system.
19. **Handgrips**:
    - **Ergonomic handgrips**, made of **soft rubber** or **foam**, designed for comfort and a secure hold.
20. **Base/Feet**:
    - **Rubber tips** at the base provide traction and stability on various surfaces, preventing slipping.
    - **reinforced or anti-slip feet** for additional safety.
21. **Portability**:

- **Foldable** for easier storage and transport.

22. **Color: black**
13. **Additional Features:**
- **reflective strips** for better visibility
- **ergonomic padding** on the cuffs for added comfort.

31. **IS IndoSurgicals Seamless Stainless Steel Unisex Adult Bed Pan with Lid**

10. **Material: high-quality stainless steel**, offering durability, resistance to corrosion, and easy cleaning.
11. **Design:**
    - **Seamless design** to prevent leakage and ensure hygienic use.
    - **Unisex design**, suitable for both male and female users.
    - **Ergonomically shaped** for comfort, designed to fit the contours of the body.
    - **Dimensions**: Approximately **40 cm (L) x 30 cm (W) x 8 cm (H)**
12. **Lid:**
    - **Comes with a lid** for hygienic storage and odor control.
13. **Weight:**
    - **Lightweight**, around **1 to 1.5 kg**

14. **Capacity:**
    - holds **1.5 liters** and suitable for adults.
15. **Easy to Clean:**
    - **Smooth stainless steel surface** ensures easy cleaning and sanitization.
    - Can be washed manually or with a disinfectant for hospital-grade hygiene.
16. **Durability:**
    - **Rust-resistant** and long-lasting, ideal for regular use in medical and home care settings.
17. **Color:**
    - **Shiny silver finish** typical of stainless steel, providing a clean, professional look.
18. **Usage:**
- Designed for **bedridden adults**, the bedpan and for individuals who have difficulty using a toilet or need assistance with personal care.

32. **Carex Health Brands Fracture Bed Pan**

- **Material: durable, lightweight plastic** that is easy to clean and resistant to wear and tear.
- **Design: Ergonomically shaped** for comfort, with a wider rear to ensure proper fit and support for users.
- **Dimensions**: Approx. **16.5 inches (L) x 12 inches (W) x 3 inches (H)**
- **Capacity: 1.5 liters**, ideal for adult use.
- **Lightweight:1 lb (450g)**, making it easy to handle, position, and store.
- **Color:blue**
- **Easy to Clean: Smooth plastic surface** ensures easy cleaning and sanitation after each use.
- **Usage: Unisex design**, suitable for both male and female users.
- **Additional Features:**
    - **Compact size** for convenience and easy storage.
    - **Non-slip surface** at the base to prevent slipping or shifting while in use.

33. **Fractured Bed Pad with covers**

10. **Material: high-quality, absorbent cotton** with a **waterproof backing** to prevent leaks and protect the mattress and **soft quilted** tops for enhanced comfort.
11. **Design:**
    - **contoured shape** or **extra padding** for comfort and protection.
12. **Dimensions: 34 inches x 36 inches** (86 cm x 91 cm)
13. **Absorbency:**
    - **Highly absorbent** core (multiple layers of absorbent fabric or materials such as **gel** or **foam**) to manage **urine leaks**, **sweat**, or other fluids.
    - **absorbs up to 8 oz** (240 ml) or more
14. **Waterproofing: moisture-resistant backing** (made of **polyurethane or PVC**) to protect the mattress or bedding from fluid damage.
15. **Ease of Cleaning:**
    - **disposable use.**

- **Quick-drying** fabric and waterproof backing to prevent moisture retention.

16. **Covers**:
    - The bed pad comes with a **removable cover** that adds an extra layer of protection and comfort.
    - Covers is **waterproof**, **soft**, or **antimicrobial** to enhance hygiene and comfort.
17. **Durability**:
    - **reinforced stitching** and durable fabrics to improve lifespan.
18. **Uses**:
    - May include features like **anti-slip backing** to prevent shifting or movement of the pad.

34. Urinal Bottle Male Urinals Portable Urine Bottle with Screw Lid (1200 ml)

11. **Material**: **high-quality plastic (PP or PE plastic)** that is lightweight, shatterproof, and resistant to odors.
12. **Capacity**: **1200 ml capacity**, providing ample space for urine collection, suitable for men needing to use it during travel, bed rest, or in emergency situations.
13. **Design**:
    - **Ergonomically designed** for male use, with a **contoured shape** for comfort and easy use.
    - **wide opening** for easy filling and a **comfortable handle** for secure holding.
14. **Screw Lid**:
    - **Screw-on lid** with a **tight seal** to prevent spills or odors, ensuring hygiene and portability.
    - The lid is designed to be leak-proof, offering added security during transport.
15. **Size and Dimensions**: **9–10 inches (23–25 cm) in height**, and **5–6 inches (12–15 cm) in width**.
16. **Portability**:
    Portable urine bottle that can be used in a variety of settings like home care, hospitals, or outdoor activities.
17. **Color**: C**lear or translucent** plastic, allowing users to easily monitor urine levels.
18. **Ease of Cleaning**: using soap and water
19. **Usage**:
    - **Unisex design**; though intended for male use, it can be used by individuals with limited mobility or for emergency purposes.
20. **Additional Features**:
    - **Graduation markings** on the side for easy volume measurement.
    - **Odor-resistant** plastic to reduce unpleasant smells.

35. Spill-Proof Fracture Urinal from PrimeMed - Gold - High Volume Non-Stick Bedpans

10. **Material**: D**urable plastic (polypropylene** or **polyethylene)**, ensuring sturdiness and long-lasting use and **Non-stick coating**
11. **Capacity**: Holding **up to 2000 ml (2 liters)**, providing ample space for urine collection.
12. **Design**:
    - **Fracture urinal design** with a **low-profile front edge** for easy use
    - **Spill-proof design** with a secure **tight-seal lid** that prevents accidental spills and leaks.
    - **Ergonomic shape** designed to accommodate the natural positioning of the body for comfortable use.
13. **Color**:
    - Finished in a **gold color**
14. **Dimensions**:
    - **Standard dimensions**: **16–18 inches (40–45 cm) in length**, **12–14 inches (30–35 cm) in width**, and around **3–4 inches (8–10 cm)** in height when flat, making it easy to store and transport.
15. **Portability**:
    - **Lightweight** and portable, making it suitable for home care, hospital settings, and travel.
16. **Spill-Proof Lid**: Comes **spill-proof lid** designed to securely fit over the opening to contain the urine and prevent leaks during transport.
17. **Ease of Cleaning**:
    - **Non-stick surface** allows for easy cleaning and sanitization after each use.
    - Commonly used in **hospital**, **nursing home**, or **home care** settings where patients need assistance with urination.
18. **Additional Features**:
    - **Graduation marks** for easy measurement of urine volume.
    - **Odor-resistant materials** to help control and reduce unpleasant smells.

36. Bath Towel Set of 4-27" X 54 - Classic Turkish Cotton Soft 600 GSM White Luxury

6. **Material**: Made from **100% Turkish cotton, Soft and plush** texture that provides a gentle touch on the skin.
7. **GSM (Grams per Square Meter)**: **600 GSM** (grams per square meter), indicating a **medium-thick** towel, providing a perfect balance between absorbency, softness, and quick drying.
8. **Size**:

- Each towel measures **27 inches x 54 inches** (68 cm x 137 cm)
- Set includes **4 towels** of the same size.

9. **Color**: **Classic white** color
10. **Additional Features**:
    - **Double-stitched edges** to prevent fraying and enhance durability

37. Washcloth towel ,White Cotton - 18 Count

8. **Material**:
    - Made from **100% cotton**,
9. **Quantity**: Includes **18 washcloths** in each set
10. **Size**: Each washcloth typically measures **12 inches x 12 inches** (30 cm x 30 cm)
11. **Color**: Classic **white color**
12. **Care Instructions**:
    - **Machine washable** for convenience and easy maintenance.
    - Wash with **warm or cold water** using mild detergent.
    - **Tumble dry on low** heat or air dry for longer towel lifespan.
    - **Iron-safe**, but typically not required due to the natural texture of cotton.
13. **Weight**:
    - **Light to medium weight**, making them **easy to handle** and **quick to dry** after use.
14. **Additional Features**:
    - **Durable stitching** along the edges to prevent fraying.
    - **Pre-shrunk** to minimize shrinkage during the first few washes.

38. Hospital gowns unisex patient gowns

10. **Material**: **Polyester-blend**.
11. **Design**:
    - **Unisex** design, suitable for both male and female patients.
    - **Open-back design** with tie closures, Velcro, or snap buttons for easy access during medical procedures.
    - **Roomy fit** that allows for comfort and freedom of movement, suitable for patients who may be bedridden or need assistance.
    - **V-neck** or **round neck** options available based on preference.
12. **Size**:
    - **one-size-fits-all** with adjustable ties or snaps for a customizable fit.
13. **Color**: **light blue**
14. **Comfort & Functionality**:
    - **Side vents** or **snap closures** to allow for additional comfort and ventilation, especially in long-term care settings.
    - **pockets** for holding small items like tissues or personal care items.
15. **Durability**: **Machine washable**
16. **Ease of Use**:
    - **Adjustable closures** such as ties, Velcro, or snap buttons make it easy for patients and caregivers to put on or remove the gown.
    - **Easy to remove and wear** for quick medical access, particularly in emergency or outpatient care settings.
17. **Additional Features**:
    - **Anti-static** material in some models to minimize discomfort and maintain a professional appearance.
    - **Lightweight design** for easy packing or transport when required.
18. **Care Instructions**:
    - **Reusable gowns** are **machine washable** with mild detergent in cold or warm water.
    - Tumble dry on **low heat** or air dry to preserve fabric integrity.

39. Theatre gowns -(small, medium and large) round nech 3RD flap long sleeve

7. **Material**: **Polyester-cotton blend** for durability, breathability, and fluid resistance.
8. **Design**:
    - **Round neck** design to provide comfort and allow for easy wear, preventing pressure on the neck area.
    - Features a **third flap** (additional protective layer) at the back to improve coverage and ensure a secure, sterile fit.
    - **Long sleeves** for full coverage, providing protection to the arms and preventing exposure during surgical procedures.
    - **Back closure** with either **ties**, **Velcro**, or **snap buttons** to ensure a snug, secure fit that can be adjusted as needed.
    - **Unisex design**, suitable for both male and female patients or surgical staff.
9. **Size**: **Generous fit** in each size for comfort, freedom of movement, and to allow for layering over other garments, such as surgical scrubs.

10. Color: surgical green
11. Additional Features:
    - Elastic wrist cuffs or adjustable sleeve openings for a better fit and additional protection.
    - Tie-back design allows for a customizable fit and easy removal after surgery.
12. Care Instructions:
    - Reusable gowns should be washed according to the manufacturer's instructions, typically in warm water with mild detergent. Tumble dry on low or air dry.

40. Plastic buckets, white,10 litres

7. Material: high-quality, durable plastic (typically polypropylene or polyethylene) that is resistant to cracking, breaking, and staining and Chemical-resistant to handle cleaning agents, disinfectants, and other hospital-grade substances
8. Capacity: Each bucket holds 10 liters (approximately 2.64 gallons)
9. Color: White
10. Design:
    - Round with a fitting lid design for easy stacking and efficient storage in hospital settings.
    - Features a wide, open top for convenient filling, emptying, and cleaning.
    - Ergonomic handle for easy lifting, carrying, and pouring, typically designed with a sturdy, reinforced plastic to prevent breakage.
    - The handle may have a comfortable grip for ease of use, even when the bucket is full.
11. Capacity Markings: Graduation marks (measurement indicators) on the side, making it easier to measure liquid contents, which is especially useful for handling medications, IV fluids, or mixing cleaning solutions.
12. Care Instructions: Easy to clean: wash with warm water and mild soap or disinfectant.

41. Height and Weight Scale Electronic Weight Scale Home Precision Adult Health Scale

12. Material:
    - High-Quality Plastic for a durable, smooth, and easy-to-clean platform.
    - ABS Plastic or Stainless-Steel frame for durability and modern design.
    - Non-slip surface for added safety and stability.
13. Display:
    - Digital LCD or LED Display for easy-to-read weight and BMI data.
    - Backlit screen for visibility in low light conditions.
    - Displays weight in kg (kilograms), lbs (pounds), and stones with unit conversion options.
    - Displays BMI (Body Mass Index) calculated based on weight and height, showing BMI value and categorization (underweight, normal weight, overweight, obese).
14. Height Measurement:
    - height measurement function, ranging from 90 cm to 210 cm (approximately 3 feet to 7 feet).
    - automated sensors
15. BMI Calculation:
    - BMI Calculation displayed alongside weight, indicating whether the user falls within healthy weight ranges.
    - Categories typically include Underweight, Normal, Overweight, and Obese, based on BMI standards.
    - BMI calculated using both the weight and height data.
16. Weight Measurement:
    - Precision Sensors providing accurate weight measurement
    - Weight capacity ranges from 5 kg to 180-250 kg (550 lbs).
    - Auto-calibration
17. Functionality:
    - Step-on technology: Automatically powers on when the user steps on the scale.
    - Auto-off feature saves battery life after a period of inactivity.
18. Power Source:
    - rechargeable batteries for eco-friendliness.
    - Low battery indicator alerts when batteries need replacing.
19. Design:
    - Sleek, slim, modern design that fits well with home decor.
    - Wide, stable platform for comfortable use and secure standing.
    - Non-slip feet to ensure the scale remains stable and does not slide during use.
20. Dimensions:
    - Platform typically measures 12 to 15 inches (30 to 38 cm) in length and width.
    - Scale height is typically 1 to 2 inches, easy to step on and off.
21. Weight:

- The scale weighs between **2 to 3 kg** (4-6 lbs), making it portable and easy to store.

22. **Safety Features**:
    - **Anti-slip surface** to reduce the risk of slipping while standing.
    - **Anti-skid feet** to prevent movement during use.

42. Digital Baby Weighing Scale for Infant Toddler With Weight Upto 20kg K-life or Equivalent

11. **Material**:
    - **High-quality ABS plastic** construction for a lightweight, durable, and easy-to-clean platform.
    - **Non-slip surface** to ensure the baby stays securely on the scale during measurements.
12. **Capacity**: **weight capacity of up to 20 kg** (approximately **44 lbs**).
13. **Display**:
    - **Large digital LCD display** for clear, easy-to-read weight readings.
    - **Backlit screen** for visibility in dim light or low-light environments.
    - Displays weight in **kilograms (kg)**, with the option to switch to **pounds (lbs)**.
    - Clear digital numbers with **high resolution** for precise measurements.
14. **Accuracy**:
    - **Auto-calibration** ensures accurate readings each time the scale is used.
15. **Functionality**:
    - **Tare function**: Allows you to subtract the weight of blankets or other items when weighing the baby, ensuring that only the baby's weight is recorded.
    - **Hold function**: Locks the weight reading on the display, making it easier to record the weight once the baby is settled.
    - **Auto-off function** to save battery life after a period of inactivity.
    - **Step-on technology**: The scale activates automatically when weight is placed on the platform.
16. **Power Source**:
    - **Battery-operated**: Typically uses **AAA** and rechargeable **lithium batteries**.
    - **Low battery indicator** alerts when battery power is running low.
    - **Energy-saving mode** helps extend battery life by turning off after inactivity.
17. **Design**:
    - **Compact and lightweight** design, making it easy to store and transport.
    - **Ergonomic, smooth-edged platform** for comfort and safety when placing the baby on the scale.
    - **Wide, flat surface** to accommodate babies comfortably during measurement.
    - **Non-slip feet** or rubber pads to ensure the scale remains stable and secure while in use.
18. **Dimensions**:
    - The platform measures **25-35 cm (10-14 inches)** in width and **50-60 cm (20-24 inches)** in length
    - The height of the scale is **2-5 cm**, allowing easy access for placing the infant.
19. **Weight**:
    - The scale weighs around **1.5-3 kg** (approximately **3-6 lbs**), making it portable and easy to move for storage or transport.
20. **Safety Features**:
    - **Non-slip mat** or surface for added safety, ensuring the baby is secure during weighing.
    - **Rounded edges** for safety to avoid any accidental bumps or injuries.
    - **Stable base** to prevent tipping or movement during use.

43. Oxygen cylinder- medical oxygen cylinder with gas and key 8.5 m3

11. **Type and Capacity**:
    - **Medical Oxygen Cylinder** designed for use in healthcare settings, hospitals, clinics, and home care.
    - **Volume Capacity**: **8.5 m³** (approximately **8,500 liters**) of oxygen.
12. **Material**:
    - **Made of high-strength aluminium alloy**
    - **Powder-coated or anodized** surface to prevent wear and corrosion.
13. **Dimensions**:
    - **Height**: Approximately **120 to 140 cm**
    - **Diameter**: Around **20 to 25 cm**, varying slightly
    - **Weight**: around **15 to 20 kg** (empty), with total weight including oxygen gas being higher.
14. **Pressure Rating**:
    - **Working Pressure**: approx. **150 to 200 bar** at full capacity
    - **Maximum Pressure**: The cylinder is built to withstand **high pressure** while maintaining safety standards.
15. **Gas Purity**:
    - Contains **medical-grade oxygen** with a purity level of **≥ 99%** for safe and effective use in medical treatments.

- Pre-filled with medical-grade oxygen, ready for immediate use upon purchase.

16. **Regulator Compatibility**:
    - Compatible with standard **medical oxygen regulators** and **flowmeters** (e.g., **pressure-reducing valve** and **needle valve** for flow control).
    - **Regulator and key** included to control oxygen flow for accurate administration.
17. **Valve and Safety Features**:
    - **Cylinder valve**: a **CGA-540 valve** or similar, specifically designed for medical use to control the release of oxygen.
    - **Safety valve**: **Pressure relief valve** to prevent over-pressurization and ensure safe oxygen delivery.
    - **Oxygen key** for opening and closing the valve securely and safely.
    - **Color-coded** (green or white) to distinguish medical oxygen from other gases.
18. **Refill and Maintenance**:
    - **Refillable** at authorized medical gas suppliers or oxygen refill stations.
19. **Regulatory Compliance**:
    - Complies with **ISO 13485** and other **medical-grade certifications** to ensure quality and safety.
    - Adheres to relevant **national and international safety standards** for medical gas cylinders (such as **DOT**, **CE**, and **ISO**).
20. **Accessories**:
    - **Oxygen cylinder key** to open and close the cylinder valve.
    - **Protective cylinder cap or collar** for safety when the cylinder is not in use.
    - **Cylinder carrying bag** or **cylinder trolley** for ease of transportation.

44. **Oxygen delivery set flow meter with a regulator and a humidifier**

9. **Components**:
    - **Flow Meter**: from **0 to 15 LPM**.
    - **Regulator**: y **50 psi** with a **pressure gauge** for monitoring.
    - **Humidifier**: with a **capacity of 200-1000 ml** of water.
10. **Material**:
    - **Flow Meter**: Durable **plastic** (e.g., **polycarbonate**), clear scale for easy reading.
    - **Regulator**: Made of **brass** or **stainless steel** for strength and corrosion resistance.
    - **Humidifier**: Transparent **polycarbonate** for visibility of water levels.
11. **Flow Meter**:
    - **Adjustable flow rate**: **0 to 15 LPM** or more.
    - **Precision**: Accurate measurement with **±1 LPM** tolerance.
    - **Connector type**: Standard **threaded** connectors (e.g., CGA-870) to fit various oxygen cylinders.
12. **Regulator**:
    - **Pressure Range**: Regulates oxygen pressure from **1500-2000 psi** to **50 psi** for safe use.
    - **Gauge**: Includes a pressure gauge for both **cylinder** and **outlet** pressure monitoring.
    - **Control**: Easy-to-adjust **flow control knob**.
13. **Humidifier**:
    - **Water Capacity**: Typically holds **200 to 1000 ml** of water for oxygen humidification.
    - **Water Level Indicator**: **Graduated scale** for easy monitoring.
    - **Connection**: Easy-to-attach to the flow meter or regulator.
14. **Safety Features**:
    - **Oxygen flow control** and **pressure relief valve** to prevent over-pressurization.
    - **Leak-proof design** to ensure safe oxygen delivery.
    - **Humidifier with secure seal** to avoid water spillage.
15. **Compatibility**:
    - **Universal connectors** for easy attachment to various oxygen systems.
16. **Certifications**:
    - **Medical grade**, meeting **ISO 13485**, **CE**, and other relevant safety and quality standards for medical device

45. **Wash basins 10 L**

7. **Material**: **durable plastic** -**polypropylene** or **PVC**), resistant to impact and chemicals.
8. **Capacity**: **10 liters** capacity for medical washing or rinsing procedures.
9. **Design**:
    - **Ergonomic** with **rounded edges** for safety.
    - **Wide opening** for easy access and use.
    - **Flat bottom** for stability.
    - **Stackable** for efficient storage.

- **Dimensions**: Approximate size: **40-45 cm** (length), **30-35 cm** (width), **15-20 cm** (height).

10. **Color**: **white** for visibility and hygiene.
11. **Safety**:
    - **Non-slip base** for stability.
    - **Smooth edges** to prevent injury.
12. **Certifications**:
    - Meets **medical-grade standards**, such as **ISO 13485**, **FDA**, or **CE certifications**.

46. **Extension Cable APC Surge Arrest Surge Protector 5 outlets 230V**

4. **Brand**: APC (by Schneider Electric)
5. **Power Rating**:
    - **Voltage**: **230V AC** (compatible with standard 230V electrical systems).
    - **Current Rating**: up to **10A**
    - **Power Capacity**: Supports up to **2500W**
    - **Number of Outlets**: **5** outlets for connecting multiple devices.
    - **Outlet Type**: Standard **UK** or **European-style**
    - **Spacing**: Widely spaced outlets to accommodate large plugs and adapters.
6. **Surge Protection**:
    - **surge protection** to prevent damage from power surges, spikes, and lightning strikes.
    - Surge protection rating **300-600 joules**
    - **Overload protection** for preventing overheating and electrical faults.
    - **Cable Length**:**1.5 to 2 meters** providing flexibility in positioning devices.
        - **Design**:
            - **Compact and durable design**
            - **Wall-mountable** for easier placement and space-saving.
            - **Integrated safety cover** for unused outlets to prevent dust and debris.
        - **Indicator Lights**:
            - **LED indicator lights** showing power status and protection status (e.g., "protected" or "surge protection working").
        - **Safety Features**:
            - **Overload Protection**: Automatically shuts off if the power exceeds the unit's safe threshold.
            - **Thermal Fuse Protection**: In case of overheating, the unit will shut down to avoid fire hazards.
        - **Certification**:
            - Complies with **international safety standards**, including **CE certification**, and may be **RoHS** compliant.
            - Meets or exceeds **IEC 61643-1** standards for surge protection.
            - **Warranty**: 1-2 years

47. **Langenback Retractor (1" blade width) stainless steel**

9. **Material**: **high**-Quality stainless steel
10. **Blade Width**: 1" (25mm) blade width
11. **Length**: 7-8 inches in total length, providing sufficient reach for most surgical fields.
12. **Design**:
    - Straight blade with a curved handle for ergonomic grip.
    - Flat, smooth blade surface for effective tissue retraction
    - Non-reflective surface to minimize glare during procedures.
13. **Sterilization**:
    - Can be easily sterilized by autoclaving to meet medical hygiene standards.
14. **Safety Features**:
    - Smooth, rounded edges to prevent injury to the tissue during retraction.
    - Handle design ensures a secure grip for the surgeon, reducing slippage during use.
15. **Certifications**:
    - Meets relevant medical-grade standards, such as ISO 13485 and CE certification, ensuring quality and safety.
16. **Packaging**:

- As a single instrument

48. **Morisson Retractor (2" blade width) stainless steel**

9. **Material**: Made from premium stainless steel, offering high durability
10. **Blade Width**: 2" (50mm) blade width
11. **Length**: 9-10 inches in length, providing ample reach for most surgical fields.
12. **Design**:
    - Straight blade for effective retraction of tissue.

- The blade is flat and smooth, reducing the risk of tissue damage or trauma.
- Curved handle for ergonomic and comfortable grip during use.

13. **Sterilization**:
    - Can be easily sterilized by autoclaving to meet medical hygiene standards for reusable surgical instruments.

14. Safety Features:
- Rounded edges on the blade and handle to minimize injury to tissues during use.
- Handle provides a secure, non-slip grip, ensuring the surgeon has full control.

15. **Certifications**:
    - Meets relevant medical-grade standards, such as ISO 13485 and CE certification, ensuring high quality and compliance with safety regulations.

16. **Packaging**:
    - As a single instrument

49. Doyen Retractor (3" blade width) stainless steel

9. **Material**: Made from high-quality stainless steel
10. **Blade Width**: 3" (75mm) blade width
11. **Length**: 10-12 inches in length
12. **Design:**
    - Straight, flat blade designed for efficient tissue retraction.
    - Smooth, rounded edges to prevent tissue damage and enhance comfort during prolonged use.
    - Ergonomic curved handle for a secure, comfortable grip, allowing the surgeon precise control during procedures.

13. **Sterilization**:
    - Can be easily autoclaved for sterilization, meeting medical hygiene standards for reusable surgical instruments.
14. **Safety Features**:
    - Rounded edges reduce the risk of accidental tissue trauma.
    - Non-slip handle ensures a stable and firm grip during use, even in sterile conditions.
15. **Certifications**:
    - Meets medical-grade standards, such as ISO 13485 and CE certification, ensuring safety and high performance.
    - Compliant with regulations for medical devices, guaranteeing product reliability.
16. **Packaging**:
    - As a single instrument

50. Malleable Retractor (1" blade width) stainless steel

1. **Material**: Made from high-quality stainless steel
2. **Blade Width**: 1" (25mm) blade width.
3. **Length**: 8-10 inches
4 **Design**:
    - Straight, smooth blade for effective tissue retraction without causing damage.
    - Ergonomic, handle design provides a secure and comfortable grip for the surgeon, ensuring precise control.

5.**Sterilization**:
    - Can be easily autoclaved to meet medical hygiene standards, ensuring safe reuse in sterile environments.

6. **Safety Features**:
    - Smooth, rounded edges on the blade to minimize tissue damage during retraction.
    - Flexible design helps to reduce the need for multiple retractors and provides precise tissue positioning.

7. **Certifications**:
    - Meets medical-grade standards such as ISO 13485 and CE certification, ensuring reliability and safety for medical use.

8.**Packaging**:
    - as a single instrument

51. Sims Speculum small(27mm*29mm)

1. Material:
- High-quality **stainless steel (medical-grade, rust-resistant, and autoclavable)**.
- Smooth, polished surface for easy cleaning and sterilization.

2. Dimensions:
- **Blade Size:** 27mm (width) x 29mm (length)

- **Handle:** Ergonomic design for firm grip and ease of use.

3. **Design Features:**
   - **Double-ended** with curved blades for better visualization and access.
   - **Non-locking**, allowing controlled movement during use.
   - **Seamless construction** to prevent accumulation of debris.
4. **Sterilization & Compliance:**
   - **Autoclavable** and reusable.
   - Meets **ISO 13485** and **CE Marking** standards for medical devices.
5. **Packaging & Labeling:**
   - Individually packaged in **sterile medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**.

52. Speculum large

1. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Smooth, polished finish for easy cleaning and sterilization.
2. **Dimensions:**
   - **Blade Size:** Large (approx. **100mm - 110mm in length** and **36mm - 40mm in width**).
   - **Handle:** Ergonomic, non-slip grip for ease of handling.
3. **Design Features:**
   - **Bivalve construction** with an adjustable screw for positioning.
   - **Rounded, smooth edges** to ensure patient comfort.
   - **Hinged design** for easy insertion and controlled opening.
4. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
5. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**.

53. Speculum medium

1. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Smooth, polished finish for easy cleaning and sterilization.
2. **Dimensions:**
   - **Blade Size:** Medium (approx. **80mm - 90mm in length** and **32mm - 35mm in width**).
   - **Handle:** Ergonomic, non-slip grip for easy handling.
3. **Design Features:**
   - **Bivalve construction** with an adjustable screw for positioning.
   - **Rounded, smooth edges** to enhance patient comfort.
   - **Hinged design** for easy insertion and controlled opening.
4. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
5. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**

54. Needle Holder 7" Sims

1. **General Description:**
   - A **7-inch Sims Needle Holder** designed for holding and guiding surgical needles during suturing procedures.
2. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Tungsten carbide (TC) inserts on jaws for enhanced grip and durability
3. **Dimensions:**
   - **Length:** 7 inches (approx. 18 cm).
   - **Jaw Design:** Serrated or cross-hatched for secure needle grip.
4. **Design Features:**
   - **Ratchet locking mechanism** for secure needle control.

- **Ergonomic ring handles** for comfortable grip and control.
- **Smooth, polished finish** for easy cleaning and sterilization.

5. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
6. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**.

55. Artery Forceps Straight 8"

1. **General Description:**
   - Straight Artery Forceps (8 inches / 20 cm)
2. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Tungsten carbide (TC) inserts for enhanced grip and durability.
3. **Dimensions:**
   - **Length:** 8 inches (approx. 20 cm).
   - **Jaw Type:** Serrated for a secure grip on tissues and vessels.
4. **Design Features:**
   - **Straight design** for easy access to superficial and deep tissues.
   - **Ratchet locking mechanism** for controlled pressure.
   - **Ergonomic ring handles** for a comfortable grip and precise control.
   - **Smooth, polished finish** for easy cleaning and sterilization.
5. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
6. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**.

56. Artery Forceps Curved 8"

1. **General Description:**
   - **Curved Artery Forceps (8 inches / 20 cm)**
2. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Tungsten carbide (TC) inserts for enhanced grip and durability.
3. **Dimensions:**
   - **Length:** 8 inches (approx. 20 cm).
   - **Jaw Type:** Serrated for a secure grip on tissues and vessels.
4. **Design Features:**
   - **Curved design** for better access to deep or hard-to-reach areas.
   - **Ratchet locking mechanism** for controlled pressure.
   - **Ergonomic ring handles** for comfortable grip and precision.
   - **Smooth, polished finish** for easy cleaning and sterilization.
5. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
6. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**

57. Mosquito artery forceps straight

1. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Tungsten carbide (TC) inserts for enhanced grip and durability.
2. **Dimensions:**
   - **Length: 5 inches (12.5 cm)** or **6 inches (15 cm)**.
   - **Jaw Type:** Fine, serrated tips for a secure grip on delicate tissues and vessels.
3. **Design Features:**
   - **Straight design** for precise control in superficial and confined areas.
   - **Ratchet locking mechanism** for secure clamping.
   - **Ergonomic ring handles** for comfortable grip and maneuverability.

- **Smooth, polished finish** for easy cleaning and sterilization.

4. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
5. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**.

58. Toothed Dissecting Forceps 6”

1. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Tungsten carbide (TC) inserts for enhanced grip and durability.
2. **Dimensions:**
   - **Length:** 6 inches (15 cm).
   - **Tip Type:** Fine, serrated tips with **1x2 teeth** for a secure grip on tissues.
3. **Design Features:**
   - **Toothed tip** provides a firm grasp without excessive pressure.
   - **Ergonomic, non-slip handle** for better control and precision.
   - **Smooth, polished finish** for easy cleaning and sterilization.
4. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
5. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**.

59. Dressing Forceps 5”

1. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Tungsten carbide (TC) inserts for enhanced grip and durability.
2. **Dimensions:**
   - **Length:** 5 inches (12.5 cm).
   - **Tip Type:** Fine, serrated or smooth tips for precise handling.
3. **Design Features:**
   - **Straight design** for easy access and maneuverability.
   - **Ergonomic, non-slip handle** for better control and comfort.
   - **Smooth, polished finish** for easy cleaning and sterilization.
4. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
5. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.
   - Clearly labeled with **manufacturer details, batch number, and expiry date**

60. Sponge holding forceps 7”

1. **Material:**
   - **Medical-grade stainless steel**, corrosion-resistant, and autoclavable.
   - Tungsten carbide (TC) inserts for enhanced grip and durability.
2. **Dimensions:**
   - **Length:** 7 inches (18 cm).
   - **Tip Type:** Looped, serrated jaws for a secure grip on sponges and dressings.
3. **Design Features:**
   - **Ratchet locking mechanism** for secure holding.
   - **Ergonomic, ring-handled design** for better control and precision.
   - **Smooth, polished finish** for easy cleaning and sterilization.
4. **Sterilization & Compliance:**
   - Fully **autoclavable** and reusable.
   - Complies with **ISO 13485** and **CE Marking** standards for medical devices.
5. **Packaging & Labeling:**
   - Individually packaged in **sterile, medical-grade pouches**.

- Clearly labeled with **manufacturer details, batch number, and expiry date**

61. Trochars - 1 per procedure

1. General Description:

- **Trocar** is a surgical instrument used for creating an opening in the body, typically for inserting a cannula or for performing procedures like laparoscopy or endoscopy.
- The trocar is single-use, intended for one procedure only.

2. Material:

- **High-quality, medical-grade stainless steel** for the trocar cannula and cutting tip.
- **Plastic or silicone components** for safety features or ergonomic handles (if applicable).

3. Dimensions and Sizes:

- **Size : 5 mm to 12 mm** in diameter
- Length: **10-20 cm**

4. Design Features:

- **Cutting tip:** Sharp, beveled tip for precise tissue penetration.
- **Safety shield** to prevent accidental injury or damage.
- **Cannula:** Hollow tube that allows for instrument insertion or drainage.
- **Ergonomic grip:** Non-slip handle or mechanism for easy manipulation and insertion.
- **Single-use design** for infection control and sterility.

5. Sterilization & Compliance:

- **Single-use**, disposable device to reduce risk of cross-contamination.
- **Pre-sterilized** and individually sealed in sterile packaging.
- Complies with **ISO 13485**, **CE Marking**, and relevant medical device standards for safety and performance.

6. Packaging & Labeling:

- **Individually packaged** in sterile, medical-grade pouches or blister packs.
- **Clearly labeled** with manufacturer details, device size, batch number, and expiry date.

62. Surgical Theatre Gown with sleeves and cuffs Cotton (Medium size), Green in colour, Reusable

1. General Description:

- **Surgical Theatre Gown** designed for use in sterile environments during surgical procedures.
- **Medium size**, with long sleeves and cuffs for full coverage.
- **Reusable**, made from high-quality cotton fabric.

2. Material:

- **Cotton fabric** (100% or high cotton blend) for comfort, breathability, and durability.
- **Water-resistant or fluid-repellent coating** on the outer surface (optional, for additional protection).

3. Dimensions:

- **Size:** Medium (custom sizing available upon request).
- Designed to fit an average adult with a range of chest and waist measurements.

4. Design Features:

- **Long sleeves** with elastic or adjustable cuffs to prevent fluid contamination at the wrist.
- **Full back coverage** with adjustable ties or Velcro closures for secure fastening.
- **Generous fit** to allow for free movement during surgical procedures.
- **Reinforced stitching** at critical points to enhance durability.

5. Sterilization & Compliance:

- **Reusable**; designed for multiple washes and sterilizations.
- **autoclaved**
- Complies with **ISO 13485**, **CE Marking**, and relevant medical device standards for infection control and safety

6. Packaging & Labeling:

- **Individually packaged** in sterile or clean packaging to maintain hygiene.
- Clearly labeled with **manufacturer details, size, batch number, and care instructions**

63. Insect mounting pins 2 inches

1. Material:

- **High-quality stainless steel** or **nickel-plated steel** for enhanced durability, corrosion resistance, and sterile handling.
- **Smooth, polished finish** to prevent rust and ensure ease of handling during specimen mounting.

2. Dimensions:

- **Length:** 2 inches (approximately 5 cm).

- **Diameter: 0.5mm to 0.6mm**

3. **Design Features:**
   - **Sharp, fine-pointed tip** for easy and precise insertion into insect specimens.
   - **Smooth shaft** to avoid specimen damage during mounting.
   - **Standard size** to accommodate typical insect and arthropod specimens commonly used in medical entomology or pathology.
4. **Sterilization & Compliance:**
   - **Pre-sterilized** or available in sterile packaging to maintain hygiene and ensure safe handling in clinical and laboratory settings.
   - Meets **ISO 13485** and **CE Marking** standards for medical and scientific use.
5. **Packaging & Labeling:**
   - bulk packaged in sterile containers to ensure safe handling and easy distribution.
   - Clearly labeled with **manufacturer details, batch number, and quantity**, ensuring traceability and compliance with medical and scientific standards.

64. Mayo Trolley with tray Stainless steel

1. **General Description:**
   - **Mayo Trolley with Tray (Stainless Steel)** is a mobile, multi-functional cart designed for use in operating rooms, clinics, and medical facilities.
   - It is used for holding sterile instruments, supplies, and equipment during surgeries or medical procedures.
2. **Material:**
   - **High-quality stainless steel** for the trolley frame and tray, ensuring **corrosion resistance**, **durability**, and **easy cleaning**.
   - **Stainless steel tray** for supporting instruments and medical items, with smooth edges for safe handling.
3. **Dimensions:**
   - **Height: 36 inches (91 cm)**, adjustable to suit user preference
   - **Width: 18 - 24 inches**
   - **Length:** Typically **30 - 40 inches**
   - **Tray Size:** Generally **18" x 12"** and adjustable to accommodate surgical instruments and supplies.
4. **Design Features:**
   - **Adjustable height** for comfort during procedures, allowing customization of work surface level.
   - **Two or three shelves** with one main tray and bottom storage tray or shelf.
   - **Smooth, rounded edges** for safety and easy cleaning.
   - **Locking wheels** (casters) for secure positioning during procedures and mobility between areas.
   - **Ergonomically designed** handles for easy maneuvering.
5. **Sterilization & Compliance:**
   - **Autoclavable** trays and components for high-level sterilization.
   - Complies with **ISO 13485**, **CE Marking**, and relevant medical standards for use in healthcare settings.
   - **Non-porous surface** to avoid contamination and ensure proper hygiene during medical procedures.
6. **Packaging & Labeling:**.
   - **Labeled** with manufacturer details, specifications, and instructions for use.
   - **Assembly** instructions and safety handling information included

65. Mayo Stand Cover(76*145cm) Disposable

1. **General Description:**
   - Provides a clean, sterile surface to protect medical instruments and supplies during surgery or medical procedures.
2. **Material:**
   - Polyethylene
   - Sterile
     Latex free
     Single use
   - Colour: Blue transparent/ semi-transparent
   - packs of 56 unit
3. **Dimensions:**
   - **Size:** : 145 x 80 cm
4. **Design Features:**
   - **Sterile, single-use design** to maintain infection control during medical procedures.
   - **Elasticized edges or adhesive strips** (optional) for secure and tight fit over the Mayo Stand.
   - **Fluid-resistant properties** to protect instruments and prevent fluid penetration.
   - **Tear-resistant** to prevent accidental rips or damage during use.

5. Sterilization & Compliance:
   - **Pre-sterilized** in accordance with **medical standards** to ensure safety and hygiene.
   - Complies with **ISO 13485**, **CE Marking**, and relevant medical device standards.
   - Designed for **single-use** only to minimize the risk of cross-contamination.
6. Packaging & Labeling:
   - **Individually packed** in sterile packaging for easy distribution and use.
   - Labeled with **manufacturer details, batch number, and expiration date** for traceability.
   - Clear **instructions for use** included on packaging.
   - Features: Absorbent and impermeable, sterile, single-use

66. Surgical Green Towels (16"*26") Cotton material
1. General Description:
   - These towels are used in operating rooms, clinics, and medical settings to provide a sterile surface and absorbent material during procedures.
2. Material:
   - **100% cotton fabric**, offering high absorbency, softness, and durability.
   - **Pre-washed** and **pre-shrunk** to ensure consistent size and reliable performance after multiple washes.
3. Dimensions:
- **Size:** 16 inches (40.6 cm) x 26 inches (66 cm)
4. Design Features:
   - **Surgical green color** for easy identification and compliance with hospital and clinical standards.
   - **Highly absorbent** fabric to quickly absorb fluids and maintain a dry and clean environment during procedures.
   - **Double-stitched edges** for durability and to prevent fraying after repeated use.
   - **Soft and comfortable** to the touch for patient and staff comfort during procedures.
5. Sterilization & Compliance:
   - **Autoclavable** for sterilization at high temperatures, ensuring the towels are free from pathogens after each use.
   - Complies with **ISO 13485**, **CE Marking**, and other relevant medical standards for safety and quality.
6. Packaging & Labeling:
   - **Bulk packed**
   - **Care instructions** included for proper washing, sterilization, and handling.

68. Surgical Green Towels (16"*26") Cotton material with a hole in the middle

1. General Description:
   - Includes a **hole in the middle**, making them ideal for use during certain procedures
2. Material:
   - **100% cotton fabric** for superior **absorbency**, **softness**, and **durability**.
   - **Pre-washed and pre-shrunk** to ensure consistent size and performance after repeated use.
3. Dimensions:
   - **Size:** 16 inches (40.6 cm) x 26 inches (66 cm) with a hole approximately **3 to 4 inches in diameter** in the center
4. Design Features:
   - **Surgical green color** for easy identification and conformity with hospital or surgical facility color standards.
   - **Hole in the middle** for specific surgical access, ideal for draping over a patient while providing access for surgical procedures.
   - **Highly absorbent** material to absorb fluids during surgery, helping maintain a sterile field.
   - **Double-stitched edges** to enhance durability and prevent fraying or damage after multiple washes.
5. Sterilization & Compliance:
   - **Autoclavable** for sterilization at high temperatures to ensure a sterile environment after each use.
   - Complies with **ISO 13485**, **CE Marking**, and other relevant medical device and safety standards.
6. Packaging & Labeling:
   - Clearly labeled with **manufacturer details**, **size**, **hole diameter**
   - **Care instructions** provided to ensure proper washing, sterilization, and maintenance of the towels.

78. Dual Head Training stethoscope Littmann Teaching stethoscope with diaphragm and bell

1. General Description:
   - **Dual Head Training Stethoscope (Littmann Teaching Stethoscope)** featuring both **diaphragm** and **bell**
2. Material:
   - **High-quality, durable stainless steel chest piece** for enhanced acoustics and long-lasting use.
   - **Soft, non-latex ear tips** for comfort during extended use.

- **Flexible, high-quality tubing** for ease of movement and durability.
- **Diaphragm:** Designed with **non-chill ring** for patient comfort.
- **Bell side:** Classic bell design for low-frequency sounds.

3. **Dimensions and Design:**
   - **Chestpiece:** Dual-head design with both **diaphragm** (for high-frequency sounds) and **bell** (for low-frequency sounds).
   - **Length: 27 to 28 inches** for optimal user comfort and functionality.
   - **Ear tubes:** Anatomically designed for a proper seal and comfortable fit.
4. **Design Features:**
   - **Dual-head stethoscope**:
     - **Diaphragm side:** Offers clear detection of high-frequency sounds such as heart and lung sounds.
     - **Bell side:** Picks up low-frequency sounds, such as heart murmurs or certain bowel sounds.
   - **Adjustable binaural** with ergonomic ear tips for a customized and comfortable fit.
   - **Acoustic seal** ensures efficient sound transmission without loss of sound quality.
   - **High-quality construction** to ensure reliability, even under repeated use in educational or clinical settings.
5. **Sterilization & Compliance:**
   - Easy to clean and maintain with **disinfectant wipes**.
   - Complies with **ISO 13485**, **CE Marking**, and relevant medical device standards for safe and effective use.
6. **Packaging & Labeling:**
   - **Individually packaged** in a protective case or box.
   - Labeled with **manufacturer details, model, batch number**, and **certification** for traceability.
   - **Instructions for use** and care guidelines provided in the packaging

79. Intramuscular Injection Simulator with audio feedback Upper arm manikin (black in colour)

1. **Material:**
   - **High-quality, durable synthetic material** designed to mimic human skin texture and tissue layers.
   - **Non-toxic, latex-free** construction to prevent allergic reactions and ensure safety during use.
   - **Soft, flexible outer skin** for realistic feel during injection.
   - Internal structures are designed to replicate the feel of **muscle and tissue** under the skin for authentic training experience.
2. **Dimensions and Design:**
   - **Upper arm manikin size: 22 to 26 inches** in length, mimicking the average adult upper arm.
   - **Realistic anatomy** to ensure that trainees can practice proper needle insertion techniques.
   - **Audio feedback feature** activated when the needle reaches the correct depth, providing real-time training cues.
   - **Injection site** is designed to replicate typical sites for intramuscular injections, such as the **deltoid muscle**.
3. **Design Features:**
   - **Audio feedback system** that produces a sound when the **correct depth** for the injection is achieved, ensuring proper technique.
   - **Realistic skin and muscle layers** provide tactile feedback similar to real tissue.
   - **Reusable** and **easy to clean** for repeated use in training environments.
   - **Adjustable or replaceable injection site areas** to extend the product's lifespan and ensure continuous training.
   - **Detailed anatomical markers** for proper injection placement.
4. **Sterilization & Compliance:**
   - **Non-sterile**; designed for **training** purposes only.
   - Easy to disinfect after each use with **medical-grade disinfectants**.
   - Complies with **ISO 13485**, **CE Marking**, and relevant medical device standards.
5. **Packaging & Labeling:**
   - **Individually packaged** in a secure box or case for protection during transport and storage.
   - **Clear labeling** with manufacturer details, product specifications, and batch number for traceability.
   - **Instruction manual** for proper use, care, and maintenance included in the packaging.

80. Intramuscular Injection Simulator with audio feedback Gluteus Muscle (black in colour)

1. **Material:**
   - **High-quality, durable synthetic material** that mimics human tissue layers, including the skin and muscle, to replicate a realistic injection experience.
   - **Non-toxic, latex-free** construction to ensure safety and prevent allergic reactions.
   - **Flexible outer skin** designed for realistic texture and feel during injection.
   - Internal structures include a **muscle layer** that simulates the density and resistance encountered during actual injections.

2. Dimensions and Design:
   - **Gluteus muscle simulator size:** designed to replicate the **adult gluteal region**, with a focus on the **upper outer quadrant** for correct injection placement.
   - **Realistic anatomical design** for accurate practice of the intramuscular injection technique in the gluteus area.
   - **Audio feedback** that triggers when the needle reaches the correct depth for the injection, providing immediate response to the trainee's actions.
3. Design Features:
   - **Audio feedback system**: Produces a sound when the needle reaches the correct depth in the muscle, confirming accurate technique and helping trainees adjust as needed.
   - **Realistic muscle and skin layers** offer authentic tactile feedback during the injection process.
   - **Injection site** designed specifically for the gluteus muscle, commonly used for intramuscular injections.
   - **Adjustable or replaceable injection sites** to extend the life of the simulator.
   - **Reusable** and **easy to clean**, allowing for continuous training use.
4. Sterilization & Compliance:
   - **Non-sterile**; intended for training purposes only.
   - Designed for easy **disinfection** with medical-grade disinfectants between uses.
   - Complies with **ISO 13485**, **CE Marking**, and other relevant medical device standards for safety and quality.
5. Packaging & Labeling:
   - **Individually packaged** in a protective box or case to prevent damage during shipping and storage.
   - **Clear labeling** with the manufacturer's details, product specifications, and batch number for traceability.
   - **Instruction manual** provided, detailing proper use, care, and maintenance of the simulator.

81. Box files office point with lever arch size 280mm *350mm

1. Material:
   - **Durable cardboard or plastic** outer shell for long-lasting use, providing sturdy support for heavy files.
   - **Lever arch mechanism** made from **metal** for reliable performance and easy opening/closing of the file.
   - **Reinforced edges** for added durability, ensuring the file withstands regular handling without tearing or wear.
2. Dimensions:
   - **Size:** 280mm (width) x 350mm (height) – suitable for A4-sized documents.
   - **Width of spine: 40mm to 75mm**
3. Design Features:
   - **Lever arch mechanism** allows for easy insertion, removal, and organization of papers within the file.
   - **Finger hole** in the spine for easy retrieval and access when stored upright on shelves.
   - **Clear label holder** on the spine for easy identification of contents.
   - **Wide capacity** to hold a large number of documents (typically up to **250-300 sheets**) per file, depending on the spine width.
   - **Smooth, strong finish** that prevents document damage and offers a professional appearance.
   - Available in various **colours** for better categorization and organization in the office.

82. Electric Hospital bed with mattress Model YA-D5-3 Multi-Function 5 Position Medical Electric Bed

1. General Description:
   - **Electric Hospital Bed (Model YA-D5-3)** is a **multi-function medical bed** designed for hospital, clinic, or home care use.
   - Offers **5 adjustable positions** for enhanced comfort and medical care, including **backrest, knee rest, height adjustment**, and **Trendelenburg positions**.
   - Includes a **mattress** specifically designed to support patient comfort and medical needs.
2. Material and Construction:
   - **Frame Material:** Constructed from **high-quality steel** with **powder-coated finish** for durability, rust resistance, and easy cleaning.
   - **Head and Foot Boards:** Made from **ABS plastic** or **high-strength plastic** for light weight, durability, and ease of cleaning.
   - **Mattress Material:** High-density **foam mattress** with a **waterproof cover** to protect from fluids and spills. The mattress is designed to provide **pressure relief** and support.
   - **Mattress Size: 90cm x 200cm** or as specified.
3. Dimensions:
   - **Bed Dimensions (without mattress):**
     - **Length:** Approximately **200 cm**
     - **Width:** Approximately **90 cm**
     - **Height:** Adjustable from **40 cm to 80 cm**

- **Weight Capacity:** supports up to **200 kg**

4. **Design Features:**
   - **5 Adjustable Functions:**
     - **Backrest Position:** Adjustable from **0 to 75 degrees** to provide comfort for patients in a seated or semi-reclined position.
     - **Knee Rest:** Adjustable to a range of **0 to 40 degrees** to elevate the lower body.
     - **Height Adjustment:** The bed height is adjustable electrically, providing ease of access for both patients and caregivers.
     - **Trendelenburg Position:** Tilts the bed to **20-30 degrees**, ideal for medical procedures and certain patient conditions.
     - **Reverse Trendelenburg:** Adjustable to assist in certain medical treatments, such as for patients with respiratory difficulties.
   - **Electric Control:**
     - Operated via **hand-held controller** or **nurse control panel** for easy adjustment of bed functions.
     - **Memory function** may be included to save preferred positions for patient comfort.
   - **Caster Wheels:**
     - Equipped with **locking swivel wheels** for easy mobility around the hospital or home care space.
     - **Wheel locks** to ensure the bed remains securely in place during patient care.

5. **Safety and Comfort:**
   - **Safety Rails: Adjustable side rails** to prevent patient falls and ensure safety while adjusting the bed.
   - **Mattress Pressure Relief:** Designed to reduce **pressure ulcers** with an ergonomic, pressure-relieving mattress suitable for long-term use.
   - **Quiet Operation:** The electric motor is designed to operate quietly and smoothly, ensuring minimal disturbance to patients.

6. **Sterilization & Maintenance:**
   - **Easy to Clean:** The **frame** and **plastic components** are easy to clean and disinfect with hospital-grade cleaners.
   - The **waterproof mattress cover** can be cleaned easily, and the mattress is designed for easy replacement or maintenance if needed.

7. **Compliance & Certification:**
   - Complies with **ISO 13485**, **CE Marking**, and other relevant medical device safety and performance standards.
   - Certified for **medical use** and designed with **patient safety** in mind.

8. **Packaging & Labeling:**
   - **Assembly instructions** and **user manual** provided to guide proper use, setup, and maintenance.

83. White Cotton bedsheets 4*6 with pillow cases

1. **General Description:**
   - **White Cotton Bedsheets (4'x6')** designed for use in hospitals, clinics, hotels, or home care environments.
   - Includes **two pillowcases** (standard size), making it a complete bedding set for a single bed.
   - Made from **high-quality cotton** for comfort, breathability, and durability.
2. **Material:**
   - **100% Cotton Fabric** for a soft, breathable feel and excellent absorbency.
   - **High-thread count** (e.g., 200 to 300 thread count) for a smooth, durable finish that resists wear and tear over time.
   - Fabric is designed to withstand repeated washings while maintaining its softness and quality.
   - **Non-toxic and hypoallergenic** material, safe for patients with sensitive skin.
3. **Dimensions:**
   - **Bedsheet Size: 4 feet x 6 feet** (122 cm x 183 cm) – suitable for single beds or hospital beds.
   - **Pillowcase Size:** Standard size for common pillows, typically **18 inches x 28 inches** (45 cm x 70 cm).
4. **Design Features:**
   - **White Color:** Neutral and professional appearance, ideal for hospital and healthcare environments.
   - **Smooth and Soft Finish** to ensure patient comfort during use.
   - **Durable and Long-lasting** fabric that retains its softness and appearance after multiple washes.
   - **Fitted or Flat Option:** Bedsheets may be available in **flat** or **fitted** styles depending on procurement needs.
   - **Elasticized Corners (for fitted sheets):** To keep the bedsheet securely in place on the mattress, ensuring smoothness and comfort for the patient.
5. **Quality Standards:**
   - **Machine washable** and **resistant to shrinkage** to maintain size and quality after washing.
   - **Wrinkle-resistant** or **easy-iron fabric** to minimize post-wash ironing needs.
   - Meets **ISO 9001** or similar quality standards for healthcare linens.

84. Aneroid Sphygmomanometer Manual blood pressure machine without mercury

1. General Description:
   - **Aneroid Sphygmomanometer** is a **manual blood pressure measuring device** designed for use in healthcare environments, including hospitals, clinics, and medical offices.
2. Material:
   - **Gauge**: High-quality **metal** (e.g., brass or steel) housing for durability and long-term performance.
   - **Cuff**: Made from **durable nylon or polyester** fabric with a comfortable, adjustable fit. The cuff is designed for easy wrapping around the upper arm and provides a snug fit during use.
   - **Manometer (Dial)**: features a **large, clear dial** for easy reading of blood pressure measurements.
   - **Valve**: Precision valve made from durable materials to control the release of air during inflation and deflation.
   - **Inflation Bulb**: **Rubber bulb** with a **non-slip texture** for easy handling.
3. Dimensions:
   - **Gauge Size: 4 to 5 inches** in diameter for clear visibility of readings.
   - **Cuff Size:** up to 42 cm
   - **Hose Length:** Approximately **22 to 30 inches** to accommodate a variety of patient positions.
4. Design Features:
   - **Manual Operation:** Uses a **bulb and valve** to inflate the cuff manually, with the pressure being monitored via the dial gauge.
   - **Mercury-free**: The aneroid sphygmomanometer uses **mechanical pressure sensing** rather than mercury, making it safer for both the environment and healthcare workers.
   - **Durable Gauge**: Large, easy-to-read dial marked with **mmHg** (millimeters of mercury) for precise measurement of systolic and diastolic pressure.
   - **Adjustable cuff** with a **hook-and-loop closure** for a secure fit.
   - **Easy to Use:** Simple operation with minimal training required for accurate measurements.
   - **Calibration**: Requires periodic calibration to ensure accurate readings.
5. Accuracy and Performance:
   - Provides highly accurate blood pressure readings in the range of **0 to 300 mmHg**.
   - **Precision dial mechanism** ensures reliability for regular use in clinical environments.
   - **Range of Measurement**: Suitable for measuring systolic and diastolic pressure within **standard clinical ranges**.
6. Compliance & Safety:
   - **Mercury-free design** adheres to safety standards, reducing the risk of mercury exposure.
   - Complies with relevant international quality and safety standards, such as **ISO 81060-1**, **CE marking**, and other regulatory certifications for medical devices.
   - **Latex-free** components to accommodate patients with latex allergies.
7. Packaging & Labeling:
   - **User manual** included, providing instructions for proper use, maintenance, and calibration.
   - Clear labeling indicating **non-mercury** and **safety compliance** for medical use.
8. Sterilization & Maintenance:
   - **Easy to clean** and disinfect with medical-grade wipes.
   - The **cuff** is washable, and the **dial gauge** can be wiped clean.

85. Fingertip Pulse Oximeter Battery use

1. General Description:
   - **Fingertip Pulse Oximeter** designed to measure **oxygen saturation (SpO2)** and **pulse rate (PR)** in the blood.
   - **Battery-operated** for portable and convenient use in clinical, home care, and emergency settings.
   - Provides quick, accurate readings and is ideal for monitoring **respiratory and cardiovascular health**.
2. Material:
   - **Outer casing** made of **durable, high-quality plastic** for light weight and resilience to everyday use.
   - **Non-slip design** for easy gripping and comfortable handling during use.
   - **Soft, hypoallergenic silicon material** around the finger sensor to ensure comfort during measurement.
3. Dimensions:
   - **Compact and lightweight design** for portability: **5.5 cm x 3.5 cm x 3.0 cm**.
   - **Weighs approximately 50-60 grams** (including batteries), making it easy to carry and use.
   - fits fingers with a width of 8-20 mm
4. Design Features:
   - **One-button operation** for easy use by healthcare professionals and patients alike.
   - **LED Display** showing **SpO2 levels** (percentage), **pulse rate**, and **pulse strength** with clear numeric and bar graph indicators.
   - **Adjustable display orientation** with a 180-degree rotatable screen to allow reading from different angles.

- **Audible alarm function** (optional): Alerts the user when oxygen saturation levels are outside the preset threshold range.
- **Low power consumption** for extended battery life.
- **Automatic power-off** after a few seconds of inactivity to save battery.
- **Battery Indicator**: Displays remaining battery level on the screen.

5. Performance Specifications:

- **Measurement Range:**
  - **SpO2:** Typically **70% to 100%** with an accuracy of ±2%.
  - **Pulse Rate:** Typically **30 to 250 bpm** with an accuracy of ±2 bpm or ±2%.
- **Fast Readings**: Provides quick results in **5-10 seconds.**
- **Operating Temperature**: **5°C to 40°C** for optimal performance.

6. Power Supply:

- **Battery Operated**: Uses **2 x AAA batteries** (included with the unit).
- **Battery Life**: lasts for **20-30 hours** of continuous use, depending on the brand and usage.
- **Low power consumption** design extends battery life.

7. Compliance & Safety:

- Complies with relevant international standards such as **CE Marking**, **FDA**, and **ISO 13485** for medical devices.

8. Packaging & Labeling:

- **Instruction manual** included for guidance on proper usage, maintenance, and battery replacement.

9. Sterilization & Maintenance:

- **Batteries are replaceable**, and the unit does not require complex maintenance or calibration.

86. Kidney dishes

- **Material**: High-grade stainless steel (18/10).
- **Dimensions**: L x W x H 260mm x 100mm x 55mm
- **Features**: Autoclavable, reusable, smooth surface for easy cleaning, and resistant to corrosion

78.Kidney dishes 10”

- Stainless Steel hollowware
- autoclavable 121°C, with 0.5 mm thickness.
- Economic kidney dish - with curved edges
- Size:247x122x43mm; Capacity: 600 ml

79 . Gullipots

- Gallipots without lids 10 oz MH-100
- Gallipots without lids 4oz MH-070
- Material: Stainless or glass
- **Diameter:** 2.5-3 inches (64-76mm)

80. Trays Stainless steel medium

- Stackable With fixed handles
- Material: Stainless steel
- Dimensions: 530 x 325 mm
- Height: 100 mm

81 .Trays Stainless steel Large

- Material: Stainless steel
- a length of 595mm, a width of 395mm, and a height of 48mm.
- Colour: Silver
- Weight:1.64Kg

82. Bowls 8" Stainless steel

- Smooth surface
- Innerdiameter:115-135mm.
- Height:50-70mm.
- Capacity;550-650ml.
- Thickness:0.75-0.85mm.

- Material: stainless steel; Reusable.

83. Instrument Trolley Strong stainless steel with two shelves and wheels

- Material: Stainless steel
- Dimensions:40D * 55W *76Hcm
- Colour: Steel
- Wheel: Swivel casters

84.Phlebotomy/Intravenous Infusion Practice Kit Venipuncture Nurse Training Blood Drawing Arm Model Kit IV Training Injection Arm Manikin (beige in colour)

Components of a Phlebotomy/IV Infusion Practice Kit

15. **Practice Arm or Venipuncture Model**
16. A lifelike model or arm that mimics the human anatomy, including veins, to simulate real venipuncture procedures.
17. The model may be made of soft, durable materials to replicate skin, muscle, and vein structure.
18. Some models are refillable, allowing repeated use with simulated blood flow.
19. **Simulated Blood or Fluid**

Artificial blood or fluid is used to simulate real blood, providing a more realistic experience when performing venipuncture or IV infusions.

20. **Syringes (various sizes)**

1 mL to 20 mL.

21. **Needles (with safety features)**
    - Hypodermic needles in different gauges and sizes that allow for practice in inserting into veins.
    - Safety needles may be included to ensure the trainee practices safe techniques.
22. **IV Catheters**
    - A variety of IV catheters are included for practicing the insertion and removal of these devices in vein puncture procedures.
23. **Tourniquet**
    - A tool used to apply pressure to veins, making them easier to locate for venipuncture or IV insertion.
24. **Alcohol Swabs**
    - To clean the area before performing a procedure to ensure hygiene and prevent infection.
25. **Gauze Pads**
    - Used for cleaning and dressing the site after venipuncture or infusion.
26. **Adhesive Bandages**
    - Used to cover the puncture site after the procedure to prevent bleeding and infection.
27. **Practice Blood Collection Tubes**
    - Tubes for collecting blood samples, which can simulate real blood draw procedures.
28. **Educational Manual/Instructions**
    - Many kits come with a manual or instruction guide to help users understand the proper procedures, including step-by-step instructions and safety precautions.

85 Ampoule cutter file Stainless steel

- Material: stainless steel
- Size:8”
- Length:15cm
- Packing type:polypack

86. Hospital beds with mattress 3 cranks manual (complete with three pieces mechanical ABS cranks, four wheels and braking pedals, guard rails)

- Dimensions:
  - Overall Length: Approximately 200 cm (79 inches)
  - Overall Width: 90 cm (35 inches)
  - Height: Adjustable based on the crank mechanism, but typically 40–80 cm (15–31 inches)
- Weight Capacity: Generally, the weight capacity is around 150-250 kg
- Wheels: Equipped with lockable caster wheels for easy mobility and stability.
- Number of crunks 3-head/backrest adjustment, leg/footrest adjustment, and height adjustment

87.Pillow medium size covered with mackintosh

Size:20” * 26”(51cm * 66cm)
Medium loft: 5” thickness
Makintosh:waterproof

88. Baby cot MDF with cot bumper and mattress
Internal Bed Dimensions: 120 cm x 60 cm .
External Dimensions: 125 cm x 65 cm x 90 cm (L x W x H)
Weight-30kg
Thickness:15cm
Mattress size:120cm * 60cm

89.CPR trainer; Adult Half body cross section to the 6th rib CPR model, size 63x25x44cm, 8kgs, The cross-section is color painted to show different organs clearly and vivid.

1. **Half-Body Design**
   - The mannequin typically features a **cutaway half-body** with the upper chest area, providing a **cross-section** up to the **6th rib**. This allows the instructor and trainee to observe and interact with key anatomical structures such as the **sternum, ribs, heart, lungs**, and **airway** during CPR practice.
   - The cutaway view provides a **realistic anatomical depiction**, which enhances understanding of where chest compressions and ventilations should be applied and how the internal organs and structures move during CPR.
     - **Realistic Chest for Compressions**
   - The mannequin's chest is designed to mimic the **resilience** and **feel** of a real adult chest, allowing the trainee to practice **correct compression depth and rate**. Chest compressions should be performed at a depth of **2-2.4 inches (5-6 cm)** for adults, and the mannequin should provide tactile feedback to indicate if the correct depth is achieved.
   - Compression feedback may include a **clicking sound** or other indicators to ensure the trainee knows when they've achieved the proper depth.
     - **Breathing and Airway Management**
   - The **airway** can be manually adjusted, allowing for practice in **head-tilt/chin-lift** and **jaw-thrust** techniques to open the airway, which are essential for performing effective mouth-to-mouth or mouth-to-nose rescue breathing.
   - The mannequin may include a **lungs mechanism** that simulates the rise and fall of the chest during ventilation, providing feedback on whether effective breaths are being delivered.
   - **Nasal and Oral Airways** are designed to simulate real-life airway obstruction and allow for proper ventilation practice.
4. **Anatomical Features**
   - **Cross-Section of Ribs:** The cutaway view reveals the **ribcage** and how chest compressions impact the ribs. This feature helps trainees understand how compressions interact with the internal anatomy and can help improve accuracy and confidence when performing CPR on real patients.
   - **Heart and Lungs:** The internal organs, such as the **heart** and **lungs**, may be visible to provide insight into how chest compressions affect circulation and airflow. In some models, the heart may visibly **contract** when proper compressions are performed, reinforcing the concept of circulation during CPR.
5. **Feedback and Performance Monitoring**
   - **Compression Depth and Rate Feedback:** The mannequin may include a feedback system that tracks the **rate** (100-120 compressions per minute) and **depth** of chest compressions. Feedback may be visual (lights) or auditory (clicks or sounds).
   - **CPR Feedback Devices:** Some advanced models are compatible with CPR feedback devices or apps that monitor and evaluate performance metrics, helping instructors assess and guide trainees more effectively.
   - **Replaceable Parts**
     - The chest and airway parts, as well as the **lungs**, may be replaceable to ensure proper hygiene and extend the life of the trainer mannequin.
     - **Simulated Skin:** The outer surface of the mannequin is typically made of durable, soft material resembling human skin, offering a realistic feel when performing CPR.
   - **Realistic Limb Movement**
     - The arms and legs of the mannequin can move naturally, simulating the proper positioning of the body during CPR. Some models allow for **two-person CPR** practice, where one person performs chest compressions while the other provides rescue breathing.
   - **Portability and Storage**
     - The mannequin is designed to be lightweight and portable, making it ideal for training in various settings, such as classrooms, workshops, or training centers.
     - **Carrying Case:** Most models come with a carrying case for easy transport and storage.
   - **Durability and Easy Maintenance**
     - The mannequin should be made from **high-quality, durable materials** that can withstand repeated use in training environments.
     - It should be easy to clean and sanitize, particularly in the airway and mouth areas where saliva or other fluids may be present.
     - Must comply with current CPR guidelines

90. CPR trainer Infant; Advanced infant CPR and nursing manniquin designed according to infant anatomical structure, imported material, flexible joints, soft skin, realistic and , realistic and vivid, size 64x20x34cm, 8kgs

- Realistic Anatomy
  - **Head, Neck, and Chest:** The mannequin should replicate the infant's anatomy, including a soft head, neck, and chest to mimic how an actual infant would feel when performing chest compressions and breaths.
  - **Airway:** The mannequin should have a realistic airway structure that simulates the resistance and feel of airway management during infant CPR. It should allow users to properly position the head and open the airway.
  - **Chest Compression:** The chest should be soft and flexible enough to allow realistic compression during CPR but firm enough to provide the correct resistance needed to teach effective chest compressions.
- Chest Rise and Fall (Ventilation Feedback)
  - **Lung Mechanism:** Many models include a mechanism that causes the chest to rise and fall when performing proper mouth-to-mouth or mouth-to-nose ventilation. This provides feedback to the user about whether the breaths are effective in inflating the lungs.
  - **Realistic Resistance:** The mannequin should offer appropriate resistance during chest compressions, indicating whether the compressions are being performed with the correct depth (approximately 1.5 inches or 4 cm for infants).
- Airway Opening
  - **Proper Head Tilt-Chin Lift:** The mannequin should allow for proper head tilt and chin lift techniques, crucial for opening the airway of an infant during CPR. The head should move freely to simulate the proper alignment.
- Feedback Mechanisms
  - **Compression Depth and Rate:** Some models include built-in feedback mechanisms to indicate whether the chest compressions are being performed at the right depth (approximately 1.5 inches or 4 cm) and rate (100-120 compressions per minute).
  - **Visual or Audible Feedback:** Some advanced mannequins provide feedback via lights, sounds, or digital displays that show if the proper CPR techniques are being followed, such as correct compression depth and proper breath delivery.
  - **CPR Dashboard:** Some mannequins come with a CPR feedback system or app that can track performance metrics, including compression depth, rate, and ventilation volume.
- Realistic Features
  - **Skin Texture:** Many CPR infant mannequins have soft, lifelike skin that provides a more realistic feeling when handling and performing CPR techniques.
  - **Flexible Limbs:** The limbs may be flexible to allow proper positioning during CPR (e.g., moving the arms for appropriate placement of hands during compressions).
  - **Eyes and Mouth:** The mannequin may have realistic eyes and mouth features, which help trainees practice opening the airway and performing rescue breathing.
- Replaceable Parts
  - **Mouth/Nose Piece and Airways:** Most infant CPR mannequins have replaceable airways and mouth/nose pieces to ensure hygiene and enable long-term use. These are typically simple to replace or sanitize between training sessions.
  - **Skin or Chest Inserts:** Some models offer replaceable skin or chest inserts to extend the mannequin's usability and maintain its lifelike feel.
- Training Scenarios
  - **Simulated Respiratory Distress:** Some mannequins can simulate conditions like respiratory distress or choking to practice infant CPR in different emergency situations.
  - **Two-Person CPR Training:** Some kits allow for two-person CPR practice, where one person administers chest compressions while the other provides rescue breaths.
- Portability and Storage
  - **Lightweight and Compact:** Many infant CPR mannequins are lightweight and easy to transport, making them ideal for training in various locations (e.g., classrooms, hospitals, or at home).
  - **Carrying Case:** Some models come with a carrying case for easy storage and portability.
- Safety and Durability
  - **Non-Toxic Materials:** Mannequins should be made from non-toxic, durable materials that are safe for frequent use and cleaning.
  - **Easy to Clean:** The mannequin should be designed for easy cleaning and sanitizing, especially for the mouth, airway, and skin surfaces, to ensure hygiene.

91.CPR trainer Child; Advanced hemibody resuscitation model, size 74*26*36cm

- **Weight:** 7 lbs. (for one manikin)

- **Dimensions**: 14 x 7 x 23 (for one manikin)
  Contents:
- 1 Prestan Child Manikin (OPTIONAL CPR Monitor)
- 10 Lung Bags
- Instruction Sheet
- 1 Nylon Carrying Case
- Color: skin
- Material: vinyl rubber, foam
- Red Light:1 to 50 compression per minute; Yellow Light:60 to fewer than 79 compression per minute; One green Light:80-99 compression per minute; Two green Lights:100 compression per minute

92. AED Trainer

- Mini AED trainer Model No: D0009. DC3.0V (2*AAA Battery)
- Power Supply: DC3.0V (2 x AAA battery)
- Product size: 100 x 80 x 18mm
- Shutdown Current: <20uA Max
- Maximum Operating Current: <350ma max

93. Hand paper towel dispenser Wall mounted

- Color: Brushed Nickel
- Installation: wall mounted
- Shape: Rectangular
- Suitable facial tissue amount 200pcs
  - * 3.9 * 11(L * W* H)

94. Tablet cutter plastic with stainless blade

- Material: Stainless steel blade
- Color: Blue
- Dimensions:8.8cm * 4cm *2.5cm
- Weight:0.05kg
- Plastic case with stainless steel blade
- Triangle for placing the tablet to be cut
- Compartment to receive the half tablet

95. Tea Spoon (10) Stainless steel

- Color: Silver
- Material: Stainless steel
- Dimension:6.7*L * 1.48W

96. Saucers (10) Stainless steel.

- Material: Stainless steel
- Size:7”
- Weight:250g

97. Water tumblers stainless steel

- Material: Stainless steel
- Color: Multi
- Dimensions:6.6 * 6.6 *22.86cm
- Weight:730g
- Capacity:500ml

98. Multi wound suture training block

- Suture practice model size 17.3cm*12.2cm*1.2cm
- Size: For external wounds 4-0, For internal wounds 7-0
- Length; 75cm
- Color: Clear
- Type: Curved
- Composite silicone material

99. Episiotomy suturing Simulators a set of 3

- Set Composition
    - Midline Suture Simulator
    - Left Mediolateral Suture Simulator
    - Right Mediolateral Suture Simulator
- Material: Silicon, strengthening mesh
- Dimensions: 20.5 * 13.5 * 6.5cm
- Weight: 0.553kg

100. Vaccine IM Injection Trainer Wearable design with an anti-piercing plate to prevent needle piercing through (a pack of 10)

- **Material:**
    - **Skin Layer:** Soft, flexible, and realistic materials like silicone or rubber that mimic human skin. This provides a lifelike surface to practice skin insertion.
    - **Muscle Layer:** A dense, firm inner layer simulating human muscle tissue, usually made of soft gel or foam, to provide resistance during the injection.
    - **Needle Insertion Simulation:** Some trainers include a material that offers realistic "resistance" to simulate the feeling of the needle penetrating through skin and muscle layers.
- **Anatomical Accuracy:**
    - Many IM injection trainers are designed to mimic various injection sites on the human body, such as:
        - **Deltoid (upper arm)** – Common for vaccines.
        - **Vastus Lateralis (thigh)** – Often used for pediatric or larger volume injections.
        - **Gluteus Medius (hip/upper buttock)** – Preferred for larger volume injections.
- **Injection Sites:**
    - Realistic anatomical landmarks (e.g., acromion for deltoid, iliac crest for the gluteus) help users practice identifying the correct location for the injection.

101: Injection training arm: skin and vein replacement kit black in colour

- **Material**:
    - **Silicone/Soft PVC**: The replacement skin and veins are typically made from high-quality, soft silicone or flexible PVC. These materials closely mimic human skin texture and elasticity while being durable enough for repeated use.
    - **Black Color**: The kit is specifically designed in black or darker shades to represent darker skin tones, enhancing the realism of the training experience for students learning to inject in diverse populations.
- **Components**:
    - **Skin Layer**: A replaceable skin layer that fits over the arm's underlying structure, mimicking the texture and feel of human skin. It may include details like wrinkles, pores, and general skin appearance to provide a more realistic surface for practicing injections.
    - **Veins**: Embedded or integrated into the skin layer, veins are usually made from a flexible material that allows for the practice of locating veins and performing venipuncture. The veins are designed to simulate real human veins, offering both tactile feedback and realistic injection simulation.
    - **Subcutaneous and Intramuscular Layers**: Some kits may include additional layers that simulate subcutaneous fat and muscle tissue beneath the skin to provide the full range of injection techniques (subcutaneous, intramuscular, and intravenous).

102. NOELLE S550 Maternal Care Patient Simulator with OMNI. Obstetric Manikin phantom with fetus & placenta

General Features

- Full-Body Simulator: Articulating full-body female model with realistic anatomy.
- Control System: Wireless OMNI® 2 tablet for scenario management, including play, pause, and reset functions.
- Airway Management:
    - Nasal/oral intubation (ETT/LMA).
    - Visible chest rise with bag-valve-mask ventilation.
    - Esophageal intubation capability.
- CPR Feedback: eCPR™ system for real-time monitoring of chest compressions and ventilations.
- Vascular Access:
    - IV training arm for bolus/infusion training.
    - Anterolateral thigh intramuscular injection sites.
- Pulse Points: Carotid, brachial, and radial pulses (manual squeeze bulb).
- External Maneuvers: Leopold maneuvers and external cephalic version training.

Labor and Delivery Features

- Birthing Mechanism:

    - Automatic delivery system supporting repeatable scenarios.
    - Programmable labor speed, fetal descent, and cervical dilation.
    - Supports multiple birthing positions.
- Delivery Scenarios:
    - Cephalic (vertex) deliveries with vacuum or forceps assistance.
    - Shoulder dystocia with visible "turtle sign" and maneuvers like McRoberts, suprapubic pressure, and Zavanelli.
    - Breech deliveries (frank, complete, footling) with maneuvers like Loveset and Mauriceau-Smellie-Veit.
- Placenta and Cord Management:
    - Placenta with removable fragments for retained placenta scenarios.
    - Simulates nuchal cord, cord prolapse, and true knots.
- Postpartum Features
    - Postpartum hemorrhage simulation with a 1-liter fluid reservoir.
    - Adjustable uterine tone and postpartum uterus with patent cervix.
    - Vulval inserts for postpartum suturing practice.
- **Neonatal Resuscitation**
    - Includes a full-term neonate with an intubatable airway and umbilical catheter site.
    - Neonatal respiratory distress modeling and resuscitation trainer.
- **Fetal Monitoring**
    - Virtual fetal monitoring (TOCO) with dynamic fetal heart rate (FHR) tracing.
    - Programmable FHR variability, accelerations/decelerations, contraction frequency/duration/intensity.
- **Accessories Included**
    - Articulating birthing baby with palpable sutures/fontanelle.
    - Two dilating cervices, two umbilical cords, clamps, lubricant.
    - Postpartum suturing kits with vulval inserts.
    - Carrying bag, power supply (100–240 VAC), user guide

103. Gaumard NOELLE S574 patient simulator General Nursing Manikin (SU SIE dark skin tone High fidelity)

- **Height: 5 feet, 9 inches (175 cm)**
- **Weight: 65 lbs (29 kg)**
- **Power Supply:**
- **Input: 100-240 VAC, 50/60 Hz, 2 A**
- **Output: 13 VDC, 9.2 A**
- **Battery Life: Up to 3 hours of tetherless operation; continuous operation possible on AC power**
- **Operating Temperature: Between 45°F to 95°F**

Features

- **Realistic Anatomy**: The simulator includes detailed anatomical features such as realistic neck, shoulder, elbow, hip, knee, and ankle articulation, allowing for various birthing positions including supine, semi-recumbent, and lateral positions.
- **Programmable Labor Scenarios**: Comes with a library of over 49 preprogrammed labor scenarios that can be customized. Users can change maternal or fetal conditions dynamically during simulations.
- **Delivery Mechanism**: Automatic birthing system simulates cardinal movements and descent during labor. It supports complex delivery scenarios such as breech births and shoulder dystocia.
- **Monitoring Capabilities**: Equipped with a touchscreen monitor that displays vital signs in real-time, including uterine activity and fetal heart tones. It can show multiple waveforms simultaneously.
- **Training Features**:
- Supports procedures like epidural placement and intubation.
- Simulates postpartum complications such as hemorrhaging and retained placenta.
- Includes realistic birth canal with dilating cervix for training in delivery techniques.

Additional Information

- **Environmental Requirements**: Operating temperature range is between 45°F to 95°F (7°C to 35°C).
- **Accessories**: The simulator comes with various accessories for enhanced training experiences, including lubricants specifically designed for use with the simulator

104. Gaumard NOELLE S574 patient simulator General Nursing Manikin (Medium fidelity)

General Specifications

- **Model**: NOELLE S574.100
- **Height**: 5 feet, 9 inches (175 cm)
- **Weight**: 65 lbs (29 kg)

- **Power Supply**: 100-240 VAC, 50/60 Hz, 2 A; operates on internal battery for up to 2 hours and 30 minutes when fully charged.
- **Connectivity**: Wireless (802.11) and wired options available for communication with monitoring systems.

Key Features

- **Interactive Simulation**: The simulator supports realistic obstetric scenarios including normal labor and delivery, shoulder dystocia, C-sections, and postpartum hemorrhage.
- **Vital Signs Monitoring**: Equipped with a touchscreen patient monitor that displays simulated vital signs in real-time, including maternal and fetal heart rates.
- **Programmable Functions**: Allows control over uterine activity such as contraction frequency, duration, intensity, and resting tone.
- **Realistic Anatomy**: Features include articulated limbs for various delivery positions, dilating cervix, and a mechanism to simulate fetal descent during labor.
- **Advanced Airway Management**: Supports intubation and advanced airway techniques for neonatal resuscitation.

Included Components

- **Control Tablet**: The UNI® 3 control tablet enables instructors to manage simulation scenarios effectively.
- **Accessories**: Comes with a variety of inserts for different clinical scenarios including umbilical cords, clamps, and an episiotomy repair kit.
- **Learning Materials**: Includes the Labor & Delivery Simulation Learning Experience Courseware package to enhance educational outcomes.

Environmental Requirements

- **Operating Temperature**: 45°F to 95°F (7°C to 35°C).
- **Storage Conditions**: Should be kept within recommended environmental parameters to maintain functionality

105. Manikin for cervical dilatation & effacement

Anatomical Accuracy:

- The manikin should accurately represent the anatomy of the female reproductive system, including the cervix, vagina, and pelvic area. It should allow for realistic simulation of cervical examination during labor.
- **Cervical Dilatation and Effacement Stages**:

The model must demonstrate multiple stages of cervical dilatation and effacement, typically ranging from no dilation (0 cm) to full dilation (10 cm). Many models feature six distinct stages for training purposes

- **Materials and Cleaning**:
  The surfaces of the manikin should be made from materials that do not require chemical sterilization, allowing for mechanical cleaning methods. A detailed training on cleaning and maintenance should be provided upon installation
- A complete set should include:
  - Multiple cervical simulation blocks or models (typically six) representing different stages of dilation.
  - An acrylic stand for display.
  - Instructional materials such as a user manual and demonstration guides.
  - Accessories like lubricants and cleaning solutions
- **Weight and Dimensions**:

Typical dimensions 33.2 in. x 7.2 in. x 5.3 in., with weights varying from approximately 6.8 kg (14.99 lbs) to 9.9 lbs

- **Training Features**:
  The manikin should allow for various training scenarios, including assessment of cervical position, consistency (soft, medium, hard), and fetal station adjustments during labor

It may also include features for simulating artificial rupture of membranes

- **Warranty and Support**:5 years
- **Portability**:
  The manikin should come with a hard carry case for easy transport and storage, ensuring it is suitable for use in various training environments

106. Obstetric manikin (PROMPT FLEX Birthing Simulator standard dark skin tone)

Overview

- **Type**: Anatomically correct birthing simulator
- **Model**: PROMPT FLEX Standard Dark Skin Tone
- **Manufacturer**: Laerdal Medical
- Dimensions and Weight
  - **Length**: 65 cm (25.9 in)

- **Width**: 46 cm (18.1 in)
- **Height**: 30 cm (11.8 in)
- **Weight**: 19.8 kg (43 lbs)

Key Features

- **Modular Design**: Allows for multiple training scenarios, including routine and non-routine deliveries.
- **Realistic Anatomy**:
- Gynaecoid pelvis with a soft, flexible birth canal.
- Dilatable cervix and pelvic floor musculature for enhanced realism.
- **Training Capabilities**:
- Simulates normal births, breech deliveries, shoulder dystocia management, and instrumental deliveries (forceps and vacuum).
- Supports hybrid simulation and stand-alone bench training.

Included Components

- **Birthing Mother**:
- Articulated thighs for demonstrating various birthing techniques.
- Handle on the base for operator use during simulations.
- **Enhanced PROMPT FLEX Standard Baby**:
- Represents a full-term infant with improved articulation for realistic handling.
- **Additional Items**:
- Placenta
- Abdomen for PROMPT FLEX
- Perineum and birth canal components
- PROMPT birthing lubricant
- Wheeled carry case for transportation

107. Baby for nurse training

1.Physical Characteristics:

- **Size and Weight:** Should mimic the size and weight of an average infant to enhance realism. weight 10 pounds, and dimensions similar to a newborn (18–22 inches in length).
- **Appearance:** Realistic skin tone, facial features, and hair. The body should have accurate anatomical features, such as a soft, flexible head, neck, arms, and legs.
- **Movability:** Should be able to mimic realistic movements (e.g., turning head, limbs, and making slight motions) to simulate real-life interaction.
- **Body Materials:** Soft, durable materials (e.g., silicone or vinyl) that resemble human skin and allow for repeated handling and nursing tasks.

2. Functional Features:

- **Breastfeeding Simulation:** The baby should be capable of simulating breastfeeding interactions. This includes a realistic mouth and latch system for practice.
- **Nursing Tasks:** The doll should allow students to practice essential nursing tasks such as diaper changing, bathing, positioning, feeding, and holding techniques.
- **Vital Sign Simulation:** Some models may include simulated heartbeats or breathing sounds to enhance realism for practicing assessments like temperature, pulse, or respiration monitoring.
- **Interactivity (optional):** Features like crying or moving to simulate infant needs, such as hunger or discomfort.

3. Safety and Durability:

- **Material Safety:** Must comply with international safety standards for child-safe materials, such as non-toxic, hypoallergenic substances.
- **Easy Cleaning:** The model should be easy to clean and disinfect, with removable and washable parts where necessary.

4. Training Scope:

- **Age Representation:** The baby should represent the age of a typical newborn or infant for the intended nursing tasks.
- **Diverse Scenarios:** May include optional add-ons for specific training scenarios, such as jaundice, colic, or other common infant conditions.
- **Realistic Behavior Simulation (optional):** Some advanced models might include features to simulate preterm birth or other specialized nursing training scenarios.

5. Training Support:

- **Instruction Manual:** Provide a detailed manual for instructors on how to use the baby model effectively in various training scenarios.
- **Compatibility with Educational Programs:** Ensure the product can be integrated into a broader nursing training curriculum.

- Should include a **removable belly covering** and **interchangeable genital organs** essential accessories like syringes, suction catheters, feeding tubes, urinary catheters, and a carrying bag, providing a comprehensive training experience,

108. **Neonatal resuscitation model (Newborn PEDI dark skin tone)**

- **Design**: Anatomically accurate, including realistic facial features, skin texture, and anatomical landmarks for proper chest compressions, intubation, and ventilation.
- **Color & Tone**: A dark-toned skin color to simulate a newborn with a darker skin tone, ensuring diversity and inclusivity in training.
- **Size**: Full-term newborn size, typically 48-53 cm in length and weighing around 2.5-4 kg.
- **Materials**: Durable, high-quality, medical-grade materials such as silicone or rubber for lifelike skin feel and resistance to wear.
- **Weight**: Realistic weight for ease of handling during training exercises (can include adjustable features to simulate variations in newborn weight).

Functionality & Features

- **Airway Management**: The model should allow for airway management tasks like intubation, suctioning, and placement of airway devices
- **Chest Compressions**: The torso should be responsive to chest compressions, providing realistic feedback such as chest rise and resistance.
- **Breathing & Ventilation**: Functional to simulate breathing during positive pressure ventilation (PPV) or bag-valve-mask (BVM) ventilation, with realistic chest rise and lung inflation.
- **Circulation**: The model should feature a palpable pulse for training in resuscitation and CPR techniques.
- **Simulated Response**: Adjustable heart rates, breathing patterns, and pulse rates to mimic clinical scenarios, including bradycardia, tachycardia, and normal vital signs.
- **Invasive Procedures**: Capability for umbilical line insertion, intraosseous needle insertion, and other emergency procedures.

Durability & Maintenance

- **Longevity**: Designed for repeated use in training environments, with parts that are easy to clean and maintain.
- **Replaceable Components**: Anatomical parts should be replaceable to prolong the life of the model.
- **Cleaning**: Non-porous, easy-to-clean materials with removable and washable parts for hygienic use in training settings.

Training Features

- **Feedback Mechanism**: Integration with electronic systems or app-based platforms to provide feedback on CPR quality, ventilation effectiveness, and other resuscitation techniques.
- **Realistic Sounds**: Incorporation of realistic sounds such as heartbeats, lung sounds, and crying to simulate various neonatal conditions.
- **Scenario-based Training**: Ability to simulate a wide range of neonatal emergencies, from birth asphyxia to cardiac arrest and neonatal respiratory distress.

Compatibility & Support

- **Training Equipment**: Compatible with external equipment such as bag-valve-masks, defibrillators, and neonatal resuscitation kits.
- **Training Programs**: Support for standard neonatal resuscitation programs (NRP) and certification courses.
- **Technical Support**: Availability of technical support for repairs, upgrades, and troubleshooting.

Regulatory Compliance

- Compliance with safety standards certifications

109. ZOE Gynecological skills trainer (dark skin tone) S504.200 Gynaecologic Trainer

Anatomy

- Adult-sized female lower torso: diaphragm to upper-quadriceps
- Smooth and supple skin
- Available in light, medium, and dark skin tones at no additional cost
- Bony landmarks including ischial spines and coccyx
- Patent rectum for suppository administration

Gynecologic

- Vaginal introitus facilitates placement of female condom or diaphragm
- Removable and interchangeable cervices for visualization of normal and abnormal physiologies
    - Normal parous
    - Polyp
    - Erosion
    - Nabothian cyst
    - Purulent cervicitis

        - Carcinoma
    - Lifelike uteri and cervices structure for bimanual examinations
        - 6-8 week pregnant
        - 6-8 week pregnant with shortened ligaments
        - 10-12 week pregnant
        - 20 week pregnant
        - Non-pregnant anteverted
        - Non-pregnant retroverted
    - Realistic fallopian tubes and ovaries for visualization and occlusion practice
    - Pre-cut openings in non-pregnant abdomen permit minilaparotomy procedures
    - Patent cervices and uterus opening allow passage of real instruments for procedures like uterine sounding
- Package Contents
        - ZOE Gynecologic Torso
        - Non-pregnant abdomen
        - Anteverted uterus
        - Retroverted uterus
        - Clear IUD uterus
        - Pregnant uteri: 6-8 weeks, 6-8 weeks w/ short ovarian ligaments, 10 12 weeks, 20 weeks
        - Normal patent cervices
        - Abnormal cervices
        - Pregnant cervices: (3) 6-8 weeks, (3) 10-12 weeks • Urine kit • Instruction manual

110. **Breast model (Breast Examination Trainer- Advanced dark skin tone) included**
    - Set of Lymph Node Pads and Lymph Nodes (1)
    - Set of Breast Examination Pathologies (1)
    - Breast Examination Inserts (2)
    - Breast Pathologies Supports (2)
    - Breast Back Plates (2)
    - Breast Examination Torso (1)
    - Wearable Examination Breasts (1)
    - Length: 66 cm / 25.9 in
    - Width: 31 cm / 12.2 in
    - Height: 51 cm / 20.1 in
    - Weight: 6.6 kg / 14.5 lb

111. Implant model (RITA- Reproductive Implant Training Arm Dark skin tone)
- Compact simulator for inserting and removing Levonorgestral (Norplant®) implants
- Consists of upper left arm on base
- Soft arm inserts simulate soft arm tissue
- Soft foam insert can be rotated 360°, allowing multiple insertion exercises
- Includes 5 tubular inserts, 1 extra latex skin, and instructions

112. Penile Model

Intended Use:
- **Medical Training**: To assist in teaching anatomy, diagnostic methods, or surgical techniques.
- **Patient Education**: For demonstration of conditions, treatments, or procedures.
- **Surgical Planning**: For use in pre-surgical consultation or simulation.

Material Specifications:
- **Durability**: The model should be made of durable, high-quality materials (such as silicone, rubber, or plastic) that mimic the texture, elasticity, and anatomical features of real tissue.
- **Realism**: The model should replicate the physical properties (texture, flexibility) and appearance (color, shape, size) of human tissue.
- **Non-toxic & Hypoallergenic**: Materials should be safe for use in medical settings and free of harmful substances.
- **Temperature Resistance**: Capable of withstanding varying temperatures, particularly for models that may simulate procedures involving thermal applications.

Design Features:
- **Anatomical Accuracy**: The model should accurately represent the male genital anatomy, including the penis, urethra, and surrounding structures such as the scrotum.

- **Modular Design**: Some models may have removable parts (e.g., internal structures) to facilitate detailed education or surgery planning.
- **Color and Texture**: A realistic skin texture and color to aid in visualization for medical professionals or patients.
- **Size Variability**: Available in various sizes to represent a range of anatomies or conditions.

Functional Features:

- **Simulation of Common Pathologies**: Features that allow the demonstration of common conditions such as erectile dysfunction, Peyronie's disease, or penile implants.
- **Insertable Components**: For some models, the inclusion of insertable components like catheters, prosthetics, or models for surgical training (e.g., penile implants or circumcision procedures).
- **Interactive Elements**: Some models may include mechanisms for simulating functions like erection, ejaculation, or catheterization.
- **Simulated Tissue Feel**: The model should allow users to practice surgical or diagnostic procedures with realistic feedback.

Ease of Use:

- **Cleanability**: The model should be easy to clean and maintain, especially in medical or educational environments where hygiene is important.
- **Lightweight and Portable**: Depending on its purpose, the model should be easy to transport or handle in training settings.

Safety and Compliance:

- **Non-toxic, Medical Grade Materials**: Compliance with standards for medical or educational tools, such as ISO or FDA standards.

113. Bony pelvis model MVA

Model Type and Purpose

- **Type**: Anatomically accurate, full bony pelvis model (complete with femoral head and sacrum) designed for trauma assessment, teaching, and simulation in MVA scenarios.
- **Purpose**: To simulate fractures, dislocations, and trauma related to motor vehicle accidents, focusing on pelvic injuries.

Material

- **Construction**: High-quality, durable materials (e.g., medical-grade PVC, ABS, or synthetic bone resin) that closely resemble human bone in terms of texture, weight, and fragility.
- **Flexibility**: Flexible enough to demonstrate fractures and dislocations, yet durable for long-term use.
- **Finish**: Surface finish should simulate the texture and appearance of human bone (e.g., slightly rough, matte finish).

Size and Dimensions

- **Realistic Proportions**: The model should accurately replicate the average adult human pelvic bone structure in size and proportions.
    - Adult male/female dimensions to be provided based on intended use.
- **Modular Components**: The model may feature separable or movable parts (e.g., sacrum, iliac bones, pubis, femoral heads, and acetabulum) for ease of manipulation and fracture simulation.

Features

- **Fracture Simulation**: Capable of replicating common MVA-related injuries such as:
    - Pelvic fractures (e.g., pubic rami fractures, sacral fractures, acetabular fractures).
    - Dislocations and misalignments.
    - Soft tissue simulation for ligament or muscle attachment representation (optional).
- **Realistic Movement**: Includes joints or hinges to replicate the natural range of motion, particularly the sacroiliac joint and the acetabulofemoral joint.
- **Injury Representation**: Ability to simulate soft tissue damage, bone displacement, and fracture patterns associated with significant trauma (e.g., high-impact motor vehicle accidents).
- **Visual Markings**: Anatomical landmarks and structures (e.g., iliac crest, pubic symphysis, sacrum) should be clearly indicated or painted for clear visualization.
- **Modularity**: The pelvis model should be designed for easy assembly, disassembly, or replacement of damaged parts.

Educational Utility

- **Interactivity**: Must be easily manipulated for educational scenarios, such as:
    - MVA trauma assessment training.
    - Demonstration of emergency response and medical interventions.
    - Injury simulation for fracture reduction and immobilization techniques.
- **Compatibility with Software**: (Optional) Ability to integrate with simulation software or diagnostic tools for virtual or augmented reality setups.

Durability and Maintenance

- **Impact Resistance**: Capable of withstanding frequent handling during practical training and simulations without significant wear or damage.
- **Maintenance**: Easy to clean and maintain; materials should be resistant to degradation from regular handling or exposure to fluids commonly encountered in medical or trauma simulations.

Safety

- **Non-toxic**: The model should be made from non-toxic materials, meeting medical safety standards.
- **No Sharp Edges**: All edges should be smoothed to prevent injury during handling.
- **Skin/Tissue Simulation**: be paired with a soft tissue or skin overlay to simulate real-world injuries in a more lifelike manner.

Dimensions and Weight

- **Dimensions**: height of approximately 25–30 cm and a width of 20–25 cm.
- **Weight**: Typically weighs around 2–4 kg, with weight distribution approximating that of a human pelvis.

Compliance and Standards

- The model should meet any relevant medical, educational, or industry standards (such as ISO, CE marking, or ASTM).

114. **Female condom model FC2**

Specifications

- **Length**: Approximately 170 mm to 190 mm.
- **Width**: 75 mm (nominal diameter).
- **Thickness**: Typically, around 0.05 mm, designed for strength and flexibility.
- **Shape**: Flexible, with a closed-end ring that fits over the cervix and an open-end ring for external placement over the vaginal opening.
- **Packaging**: Usually comes individually sealed in a pouch to maintain sterility and ensure safe storage.
- **Safety Certification**: Must comply with international health and safety standards such as ISO 4074 (female condom standard), and may have certifications from regulatory bodies like the World Health Organization (WHO), the U.S. Food and Drug Administration (FDA), and others.
- **Durability**: Expected to have a shelf life of around 5 years with proper storage conditions (e.g., in a cool, dry place).

115. **Perineal repair model AR312 Episiotomy suturing**

- **Purpose**: Designed to simulate the perineal region for practicing episiotomy and perineal repair techniques.
- **Material**: Typically made from high-quality silicone or thermoplastic elastomer to replicate human tissue feel and behavior during suturing.
- **Features**:
  - Anatomical accuracy for realistic training.
  - Reusable with the ability to simulate skin, muscle, and vaginal wall layers.
  - It may include features like rectal and vaginal openings for realistic training in suturing and wound management.
  - Includes detailed anatomical markings for correct placement of sutures.
- **Dimensions**: Size and shape should approximate a standard human perineal region.
- **Realism**: Should have skin, subcutaneous tissue, and muscle layers to closely replicate real-world anatomy.
- **Suture Simulation**: The material should allow sutures to be placed and removed repeatedly without significant wear, making the model durable for numerous training sessions.
- **Vaginal Opening**: For practice in episiotomy incision and closure, as well as other related procedures.
- **Ease of Cleaning**: The surface should be easily cleaned with appropriate disinfectants to maintain hygiene standards.
- **Portability**: Should be lightweight and portable for use in various training environments (e.g., clinics, simulation labs)

116 **Uv (Ultraviolet-visible) vis spectrophotometer**

- PC based Eco-friendly high performance, double beam Spectrophotometer with proprietary LoRay
- Light diffraction grating for unmatched optical specifications with Windows-based 32/64- bit UV Software for operation on 220V / 50Hz
- Proprietary Lo-Ray-Light grade blazed holographic diffraction grating with Czerny-Turner monochromator design for ultra-low stray light.

- Wavelength range from 185 nm to 900 nm which can be expandable to Near Infra-Red range up to 1,400nm with integrating sphere attachment.
- Variable spectral bandwidth selection from 0.1nm to 5nm and L2/L5 for low stray light mode for critical samples. Excellent wavelength reproducibility ±0.05 nm or better
- Resolution 0.1 nm
- Mode: Abs, %T, %R,
- Photometric range:-5 to 5 Abs
- Stray light: Max. 0.005 %T (220 nm NaI) or better
- noise level 0.00003 Abs RMS (500 nm) or better
- Two independent high energy sources, D2 and Tungsten for better energy throughput.
- High Dynamic range and linearity through extended photometric range.
- Built in Validation program complying with all Pharmacopoeias.
- 32bit UV Probe software (Window Professional compatible) includes – Spectrum, Data processing, Multitasking Photometric, Kinetics and time course, Report Generation and Inspection mode.
- Wavelength slew rate: 14000 nm/min or better ¬ Wavelength scan rate: 4000 to 0.5 nm/min or better
- UV 10mm Cell GS Kit includes 10 mm Quartz UV cells, 3.5mL and 1 mL cuvette Matched Pair (With transmission certificate) and Micro fiber Cleaning Cloth.
- Integrating Sphere by combining the 0 deg / 8 deg incidence angle integrating sphere with the S/R exchange function of the spectrophotometer, diffuse and specular reflectance measurements are possible without using any special attachments.
- The system should be equipped with two detectors: a photomultiplier tube and an InGaAs detector with following the parts Sphere attachment
    - Solid Sample Holder – 1 no.
    - Thin Film Attachment – 1 no

- **Applications**: Used in laboratories for filtering solvents, chemicals, and other liquids to remove particulate matter or microorganisms.
    - **Filter Compatibility**: Should support various filter membranes such as nylon, PTFE, PES, or cellulose acetate.
    - **Vacuum Pressure Rating**: Unit should handle a vacuum pressure range of -0.9, ensuring the system can filter under controlled vacuum conditions.
    - **Funnel Shape**: Conical or cylindrical for optimal flow and filtration efficiency.
    - **Volume Capacity**: 1000 mL or 1L capacity to allow large volume filtration.
    - **Outlet Size**: Appropriate outlet for attaching tubing (e.g., ¼" or ½" tubing compatible).
    - **Reusable Components**: such as a funnel and collection flask.
    - **Ergonomic Design**: Should have easy-to-handle components such as a secure lid or closure for filtering.
    - **Clear Markings**: Volume markings on the collection flask or funnel
- **Leak-proof Seal**: The system should have a secure sealing mechanism to prevent leaks during filtration.
- **Sterility Option**: Some units may require sterilization or be supplied in sterile packaging, depending on the use case.

117. Solvent filtration unit 1000 ml

- **Capacity: 1000 mL**
- **Material of Construction: PTFE for chemical resistance.**
- **Filter Type: Suitable for both sterile and non-sterile filtration to include membrane filters (0.22 µm)**

118. Digital colony counter 220V, 50 Hz

- For counting bacterial colonies.
- Features 11.5 cm (4.5") lens with 1.5x magnification to eliminate parallax erros; 40-watt tungsten bulbs to illuminate dark backgrounds;
- Wolffhuegel guide plate and 3-wire cord.
- Accomodates Stewart plates.
- Sheet metal case.
- Dimensions: 25 x 28 x 27 cm (10 x 11x 10.5").

- CSA certified. 220V
- Magnification: 113mm lens
- Includes: Colony counter, guide plate, Instructional manual and power cord

119. Viscometer

- Viscosity range cP(MPaS): 1 to 2M
- RPM: 0.3-100 or 0.3-200
- Accuracy of viscosity : ±1.0% of range • Repeatability : : ±2%
- Display Info: - Viscosity (cP or mPaS) - % Torque - Temperature (°C or °F)
- Analog/digital outputs for recording torque and temperature
- Temperature off-set capability to : ±1°C
- USB PC interface
- Optional: Adapter/accessory for measuring minimal viscosity ranges

120. Auto titrator 0.1-200ML

Titrator Capacity and Range
- **Volume Range**: 0.1 mL to 200 mL
- **Precision**: High accuracy resolution of 0.001 mL or better.

Titration Modes
- **Automatic Endpoint Detection**: Use of pH, conductivity, or color indicators
- **Multiple Titration Techniques**: Potentiometric, conductometric, or redox titrations.
- **Support for Various Titrants**: Compatible with a wide range of chemicals for titration.

Display & User Interface
- **Digital Display**: Clear and easy-to-read display, typically touchscreen.
- **Software Interface**: Should include pre-programmed methods, easy customization, and data export options.
- **Automatic Calibration**: Support for automatic calibration to ensure accurate titration.

Pump and Burette
- **Motorized Pump**: Precision motorized pump for accurate titrant dispensing.
- **Burette Size**: Should be able to accommodate titrant volumes from 0.1 mL to 200 mL.
- **Material**: Glass, PTFE
- **Flow Control**: Adjustable flow rates, 0.001 mL/min to several mL/min.

Safety Features
- **Leak Detection**: Ability to detect and prevent leaks during titration.
- **Overpressure Protection**: Ensure safe operation under pressure.
- **Automatic Shut-off**: If the titration reaches a predefined limit or endpoint.

Compatibility
- **Connectivity**: USB, Ethernet, or Wi-Fi
- **Power Supply**: Typically 100-240V AC with low power consumption.

Cleaning and Maintenance
- **Self-Cleaning**: Automated cleaning cycle
- **Low Maintenance**: Minimal user intervention required for long-term operation.

Software
- **Data Logging**: Ability to log titration results, including raw data, for reporting and analysis.
- **Method Storage**: The option to save and load different titration methods.
- **Compliance**: Should meet regulatory requirements Good Laboratory Practices

Size and Footprint
- **Compact Design**: Should be space-efficient for laboratory environments.
- **Portable Option**: Optionally portable for field use, if required.
- **Technical Support**: Access to customer support for troubleshooting and maintenance

121. **High performance liquid chromatograph system machine**

- **Pump**:
  - High-pressure, solvent delivery system with a wide flow range 0.001 to 10 mL/min.
  - Precision in pressure and flow rate control ≤ 0.1% RSD.
  - Capable of handling high pressure up to 6000 psi
- **Injector**:
  - auto-sampler with precise volume injection control.
  - Autosampler with a minimum capacity for at least 100-200 vials.
  - Variety of injection volumes 1-100 µL

- **Column Oven**:
  - Temperature control 100°C or higher.
  - Stability and uniformity in temperature regulation to ensure consistent analysis.
- **Detector(s)**:
  - UV-Vis detector (190-800 nm) for general applications.
  - Additional detectors
    - Refractive Index (RI) detector.
    - Fluorescence detector (for specific analyses).
    - Conductivity detector (for ion chromatography).
  - Sensitivity and linearity specifications ≤ 0.001 AU for UV-Vis).
- **Software**:
  - User-friendly, PC-based chromatography data system (CDS) with integrated software for method development, data acquisition, processing, and reporting.
  - Compliance with 21 CFR Part 11 for data security and audit trails if required.
- **Resolution**: Capability to resolve components with a minimum of 1.5
- **Precision**: System suitability with reproducibility ≤ 1% RSD for retention time and area.
- **Linearity**: High linearity for peak response, with a minimum of 0.999 correlation coefficient.
- **Sensitivity**: Low detection limits, < 1 ng for UV-Vis
- **Ease of Maintenance**: Easy access to parts, self-diagnostics, and built-in maintenance schedules.
- **Modularity**: The system should be modular to allow upgrades or additions of detectors, pumps
- **Compatibility**: System should be compatible with a variety of columns, solvents, and sample types.
- **Regulatory Compliance**: Should meet global regulatory standards GMP, FDA.
- **Safety Features**: Automated leak detection, solvent level monitoring, and safe handling features.
- **Training**: Provide on-site training for operators.
- **Warranty**: 1-year warranty with optional extended service contracts.
- **Installation**: Delivery, installation, and operational qualification.
- **Documentation**: Provide all relevant manuals, calibration certificates, and performance qualification reports.

122. Tintometer BCM-110

4. **Color Measurement Range:**
   - Designed for precise color measurement in various liquids, solids, and semi-solids.
   - Measurement is typically in color indices (Pt-Co, APHA, Hazen, or Gardner).
5. **Measuring Method:**
   - uses a spectrophotometric or visual method to assess color.
   - Measurement based on optical principles using a light source and a detector to analyse color.
6. **Display and Interface:**
   - Equipped with a digital display for easy reading of results.
   - a user-friendly interface, touchscreen
7. **Accuracy and Resolution:**
   - High precision with color accuracy d ±0.5–1 units.
   - Provides repeatable and reliable color measurements.
8. **Measurement Units:**
   - Hazen, APHA, and Pt-Co.
9. **Power Source:**
   - standard AC power or sometimes battery-operated for portability.
10. **Data Storage and Connectivity:**
    - options for storing test results for future reference.
    - data output options like USB, Bluetooth, or wired connections for integration with other systems.
11. **Calibration:**
    - pre-calibrated standards for quick and reliable results.
    - self-calibration function.
12. **Build and Design:**
    - Typically robust, compact, and portable.
    - a built-in sample compartment for ease of use.

- **Software Integration**: software for data analysis and reporting.
- **Additional Accessories**: options for sample vials, adapters, and calibration standards

123. Dissolved Carbon dioxide meter CarboQC At-line

- **Technology**: Infrared (IR) absorption, or membrane-based optical sensors
- **Measurement Range**: Typically, 0 to 1000 mg/L

- **Accuracy**: ± 1%
- **Resolution**: At least 0.1 mg/L.
- **Response Time**: Less than 1 minute
- **At-line Measurement**: Designed for measurement of dissolved CO2 at-line
  User Interface: Color touchscreen display with graphical data representation.
- **Data Logging**: Capability to store a certain number of measurements, with timestamp and operator input.
- **Calibration**: Automatic or manual calibration options, with a clear and easy calibration procedure.
- **Temperature Compensation**: Built-in compensation to account for temperature effects on CO2 concentration.
- **Sample Volume**: Typically low-volume (5-10 mL) per measurement cycle.
- **Sample Temperature Range**: 5°C to 40°C.
- **Pressure Requirements**: Standard atmospheric pressure or optionally pressurized sample conditions.
- **Sample Type**: Suitable for carbonated beverages, water, or similar fluids
- **Output Type**: digital (RS232, RS485)
- **Data Logging**: Capability to store measurements in internal memory or export to external systems (e.g., LIMS, SCADA).
- **Connectivity**: Options for connectivity to PLC or remote control.
- **Alarm Outputs**: Configurable alarms for high/low CO2 levels
- **Calibration Gas**: Compatibility with certified calibration gases for CO2 concentration
- **Cleaning**: Easy-to-clean sample chamber, ensuring minimal contamination.
- **Operating Temperature Range**: between 5°C and 45°C.
- **Humidity**: 0-90% non-condensing.
- **Enclosure Rating**: IP65 for protection against dust and water ingress.
- **Voltage**: Typically 100-240V AC,
- **Power Consumption**: Low-power consumption, typical for laboratory-grade instruments
- **Regulatory Compliance**: CE, UL, and other relevant certifications
- **Safety Standards**: Meets industrial safety standards for operation in factory or laboratory environments.
- **Dimensions**: Compact form factor suitable for benchtop
- **Weight**: Light enough for easy portability or setup.
  Warranty & Support:
- **Warranty** 1-year warranty

124. **Portable Dissolved Oxygen Meter OxyQC standard**

Features

- High-Resolution Optochemical Sensor
- Data Logger Function
- User-Friendly Interface
- Bluetooth and USB Connectivity
- Robust Design:
- Fast Measurement Time

Specs

- Measuring range 0.015 ppm to 45 ppm
- Repeatability (s.d). ±20 ppb (for <5 ppm)
- Reprocubility (s.d) ±50 ppb (for <15 ppm)
- Resolution 1 ppb
- Sample volume ~100 mL
- Sample temperature -3 °C to +40 °C
- Measuring Time per Sample ~50 seconds
- Power Supply AC 100–240 V, 50/60 Hz
- Data memory 500 measurement results
- Built-in support O_2 Data Logger, threshold value functionality, system check
- Portable use Up to 11 hours continuous use
- Communication interfaces 1x RS-232, 1x USB; optional: 1x RFID, 1x Bluetooth
- Accessories PFD (Plus), SFD, carrying strap, RFID tags, printer, rubber protection
- Protection class IP67
- Dimensions (L x W x H) 262 mm x 209 mm x 176 mm (10.3 in x 8.2 in x 6.9 in)
- Weight 1.7 kg (3.75 lbs)

125. **Water test photometers**

- Instrument Direct-reading colorimeter with automatic set-up and reading
- Wavelength Pre-programmed wavelengths of 450, 500, 550, 570, 600 and 650nm
- Display Touch screen backlit display. Test identification and prompts in foreign languages.
- Direct reading of results in mg/L, mmol/L or µmol/L (user selectable) Accuracy ±0.005 at 0.3au Resolution Transmittance resolution to 0.1% and absorbance resolution to 0.001au.
- User selectable Options Date format, display language, test, units, sample number, dilution, user I.D. and wavelength Memory 1,000 sample results can be stored in on-board memory and selectively recalled to screen Output Bidirectional communication with output to printer or computer via RS232 serial interface
- Test mode Automatic adjustment for round test tubes from 13 to 20mm diameter
- Mass, kg 1.65
- Dimensions [w x d x h], mm 290 x 240 x 90 Electrical supply Standard mains power, optional battery power through standard AA batterie

126. Water test strips 5 in 1

- Free chlorine Range 0-10 mg/L
- Total Chlorine Range 0-10 mg/L
- Total Hardness Range 0-25 gpg / 0-425 mg/L
- pH range 6.2 - 8.4
- Pack Size: 50 strips

127. Laboratory Incubator

- Temperature range: Ambient +5.0°C to 60.0°C
- Temperature control accuracy ±0.5°C of set point
- Temperature uniformity ±0.5°C
- Control type: Time proportionate digital / Microprocessor PID, Auto tune
- Temperature display: 3½ digit LED
- With motorized fan blower for air circulation
- Inner full-length acrylic door
- Input voltage: 230Volts AC, 50 Hz

128. Micro-titration equipment 50 mL

- titration, 50 ml, 230 Volt (EURO), with reagent recirculation-system, conformity certified,
- serial or USB interface, complete with thread A 45 mm, 3 adapters (A 32, A 38 and S 40),
- 1 screw coupled suction tube, 1 titration discharge unit and 1 power supply,
- Data Power Cable 0,75 m, instruction manual, individual certificate of performance, valve spanner. With touch screen module "titration

129. Electric Stirrer 40L homogenizer 100-2000rpm

- Mounting Type: Free Standing, Tabletop
- Power Source: Corded Electric
- Plug Type: US Standard
- Display Type: Digital Tube Screen
- Motor Type: DC Permanent Magnet Motor
- Time Range: 0-999min
- Maximum Mixing Volume: 40L/10.57gal
- Recommended Mixing Volume: 10L/2.64gal
- Motor Input Power: 120W
- Motor Output Power: 100W
- Voltage: 100-240V
- Frequency: 50/60HZ
- Speed Range: 100-2000rpm
- Speed Display Resolution: ±10rpm
- Speed Increase/Decrease: 10rpm
- Maximum Torque: 40N·cm
- Maximum Viscosity: 30000mPa.s
- Drill Clamping Diameter Range: 0.8-10mm/0.03-0.39in
- Protection Level: IP42

- Permissible Ambient Temperature: 5-40°C/41-104°F
- Permissible Ambient Humidity: 80%
- Motor Adjustment Range: 30-60cm/11.81-23.62in
- Power Cord Length: 1.5m/4.92ft
- Overall Product Size(L*H): 37*60cm/14.57*23.62in
- Package Size: 45*34.5*16cm/17.72*13.58*6.3in
- Gross Weight: 5.5kg/12.13lbs
- Net Weight: 5.25kg/11.57lbs

130. **Water bath**

Description

Thermostatically controlled; stores easily in any laboratory and comes with instructions.

- Durable, seamless, stainless-steel construction
- Tight-fitting polycarbonate lid
- Adjustable knob
- ON/OFF switch
- Material Stain steel
- Dimensions L x W x H 40.6 x 27.9 x 20.3 cm

Specifications:

- Capacity: 1.6L (1.56 qt.)
- Temperature range: 45° to 65°C (113° to 149F)
- Temperature Accuracy (with cover on): ±2°C (±4°F)

131. **Water distiller**

- **High purity distilled water** - conductivity approximate 2,5 µS/cm
    - Automatic water switching and power cut-off
    - Electronic water level switch
    - Automatic thermostatic cut-off safety system
    - Hearing element made of high quality stainless steel
    - All material contact water made of stainless steel AISI 304
    - Easily accessed evaporator tank for effortless cleaning and maintenance
    - The unit is suitable for both bench and wall mounting.
- All parts and tools for installation included.
- CE Certificate

132. **Sound level meter/Decibel meter PCE-MSL 1**

- **Measuring range:** 35-135 dB
- **Dynamic range:** 50 dB
- **Frequency range:** 31.5 Hz -8 kHz
- **Accuracy:** ±2 dB
- Frequency rating: A
- **Time rating:** fast: 125 ms
  slow: 1 sec.
- **Microphone type:** 1/2" Electret condenser microphone
- **Visual alarm limits:** >100 dB: display shows "HI"< 100 dB: display shows "LO"
- **Temperature measuring range:** -20 -70 °C / -4- 158 °F
- **Temperature accuracy:** ±1.5 °C / ±2.7 °F
- **Resolution:** 0.1
- **Data update:** 300 ms
- **Battery life:** <60 h
- **Automatic shutdown:** after 15 mins inactivity (can be deactivated)
- **Power supply:** 3 x 1.5 AAA batteries
- **Operating conditions**: 0 ... +60 °C / 32 ... 140 °F, 10 ... 90 % rel. humidity
- **Storage conditions:** 0 ... +60 °C / 32 ... 140 °F, 10 ... 70 % rel. humidity
- **Dimensions**: 144 x 56 x 30.5 mm / 5.6 x 2.2 x 1.2"
- **Weight**: 73 g / 2.5 oz

133. Noise Dosimeter GM1357

- **Measuring Level** 30~130dB (A)/35~130dB
- **Linearity Range**: 50dB / 100dB
- **Microphone:** 1/2" Electronic Condenser microphone
- **Level Range** 30 ~ 80, 50 ~ 100, 60 ~ 110, 30 ~ 130 dB
- **Resolution**: 0.1dB
- **Accuracy:** ±1.5 dB
- **Frequency Range**: 31.5Hz to 8.5KHz
- **Digital Display**: 5 Digits
- **Sample Rate**: 20 Times/sec
- **Over Indication**: **OVER/UNDER**
- **AC Signal Output:** 0.707Vrms/ full bar graph, output impedance is about 600ohm
- **DC Signal Output:** 10mV/dB,output impedance is about 100ohm
- **Power Supply:** 4 pcs AA 1.5V Batteries or DC 6V 100 mA
- **Packaging Details:**
  - Product Size 256*70*35mm
  - Product Weight 238g
  - Inner box Size 24.5*17.5*27.3cm(10PCS)
  - Outer box Size(1PCS) 26.5*8.5*6.4CM
  - Inner box weight (1pcs) 0.37KG

134. Bunsen Burner

- Total weight of the burner is about 350 g. Nickel plated brass burner tube with rotatable air regulator & cylindrical riffled connector, mounted on casted base. Burner tube 12.5 mm dia., base 75 mm dia., connector 10 mm o.d. For use with LPG / Butane gas.
  Burner Specifications: Tube Dia. - 12.5 mm, Height - 160 mm, Weight - 350 g.

135. Tripods 12 inches tall

- 12" tall circular tripod stand
- Made from plated mild steel
- Inner diameter: 2.5"
- Legs measure 5.5" apart

136. Hot Plate Stuart UC 150

- Glass ceramic150 x 150
- **Plate Dimensions, mm**
- **Heated Area, mm**120 x 120
- **Heater Power, Watt** 500
- **Max plate temp, °C**450
- **Contact thermometer socket**
- **Dimensions (w x d x h), mm**172 x 248 x 122
- **Net weight, kg 2.2**
- **Electrical supply**230V, 50Hz, 500W
- **IP Rating** 32

137. Ice Time cool box 6L

- **Model:** HJI-ICEBOX-003
- **Temperature**+2°C and +8°C, critical for vaccine storage.
  - It should be packed with ice packs and gel packs
- **Features**
- **Insulation:** Solid-walled construction provides effective insulation.
- **Monitoring:** Equipped with a probe linked to an external temperature display for continuous monitoring without opening the box. The thermometer should have an accuracy of ±0.5°C
- **Data logger**
- **Material:** Polyethylene
- **Dimensions**
  - Inner Dimensions: Approximately 26 cm (diameter) x 19 cm (height)
  - Outer Dimensions: Approximately 30 cm (diameter) x 23 cm (height)
  - Colour Blue

138. Freezer L2X-3-FM

- **Type:** Benchtop Laboratory Freezer
- **Capacity:** 2.5 cu. ft. (approximately 70.8 liters)
- **Temperature Range:** Adjustable set point from -10°C to -30°C, factory set at -20°C
- **Stability:** ±2.0°C from the set point
- **Defrost Type**: Manual defrost
- **Physical Dimensions**
  - Exterior Dimensions: 20.1" W × 20.9" D × 25.8" H
  - Interior Dimensions: 15.5" W × 15.5" D × 16" H
  - Weight: Approximately 94 lbs
- **Energy and Electrical Specifications**
  - Power Requirements: 120V, 60 Hz, 15 Amps
  - Energy Consumption: Approximately 0.75 kWh/day
  - Refrigerant: R600a (environmentally friendly)
- **Construction and Design**
  - Material: White powder-coated steel with CFC-free insulation
  - Door Type: Single solid door with magnetic seal
  - Shelving: Two adjustable epoxy-coated wire shelves
  - Alarm System: Audible and visual alarms for high/low temperatures
- **Operational Features**
  - **Controller:** Intelligent microprocessor with digital display and adjustable temperature control
  - **Interior Lighting**: LED lighting activated by door opening
  - **Locking Mechanism:** Keyed door lock for security
  - must be designed to operate continuously in high humidity (up to 90% at 35°C) and ambient temperatures of 5–40°C.
  - Must comply with electrical safety standards IEC 60601–1, UL 61010–1, EN 61010–1.

139. Photometric sensor UDT model 211

- **Type**: Illuminance Sensor Head
- **Calibration**: Standard calibrations are available in lux and foot-candles (fc).
- **Photometric Filter Accuracy**: Less than 1.0%.
- **CIE V(λ) Function Accuracy**: Less than f′1≤3%f′1≤3%.
- **Active Area**: 1 cm².
- **Dynamic Range**: 1.0×10−21.0×10−2 to 5.0×1055.0×105 lux.
- **Typical Response**: 3.2×10−93.2×10−9 A/lux at 555 nm

140. Safety Boxes

- **Performance Requirements**
  - **Functionality:** The box must securely contain contaminated sharps at the point of use, during temporary storage, and throughout transport to treatment facilities
  - **Nominal Capacity:** Each box should accommodate no less than 20 units of 0.5ml AD syringes per nominal liter of storage capacity
  - **Sharps Aperture:** Must allow for the insertion of syringes and needle assemblies of standard sizes (up to 20 ml). The aperture should be closable at any point to prevent needle-stick injuries
- **Safety Features**
  - **Resistance to Penetration**: Boxes must withstand a minimum penetration force of 12.5 N, with an average requirement of 15 N across samples
  - **Drop Test Compliance**: After undergoing drop tests, boxes should not allow syringes to fall out or sustain significant damage
  - **Stability**: Boxes must remain upright on a non-slip surface at a 15-degree incline without tipping over

141. Knap sack sprayers HD 550-20 LITRES

- **Tank Capacity**: 20 liters
- **Weight**:
  - Gross Weight: 4.98 kg
  - Liquid Weight: 4.32 kg
- **Pump Type**: Piston
- **Maximum Pressure**: 58 psi (4 bar)
- **Hose Length**: 1650 mm
- **Length of Launch**: 600 mm
- **Opening Diameter**: 105 mm
- **Material**: Polypropylene (UV-resistant)
- **Chamber Volume**: 900 ml
- **Dimensions**: Length - 190 mm, Width - 402 mm
- **Color**: white or blue
- **Should have** Adjustable Spray Nozzle padded shoulder straps and contoured back panel

142. Drainage Pipes

- **Dimensions and Sizes:**
  - Nominal Diameter (DN): DN 110 mm to DN 1000 mm (4" to 40")
- **Length:** 4 meters or 6 meters
- **Material Composition**:
  - High-quality PVC resin, often combined with stabilizers, lubricants, fillers, and color enhancers to enhance physical and chemical properties
- **Pressure Ratings:**
  - pressure classes including 4 bar, 6 bar, 9 bar, 12 bar, 16 bar, and 20 bar
- **Color Options:**
  - green for drainage applications; other colors like black, blue, or gray
- **Certifications:**
  - Compliance with international standards such as ISO 4435, ISO 4427, AS/NZS 4130, and BS EN 12201.
  - Certifications include CE Certification, ISO9001, ISO14001, and OHSAS 18001

143. Pyranometer sensor SR 100-D1

- **Measurement Range;** Solar radiation intensity (W/m^2)
- **Spectral Range**: 200 to 50,000 nm
- **Temperature Range:** Operating temperatures -40°C to +80°C
- **Weight and Dimensions:** 930 g dimensions 150 x 95 mm
- **Cable Length:** 10 m, facilitating installation in various setups
- **Compliance:**
  - IEC 61724-1:2021 for PV monitoring systems
  - ISO 9060:2018 classification as a spectrally flat Class B pyranometer

144. Drainage Fitments

- **Standard Elbows:** Fixed angles (90°, 45°, 180°), material Stainless Steel:
- **Multi-Port Drain Adapter:**
- **Material:** White PVC, 100% lead-free.
- **Inputs**: Options for 2, 4, or 8 ports, each with 1/2" female NPT threads.
- **Dimensions:** Diameter of 4 inches (10.16 cm) and height of 4 inches (10.16 cm).
- **Weight:** 7.6 oz (215.5 g).
- **Closed Nipples**:
  - No unthreaded area; both ends are fully threaded.
  - Used when two female fittings need to be connected tightly.
  - Commonly ordered by diameter and specified as "close" (e.g., 1/2" x close)
- **Open Nipples:**
  - Features male and female ends for connection.
  - Allows fluid flow without valves, facilitating easy installation
- **Weld Nipples:**
  - Lacks threads; connects via welding.
  - Suitable for high-pressure and vibration environments due to enhanced structural integrity

- PVC Tees comply with relevant standards such as BS1329 and BS1401
- multiple sizes ranging from small (e.g., 50mm) to large (up to 60 inches) diameters. Specific sizes include common dimensions like 200mm, 220mm, and 225mm for drainage applications

- -PVC Cross
- -PVC Union
- -Coupling

145. Quantum sensor SQ-205X

- **Voltage Output Range**: 0-5 V
- **Calibration Factor**: 0.8 µmol m−2−2 s−1−1 per mV
- **Power Supply**: 5-24 VDC
- **Sensitivity SQ-205X**: 1.25 mV per µmol m−2−2 s−1−1
- **Calibration Uncertainty**: ±5%
- **Measurement Repeatability**: <1%
- **Electromagnetic Compatibility (EMC)**: BS EN 61326-1:2013
- **Restriction of Hazardous Substances (RoHS)**: EU directives including 2002/95/EC and 2011/65/EU

146. Polarimeter POL-568

- **Key Specifications**
- **Measurement Range:**
  - Optical Rotation: ±90°
  - Sugar Degree: ±259° Z
- **Minimum Reading:**
  - 0.0001° for optical rotation
- **Accuracy:**
  - ±0.003° for optical rotation
  - ±0.004° for sugar degree
- **Repeatability:**
  - ≤0.002°
- **Light Source:**
  - High-brightness LED with a lifespan of up to 10,000 hours
- **Working Wavelength:**
  - 589.44 nm (Sodium D Spectrum)
- **Response Speed:**
  - 8°/s
- **Measurement Time:**
  - Approximately 26 seconds for six measurements
- **Temperature Control**
  - Built-in Temperature Control: Yes
  - Temperature Control Mode: Peltier
  - Temperature Control Range: 10°C to 50°C
  - Temperature Control Accuracy: ±0.2°C
- **Display and Interface**
  - Display Type:
  - 8-inch color dot matrix touch LCD
- **Operation System:**
  - Windows
- **Data Storage Capacity:**
  - 16 GB database
- **Communication Interfaces:**
  - USB, Ethernet, optional wireless card for internet access

147. Flame Photometer – FP910

- **Model:** FP910
- **Type:** Digital Flame Photometer
- **Control System:** Microprocessor controlled
- **Display:** 7-inch embedded color touch screen with graphical output for calibration and results
- **Dimensions:** 285 mm (L) x 255 mm (W) x 210 mm (H)
- **Weight:** 7.5 kg

- **Performance Features**
  - **Reproducibility:** Less than 1% coefficient of variation for consecutive samples.
  - **Calibration:** Capable of storing multiple calibration curves with user-defined standards.
  - **Flame System**: Operates on LPG with a dry oil-free air supply.
  - **Ignition System:** Automatic ignition with flame failure detection.
- **Connectivity and Output**
  - **Data Output**: RS-232C for external devices; can connect to printers via Centronics parallel interface.
  - **Software**: In-built software for data management and analysis.
- **Safety and Maintenance Features**
  - **Gas Control**: Adjustable knobs for precise control of gas flow.
  - **Safety Features:** Automatic gas cutoff, audible alarms, and modular gas supply system

148. Micropippettes eppendorff research plus

- **Multi-Channel Pipettes**
- **Ergonomic Design**: The pipettes are ultra-lightweight and designed to minimize hand strain, featuring a spring-loaded tip cone that reduces the force needed to attach tips, thereby lowering the risk of repetitive strain injuries
- fully autoclavable at 121 °C
- **Material Composition**: Made from Forton®, an organic polymer resistant to heat, chemicals, and abrasion
- **Volume Range**: 0.1 µL to 10 m
- **Tip Ejection Force** 3.6 N
- **Weight** 80 g
- **Display** Easy-to-read four-digit magnifying display

149. Eppendorff Micropippettes tips

- **Volume Range** 2-200 µl
- **Material:** High-quality polypropylene (PP) with good transparency.
- **Autoclavable:** Meet PCR clean standards, being free from RNase/DNase contamination

150. Suction machine lifecare

- **Capacity:** -710 Mmhg + 10 At 32-35 Lpm
- **Model Name/Number**. Lifecare Suction Machine.
- **Capacity.** -710 mmHg + 10 at 32-35 LPM.
- **Number Of Wheels**. Four.
- **Noise.** <50 dB A + 3 Almost Wishpers.
- **Vacuum Gauge.** 2.0 inch, 0-760 mmHg.
- **Power.** 220/230 V AC ,50 Hz, 1Ph.

151. Anatomy Full body mannequin (dual sex)

- **Dual Sex Anatomy:** Must include both male and female anatomical features
- **Dimensions and Weight:** 90 cm in height with a weight of approximately 15 kg, which is manageable for educational settings
- **Removable Parts:**
  - A minimum of 33 removable parts including; -
  - Head (2-part)
  - Brain (half)
  - Muscles (e.g., deltoid, biceps brachii)
  - Internal organs (e.g., lungs, heart, liver, kidneys)
  - Genital inserts (3-part female and 4-part male) for reproductive anatomy education

152. Skeletal system anatomy poster

- **Size:** 59.4 x 84.1 cm
- **Features:** Colorful anatomical poster detailing all the parts of the human skeleton.
  - 125 micron laminated and is printed on premium glossy (200 g) UV resistant paper with 2 sided lamination (75 micron). Able to be written on and wiped off with non-permanent markers.
- **Detailed illustrations to include:**
  - Anterior and posterior views of the skeleton.
  - Lateral views of the spinal column and skull.
  - Specific details of joints (e.g., knee joint, hand and foot ligaments)

- Additional illustrations may focus on components like auditory ossicles and vertebrae

153. Human body analyzer

- **Model:** MC-780 MA
- **Type:** Multi-frequency Segmental Body Composition Analyzer
- **Maximum Weight Capacity**: 270 kg
- **Graduation**: 0.1 kg
- **Dimensions:** 360 mm x 360 mm x 1165 mm
- **Weight:** 15.5 kg
- **Power Supply**: AC 100 ~ 240V
- **Operating System Compatibility**: Windows® OS
- **Warranty:** 5 years
- **Technical Features**
  - Electrodes: 8 electrodes for accurate readings.
  - Testing Time: Approximately 20 seconds for a complete analysis.
- **Connectivity Options:**
  - RS 232C, USB, SD Card for data output.
  - Compatible with Pictrbridge printers for detailed assessment sheets.
- **Data Storage**: Built-in SD card facility allows automatic data collection and downloading.
- **User Interface**: Dual display for easy reading of results; the screen should be rotatable for privacy during measurements.
- **Color**: Dark Grey

154. laboratory Flame photometer (FP8500)

- **Precision:**
  - Standard Precision: ±0.2% at specified concentrations.
  - Maximum Drift: ±1% over a period of 60 minutes.
- **Sample Volume:**2.5 ml.
- **Display and Interface:**
  - Should be Equipped with an 8.4-inch TFT touchscreen display (800x600 pixels) for easy operation.
  - Multiple connectivity options to include:
  - 2 x USB
  - 1 x Ethernet
  - 1 x RS-232 printer
  - Dimensions; Width: 47 cm; Height: 49 cm; Depth: 44 cm

155. Digital butryo refractometer

- **Model**: Atago PR-Butyro Digital Butyro Refractometer (Model 3454)
- **Precision:**
  - Resolution: 0.1 for Butyro, 0.0001 for RI.
  - Accuracy: ±0.5 for Butyro, ±0.0003 for RI (at 40°C).
- **Automatic Temperature Compensation (ATC):**
  - temperature range of 10°C to 50°C
- **Durability:**
  - IP64-rated: Dust-tight and splash-proof, suitable for industrial environments.
  - Dimensions: 17 cm x 9 cm x 4 cm
  - Weight: 300 g Power Supply: 006P dry battery (9V)
- **Screen Features:**
  - Display Type: LCD screen
  - Readability: Large font for easy visibility
  - Measurement Display: Simultaneously shows both Butyro and RI values
  - External Light Interference Function: to alert users when intense light may affect measurement accuracy.

1. List of Goods and Delivery Schedule

[The Procuring Entity shall fill in this table, with the exception of the column "Tenderer's offered Delivery date" to be filled by the tenderer]

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*]
[insert item No]	*[insert description of Goods]*	*[insert quantity of item to be supplied]*	*[insert physical unit for the quantity]*	*[insert place of Delivery]*	*[insert the number of days following the date of effectiveness the Contract]*	*[insert the number of days following the date of effectiveness the Contract]*	*[insert the number of days following the date of effectiveness the Contract]*
1.	Ergonomic office Chair Orthopaedic high back Chair nylon 5 star base fixed arms, black mesh back and black	1	NO				
2.	Water dispenser Hot and Normal with storage RM/417	1	NO				
3.	Hospital Cellular Blankets 4*6 (Blue in colour) cotton	10	pcs				
4.	Cellulose pillow cases 20 by 26 inches (51X56 cm)	18	PAIRS				
5.	Draw mackintosh 130 x 200 green rubber	4	Pcs				
6.	Bed covers Blue 4 by 6	4	pcs				
7.	Draw sheets T-180 white	10	pcs				
8.	Examination couch Couch height 610-810mm, Couch width 630mm, Couch Length 1850mm.	1	pcs				
9.	Patient locker Hospital bedside locker with table top 500 mm X530 mm X753 mm	4	pcs				
10.	Drip stand standard stainless steel	4	pcs				
11.	Ward linen Trolley With dirty linen carrier	2	pcs				

12.	Pedal bin 20L biohazard pedal bins	3	Pcs Red, black, yellow				
13.	Over bedside feeding table invacare 6418 with adjustable height	1	pcs				
14.	Ward Screen Movable, 4 fold	1	pcs				
15.	Examination light Movable LED	2	pcs				
16.	Medicine trolley PVC drug trolley with compartments	1	pcs				
17.	Medicine trolley Stainess steel with atleast 2 shelves	1	pcs				
18.	Stethoscope Original litman Classic II	2	pcs				
19.	Suction machine Folee double bottle	1	pcs				
20.	Diagnostic set Otoscope practioner fibre optic set	1	pcs				
21.	Diagnostic set Laryngoscope 5 blades set	1	pcs				
22.	Ophthalmoscope Complete set with spare lamp with color coded range of lenses from -20D to 40D	1	pcs				
23.	Ambubags Paediatric	1	pcs				
24.	Ambubags Adult manual rescusitator with mask	1	pcs				
25.	Mercury Clinical Thermometer model JDMS-72	6	pcs				
26.	Non Contact Forehead Gun, Medical Digital Thermometer for Fever, Clinical Detecting Body Temperature in Infants, Children and Adults	2	pcs				
27.	Wheelchair Adorned Foldable Standard	1	pcs				
28.	Walking cane mediline aluminium offset	1	pcs				
29.	Walker stainless steel folding walker 3.5 inches D X 18 inches W x 3.5 H	1	pcs				
30.	Elbow Crutches Closed Cuff LK933L. 97*54*52cm aluminimum	2	pcs				
31.	IS IndoSurgicals Seamless Stainless Steel Unisex Adult Bed Pan with Lid	2	pcs				

32.	Carex Health Brands Fracture Bed Pan	2	pcs				
33.	Fractured Bed Pad with covers	4	pcs				
34.	Urinal Bottle Male Urinals Portable Urine Bottle with Screw Lid 1200 ml Plastic Pee Bottles for Men	2	pcs				
35.	Spill-Proof Fracture Urinal from PrimeMed –Gold – High Volume Non stick Bedpans	2	pcs				
36.	Classic Turkish Cotton Soft 600 GSM White Luxury Bath Towel Set of 4-27" X 54	4	pcs				
37.	White Cotton Washcloth towel - 18 Count	4	pcs				
38.	Hospital gowns unisex patient gowns	6	pcs				
39.	Theatre gowns -(small, medium and large) round nech 3RD flap long sleeve	3	pcs				
40.	Plastic buckets, white,10 litres	3	pcs				
41.	Height and Weight Scale Electronic Weight Scale Home Precision Adult Health Scale	1	pcs				
42.	K-life Digital Baby Weighing Scale for Infant Toddler With Weight Upto 20kg	1	pcs				
43.	Oxygen cylinder medical oxygen cylinder with gas and key 8.5 m3	1	pcs				
44.	Oxygen delivery set flow meter with a regulator and a humidifier	1	pcs				
45.	Wash basins 10 L	3	NO				
46.	Extension Cable APC Surge Arrest Surge Protector 5 outlets 230V	3	NO				
47.	Langenback Retractor (1" blade width) stainless steel	1	NO				
48.	Morisson Retractor (2" blade width) stainless steel	1	NO				
49.	Doyen Retractor (3" blade width) stainless steel	1	NO				
50.	Malleable Retractor (1" blade width) stainless steel	1	NO				
51.	Sims Speculum small(27mm*29mm)	1	pcs				
52.	Cusco speculum large	2	pcs				
53.	Cusco speculum medium	2	pcs				
54.	Needle Holder 7" Sims	4	pcs				
55.	Artery Forceps Straight 8"	6	pcs				
56.	Artery Forceps Curved 8"	3	pcs				

57.	Mosquito artery forceps straight	6	pcs				
58.	Toothed Dissecting Forceps 6”	6	pcs				
59.	Dressing Forceps 5”	4	pcs				
60.	Sponge holding forceps 7”	2	pcs				
61.	Trochars 1 per procedure	5	Pcs				
62.	Surgical Theatre Gown with sleeves and cuffs Cotton (Medium size), Green in colour, Reusable	8	Pcs				
63.	Insect mounting pins 2 inchs	100	Pcs				
64.	Mayo Trolley with tray Stainless steel	2	Pcs				
65.	Mayo Stand Cover(76*145cm) Disposable	50	NO				
66.	Surgical Green Towels (16"*26") Cotton material	12	pcs				
67.	Surgical Green Towels (16"*26") Cotton material with a hole in the middle	8	NO				
68.	Dual Head Training stethescope Littmann Teaching stethecsope with diaphgram and bell	6	NO				
69.	Intramuscular Injection Simulator with audio feedback Upper arm manikin (black in colour)	10	NO				
70.	Intramuscular Injection Simulator with audio feedback Gluteus Muscle (black in colour)	10	NO				
71.	Box files office point with lever arch size 280mm *350mm	15	NO				
72.	Electric Hospital bed with mattress Model YA-D5-3 Multi Function 5 Position Medical Electric Bed	1	NO				
73.	White Cotton bedsheets 4*6 with pillow cases	10	PAIRS				
74.	Aneroid Sphygnomanometer Manual blood pressure machine without mercury	6	NO				
75.	Fingertip Pulse Oximeter Battery use	9	NO				
76.	Kidney Dishes Stainless steel 8"	8					
77.	Kidney Dishes Stainless steel 10"	8	Pcs				
78.	Gallipots stainless steel with lid 10 oz (without lid 4 oz)	8	pcs				
79.	Trays Stainless steel medium	5	pcs				
80.	Trays Stainless steel large	5	pcs				
81.	Bowls 8" Stainless steel	3	NO				

82.	Phlebotomy/Intravenous Infusion Practice Kit Venipuncture Nurse Training Blood Drawing Arm Model Kit IV Training Injection Arm Manikin(black in colour	10	NO				
83.	Instrument Trolley Strong stainless steel with two shelves and wheels	4	NO				
84.	Ampoule cutter file Stainless steel	10	NO				
85.	Hospital beds with mattress 3 cranks manual(complete with three pieces mechanical ABS cranks, four wheels and braking pedals, guard rails)	4	pcs				
86.	Pillows Medium sized covered with makintosh	9	pcs				
87.	Baby cot MDF with cot bumper and matress	1	Pcs				
88.	CPR trainer; Adult Half body cross section to the 6th rib CPR model, size 63x25x44cm, 8kgs, The crosssection is color painted to show different organs clearly and vivid. The full shape of the heart and lung showing the various movements on demonstration	1	Pcs				
89.	CPR trainer Infant; Advanced infant CPR and nursing manniquin designed according to infant anatomical structure, imported material, flexible joints, soft skin, realistic and vivid, size 64x20x34cm, 8kgs	1	Pcs				
90.	CPR trainer Child; Advanced hemibody rescusitation model, size 74*26*36cm	1	NO				
91.	AED Trainer; Mini AED trainer Model No: D0009. DC3.0V (2*AAA Battery) Power supply: Size: 100*80*18mm, Shutdown Current:<20 uA Max and Maximum Operating Current: <350 uA Max	1	NO				
92.	Hand paper towel dispenser Wall mounted	1	NO				
93.	Tablet cutter plastic with stainless blade	5	NO				
94.	Tea spoons(10) Stainless steel	10	NO				
95.	Saucers(10) Stainless steel	10	NO				
96.	Water tumblers Stainless steel	10	NO				

97.	Multi wound suture training block Suture practice model size 17.3cm*12.2cm*1.2cm	10	sets				
98.	Episiotomy suturing Simulators a set of 3	5	Pack				
99.	Vaccine IM Injection Trainer Wearable design with an anti-piercing plate to prevent needle piercing through (a pack of 10)	1	pcs				
100.	Injection training arm: skin and vein replacement kit black in colour	10	NO				
101.	NOELLE S550 Maternal Care Patient Simulator with OMNI. Obstetric Manikin ()phantom with fetus & placenta	1	Pcs				
102.	Gaumard NOELLE S574 patient simulator General Nursing Manikin (SU SIE dark skin tone High fidelity)	1	Pcs				
103.	Gaumard NOELLE S574 patient simulator General Nursing Manikin (Medium fidelity)	2	Pcs				
104.	Manikin for cervical dilatation & effacement	1	Pcs				
105.	Obstetric manikin (PROMPT FLEX Birthing Simulator standard dark skin tone)	1	Pcs				
106.	Baby for nurse training	1	Pcs				
107.	Neonatal rescusitation model (Newborn PEDI dark skin tone)	1	Pcs				
108.	ZOE Gynaecological skills trainer (dark skin tone)	1	Pcs				
109.	Breast model (Breast Examination Trainer- Advanced dark skin tone)	1	Pcs				
110.	Implant model (RITA- Reproductive Implant Training Arm Dark skin tone)	1	Pcs				
111.	Penile Model	1	Pcs				
112.	Bony pelvis model MVA	1	Boxes				
113.	Female condom model FC2	1	pcs				
114.	Perineal repair model AR312 Episiotomy suturing	1	No				
115.	UV Vis Spectrophotometer DR 6000	1	No				
116.	Solvent filtration unit 1000 ml	10	No				
117.	Digital colony counter 220V, 50 Hz	1	No				
118.	Viscometer 110-240V 1-100,000mPa.s	2	No				
119.	Auto titrator 0.1-200ML	3	No				

120.	High perfomance liquid chromatograph system machine ZT-HPLC-3A	1	No				
121.	Tintometer BCM-110	2	No				
122.	Dissolved Carbon dioxide meter CarboQC At-line	2	No				
123.	Portable Dissolved Oxygen Meter OxyQC standard	2	No				
124.	Water test photometers MD600	10	Boxes				
125.	Water test strips	5	No				
126.	Laboratory Incubator IN-Z18/IN-Z30	2	No				
127.	Micro-titration equipment 50 mLSKU: 9582050	3	No				
128.	Electric Stirrer 40L homogenizer 100-2000rpm	3	No				
129.	Water bath S94210	2	No				
130.	Water distiller DS 4000	2	No				
131.	Sound level meter/Decibel meter PCE-MSL 1	5	No				
132.	Noise Dosimeter GM1357	5	No				
133.	Bunsen Burner CH0086HD	10	No				
134.	Tripods 12 inches tall	10	No				
135.	Hot Plate Stuart UC 150	3	no				
136.	Ice Time cool box 6L	3	No				
137.	Freezer L2X-3-FM	2	No				
138.	Photometric sensor UDT model 211	1	No				
139.	Safety boxes	5	No				
140.	Knap sack sprayers HD 550-20 LITRES	20	No				
141.	Drainage pipes - assorted	100	No				
142.	Pyranometer sensor SR 100-D1	1	No				
143.	Drainage fitments - assorted	100	No				
144.	Quantum sensor QSPAR	1	No				
145.	Polarimeter POL-568	1	No				
146.	Flame photometer FP910	1	No				
147.	Micropippettes eppendorff research plus	6	Pkt				
148.	Eppendorff Micropippettes tips	3	No				
149.	Suction machine lifecare01	2	No				
150.	Anatomy Full body mannequin (dual sex) 816M102	2	No				

151.	Skeletal system anatomy poster 17.3 X 22.5 inches	4	no				
152.	Human body analyser BCA100	1	No				
153.	laboratory Flame photometer BLFP-501	1	No				
154.	Digital butryo refractometer J157HA	1	No				

2. List of Related Services and Completion Schedule

[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

3. Technical Specifications

3.1 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.

3.2 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.

3.3 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.

3.4 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.

3.5 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:

Item No	**Name of Goods or Related Service**	**Technical Specifications and Standards**
[insert item No]	[insert name]	[insert TS and Standards]

Detailed Technical Specifications and Standards [*insert whenever necessary*]. [*Insert detailed description of TS*]

4. Drawings

This Tendering document includes..... *[Insert "the following" or "no"]*

drawings. [If documents shall be included, insert the following List of Drawings].

List of Drawings		
Drawing No.	**Drawing Name**	**Purpose**

5. Inspections and Tests

The following inspections and tests shall be performed:..... *[Insert list of inspections and tests]*

PART 3 ~ CONDITIONS OF CONTRACT AND CONTRACT FORMS

SECTION VI - GENERAL CONDITIONS OF CONTRACT

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

4.3.1 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.

5.2 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 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].

SECTION VII - SPECIAL CONDITIONS OF CONTRACT

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: *[Machakos University]*
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 *INCOTERMS 2015*
GCC 8.1	For notices, the Procuring Entity's address shall be: Refer to Cover Page
GCC 10.4.2	The place of arbitration shall be ---------- (specify City and Country).
GCC 13.1	Details of Shipping and other Documents to be furnished by the Supplier are *[insert the required documents, such as a negotiable bill of lading, a non-negotiable sea way bill, an airway bill, a railway consignment note, a road consignment note, insurance certificate, Manufacturer's or Supplier's warranty certificate, inspection certificate issued by nominated inspection agency, Supplier's factory shipping details etc.].* The above documents shall be received by the Procuring Entity before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.
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: **A. Payment for Goods supplied from abroad:** Payment of foreign currency portion shall be made in *[insert currency of the Contract Price]* in the following manner: (i) **Advance Payment:** Ten (10) percent of the Contract Price shall be paid within thirty (30) days of signing of the Contract, and upon submission of claim and a bank guarantee for equivalent amount valid until the Goods are delivered and, in the form, provided in the Tendering document or another form acceptable to the Procuring Entity. (ii) **On Shipment:** Eighty (80) percent of the Contract Price of the Goods shipped shall be paid through irrevocable confirmed letter of credit opened in favour of the Supplier in a bank in its country, upon submission of documents specified in GCC Clause 12. (iii) **On Acceptance:** Ten (10) percent of the Contract Price of Goods received shall be paid within thirty (30) days of receipt of the Goods upon submission of claim supported by the acceptance certificate issued by the Procuring Entity.

	B. **Payment of local currency portion of a foreign Supplier shall be made in** Kenya shillings within thirty (30) days of presentation of claim supported by a certificate from the Procuring Entity declaring that the Goods have been delivered and that all other contracted Services have been performed. **C. Payment for Goods and Services supplied from within Kenya:** Payment for Goods and Services supplied from within Kenya shall be made in _____ *[currency]*, as follows: (i) **Advance Payment:** Ten (10) percent of the Contract Price shall be paid within thirty (30) days of signing of the Contract against an invoice and a bank guarantee for the equivalent amount and in the form provided in the Tendering document or another form acceptable to the Procuring Entity. (ii) **On Delivery:** Eighty (80) percent of the Contract Price shall be paid on receipt of the Goods and upon submission of the documents specified in GCC Clause 13. The bank guarantee shall then be released. (iii)**On Acceptance:** The remaining ten (10) percent of the Contract Price shall be paid to the Supplier within thirty (30) days after the date of the acceptance certificate for the respective delivery issued by the Procuring Entity.
GCC 16.5	The payment-delay period after which the Procuring Entity shall pay interest to the supplier shall be *[insert number]* days. The interest rate that shall be applied is *[insert number] %*
GCC 18.1	A Performance Security *["shall not" be required]* *[If a Performance Security is required, insert "the amount of the Performance Security shall be: [insert amount]* *[The amount of the Performance Security is usually expressed as a percentage of the Contract Price. The percentage varies according to the Procuring Entity's perceived risk and impact of non-performance by the Supplier. A 10% percentage is used under normal circumstances]*
GCC 18.3	If required, the Performance Security shall be in the form of: *[insert "a Demand Guarantee" or" a Performance Bond"]* If required, the Performance security shall be denominated in *[insert "a freely convertible currency acceptable to the Procuring Entity" or "the currencies of payment of the Contract, in accordance with their portions of the Contract Price"]*
GCC 18.4	Discharge of the Performance Security shall take place: *[insert date if different from the one indicated in sub clause GCC 18.4]*
GCC 23.2	The packing, marking and documentation within and outside the packages shall be: *[insert in detail the type of packing required, the markings in the packing and all documentation required]*
GCC 24.1	The insurance coverage shall be as specified in the Incoterms. If not in accordance with Incoterms, insurance shall be as follows: *[insert specific insurance provisions agreed upon, including coverage, currency and amount]*
GCC 25.1	Responsibility for transportation of the Goods shall be as specified in the Incoterms. If not in accordance with Incoterms, responsibility for transportations shall be as follows: *[insert "The Supplier is required under the Contract to transport the Goods to a specified place of final destination within* Kenya*, defined as the Project Site, transport to such place of destination in* Kenya*, including insurance and storage, as shall be specified in the Contract, shall be arranged by the Supplier, and related costs shall be included in the Contract Price"; or any other agreed upon trade terms (specify the respective responsibilities of the Procuring Entity and the Supplier)]*
GCC 25.2	Incidental services to be provided are: *[Selected services covered under GCC Clause 25.2 and/or other should be specified with the desired features. The price quoted in the Tender price or agreed with the selected Supplier shall be included in the Contract Price.]*
GCC 26.1	The inspections and tests shall be: *[insert nature, frequency, procedures for carrying out the inspections and tests]*
GCC 26.2	The Inspections and tests shall be conducted at: *[insert name(s) of location(s)]*

GCC 27.1	The liquidated damage shall be: [*insert number]* % per week
GCC 27.1	The maximum amount of liquidated damages shall be: *[insert number]* %
GCC 28.3	The period of validity of the Warranty shall be: *[365]* days (One Year) For purposes of the Warranty, the place(s) of final destination(s) shall be: *[insert name(s) of location(s)]* ***Sample provision*** GCC 28.3—In partial modification of the provisions, the warranty period shall be _____ hours of operation or _____ months from date of acceptance of the Goods or (_____) months from the date of shipment, whichever occurs earlier. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the Contract. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall, at its discretion, either: (a) make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with GCC 26.7, **or** (b) pay liquidated damages to the Procuring Entity with respect to the failure to meet the contractual guarantees. The rate of these liquidated damages shall be (_____). *[The rate should be higher than the adjustment rate used in the Tender evaluation under TDS 34.6(f)]*
GCC 28.5, GCC 28.6	The period for repair or replacement shall be: *[insert number(s)]* days.
GCC 33.6	If the value engineering proposal is approved by the Procuring Entity the amount to be paid to the Supplier shall be ___% (insert appropriate percentage. The percentage is normally up to 50%) of the reduction in the Contract Price.

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.

   a) The successful tenderer

      i) Name of successful Tender______________________________

      ii) Address of the successful Tender ______________________________

      iii) Contract price of the successful Tender Kenya Shillings____________________(in words ____________________)

   b) 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. For Tenders not evaluated, give one main reason the Tender was unsuccessful.
~~~~~~

S/No.	Name of Tender	Tender Price as read out	Tender's evaluated price (Note a)	One Reason Why Not Evaluated
1				
2				
3				
4				
5				

(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 NO. 2 ~ REQUEST FOR REVIEW

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 the Accepted Contract Amount of_____***[insert amount in numbers and words and name of currency]***, as corrected and modified in accordance with the Instructions to tenderers is hereby accepted by our Agency.

You are requested to furnish the Performance Security within 30 days in accordance with the Conditions of Contract, using for that purpose the of the Performance Security Form included in Section X, Contract Forms, of the Tendering 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 ___ 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.

[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.*

[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)
1.	Full Name		Directly---------- % of shares Indirectly---------- % of shares	Directly…….% of voting rights Indirectly----------% of voting rights	1. Having the right to appoint a majority of 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……....	1. Exercises significant influence or control over the Company body of the Company (tenderer) Yes -----No---- 2. Is this influence or control exercised directly or indirectly? Direct…….. Indirect……
	National identity card number or Passport number					
	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					

	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)
	National identity card number or Passport number		Directly----------- % of shares Indirectly---------- % of shares	Directly…… …….% of voting rights Indirectly---------- ---% of voting rights	1. Having the right to appoint a majority of 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…… ……...	1. Exercises significant influence or 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(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