

Dow University of Health Sciences



Bidding Documents

Single Stage – Two Envelope Procedure
As per Rule 46 (2) of SPPR, 2010

IFB / NIT No. DUHS/DP/2024/270 Dated 26 February 2024

**Procurement of Medical Equipment / Instruments
and Furniture / Fixtures
under ADP Scheme # 1101/2023-24
“Establishment of Trauma Center, BSL-3 Lab and
Provision of Support Services at OICD-DUHS”**

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Instructions to Bidders

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Instructions to Bidders

A. Introduction

1. Source of Funds

- 1.1 The Procuring agency has allocated funds / received / applied for loan / grant / federal / provincial / local government funds from the source(s) indicated in the bidding data in various currencies towards the cost of the project / schemes specified in the bidding data and it is intended that part of the proceeds of this loan / grant / funds / will be applied to eligible payments under the contract for which these bidding documents are issued.
- 1.2 Payment by the Fund will be made by procuring agency from university funds or only at the request of the Procuring agency and upon approval by the Government of Sindh., and in case of a project will be subject in all respect to the terms and conditions of the agreement. The Project Agreement prohibits a withdrawal from the allocated fund account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Federal Government / Sindh Government, is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Procuring agency shall derive any rights from the Project Agreement or have any claim to the allocated fund proceeds.

2. Eligible Bidders

- 2.1 This Invitation for Bids is open to all suppliers from eligible source as defined in the SPP Rules, 2010 (Amended upto date) and its Bidding Documents except as provided hereinafter.
- 2.2 Bidders should not be 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 agency to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation for Bids.
- 2.3 Government-owned enterprises in the Province of Sindh may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the Government of Sindh.
- 2.4 Bidders intend to enter into an agreement or under an existing agreement in the form of a Joint Venture (JV) or Consortium shall not be eligible, unless otherwise specified in the Bid Data Sheet.
- 2.5 Bidders shall not be eligible to bid if they are under a declaration of ineligibility for corrupt and fraudulent practices issued by any government organization in accordance with sub-clause 34.1.

3. Eligible Goods and Services

- 3.1 All goods and related services to be supplied under the contract shall have their origin in eligible source countries, defined in the SPP Rules, 2010 (Amended upto date) and its Bidding Documents, and all expenditures made under the contract will be limited to such goods and services.

3.2 For purposes of this clause, “origin” means the place where the goods are mined, grown, or produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

3.3 The origin of goods and services is distinct from the nationality of the Bidder.

4. Cost of Bidding

4.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Procuring agency named in the Bid Data Sheet, hereinafter referred to as “the Procuring agency,” will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. The Bidding Documents

5. Content of Bidding Documents

5.1 the bidding documents include:

- (a) Instructions to Bidders (ITB)
- (b) Bid Data Sheet
- (c) General Conditions of Contract (GCC)
- (d) Special Conditions of Contract (SCC)
- (e) Schedule of Requirements
- (f) Technical Specifications
- (g) Bid Form and Price Schedules
- (h) Bid Security Form
- (i) Contract Form
- (j) Performance Security Form
- (k) Manufacturer’s Authorization Form

.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at the Bidder’s risk and may result in the rejection of its bid.

6. Clarification of Bidding Documents

6.1 An interested Bidder requiring any clarification of the bidding documents may notify the Procuring agency in writing. The Procuring agency will respond in writing to any request for clarification of the bidding documents which it receives no later than five working days prior to the deadline for the submission of bids prescribed in the Bid Data Sheet. Written copies of the Procuring agency’s response (including an explanation of the query but without identifying the source of inquiry) will be sent to all interested bidders that have received the bidding documents.

7. Amendment of Bidding Documents

7.1 At any time prior to the deadline for submission of bids, the Procuring agency, for any reason, whether at its own initiative or in response to a clarification requested

by a interested Bidder, may modify the bidding documents by amendment.

- 7.2 All interested bidders that have received the bidding documents will be notified of the amendment in writing, and will be binding on them.
- 7.3 In order to allow interested bidders reasonable time in which to take the amendment into account in preparing their bids, the Procuring agency, at its discretion, may extend the deadline for the submission of bids.

C. Preparation of Bids

8. Language of Bid

- 8.1 The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Procuring agency shall be written in the language specified in the Bid Data Sheet. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the Bid Data Sheet, in which case, for purposes of interpretation of the Bid, the translation shall govern.

9. Documents Comprising the Bid

- 9.1 The bid prepared by the Bidder shall comprise the following components:
- a) a Bid Form and a Price Schedule completed in accordance with ITB Clauses 10, 11, and 12;
 - b) documentary evidence established in accordance with ITB Clause 13 that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted;
 - c) documentary evidence established in accordance with ITB Clause 14 that the goods and ancillary services to be supplied by the Bidder are eligible goods and services and conform to the bidding documents; and
 - d) bid security furnished in accordance with ITB Clause 15.

10. Bid Form

- 10.1 The Bidder shall complete the Bid Form and the appropriate Price Schedule furnished in the bidding documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.

11. Bid Prices

- 11.1 The Bidder shall indicate on the appropriate Price Schedule the unit prices (where applicable) and total bid price of the goods it proposes to supply under the contract.
- 11.2 **For goods offered within the purchaser's country**, prices indicated on the relevant Price Schedule shall be on delivered duty paid (DDP) and/or **For goods offered from outside the purchaser's country**, prices indicated on the relevant Price Schedule shall be on CFR / CNF / C&F / CPT – Karachi basis. The price of other (incidental) services, if any, listed in the Bid Data Sheet will be entered separately
- 11.3 The Bidder's separation of price components in accordance with ITB Clause 11.2 above will be solely for the purpose of facilitating the comparison of bids by the

Procuring agency and will not in any way limit the Procuring agency's right to contract on any of the terms offered.

- 11.4 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account, unless otherwise specified in the Bid Data Sheet. A bid submitted with an adjustable price quotation will be treated as nonresponsive and will be rejected, pursuant to ITB Clause 24. If, however, in accordance with the Bid Data Sheet, prices quoted by the Bidder shall be subject to adjustment during the performance of the contract, a bid submitted with a fixed price quotation will not be rejected, but the price adjustment would be treated as zero.

12. Bid Currencies

- 12.1 Prices shall be quoted in Pak Rupees unless otherwise specified in the Bid Data Sheet.

13. Documents Establishing Bidder's Eligibility and Qualification

- 13.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted.
- 13.2 The documentary evidence of the Bidder's eligibility to bid shall establish to the Procuring agency's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible country as defined under ITB Clause 2.
- 13.3 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Procuring agency's satisfaction:
- (a) that, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' Manufacturer or producer to supply the goods in the Procuring agency's country;
 - (b) that the Bidder has the financial, technical, and production capability necessary to perform the contract;
 - (c) that, in the case of a Bidder not doing business within the Procuring agency's country, the Bidder is or will be (if awarded the contract) represented by an Agent in that 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
 - (d) that the Bidder meets the qualification criteria listed in the Bid Data Sheet.

14. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents

- 14.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services which the Bidder proposes to supply under the contract.
- 14.2 The documentary evidence of the eligibility of the goods and services shall consist

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

- 14.3 The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings, and data, and shall consist of:
- a. a detailed description of the essential technical and performance characteristics of the goods;
 - b. 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 for a period to be specified in the Bid Data Sheet, following commencement of the use of the goods by the Procuring agency; and
 - c. an item-by-item commentary on the Procuring agency's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.
- 14.4 For purposes of the commentary to be furnished pursuant to ITB Clause 14.3(c) above, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring agency in its Technical Specifications, are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in its bid, provided that it demonstrates to the Procuring agency's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

15 Bid Security

- 15.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, a bid security in the amount specified in the Bid Data Sheet.
- 15.2 The bid security is required to protect the Procuring agency against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to ITB Clause 15.7.
- 15.3 The bid security shall be in Pak. Rupees and shall be in one of the following forms:
- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring agency's country, in the form provided in the bidding documents or another form acceptable to the Procuring agency and valid for thirty (30) days beyond the validity of the bid; or
 - (b) irrevocable encashable on-demand Bank call-deposit.
- 15.4 Any bid not secured in accordance with ITB Clauses 15.1 and 15.3 will be rejected by the Procuring agency as nonresponsive, pursuant to ITB Clause 24.
- 15.5 Unsuccessful bidders' bid security will be discharged or returned as promptly as possible but not later than thirty (30) days after the expiration of the period of bid

validity prescribed by the Procuring agency pursuant to ITB Clause 16.

- 15.6 The successful Bidder's bid security will be discharged upon the Bidder signing the contract, pursuant to ITB Clause 32, and furnishing the performance security, pursuant to ITB Clause 33.
- 15.7 The bid security may be forfeited:
- (a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form; or
 - (b) in the case of a successful Bidder, if the Bidder fails:
 - (i) to sign the contract in accordance with ITB Clause 32;
 - or**
 - (ii) to furnish performance security in accordance with ITB Clause 33.

16 Period of Validity of Bids

- 16.1 Bids shall remain valid for the period specified in the Bid Data Sheet after the date of bid opening prescribed by the Procuring agency, pursuant to ITB Clause 19. A bid valid for a shorter period shall be rejected by the Procuring agency as nonresponsive.
- 16.2 In exceptional circumstances, the Procuring agency may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The bid security provided under ITB Clause 15 shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid, except as provided in the bidding document.

17 Format and Signing of Bid

- 17.1 The Bidder shall prepare an original and the number of copies of the bid indicated in the Bid Data Sheet, clearly marking each "ORIGINAL BID" and "COPY OF BID," as appropriate. In the event of any discrepancy between them, the original shall govern.
- 17.2 The original and the copy or copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the contract. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.
- 17.3 Any interlineations, erasures, or overwriting shall be valid only if they are initialed by the person or persons signing the bid.
- 17.4 The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.

D. Submission of Bids

18 Sealing and Marking of Bids

- 18.1 The Bidder shall seal the original and each copy of the bid in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." The envelopes shall then be sealed in an outer envelope.

- 18.2 The inner and outer envelopes shall:
- (a) be addressed to the Procuring agency at the address given in the Bid Data Sheet; and
 - (b) bear the Project name indicated in the Bid Data Sheet, the Invitation for Bids (IFB) title and number indicated in the Bid Data Sheet, and a statement: “DO NOT OPEN BEFORE,” to be completed with the time and the date specified in the Bid Data Sheet, pursuant to ITB Clause 2.2.
- 18.3 The inner envelopes shall also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared “late”.
- 18.4 If the outer envelope is not sealed and marked as required by ITB Clause 18.2, the Procuring agency will assume no responsibility for the bid’s misplacement or premature opening.

19 Deadline for Submission of Bids

- 19.1 Bids must be received by the Procuring agency at the address specified under ITB Clause 18.2 no later than the time and date specified in the Bid Data Sheet.
- 19.2 The Procuring agency may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents in accordance with ITB Clause 7, in which case all rights and obligations of the Procuring agency and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

20 Late Bids

- 20.1 Any bid received by the Procuring agency after the deadline for submission of bids prescribed by the Procuring agency pursuant to ITB Clause 19 will be rejected and returned unopened to the Bidder.

21 Modification and Withdrawal of Bids

- 21.1 The Bidder may modify or withdraw its bid after the bid’s submission, provided that written notice of the modification, including substitution or withdrawal of the bids, is received by the Procuring agency prior to the deadline prescribed for submission of bids.
- 21.2 The Bidder’s modification or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of ITB Clause 18. by a signed confirmation copy, postmarked not later than the deadline for submission of bids.
- 21.3 No bid may be modified after the deadline for submission of bids.
- 21.4 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form. Withdrawal of a bid during this interval may result in the Bidder’s forfeiture of its bid security, pursuant to the ITB Clause 15.7.

E. Opening and Evaluation of Bids

22 Opening of Bids by the Procuring agency

- 22.1 The Procuring agency will open all bids in the presence of bidders' representatives who choose to attend, at the time, on the date, and at the place specified in the Bid Data Sheet. The bidders' representatives who are present shall sign a register evidencing their attendance.
- 22.2 The bidders' names, bid modifications or withdrawals, bid prices, discounts, and the presence or absence of requisite bid security and such other details as the Procuring agency, at its discretion, may consider appropriate, will be announced at the opening. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened to the Bidder pursuant to ITB Clause 20.
- 22.3 Bids (and modifications sent pursuant to ITB Clause 21.2) that are not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances. Withdrawn bids will be returned unopened to the bidders.
- 22.4 The Procuring agency will prepare minutes of the bid opening.

23 Clarification of Bids

- 23.1 During evaluation of the bids, the Procuring agency may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted.

24 Preliminary Examination

- 24.1 The Procuring agency will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
- 24.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Supplier does not accept the correction of the errors, its bid will be rejected, and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail.
- 24.3 The Procuring agency may waive any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.
- 24.4 Prior to the detailed evaluation, pursuant to ITB Clause 25 the Procuring agency will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, **such as** those concerning Bid Security (ITB Clause 15), Applicable Law (GCC Clause 30), and Taxes and Duties (GCC Clause 32), will be deemed to be a material deviation. The Procuring agency's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

- 24.5 If a bid is not substantially responsive, it will be rejected by the Procuring agency and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

25 Evaluation and Comparison of Bids

- 25.1 The Procuring agency will evaluate and compare the bids which have been determined to be substantially responsive, pursuant to ITB Clause 24.
- 25.2 The Procuring agency's evaluation of a bid will be on delivered duty paid (DDP) price inclusive of prevailing taxes and duties and/or on CFR / CNF / C&F / CPT – Karachi basis and will exclude any allowance for price adjustment during the period of execution of the contract, if provided in the bid.
- 25.3 The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with ITB Clause 11.2, one or more of the following factors as specified in the Bid Data Sheet, and quantified in ITB Clause 25.4:
- (a) incidental costs
 - (b) delivery schedule offered in the bid;
 - (c) deviations in payment schedule from that specified in the Special Conditions of Contract;
 - (d) the cost of components, mandatory spare parts, and service;
 - (e) the availability Procuring agency of spare parts and after- sales services for the equipment offered in the bid;
 - (f) the projected operating and maintenance costs during the life of the equipment;
 - (g) the performance and productivity of the equipment offered; and/or
 - (h) other specific criteria indicated in the Bid Data Sheet and/or in the Technical Specifications.
- 25.4 For factors retained in the Bid Data Sheet pursuant to ITB 25.3, one or more of the following quantification methods will be applied, as detailed in the Bid Data Sheet:
- (a) Incidental costs provided by the bidder will be added by Procuring agency to the delivered duty paid (DDP) price at the final destination.
 - (b) *Delivery schedule.*
 - (i) The Procuring agency requires that the goods under the Invitation for Bids shall be delivered at the time specified in the Schedule of Requirements which will be treated as the base, a delivery "adjustment" will be calculated for bids by applying a percentage, specified in the Bid Data Sheet, of the DDP price for each week of delay beyond the base, and this will be added to the bid price for evaluation. No credit shall be given to early delivery.
- or**
- (ii) The goods covered under this invitation are required to be delivered (shipped) within an acceptable range of weeks specified in the Schedule of Requirement. No credit will be given to earlier deliveries, and bids offering delivery beyond this range will be treated as nonresponsive. Within this acceptable range, an

adjustment per week, as specified in the Bid Data Sheet, will be added for evaluation to the bid price of bids offering deliveries later than the earliest delivery period specified in the Schedule of Requirements.

or

- (iii) The goods covered under this invitation are required to be delivered in partial shipments, as specified in the Schedule of Requirements. Bids offering deliveries earlier or later than the specified deliveries will be adjusted in the evaluation by adding to the bid price a factor equal to a percentage, specified in the Bid Data Sheet, of DDP price per week of variation from the specified delivery schedule.

(c) *Deviation in payment schedule.*

- (i) Bidders shall state their bid price for the payment schedule outlined in the SCC. Bids will be evaluated on the basis of this base price. Bidders are, however, permitted to state an alternative payment schedule and indicate the reduction in bid price they wish to offer for such alternative payment schedule. The Procuring agency may consider the alternative payment schedule offered by the selected Bidder.

or

- (ii) The SCC stipulates the payment schedule offered by the Procuring agency. If a bid deviates from the schedule and if such deviation is considered acceptable to the Procuring agency, the bid will be evaluated by calculating interest earned for any earlier payments involved in the terms outlined in the bid as compared with those stipulated in this invitation, at the rate per annum specified in the Bid Data Sheet.

(d) *Cost of spare parts.*

- (i) 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 Bid Data Sheet, is annexed to the Technical Specifications. The total cost of these items, at the unit prices quoted in each bid, will be added to the bid price.

or

- (ii) The Procuring agency 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 Bid Data Sheet. The total cost of these items and quantities will be computed from spare parts unit prices submitted by the Bidder and added to the bid price.

or

- (iii) The Procuring agency will estimate the cost of spare parts usage in the initial period of operation specified in the Bid Data Sheet, based on information furnished by each Bidder, as well as on past experience of the Procuring agency or other procuring agencies in similar situations. Such costs shall be added to the bid price for evaluation.

- (e) *Spare parts and after sales service facilities in the Procuring agency's country.*
The cost to the Procuring agency of establishing the minimum service facilities and parts inventories, as outlined in the Bid Data Sheet or elsewhere in the bidding documents, if quoted separately, shall be added to the bid price.
- (f) *Operating and maintenance costs.*
Since the operating and maintenance costs of the goods under procurement form a major part of the life cycle cost of the equipment, these costs will be evaluated in accordance with the criteria specified in the Bid Data Sheet or in the Technical Specifications.
- (g) *Performance and productivity of the equipment.*
- (i) Bidders shall state the guaranteed performance or efficiency in response to the Technical Specification. For each drop in the performance or efficiency below the norm of 100, an adjustment for an amount specified in the Bid Data Sheet will be added to the bid price, representing the capitalized cost of additional operating costs over the life of the plant, using the methodology specified in the Bid Data Sheet or in the Technical Specifications.
- or**
- (ii) Goods offered shall have a minimum productivity specified under the relevant provision in the Technical Specifications to be considered responsive. Evaluation shall be based on the cost per unit of the actual productivity of goods offered in the bid, and adjustment will be added to the bid price using the methodology specified in the Bid Data Sheet or in the Technical Specifications.
- (h) *Specific additional criteria indicated in the Bid Data Sheet and/or in the Technical Specifications.*

The relevant evaluation method shall be detailed in the Bid Data Sheet and/or in the Technical Specifications.

Alternative

25.4 Merit Point System:

The following merit point system for weighing evaluation factors can be applied if none of the evaluation methods listed in 25.4 above has been retained in the Bid Data Sheet. The number of points allocated to each factor shall be specified in the Bid Data Sheet.

[In the Bid Data Sheet, choose from the range of]

Evaluated price of the goods	60 to 90
Cost of common list spare parts	0 to 20
Technical features, and maintenance and operating costs	0 to 20
Availability of service and spare parts	0 to 20
Standardization	0 to 20
Total	100

The bid scoring the highest number of points will be deemed to be the lowest evaluated bid.

26 Contacting the Procuring agency

- 26.1 Subject to ITB Clause 23, no Bidder shall contact the Procuring agency on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Procuring agency, it should do so in writing.
- 26.2 Any effort by a Bidder to influence the Procuring agency in its decisions on bid evaluation, bid comparison, or contract award may result in the rejection of the Bidder's bid.

F. Award of Contract

27 Post-qualification

- 27.1 In the absence of prequalification, the Procuring agency will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB Clause 13.3.
- 27.2 The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 13.3, as well as such other information as the Procuring agency deems necessary and appropriate.
- 27.3 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event the Procuring agency will proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.

28 Award Criteria

- 28.1 Subject to ITB Clause 30, the Procuring agency will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.

29 Procuring agency's Right to Vary Quantities at Time of Award

- 29.1 The Procuring agency reserves the right at the time of contract award to increase or decrease, the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.

30 Procuring agency's Right to Accept any Bid and to Reject any or All Bids

- 30.1 The Procuring agency reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Procuring agency's action.

31 Notification of Award

- 31.1 Prior to the expiration of the period of bid validity, the Procuring agency will

notify the successful Bidder in writing by registered letter or by cable, to be confirmed in writing by registered letter, that its bid has been accepted.

- 31.2 The notification of award will constitute the formation of the Contract.
- 31.3 Upon the successful Bidder's furnishing of the performance security pursuant to ITB Clause 33, the Procuring agency will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 15.

32 Signing of Contract

- 32.1 At the same time as the Procuring agency notifies the successful Bidder that its bid has been accepted, the Procuring agency will send the Bidder the Contract Form provided in the bidding documents, incorporating all agreements between the parties.
- 32.2 Within thirty (30) days of receipt of the Contract Form, the successful Bidder shall sign and date the contract and return it to the Procuring agency.

33 Performance Security

- 33.1 Within twenty (20) days of the receipt of notification of award from the Procuring agency, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract, in the Performance Security Form provided in the bidding documents, or in another form acceptable to the Procuring agency.
- 33.2 Failure of the successful Bidder to comply with the requirement of ITB Clause 32 or ITB Clause 33.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the Procuring agency may make the award to the next lowest evaluated Bidder or call for new bids.

34 Corrupt or Fraudulent Practices

- 34.1 The Government of Sindh requires that Procuring agency's (including beneficiaries of donor agencies' loans), as well as Bidders/Suppliers/Contractors under Government-financed or Procuring Agency-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the SPPRA, in accordance with the SPP Act, 2009 and Rules made thereunder:
- (a) defines, for the purposes of this provision, the terms set forth below as follows:
- (i) "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
- (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring agency, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial

non- competitive levels and to deprive the Procuring agency of the benefits of free and open competition;

- (b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- (c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a Government-financed contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a Government-financed contract.

34.2 Furthermore, Bidders shall be aware of the provision stated in sub-clause 5.4 and sub-clause 24.1 of the General Conditions of Contract.

Part One - Section II
General Conditions of Contract

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General Conditions of Contract

1. Definitions

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

- (a) “The Contract” means the agreement entered into between the Procuring agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- (b) “The Contract Price” means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.
- (c) “The Goods” means all of the equipment, machinery, and/or other materials which the Supplier is required to supply to the Procuring agency under the Contract.
- (d) “The Services” means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.
- (e) “GCC” means the General Conditions of Contract contained in this section.
- (f) “SCC” means the Special Conditions of Contract.
- (g) “The Procuring agency” means the organization purchasing the Goods, as named in SCC.
- (h) “The Procuring agency’s country” is the country named in SCC.
- (i) “The Supplier” means the individual or firm supplying the Goods and Services under this Contract.
- (j) “The Project Site,” where applicable, means the place or places named in SCC.
- (k) “Day” means calendar day.

2. Application

2.1 These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

3. Country of Origin

3.1 All Goods and Services supplied under the Contract shall have their origin in the countries and territories eligible under the rules and further elaborated in the SCC or Technical Specifications.

3.2 For purposes of this Clause, “origin” means the place where the Goods were mined, grown, or produced, or from which the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major

assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.

3.3 The origin of Goods and Services is distinct from the nationality of the Manufacturer / Supplier.

4. Technical Specifications

4.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin. Such standards shall be the latest issued by the concerned institution.

5. Use of Contract Documents and Information; Inspection and Audit by the Government

5.1 The Supplier shall not, without the Procuring agency's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring agency in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

5.2 The Supplier shall not, without the Procuring agency's prior written consent, make use of any document or information enumerated in GCC Clause 5.1 except for purposes of performing the Contract.

5.3 Any document, other than the Contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Procuring agency and shall be returned (all copies) to the Procuring agency on completion of the Supplier's performance under the Contract if so required by the Procuring agency.

5.4 The Supplier shall permit the Procuring agency to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the procuring agency, if so required.

6. Patent Rights

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

7. Performance Security

7.1 Within twenty (20) days of receipt of the notification of Contract award, the successful Bidder shall furnish to the Procuring agency the performance security in the amount specified in SCC.

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

7.3 The performance security shall be denominated in the currency of the Contract acceptable to the Procuring agency and shall be in one of the following forms:

(a) a bank guarantee or an irrevocable letter of credit issued by a reputable

bank located in the Procuring agency's country, in the form provided in the bidding documents or another form acceptable to the Procuring agency; or

(b) a cashier's or certified check.

7.4 The performance security will be discharged by the Procuring agency 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 SCC.

8. Inspections and Tests

8.1 The Procuring agency or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring agency. SCC and the Technical Specifications shall specify what inspections and tests the Procuring agency requires and where they are to be conducted. The Procuring agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

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

8.3 Should any inspected or tested Goods fail to conform to the Specifications, the Procuring agency may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Procuring agency.

8.4 The Procuring agency's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival in the Procuring agency's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Procuring agency or its representative prior to the Goods' shipment from the country of origin.

8.5 Nothing in GCC Clause 8 shall in any way release the Supplier from any warranty or other obligations under this Contract.

9. Packing

9.1 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. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, 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.

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

in the Contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the Procuring agency.

10. Delivery and Documents

10.1 Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in the Schedule of Requirements. The details of shipping and/or other documents to be furnished by the Supplier are specified in SCC.

10.2 Documents to be submitted by the Supplier are specified in SCC.

11. Insurance

11.1 The Goods supplied under the Contract shall be delivered duty paid (DDP) / CFR / CNF / C&F / CPT – Karachi under which risk is transferred to the buyer after having been delivered at consignees end or Karachi Port, hence insurance coverage is sellers responsibility.

12. Transportation

12.1 The Supplier is required under the Contract to transport the Goods to a specified place of destination outside and within the Procuring agency's country, transport to such place of destination in the Procuring agency's country, 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.

13. Incidental Services

13.1 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 agency's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

13.2 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 for other parties by the Supplier for similar services.

14. Spare Parts

14.1 As specified in SCC, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts

manufactured or distributed by the Supplier:

- (a) such spare parts as the Procuring agency may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
- (b) in the event of termination of production of the spare parts:
 - (i) advance notification to the Procuring agency of the pending termination, in sufficient time to permit the Procuring agency to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the Procuring agency, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

- 15.1 The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
- 15.2 This warranty shall remain valid for twelve (12) months or according to the requirement of extended warranty period 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 Contract. In any case this period shall not exceed six (06) months beyond the warranty expiration period from the date of taking over of goods by the procuring agency, unless specified otherwise in SCC.
- 15.3 The Procuring agency shall promptly notify the Supplier in writing of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring agency.
- 15.5 If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, within a reasonable period, the Procuring agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring agency may have against the Supplier under the Contract.
- 15.6 The provisions of this Clause include all the expenses that the bidder may have to incur for delivery and installation of such replacement parts, material and equipment as are needed for satisfactory operation of the goods at the consignees end.
- 15.7 During the period of warranty, the bidder shall remedy, at his / her expense all

defects in design, material and workmanship that may develop or are revealed under normal use of the goods upon receiving writing notice from the procuring agency; the notice shall indicate in what respect the goods are faulty.

- 15.8 The bidder shall provide warranty / guarantee for supply of reagents, kits and chemicals, consumables, films and ancillaries for at least 10 years (where applicable).
- 15.9 The bidder shall remain responsible for providing after sale services even after expiry of warranty / guarantee period and sign a Service Contract including parts or without parts with Procuring Agency for 05 years (minimum). Bidder shall separately quote the price of service contract (in terms of percentage) inclusive of parts and without parts, separately.
- 15.10 In case of consumable items, reagents, kits, chemicals, films etc. the contractor shall remain responsible for specificity, efficacy & sensitivity with maximum period of expiry as much allowed by manufacturer.
- 15.11 The Procuring Agency shall promptly notify the Bidder in writing of any claims arising out of this warranty.
- 15.12 The bidder shall be responsible to ensure the 95% uptime of the machinery / equipment during the warranty period.

16. Payment

- 16.1 The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.
- 16.2 The Supplier's request(s) for payment shall be made to the Procuring agency in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract.
- 16.3 Payments shall be made promptly by the Procuring agency, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier.
- 16.4 The currency of payment shall be in Pak. Rupees for Goods supplied from within the Procuring Agency's country on DDP basis and payment shall be made in Foreign Currency. through irrevocable letter of credit for Goods supplied from outside the Procuring Agency's country on CFR / CNF/ C&F / CPT Karachi Basis.

17. Prices

- 17.1 Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in SCC or in the Procuring agency's request for bid validity extension, as the case may be.

18. Change Orders

- 18.1 The Procuring agency may at any time, by a written order given to the Supplier

pursuant to GCC Clause 31, 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 agency;
- (b) the method of shipment or packing;
- (c) the place of delivery; and/or
- (d) the Services to be provided by the Supplier.

18.2 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 delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Procuring agency's change order.

19. Contract Amendments

19.1 Subject to GCC Clause 18, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

20. Assignment

20.1 The Supplier shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Procuring agency's prior written consent.

21. Subcontracts

21.1 The Supplier shall notify the Procuring agency in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.

21.2 Subcontracts must comply with the provisions of GCC Clause 3.

22. Delay in the Supplier's Performance

22.1 Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring agency in the Schedule of Requirements / Contract Award.

22.2 If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring agency in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Procuring agency shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.

22.3 Except as provided under GCC Clause 25, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 23, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the application of

liquidated damages.

23. Liquidated Damages

23.1 Subject to GCC Clause 25, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in 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 SCC. Once the maximum is reached, the Procuring agency may consider termination of the Contract pursuant to GCC Clause 24.

24. Termination for Default

24.1 The Procuring agency, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:

- (a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring agency pursuant to GCC Clause 22; or
- (b) if the Supplier fails to perform any other obligation(s) under the Contract.
- (c) if the Supplier, in the judgment of the Procuring agency has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this clause:

“corrupt practice” means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.

“fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.

24.2 In the event the Procuring agency terminates the Contract in whole or in part, pursuant to GCC Clause 24.1, the Procuring agency may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Procuring agency for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

25. Force Majeure

25.1 Notwithstanding the provisions of GCC Clauses 22, 23, and 24, 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.

25.2 For purposes of this clause, “Force Majeure” means an event beyond the control of the Supplier and not involving the Supplier’s fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

25.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring agency 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.

26. Termination for Insolvency

26.1 The Procuring agency may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring agency.

27. Termination for Convenience

27.1 The Procuring agency, by written 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 agency’s convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

27.2 The Goods that are complete and ready for shipment within thirty (30) days after the Supplier’s receipt of notice of termination shall be accepted by the Procuring agency at the Contract terms and prices. For the remaining Goods, the Procuring agency may elect:

- (a) to have any portion completed and delivered at the Contract terms and prices; and/or
- (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier.

28. Resolution of disputes

28.1 The Procuring agency and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

28.2 If, after thirty (30) days from the commencement of such informal negotiations, the Procuring agency and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in SCC. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed manner and/or arbitration.

29. Governing Language

29.1 The Contract shall be written in the language specified in SCC. Subject to GCC Clause 30, the version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

30. Applicable Law

30.1 The Contract shall be interpreted in accordance with the laws of the Procuring agency's country (Islamic Republic of Pakistan), unless otherwise specified in SCC.

31. Notices

31.1 Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by cable, telex, or facsimile and confirmed in writing to the other party's address specified in SCC.

31.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

32. Taxes and Duties

32.1 Supplier shall be entirely responsible for all taxes, duties, license fees, etc. (excluding GST), incurred until delivery of the contracted Goods to the Procuring agency in case of Delivered Duty Paid (DDP) basis.

Dow University of Health Sciences



Bidding Documents

Single Stage – Two Envelope Procedure
As per Rule 46 (2) of SPPR, 2010

IFB / NIT No. DUHS/DP/2024/270 Dated 26 February 2024

**Procurement of Medical Equipment / Instruments
and Furniture / Fixtures
under ADP Scheme # 1101/2023-24
“Establishment of Trauma Center, BSL-3 Lab and
Provision of Support Services at OICD-DUHS”**

PART TWO (PROCUREMENT SPECIFIC PROVISIONS)

- Invitation for Bids (IFB)
- Bid Data Sheet (BDS)
- Special Conditions of Contract (SCC)
- Schedule of Requirements
- Technical Specifications
- Sample Form
- Eligibility

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Part Two - Section I.

Invitation for Bids

Invitation for Bids (IFB) / Notice Inviting Tender (NIT)

IFB No: DUHS/DP/2024/270 Dated 26 February 2024

Dow University of Health Sciences (DUHS), Karachi invites sealed bids for the **Procurement of Medical Equipment / Instruments and Furniture / Fixtures under ADP Scheme # 1101/2023-24 “Establishment of Trauma Center, BSL-3 Lab and Provision of Support Services at OICD-DUHS”** on CNF basis and/or DDP Basis (Excluding GST), from the Manufacturers or authorized Agents / Distributors of Manufacturers available on ‘List of Active Taxpayers’ of FBR for Income Tax & Sales Tax.

Tender fee	Rs. 2,000/- (<i>Rupees Two Thousand Only</i>) Non-Refundable
Bidding Procedure	Single Stage – Two Envelope Procedure as per rule 46 sub-rule 2 of SPP Rules 2010.
Bid security	Two percent (2%) of the total bid value.
Tender purchasing date	From the date of publishing to 20 March 2024
Deadline for submission of bids	21 March 2024 up to 11:00 Hrs.
Bid Opening Date & Time	21 March 2024 at 11:30 Hrs.

Bidding Document containing detailed terms & conditions can be obtained against non-refundable pay Order / Demand Draft of Rs. 2,000/- being tender fee in favor of Dow University of Health Sciences during office hours. No tender shall be sold on the date of opening of bid. Tender Notice and bidding documents are also available on the websites of Dow University of Health Sciences (www.duhs.edu.pk) and Sindh Public Procurement Regulatory Authority (<http://ppms.pprasinhd.gov.pk>), in this situation, bidder is required to enclose Pay Order / Demand Draft of tender fee (Rs. 2000/-) with their bid, which must be issued by a scheduled bank within the tender purchasing dates, otherwise bid will not be entertained. DUHS may issue the clarifications or amendments in respect of the bidding documents which will be uploaded on both websites, DUHS will not be responsible of any confusion or misunderstanding in this regard.

The Bidder shall submit an original and one copy of the bid in separate sealed envelopes, clearly marking each “ORIGINAL BID” and “COPY OF BID,” as appropriate.

The Dow University of Health Sciences, Karachi (DUHS) reserves the right to reject any or all the bids subject to the relevant provisions of SPP Rules 2010.

Address for Purchasing of bidding documents, submission and opening of bids:

Procurement Directorate at Library Block, Dow University of Health Sciences (Ojha Campus), SUPARCO Road, off Main University Road, Gulzar-e-Hijri, Scheme No. 33, Karachi.
Phone No: +92-21-38771111 (Ext. 4433), Email: director.procurement@duhs.edu.pk

**Director Procurement
Dow University of Health Sciences, Karachi**

Section II.
Bid Data Sheet

Bid Data Sheet

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB) Part One. Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

Introduction	
ITB 1.1	Name of Procuring Agency: Dow University of Health Sciences, Karachi (DUHS)
ITB 1.1	Project / Scheme Allocation Number: ADP 2023-24 Scheme No.: 1101 Project / Scheme Allocation Amount: PKR. 286.589 million
ITB 1.1	Name of Project/Scheme: Establishment of Trauma Center, BSL-3 Lab and Provision of Support Services at Institute of Chest Diseases, Ojha Campus of Dow University of Health Sciences, Karachi.
ITB 1.1	Name of Contract: Procurement of Medical Equipment / Instruments and Furniture / Fixtures under ADP Scheme # 1101/2023-24 “Establishment of Trauma Center, BSL-3 Lab and Provision of Support Services at OICD-DUHS”
ITB 2.1	Bids submitted under Joint Venture (JV) / Consortium will not be considered and rejected as ineligible bidder.
ITB 4.1	Name of Procuring agency: Dow University of Health Sciences, Karachi (DUHS)
ITB 6.1	Postal Address: Dow University of Health Sciences (Ojha Campus), Procurement Directorate at Library Block, SUPARCO Road, off Main University Road, Gulzar-e-Hijri, Scheme No. 33, Karachi. Phone No. + 92-21-99261497, Email: director.procurement@duhs.edu.pk
ITB 8.1	Language of the bid shall be ENGLISH.

Bid Price and Currency	
ITB 11.2	<ul style="list-style-type: none"> • The price quoted shall be in Pakistani Rupee for the Goods offered within the Procuring Agency’s Country on delivered duty paid (DDP) Price (excluding GST). • The price quoted shall be in foreign Currency for the Goods offered from Outside the Procuring Agency’s Country on CFR / CNF/ C&F / CPT Karachi Basis. • Price of incidental services, if any, must be included in price of goods
ITB 11.4	The price shall be fixed during the contract period.
ITB 12.1	<ul style="list-style-type: none"> • For the Goods offered within the Procuring Agency’s Country: the price quoted shall be in Pak Rupees on delivered duty paid (DDP) basis (Excluding GST). • For the Goods offered from Outside the Procuring Agency’s Country: the price quoted shall be in Foreign Currency on CFR / CNF/ C&F / CPT- Karachi Basis.

Preparation and Submission of Bids	
ITB 13.3 (d)	<p>Mandatory Qualification requirements</p> <p>Please review the following list of requirements/ documents to be enclosed with the Technical Proposal.</p> <p>These are the “MANDATORY REQUIREMENTS/DOCUMENTS”, non-submission of any one of the mandatory documents / non-compliance to the any single mandatory provision will lead to disqualification / rejection of the bid.</p>

S#	DOCUMENT OF PARTICIPATING FIRM	YES / NO
1.	PRODUCT EVALUATION	
1.1	Compliance to the Technical Specifications and Requirements.	
1.2	Compliance Sheet on letter head (Form-D)	
1.3	Catalogue / Brochures / technical data sheet (having complete technical specifications of the offered good) (original)	
1.4	<p>Bidder should be manufacturer of the goods.</p> <p>OR</p> <p>Bidder must be an authorized distributor / sole agent of the original equipment manufacturer (OEM) in Pakistan.</p> <p>SUB-DISTRIBUTOR / SPOT AUTHORIZED AGENT is not allowed to participate in the bidding process.</p>	
1.5	The Manufacturer should have documentary evidence to the effect that they are the original Manufacturer of the quoted product with indication of manufacturing site and its location.	
1.6	The bidder must provide a certificate issued by the OEM verifying the standard of local repair workshop is up to the mark (where applicable).	
2.	BIDDER EVALUATION	
2.1	Tender Purchase Receipt (Original) / Pay order of Tender Fee.	
2.2	Bid Security of required amount and in prescribed shape. (Copy with value hidden in Technical Proposal; Original in Financial Proposal)	
2.3	Bidding Documents (Duly filled, Signed & Stamped by Bidder)	
2.4	<p>Undertaking on stamp paper of Rs. 100/- duly notarized to the effect that:</p> <p>i. The bidder is neither blacklisted nor suspended by any National / International, including Provincial and Federal Government.</p> <p>ii. Any director or owner of the bidding company is not awarded any punishment from any Court of Law.</p> <p>iii. Bidder has submitted the correct and complete information along with the bid/offer. If any document / information is found forged / engineered / fake / bogus at any stage, the bidder may be declared as Blacklisted in accordance with law and the performance guarantee and payment, if any may be forfeited.</p>	
2.5	Compliance to bid validity period.	
2.6	Compliance to Delivery Schedule.	
2.7	Compliance to Payment Terms & Conditions.	
2.8	Income Tax & GST Registration Certificates (with Active Taxpayer Status on FBR website).	
2.9	DRAP license showing importer of medical devices or proof of on-going process for registration. (Where applicable)	
2.10	Human Resource including detail of Technical Team (Workshop details & Technical Staff Bio data with Training Certificates (Form-A))	
2.11	The Bid Form & Price Schedule(s) shall be inserted in the Financial Proposal. However, a copy of the same shall be inserted in the Technical Proposal after hiding the amount.	
2.12	List of Installation / Reference Client as per Form B (Documentary evidence must be attached).	

S#	DOCUMENT OF PARTICIPATING FIRM	YES / NO
2.13	Bidder's Average Annual Turnover of the last three (03) financial years must not be less than PRs. 25 million (Income Tax Returns for the last 3 years must be attached as supporting documents for the verification of the turnover). (Form-C)	
2.14	Company Profile	

ITB 14.3 (b)	Spare parts required for <u>ten (10) years</u> of operation.
ITB 15.1	Amount of bid security shall not be less than 2% of the total bid price of the bidder in the form of a Call Deposit, Bank Draft or a Bank Guarantee issued by a scheduled bank of Pakistan, in favour of the Dow University of Health Sciences, Karachi.
ITB 16.1	Bid validity period shall be <u>90 days</u>
ITB 17.1	The Bidder shall submit an original and one copy of the bid, clearly marking each "ORIGINAL BID" and "COPY OF BID," as appropriate.
ITB 18.2 (a)	Dow University of Health Sciences (Ojha Campus), SUPARCO Road, off Main University Road, Gulzar-e-Hijri, Scheme No. 33, Karachi.
ITB 18.2 (b)	<p>Name of Project / Scheme / Institute / Department: Establishment of Trauma Center, BSL-3 Lab and Provision of Support Services at Institute of Chest Diseases, Ojha Campus of Dow University of Health Sciences, Karachi.</p> <p>IFB/NIT Title: Procurement of Medical Equipment / Instruments and Furniture / Fixtures under ADP Scheme # 1101/2023-24 "Establishment of Trauma Center, BSL-3 Lab and Provision of Support Services at OICD-DUHS"</p> <p>IFB / NIT No. DUHS/DP/2024/270 Dated 26 February 2024</p> <p>"Must bear the name of the bidder" and a warning "Do Not Open Before the time and date of bid opening".</p>
ITB 19.1	<p>Deadline for bid submission: Date: 21 March 2024 Time: upto 11:00 Hrs.</p>
ITB 22.1	<p>Date, Time and Place of Bid Opening Date: 21 March 2024 Time: 11:30 Hrs. Place: Procurement Directorate at Library Block, Dow University of Health Sciences (Ojha Campus), SUPARCO Road, off Main University Road, Gulzar-e-Hijri, Scheme No. 33, Karachi.</p>

Bid Evaluation	
ITB 25.4	Criteria for bid evaluation.

i. Technical Bids / Proposals Evaluation:

- (a) The bids not responsive to the MANDATORY QUALIFICATION CRITERIA provided at ITB Clause 13.3(d) shall not be eligible for further Technical Evaluation.
- (b) Joint Venture / Consortium Bids, Conditional Bids, Telegraphic Bids, Bids not accompanied by Bid Security of required amount and form, bids received after specific date and time and bids of Black Listed firms shall be treated as rejected / non-responsive.
- (c) Alternative bids shall not be allowed.
- (d) The bids shall be evaluated and compared on itemized basis OR on the basis of a group of similar nature goods OR goods compatible with each other.
- (e) **Bids are invited as per the Single Stage – Two Envelope Procedure** in accordance with sub-rule 2 of rule 46 of the Sindh Public Procurement Rules, 2010. In case, any bidder encloses the financial bid within the technical bid, the same shall be rejected summarily.

ii. Financial Bids / Proposal Evaluation:

- a. Technically qualified / responsive / successful bidder(s) shall be eligible for Financial Proposal(s). The Financial bids shall be opened in the presence of the Bidders at the scheduled date, time and venue communicated in advance.
- b. Only those Financial Proposals will be announced / considered which were technically qualified by the Committee. Therefore, bidders are advised to give separate sealed envelope (s) of every quoted item and should mention the name of the item and tender serial number on the front of the sealed envelope in **BOLD and legible letters** to avoid confusion, otherwise, the Financial Proposal Envelope will be opened on qualified item basis and it will not be challenged by the bidder that procuring agency has opened the Financial Proposal of the disqualified items besides qualified items.
- c. Financial Bids / Proposals of Technically disqualified / rejected bidders will not be opened and sealed envelope shall be returned to the bidder.
- d. Bids not accompanied by the Bid Security of the required amount and form shall be rejected.
- e. Procuring Agency shall not be responsible for any erroneous calculation of taxes and all differences arising out shall be fully borne by the Successful Bidder.
- f. For the purpose of comparison of bids quoted in different currencies, price shall be converted into Pakistani Rupees. The rate of exchange shall be the selling rate prevailing seven working days before the date of opening of the bids, as notified by the National Bank of Pakistan (NBP) / State Bank of Pakistan (SBP).

Contract Award	
ITB 29.1	Procuring Agency reserves the right to drop any item and increase or decrease the quantity of goods originally specified in Schedule of Requirements / Technical Specifications without any change in unit price and other terms & conditions.
ITM 32.1	Successful Bidder and the Procuring Agency will sign the Contract Agreement on the stamp paper with stamp duties as per the article 22-A (Contract) of the schedule of Stamp Act 1899. The expenditure involved on the said contract agreement will be borne by the bidder.

Section III.
Special Conditions of Contract

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Special Conditions of Contract

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

1. Definitions (GCC Clause 1)

GCC 1.1 (g)—The Procuring agency is: Dow University of Health Sciences, Karachi.

GCC 1.1 (h)—The Procuring agency's country is: Islamic Republic of Pakistan

GCC 1.1 (i)—The Supplier is: _____

[Name and Address of the Bidder]

2. Country of Origin (GCC Clause 3)

All countries and territories as indicated in Part Two Section VI of the bidding documents, "Eligibility for the Provisions of Goods, Works, and Services in Government-Financed Procurement".

3. Technical Specifications (GCC Clause 4)

The technical specifications of the goods provided in these bidding document are only for widest possible competition and not for favor any single contractor or supplier nor put others at a disadvantage. However, the brand name, catalogue No. / Name etc., if any, has only been used for the reference purpose. Equipment offered "**ATLEAST EQUIVALENT OR HAVING BETTER TECHNICAL SPECIFICATIONS**" shall also be considered.

4. Performance Security (GCC Clause 7)

GCC 7.1—The amount of performance security, as a percentage of the Contract Price, shall be **Five (5%) percent** of the Contract Price in favor of Dow University of Health Sciences, Karachi.

5. Packing (GCC Clause 9)

GCC 9.2—The following SCC shall supplement GCC Clause 9.2:

The packing, marking and documentation within and outside the packages shall be as per manufacturer standards meeting the safety requirements of the goods.

6. Delivery and Documents (GCC Clause 10)

GCC 10.2—*For Goods supplied from within the Procuring Agency's country:* The Bidder shall provide the following documents at the time of delivery of goods to the Store / Warehouse of the Dow University of Health Sciences, Karachi for verification duly completed in all respects:

- i. Original copies of Delivery Note (Delivery Challan) (in duplicate) showing item's description, make, model, quantity as well as Lot Number, Batch Number, Registration Number, manufacturing and expiry dates (if applicable).
- ii. Original copies of the Bidder's invoices (in duplicate) showing warranty, item's description, make, model as well as Lot Number, Batch Number, Registration Number, manufacturing and expiry dates (if applicable) per unit cost, and total amount.
- iii. Original copies of the Sales Tax Invoices (where applicable) in duplicate showing item's description, quantity, per unit cost without Sales Tax, amount of Sales Tax and total amount with Sales Tax.

- iv. Manufacturer's or Bidder's warranty certificate.
- v. Inspection certificate issued by the nominated inspection committee / Bidder's factory inspection report.
- vi. Certificate of origin.
- vii. Operator manual, technical and service manual, software, spare parts catalogue and price list must be provided with the equipment.

GCC 10.2—For Goods supplied from abroad as per INCOTERM CFR / CNF/ C&F / CPT Karachi: Upon shipment, the Supplier shall notify the Procuring agency the full details of the shipment, including Contract number, description of Goods, quantity and usual transport document. The Supplier shall mail / submit the following documents to the Procuring agency at least one week prior to arrival of the Goods at the port or place of arrival and, if not received, the Bidder will be responsible for any consequent expenses.:

- (i) copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;
- (ii) original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods;
- (iii) copies of the packing list identifying contents of each package;
- (iv) insurance certificate;
- (v) Manufacturer's or Supplier's warranty certificate;
- (vi) inspection certificate, issued by the nominated inspection agency, and the Supplier's factory inspection report; and
- (vii) certificate of origin.

7. Insurance (GCC Clause 11)

GCC 11.1— For Goods supplied from within the Procuring Agency's country: The Goods supplied under the Contract shall be delivered duty paid (DDP) under which risk is transferred to the buyer after having been delivered, hence insurance coverage is sellers responsibility. Since the Insurance is seller's responsibility they may arrange appropriate coverage.

GCC 11.1— For Goods supplied from abroad as per INCOTERM CFR / CNF/ C&F / CPT Karachi: The Goods supplied under the Contract shall be *INCOTERM CFR / CNF/ C&F / CPT Karachi* under which risk is transferred to the buyer after the goods reached at Karachi port, hence insurance coverage / marine cover note is sellers responsibility. Since the Insurance / marine cover is seller's responsibility they may arrange appropriate coverage.

8. Spare Parts (GCC Clause 14)

GCC 14.1—Supplier shall carry sufficient inventories to assure ex-stock supply of consumable, spares parts (including X-ray tube, detector, Probes, Lamps, Lens, coils, battery etc.) for the Goods. Other spare parts and components if not in stock shall be supplied as promptly as possible, but in any case, within 4 weeks of placing the order on DDP basis and in case of import of part within 6 weeks after opening the letter of credit. All spares during warranty period must be supplied from stock, and if part is not in stock and requires import, that a loner equipment must be provided. Spare parts/accessories/consumables must be supplied for at least 10 years after successful installation, and if the product is discounted before 10 years, upgrade latest equipment must be provided at 50% of the market value.

9. Warranty (GCC Clause 15)

GCC 15.2—In partial modification of the provisions, the warranty period shall be twelve (12) months or as per the extended warranty period from the date of acceptance of the Goods with 95% uptime during warranty and contract period covering service and spare parts (including X-ray tube, detector, Probes, Lamps, Lens, battery, Coils etc.) .The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the Contract. During warranty/contract period, preventative maintenance, Installation qualification, operational qualification, QA/QC must be done as per manufactures checklist and guideline by trained personal. Response time during warranty and contract period would be 4 hours of less, and resolution time should not increase 7 days for any instance. 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 8,

or

(b) pay liquidated damages to the Procuring agency with respect to the failure to meet the contractual guarantees. The rate of these liquidated damages shall be 0.5% per week or part thereof the total amount of contract.

or

(c) Increase the warranty/ contract period, free of cost by 5 times

GCC 15.4 & 15.5—The period for correction of defects in the warranty period is 7 days or earlier.

GCC 15.9— The bidder shall separately quote the price of service contract inclusive of parts and without parts for the period defined in the bid data sheet at clause ITB 14.3(b) in term of %age for quote equipment value.

10. Payment (GCC Clause 16)

GCC 16.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:

i. For Goods supplied from within the Procuring Agency's country:

- (a) Payment shall be made in Pak Rupees.
- (b) 100% of the Contract Price on complete delivery of store within thirty (30) days on submission of claim supported by acceptance certificate from procuring agency declaring Goods have been delivered and that all contracted services have been performed.
- (c) Part payment on part supply may be allowed

OR

ii. For Goods supplied from outside the Procuring Agency's country:

- (a) Payment shall be made in Foreign Currency.
- (b) The Procuring Agency shall pay the Bidder or its Principal through irrevocable letter of credit opened in favor of the Bidder or its Principal in a bank in its country, upon submission of all the requisite documents.
- (c) Bidder will bear the insurance charges and all the additional bank charges inside and outside the Procuring Agency country on account of confirmation of L/C, if he desires to establish a confirmed L/C etc.

11. Prices (GCC Clause 17)

GCC 17.1—No prices adjustment shall be allowed.

12. Liquidated Damages (GCC Clause 23)

GCC 23.1—In case deliveries are not completed within the time frame specified in the schedule of requirements / contract award, a Show Cause Notice will be served on the Bidder which will be following by cancellation of the Contract to the extent of non-delivered portion of installments. No supplies will be accepted and the amount of Performance Guarantee / Security to the extent of non-delivered portion of supplies of relevant installments will be forfeited. If the firm fails to supply the whole installments, maintenance the entire amount of Performance Guarantee/Security will be forfeited and the firm will be blacklisted at least for two years for future participation in bids:

The liquidated damage shall be 0.5 % per week or part thereof. The maximum amount of liquidated damages shall be 10% of the amount of contract. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of the contract, the Procuring Agency shall rescind the contract, without prejudice to other courses of action and remedies open to it.

13. Resolution of Disputes (GCC Clause 28)

GCC 28.1—The dispute resolution mechanism to be applied pursuant to GCC Clause 28.2 shall be as follows:

In the case of a dispute between the Procuring agency and the Supplier, the dispute shall be referred to the dispute resolution mechanism as defined in rule 31, 32 and 34 of the SPP Rules, 2010 (Amended upto date).

14. Governing Language (GCC Clause 29)

GCC 29.1—The Governing Language shall be ENGLISH

15. Applicable Law (GCC Clause 30)

GCC 30.1-The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan which includes the following legislation:

- The Employment of Children (ECA) Act 1991**
- The Bonded Labour System (Abolition) Act of 1992**
- The Factories Act 1934**

16. Notices (GCC Clause 31)

GCC 31.1—**Procuring agency's address for notice purposes:**

Director Procurement
Dow University of Health Sciences (Ojha Campus)
Procurement Directorate at Library Block,
SUPARCO Road, off Main University Road,
Gulzar-e-Hijri, Scheme No. 33, Karachi.
Phone No. + 92-21-99261497
Email: director.procurement@duhs.edu.pk

Supplier's address for notice purposes:

Name of Bidder: _____

Name of Contact Person & Designation: _____

Phone No. _____

Fax No. _____

Mobile Phone No. _____

Email Address _____

Section IV.
Schedule of Requirements

Schedule of Requirements

S#	Description of Goods	Required Delivery Schedule	Location
01.	As per the details of items attached in Section V – Technical Specifications	Delivery & Installation within 12 weeks or earlier from the date of Contact Award or Establishment of LC.	Ojha Campus of Dow University of Health Sciences, Karachi.

Section V.
Technical Specifications

Technical Specifications

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
01.	Syringe Pump	40 Units

Display: 240*160 HD LCD display
 MODE: Rate mode, time volume mode, Dosage weight mode
 Functions: Purge, Bolus, Anti Bolus, KVO
 Infusion Rate: 0.1ml/h to 1200ml/h
 Rate accuracy: within $\pm 2\%$
 Bolus rate: 1 ml/h to 1800 ml/h
 Volume limit: 0.1ml to 9999.9ml
 Maximum infusion pressure: 150kpa
 Occlusion: High 800mmHg \pm 200mmHg (106.7kpa \pm 26.7kpa)
 Medium 500mmHg \pm 100mmHg(66.7kpa \pm 13.3kpa)

Alarms:

Audible and Visible

Occlusion, Equipment failure, software Exception, Injection Finish, Battery low, improperly installed, Abnormal Operation act

Power Source: 100-240Vac 50/60Hz

Built-in battery backup and drug library

KVO Speed: 0.1-5ml/h

Syringe Compatible with 10ml,20ml,30ml,50/60ml of any brand

Country of manufacturer: USA/EU/JAPAN/UK or Equivalent

Warranty: 02 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime , comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 5% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 300+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
02.	Infusion Pump	30 Units

Display: 2 to 5 cm monochromatic display
 Pumping mechanism: Linear peristaltic
 Sensitivity of Air Sensor: 50 μ L
 Waterproofness: should be water proof
 Power supply: 100 – 240Vac 50/60Hz
 Flow rate range: 1.0 to 1200ml/hr or 1 to 400 drops/min

Flow rate accuracy: $\pm 5\%$ on 24h with infusion of 1ltr max.

Alarms: Audible and visible

Occlusion pressure, end of infusion, air bubble, rate error, empty bag, door open, low battery, technical fault

Must be universal drip set supported.

Country of manufacturer: USA/EU/JAPAN or Equivalent

Warranty: 02 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 5% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 300+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
03.	Multipara Patient Monitor with 5 Parameters	15 Units

Application range: Adult/Pediatrics/Neonatal/Surgery/Operating Room/ICU/CCU

Display: 12' LED screen

Power source: 100Vac ~ 240Vac

Built in rechargeable DC battery.

Battery: 4000mA 11.1V lithium battery

5 hr. operating after full charge.

ECG:

5 Leads (Adult/ Paeds/neonatal)

Respiration:

Method: RA-LL impedance

Resp rate: Adult 0 ~ 120

BrPM Neonatal/Pediatric 0 ~ 150 BrPM

Resolution 1 BrPM

Precision ± 2 BrPM

NIBP:

Method: Oscillometric principle

Numeric: Systolic, diastolic and mean pressure

Range: Adult: 10~270 mmHg, Child: 10~235 mmHg, Neonate: 10~135 mmHg

Selectable auto inflate interval setting

Rising cuff/ continuous pressure display

Pulse Oximetry:

Range: 0 ~ 100%
 Resolution: 1%
 Precision: 70% ~ 100% ±2 digit

Pulse Rate:

Range: 20 ~ 300 bpm
 Resolution: 1bpm
 Precision: ±3bpm

Alarms:

High and Low (settable) on all Parameters
 Visual and Audible indication of alarm

Hanging bracket (Must be approved by Biomedical Engineering Department)

Accessories: (optional must be quoted)

EtCO2 Module
 IBP Module

Country of manufacturer: USA/EU/JAPAN/UK/China or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 5% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 200+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) (Any 2) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

2 Qty of SPO2 Probes additional required with each patient monitor.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
04.	Suction Machine	10 Units

Piston or Diaphragm type with oil free pump mechanism.
 Twin jars (Polysulfide or Polycarbonate type) of capacity up to 4/5L each, Autoclavable
 Aspiration rates up to 60 liters/minutes or more at 640-900mm.Hg
 Vacuum continuously adjustable
 Triple or Overflow safety device
 Change over valve
 Suction tubing of silicone with coupling connection for each jar
 Noise Level 50 dB or less.
 220V/50Hz

Country of manufacturer: USA/EU/JAPAN/UK/China/Turkey or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 5% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 50+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
05.	Ultrasonic Washer	01 Unit

19+ Liter
38-40kHz operating frequency, all connectors, hose, SS lid and instrument organizer
Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, Demo may be requested for technical evaluation.

Country of manufacturer: USA/EU/JAPAN/UK/China/Turkey/Pakistan or Equivalent.

Must have trained engineer, with all spare parts and calibration tools as per manufacturer recommendation in Karachi and 20+ installations of the similar or better model of same brand in Pakistan

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
06.	Baby Incubator Transport	01 Unit

Microprocessor Controlled.
Skin Temperature setting range: 34.0~37.5 °C.
Incubator Air Temperature display range: 20.0 ~ 37.5°
Mattress: 3-inch foam, easily washable, and biocompatible cytotoxicity free.
Heater Output: 0 ~ 100% (in step level).
Humidity Control: Humidity setting range: 50 ~ 60% Rh.
Water Reservoir: 250ml or more.
Noise level: < 48 dBA.
Alarms: High temperature, set temperature, skin temperature probe, low water level, set humidity, air sensor, system failure, power failure.
Cabin 55 x100 x 55 cm (Approx.) with transparent panel with two hand ports on each side.
O2 Cylinder holder.

Frame must be able to latch on any stretcher.
 Trolley with hydraulic/pneumatic system must be provided for transportation inside hospital.
 Battery backup 2 hours at least.
 Monitor attachment.
 Tubing Grommets 8pcs
 Power source: AC / DC 12V / battery backup.

Country of manufacturer: USA/EU/JAPAN/UK/Turkey/China or Equivalent

Warranty: 02 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 6 % or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 10+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software, and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
07.	Cystourethroscopy with Endo vision Tower	2 Units

Working Channel
 Inner diameter 6.5 Fr., direction of view 0°, angle of view 120°,
 Sheath size 16 Fr., working length 37 cm
 Trocar, size 12 mm,
 with pyramidal tip, Cannula, Multifunctional Valve
 Trocar, size 5.5 - 6 mm
 with pyramidal tip, Cannula, Multifunctional Valve
 VERESS Pneumoperitoneum Needle, with spring-loaded blunt inner cannula, LUER-Lock,
 autoclavable, diameter 2.1 mm, length 13 cm
 Reducer, 11/5 mm
 Suction and Irrigation Tube, with lateral holes, anti-reflex surface, with two-way stopcock for
 single-hand control, size 5 mm, length 33- 36 cm

Camera control unit and video camera head.
 Resolution 3840X2160 pixels.
 Integrated /separate image processing module.
 Automatic white balance.
 Powerful video signal processing.
 Imaging system should have backward and forward compatibility and modularity
 Picture and picture mode control via camera head button/monitor.
 Control of peripheral i.e. light source, recording system parameter via camera head buttons.
 Still image capturing in 4K quality (JPEG) format via camera head buttons.
 Video capturing in 4K quality (MPEG 4 format) via camera head buttons.

Grid & pointer mode for teaching and training purpose.
patient data backup
progressive scan with zoom.
Built-in/separate medical graded video recorder.

Video Output
S-video signal to 4-pin DIN Socket(2X).
HDTV signal to DVI-D/HDMI socket.

Medical graded full HD LED 32-inch monitor and Trolley from same manufacturer, if different, must be endorsed by the manufacturer for compatibility and have 20+ installation in Pakistan.

Light Source: 300-watt xenon/150 or better watt led with all standard accessories, (the replacements of lamps shall be the responsibility of the supplying firm during warranty/contract period)

Light guide cable, diameter 4.5 mm or more, length minimum 200 to 300 cm.

Electronic CO2 Insufflator
30/40 Liter/min, complete in all respect with all standard accessories, compatible with flowrates for paediatric patients.
Smoke evacuation 10 L/min

Accessories

- (i) Online 2KVA UPS to be mounted inside trolley for ease in transportation with 30 min backup (May be provided locally)
- (ii) CO2 Cylinder 240 CFT with complete accessories (hose, filter, regulator etc) to be supplied locally and certified by respective Agency (POL or equivalent).

System must have compatibility for wide range of minimally invasive procedures and open to use instruments from other manufacturer. (Declaration from manufacturer is required)

The unit should have the capability for up gradation of future software (shall be provided free of cost) Bidder shall quote item wise cost of each item, accessories and optional items, if cost of any item is missing it will be considered as free of cost. All reusable accessories from original manufacturer must be provided for complete operation.

Country of manufacturer: USA/EU/JAPAN or Equivalent (Other country will be accepted if 20+ units of functional Endo Vision System are installed in Pakistan and meet all specification, list of installation must be provided with contact details of the end-user)

Warranty: 5 Years comprehensive warranty including service, spare parts, leakage and wear and tear from normal operations on manufactures letter head from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime after warranty up to 10th year must be 5% or less, loaner equipment must be provided during warranty and contract.

Technical support: Must have trained engineers to repair quoted equipment, with all spare parts, calibration equipment and tools as per manufacturer recommendation in Karachi and 3+ installation of same brand in Pakistan, list of installations per sample form must be provided for feedback. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) /

European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
08.	Electrocardiograph (ECG) Machine	5 Units

Display: 4" or more TFT screen LED display
 Leads standard 12 leads, 12 channel
 Patient management, name, age,
 Wide thermal printing system.
 Built in memory or mini-SD card, store more than 1200 ECG record.
 Input impedance: $\geq 50 \text{ M}\Omega$
 Frequency response: 0.05 ~ 150Hz
 Sensitivity choice: 5,10,20mm/mV
 Measurement Parameters: HR, P-R interval, P-Duration, QRS Duration, Q-T interval, Q-Tc, P Axis, RS Axis, T, Axis, R (V5),S(V1),R(V5) + S(V1)
 Time Constant: $>5 \text{ S}$
 Paper Speed: 25mm/s, 50mm/s
 Computer interface option and printing with HP printer on A4 paper
 Power source: 100 – 240Vac 50/60Hz
 Battery: rechargeable lithium with 3 hours backup

Standard Accessories:

Patient cable x2
 Thermal printing paper
 Limb electrodes
 Chest Electrodes
 Power supply cable
 Grounding wire

Country of manufacturer: USA/EU/JAPAN/UK/China or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 5% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 50+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) (Any 2) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
09.	Defibrillator	4 Units

Biphasic Transthoracic defibrillator
 Display: 6" or more LCD color display
 Energy range: should be adjustable up to 200 Joules.
 Energy Charge time: should be less than 6 sec.
 Display of HR, ECG through paddles and lead I, II and III patient cable.
 Recorder: Built in recorder for printing of full summary (10 rolls must be provided)
 Alarms: Audible and Visible
 High and low Heart rate
 Low battery
 Battery: Built in rechargeable battery for maximum 100 shocks at max energy
 External paddles: Adult & Paeds
 AED facility with disposable pad shelf life should be 5 years
 Real time CPR feedback on defibrillator display (chest compression, depth, release bar) should be available
 Power Source: 230Vac 56/60Hz

Complete with Standard accessories, including reusable type cables

Country of manufacturer: USA/EU/JAPAN or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 7% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 100+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) (any 2) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
10.	Portable Ultrasound System	1 Unit

Fully Digital Beam former, Having 2D / M-Mode and Doppler Facilities, (PW, CW, HPRF, & Color Flow Imaging) with High Resolution Imaging Doppler Signal Quality
 Viewing Depth: 30 cm Minimum (Both in B & W and Color).
 HPRF Doppler.
 TDI/TVM (Tissue Doppler Imaging)
 TEI (Tissue Energy Imaging)
 Automatic Baseline and Velocity Range Control.
 Live Measurements for Doppler Spectrum
 Both CW and PW Doppler must be Continuous Steerable in the Color Blood Flow Image

2D Image with Color, CW and PW Doppler.
Tissue Harmonic Imaging with 2THI or more Frequency.
Power Doppler.
Triplex Mode for Simultaneous Display of Color B/M and D-Mode Displays.
Flow Velocities 1.5 ~ 26 cm/sec in Color Mode
250 dB system dynamic range or more.

All Cardiology measurement/ software package for adult, pediatrics and neonate must be included

15-Inches Minimum LED Color Monitor, with Resolution 1024 x 768 Pixels.
3 Active Transducer Connector
500 GB or more Hard Disk Drive to be Built-in to the System.
Built-in DICOM Compatibility.
Built-in battery for Standby mode 60 – 90 Mins
Online UPS as per manufacturer guidelines

Standard Probes (Prices must be quoted separately)
- 1 – 4 MHz Multi-Frequency Phased Array Probe.
- Convex (1 – 6 MHz)
-Linear (4 – 16 MHz)

Accessories:

Thermal Printer 256-Gray scale (Sony, Mitsubishi or equivalent)
Trolley to hold the complete system, including power supply, printer, UPS
20 High Density / High Glossy thermal paper Rolls

The unit should have the capability for up gradation of future software (shall be provided free of cost within the warranty period).

Demo of the unit is mandatory of qualification.

Or Equivalent

Prices of all optional probes must be quoted in both CNF
Equivalent specs and features will be acceptable after evaluation by the committee.
All parts/accessories must be included for complete operation, and all optional parts must be quoted in bid, if not quoted will be considered Free of cost.

Country of manufacturer: USA/EU/JAPAN/China or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 7% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 20+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)(Any 2) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
11.	Electro - Hydraulic Operating Table	3 Units

Table-top sliding, Back Raise, Leg Raise, Hi-Low adjustment, Trendelenburg, Reverse, Trendelenburg, Lateral tilting, Jack Knife and V-Jack knife, Lateral position, Lithotomy Position, Prone Position, Chair Position, and with X-Ray Radiolucent Backrest and C-arm easily be used.

Movements:

- Back Raise: +90° / -45° or more
- Head Section: +45° / -90° or more
- Hi-Low adjustment from 700mm to 1000mm or more
- Hi-Low range 380mm or more
- Leg Section: +20° / -90° / 130° (outwards) or more
- Trendelenburg/Reverse Trendelenburg: ±25° or more
- Lateral tilt: ± 25° or more
- One button automatic zero position
- Casters Electro-hydraulic with override system
- Lithotomy pole must have adjustable angle

Table Top Sliding & Interchangeable Head Section Base/Foot Section Base Position:

- Should be hygienic table top for medical personnel to easily remove table top for easy cleaning
- Table Top Sliding range 500mm or more
- Towards 400mm Backwards 300mm

Dimension Should be:

- Table Top length 1900mm or more
- Table Top width 600mm or more
- Table Top Height 700mm to 1150mm or more

Controls:

- Should have Hand Held Controller
- Should have standby Built in controller to Operate the table for movement
- Power button should be automatically deactivating after 15 Sec to prevent accidental pressing by medical personnel

Drive System:

- Drive system should be Electro-Hydraulic which should be quite, slow & smooth

Battery:

- Should have battery backup of 2 hours

Mattress Base/Table Top:

- Bakelite high transparency Strong & Thin
- Seamless smooth surface for easy and quick cleaning (Should be remove)
- Should be removeable back section table top allows for easy cleaning and maintenance

X-ray Imaging:

- Should have X-ray imaging facility
- Cassette tunnel for the tray should be Standard feature
- Cassette should be inserted from the Head end or the foot end

Base Frame: Stainless steel 304 or better

Caster: 04 swivels lockable (Electro-Hydraulic with override system)

Mattress:

- Memory Foam
- 100mm thickness
- Water-proof seamless mattresses

Safety Stopper:

- Table base should be fix automatically to the floor.

Auto Return Button:

- Should have auto return button to returns the operating table in a flat and leveled Position.
- Should have neutral position indicator.

Safe Working load:

- Safe working load should have 260 kg or more.

Static Load:

- Static load should be 500 kg or more.

Standard Accessories for pediatric patients:

- Anesthetic Scree (L-Shape) (2pc)
- Mattress (1set)
- Arm Rest with Pad (1set)
- Body strap for pediatric patients
- Adjustable bottle holder rod
- Shoulder support
- Pair of Knee Crutches.
- Lateral Support

One OT table must include Traction table for orthopedic procedures.

Country of manufacturer: USA/EU/JAPAN or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 5% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 20+ installation of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
12.	Medicine / Pharma Refrigerator	5 Units

Double Door Unit should have Ergonomic design & Forced – Air Circulation,
Volume or capacity should be more than 850-950 L.
Temperature range should be 2 ~ 8°C with resolution of 0.1°C (Ambient 10°C ~ 45°C)
Microprocessor Controlled with Audible & Visual alarm.
Power consumption 2.5 Kw/day or less
Temperature uniformity $\leq \pm 1^\circ\text{C}$
Quite Operation $\leq 40\text{dB (A)}$
Auto defrost.
10 or more adjustable shelves
Clear & large LED display Unit should have double glass door.
Intelligent anti-condensation: triple-paned tempered glass door with door frame heater
Hermetically sealed compressor
Eco-friendly hydrocarbon refrigerant (R290) and CFC-free polyurethane insulation
Wheel and adjustable foots for easy movement.
Optional must be quoted: Data storage, electromagnetic locks and authority management.

Should have 2 years comprehensive warranty and 5-years warranty of compressor with 98% uptime including service, spare parts and refrigerant.

Must have trained engineer, with all spare parts and calibration tools as per manufacturer recommendation in Karachi and 30+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
13.	Medicine / Pharma Refrigerator	1 Unit

Double Door Unit should have Ergonomic design & Forced – Air Circulation,
Volume or capacity should be more than 85 cft.
Temperature range should be 2 ~ 8°C with resolution of 0.1°C (Ambient 10°C ~ 45°C)
Microprocessor Controlled with Audible & Visual alarm.
Power consumption: <1 Kw/day or less
Temperature uniformity $\leq \pm 1^\circ\text{C}$
Quite Operation $\leq 40\text{dB (A)}$
Auto defrost.
Clear & large LED display Unit.
Intelligent anti-condensation: triple-paned tempered glass door with door frame heater
Hermetically sealed compressor
Eco-friendly hydrocarbon refrigerant (R290) and CFC-free polyurethane insulation
Wheel and adjustable foots for easy movement.
Optional must be quoted: Data storage, electromagnetic locks and authority management.

Should have 2 years comprehensive warranty and 5-years warranty of compressor with 98% uptime including service, spare parts and refrigerant.

Must have trained engineer, with all spare parts and calibration tools as per manufacturer recommendation in Karachi and 30+ installations of the similar or better model of same brand in Pakistan

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
14.	Diathermy	4 Units

- Microprocessor based electrosurgical unit for normal and under water cutting usages with pulsed mode
- Automatic self-test function.
- Operation in radio frequency range of 350-500KHz
- Controls for cutting, coagulation, spray and blends.
- Two Monopolar and one bipolar output.
- Monopolar cutting power 350 watts.
- Bipolar cutting power 120 watts.
- Bipolar coagulation power 120 Watts.
- Monopolar coagulation power 100Watts.
- Spray coagulation mode.
- Different gradations of blending of cutting and coagulation power.
- Values of cutting and coagulation power should be controlled
- Audio and visual alarms.
- Operating Power: 220V, 50 Hz.

Accessories:

- Monopolar handle with cord.
- Bipolar forceps with cord.
- Attachment for monopolar coagulation.
- Knife electrode.
- Surgical electrode, ball-shaped.
- Reusable Rubber patient plate.
- Double Paddle foot switch, explosion proof.
- Trolley (Local made import quality)

Calibrator must be provided.

Country of manufacturer: USA/EU/JAPAN or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 7% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 20+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted. Calibration must be performed at site during PPM.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
15.	Anesthesia Machine with Ventilator	4 Units

The equipment should be administering anesthesia gas and be able to ventilate all types of patients (neonates to adults).

The equipment shall be designed to accommodate future updates and be quick and easy to implement these upgrades.

A quick-start in case of emergency situations shall be possible, breathing circuit should be easily autoclavable and removable.

The system check-out procedure should be automatic with a minimum manual maneuvers.

A separate leakage test should be possible besides the normal system check-out.

System must be capable to detect leak with spirometry, ascending bellows, and low airway pressure alarm with single bellow of all patient type.

Must be able to monitor and delivery of tidal volume as low as 5ml in pressure control ventilation and as low as 20ml in volume control ventilation

Extra fresh gas outlet should be available

The suction device should have an on/off switch, low pressure adjustment valve and a low-pressure manometer.

Gas Supply

The O2 flush function should be included with a flow exceeding 40 l/minute.

A hypoxia prevention catch shall be included, show at what O2 level it interrupts the process.

An automatic intervention preventing hypoxic mixture in the patient circuit should be included Slave regulator and alarm for loss of O2 to be included.

The gas supply unit shall administer and control the flow of the following gases: Oxygen, Air, Nitrous oxide, Anesthetic gas; isoflurane, sevoflurane

Fresh gas flow should be flow regulated between 0,1-20 l/minute

Vaporizer

One pre calibrated Vaporizers of Isoflurane vaporizer (or by choice), temperature and flow compensated.

The vaporizer should have a built-in overfill control.

The vaporizer should be electronic with an injector

The equipment shall have active vaporizer holders for two vaporizers.

A clear indication of which vaporizer is active should be displayed.

Refilling of inhalation agent should be possible during running mode.

The container of the vaporizer chamber should be minimum 300 ml

The liquid level in the vaporizer should be displayed.

Absorber

Exchanging the CO2 absorber shall not affect the performance during active ventilation.

A clear color shift in the absorber mix shall be visible when the unit is saturated.

A circle system lacking an absorber shall still function, resulting in re-breathing of carbon dioxide by the patient.

A by-pass function to by-pass the absorber should be possible.

It should be easy to change the absorber

The resistance in the absorber should be low.

Circle System

Switching between manual and automated ventilation shall be a simple procedure, and doing so shall only require a one-handed operation.

It shall be possible to fit three types of hose adaptors: infant, child and adult.

The system shall contain a continuously adjustable pressure relief safety valve settable between 0-80 cm H2O.

Total system volume should be as low as possible and not exceed 3 liter including absorber

The equipment should have a low expiratory resistance (WOB) in controlled and spontaneous

breathing.

Ventilator

The equipment should be contained functions for volume- and pressure regulated ventilation.

The ventilator should be contained Spontaneous Breathing and Manual Ventilation.

The ventilator should have the following modes: VCV, PCV, SIMV

The ventilator should have Pressure Support mode with backup functionality

The ventilator should not contain any moving parts

The equipment shall handle high- to low flow anesthesia during both non-rebreathing and partial rebreathing conditions.

Switching between different breathing systems shall be a simple operation.

It shall be possible to regulate the I:E ratio between 4:1 to 1:10

The equipment shall include an integrated continuous PEEP-function ranging from 0 to at least 45 cm H₂O.

Must be cable for patient breath effort in less than 60ms.

The set PEEP level should be visible on the control display, 5ml In Pressure control mode

The set pressure should be adjustable between 0 - 120 cm H₂O

The set tidal volume should be adjustable between 20-1600 ml

The breathing frequency should be adjustable between 4-99 breaths/min

The equipment should provide a fast rise time in Pressure Controlled mode without overshoot.

The equipment should have an easily accessible timer displaying hours, minutes and seconds.

Monitoring/Control Panel

The control display should not be smaller than 7"

The views in the monitoring panel should be able to configure

Alarm functions should be functional and prioritized.

All sound alarms, even priority alarms, should be mutable.

Monitoring parameters should always be displayed during run time/a patient case

Ventilation parameters should be user configurable.

The settings should be grouped after workflow.

Measured values should be possible to visualize and present on the screen as trends.

All relevant data collected during the anesthesia operation shall be made available for database logging or prepared for export/printing.

The ventilation parameters frequency, pressure, minute- and tidal volume.

Spirometry values shall be presented.

The equipment should provide battery back-up for 90 minutes. Patient ventilation and delivery of anesthesia should function uninterrupted during that time.

O₂ flush shall function, and manual ventilation of the patient shall be possible.

Calibratable flow and volume analyzer to be provided.

Optional: Additional Vaporizer (Savo), PPM Kit and all optional accessories, consumables provided by manufacturer must be quoted, if not, will be considered free of cost.

Country of manufacturer: USA/EU/JAPAN/UK/China or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 7% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 20+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be

quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin (Embassy Attested)

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
16.	Fluoroscopic C-Arm With FPD	1 Unit

X-Ray Generator

X-ray tube: stationary anode with single focus 0.5 to 0.7 mm, dual focus will be preferred.
 Nominal Max. Output: 2kW or more Type of:
 Generator Type
 Invertor Type
 Max. Frequency of generator: 50kHz or more
 Max. anode heat content: 85-120 kHU
 Max. value of mAs: 200mAs or more

Collimator System

Iris collimator: 50-198 mm diameter
 Asymmetric slot collimator: 50-198 mm diameter
 Virtual collimation without radiation.
 Pulsed fluoroscopy: – kV range: 40 -120 kV – mA range: 0.2-12 mA
 Flat Pannel Detector: Pixel size: 70-220 µm
 Anti-scatter grid: 70 lines/cm
 Laser positioning device integrated in detector housing.
 Auto calibration
 20.5 cm x 20.5 cm Flat-Panel
 Pixel array: 1,024 x 1,024 pixels

Touchscreen

8’ or more Display
 Resolution : 640 x 480 pixels Live fluoro screen with Control
 Emergency stop button, X-ray button, X-ray indication lamp, Smart Archive

Dual flat screen Monitor:

screen size: 2 x19“(48 cm) Medical Grade
 native resolution: 1,280 x 1,024 pixels
 Orbital rotation: 120°

Digital Image Processing

Real-Time Processing Functions.
 Stack filter (‘Last Image Hold’): 5 levels
 Edge enhancement filter: 5 levels
 Windowing and step windowing
 Digital image rotation and reversal without radiation
 Grayscale inversion
 Digital collimators Adaptive Image Processing
 Anatomical Programs, Bone: Extremities, Trunk, Heart, Abdomen and soft. Object and motion detected dose
 Automatic dose reduction and metal correction.
 Image Acquisition and auto save.
 Digital Memory Storage capacity: up to 20,000 images Patient-based data management with 16-

image mosaic display
 DICOM 3.0 interface (LAN interface or WLAN connection) for digital network integration.
 Emergency stop button on the C-arm
 Power supply: 100-240 VAC ($\pm 10\%$), 50 /60 Hz
 Lead apron (double sided), gonard shield. 0.5mm Pb (2 Set)
 Disposable sterile covers (Qty 100)
 Accessories: Complete with all standard accessories.

Country of manufacturer: USA/EU/JAPAN/UK/China or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 5% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 15+ installations of the equivalent model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) (Any 2) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin (Embassy Attested)

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
17.	Vital Sign Monitor	10 Units

Operation Mode: Manual, automatic, Continual

Display: Large display

Alarm: Audible & Visual

Patient Type display: Pediatric & Neonatal

Standard Parameter: NIBP, SPO2, PR, TEMP

NIBP:

Measuring unit: mmHg/KPa (selectable) Systolic, diastolic, MAP and Pulse

Measurement range:

Pediatric: SYS: 40 – 200 mmHg

DIA: 10 – 170 mmHg

Neonatal: SYS: 40 – 130 mmHg

DIA: 10 – 100 mmHg

Resolution: 1 mmHg

Accuracy: ± 3 mmHg

SPO2:

Measurement range: 0 – 100%

Resolution: 1%

Accuracy: 70% – 100% $\pm 2\%$

Pulse rate: 20 – 250 bpm

Resolution: 1 bpm

Accuracy: ± 2 bpm

Power Supply: 100 – 240 Vac 50/60Hz
 Battery: Removeable & rechargeable with up to 3Hrs use between recharges

Portable trolley with 4 dual wheeled casters with functional brake in 4 wheels

All accessories, optional upgrades and consumables must be quoted.

Country of manufacturer: USA/EU/JAPAN/UK/China or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 5% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 100+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin (Embassy Attested)

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
18.	Blood Warmer	2 Units

Warm fluid/blood to a temperature range of 37- 40-degree C Maintain or warm fluid/blood at a flow rate of 2.5 l/min Digital temperature display of fluid.
 Inbuilt water tank/ dry in line heating system to warm the infused fluid/blood.
 Warm water column or heated sleeve up to the patient end to maintain the temperature up to the point of entry into the vein.
 Alarms for disconnections, less water and over temperature Should be useful for both in adult and pediatric patients.
 Consumable should be open and not bound to specific manufacturer Include 50 consumable set

Country of manufacturer: USA/EU/JAPAN/UK/China or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 10+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be

quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
19.	Video Laryngoscope	1 Unit

3.5" or better Full View High-Resolution Scratch-Resistant & Anti-Glare HD Monitor. LED illumination

High-Resolution Camera with Field Angle 66°.

Camera luminance; ≥800Lux

Auto Anti-Fog Function Upon Powering On.

Internal Built-in / Memory Card for Videos & Images.

Rechargeable Lithium

Battery Pack for Long Backup.

Approximately Working Time; ≥300Minutes.

Reusable Blades Sizes; 00,0,1,2,3,4,5 Sizes

Disposable Blades Sizes; 00,0,1,2,3,4,5 Sizes (prices must be quoted separately)

All accessories, optional upgrades and consumables must be quoted.

Country of manufacturer: USA/EU/JAPAN/UK/China or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 7% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 10+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin (Embassy Attested)

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
20.	X-Ray Viewer – 3 Films	10 Units

LED source without flicker providing a comfortable reading experience color temperature: around 7200K

Light intensity adjustable LED Life Span 100,000 Hours

Country of manufacturer: USA/EU/JAPAN/UK/China/Turkey or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model.

Must have trained engineer, with all spare parts and calibration tools as per manufacturer recommendation in Karachi and 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
21.	Dialysis Machine	2 Units

Standard Model with: Single pump single needle

- UF/Conductivity profile
- Bicarb Online Monitoring
- Na+ Online Monitoring
- Heat Disinfection System
- Treatment settings data can be stored for up to 15 patients
- Large graphic display 7" for easy operation
- Safety: Continuous monitoring of pumps and valves during treatment
- Easy Maintenance: Flow diagram for checking the function of each part of the hydraulic circuit
- Machine and treatment history data
- Power Supply: AC (single-phase), 220 to 240 & 50/60Hz±1Hz
- Backup battery: 1.5 hours
- Water Supply
- Pressure range of water supply: 70 to 300 kPa
- Temperature: 10°C to 30°C

Dialysate Flow Rate (Qd) Setting range: 200 to 700ml/min

Dialysate Temperature Setting range: 33°C to 40°C

Dialysate Conductivity

- Bicarbonate Conductivity:
- Setting range: 1.5 to 7.0 mS/cm
- Total Conductivity:
- Setting range: 12.5 to 15.5 mS/cm

Disinfection method Chemical, heat, or citric acid/heat

- UF Control System UF rate setting range: 0 or 0.1 to 4.0L/h (10ml step)

Accuracy: 130ml/h (Qd 300 to 500mL/min) ±0.1% of Od (Od 501 to 700mL/min)

- Blood pump: Flow rate setting range: 30 to 600mL/min
- Air detector: Ultrasonic, Sensitivity (blood flow rate 250 mL/min)

Normal bubbles: 0.02mL / Micro bubbles (blood/air mixture): 0.0003mL

- Blood leak detector: Optical, Sensitivity: 0.5 mL blood/ IL dialysate (Blood Hematocrit 20%, Dialysate temperature: 37°C)

All accessories, certified reference material and consumables must be quoted.

Country of manufacturer: USA/EU/JAPAN/UK or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 7% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 50+ installation of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
22.	Stretcher (ER & Recovery)	10 Units

Portable 4-fold stretcher system, robust light weight easy to operate
Side tubes fit with feet; raising stretcher 9-11cm from floor level
Four fixed handles, finished with rubber, allow for firm grip during patient transportation
Fixation bars between the side tubes keep the stretcher rigid
A quick-lock-stop facilitates rapid fixation/release of the fixation bars for folding
Folds width-wise and length-wise
Snap-lock buckle belt for securely strapping the patient, is prefixed in the middle of the stretcher
Stretcher is suitable for use with ambulances
With 1 IV pole collapsible

High resistance to corrosion (tropical environment)

Frame: anodized tubular aluminum

Canvas: plastic coated, flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable

Handles: 18-22cm (1)

Must have all spare parts as per manufacturer recommendation in Karachi and 30+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
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Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
23.	Stand IV Antistatic Castors S/S	10 Units

Movable height adjustable infusion stand.
Heavy carriage mounted on 5 swivel castors.
Lower-end support column is deep and securely fixed into the carriage-base.
Solid manual lever at the upper-end of the support column, allows setting telescopic upper part at the required height
A brake prevents exceeding the maximum height setting.
Double hook fixed at the top of telescopic rod.

High resistance to corrosion
Support and telescopic column: Austenitic stainless steel 18/10
Carriage-base: single molded unit, polypropylene.
Caster frame/bracket: polypropylene or nylon.
Caster wheel: twin-wheel, solid-type, non-hooded (for easy maintenance), polypropylene or nylon.
Wheel bearing: polypropylene or nylon.
Castor fixation into carriage base: stainless steel.

Height, adjustable: 140-200 cm.
Carriage-base, diameter: 54-66cm.
Swivel castor twin-wheel: 3.6-4.4 x 4-5.5cm (w x diameter)

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
24.	Trolley Soiled Linen	10 Units

Trolley to hold bag for collection and transportation of soiled linen across a hospital facility.
Heavy carriage mounted on 4 swivel castors, of which two with brake.
Two supports up from the carriage base connect to upper-side ring structure.
Ring, without lid, accommodates removable linen bag.
Washable canvas bag fit with strong draw string.

High resistance to corrosion (tropical environment)
Frame: epoxy coated tubular steel
Bag: canvas, woven nylon
Caster frame/bracket: steel or nylon
Caster brake: total-lock type (wheel and rotational lock)
Caster wheel: single wheel, mold-on type, non-hooded (for easy maintenance)

Trolley, overall: 45-55x81-99cm (diameter x h)
Frame: 2.7-3.3cm (outside, across)
Swivel castor wheel: 2.25-2.75x6.6-8.5 cm (w x diameter)
Carrying capacity: 45-55kg
Linen bag capacity: 90-110L

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
25.	Bucket S/S Wheeled Holder	10 Units

Waste bucket with lever, on heavy mobile holder frame
 Bucket lever pivots and is entirely integrated through robust hinges
 Wide heavy base on 5 swivel castors, two with anti-static wheel
 Bucket sets and removes smoothly from holder frame, leaving the base in place
 Holder frame is finished 360 degree around with rubber bumper

High resistance to corrosion (tropical environment)
 Frame and bucket: Austenitic stainless steel 18/10
 Bumper: rubber
 Caster frame/bracket: steel or nylon
 Caster wheel: single wheel, mold-on type, non-hooded (for easy maintenance), anti-static (for 2)
 Swivel is ball-bearing

Dimensions: (Approx)
 Overall: 36-44x36-44cm (diameter x h)
 Swivel castor wheel: 2-5x4-6 cm (w x diameter)

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
26.	Stand Bowl Single	10 Units

Movable fixed height stand to hold single bowl
 Heavy carriage mounted on 5 swivel castors
 Lower-end support column is deep and securely fixed into the carriage-base
 Support column upper-side fit with ring structure in which matching bowl mounts securely
 Capacity of bowl: 2.7-3.3L

High resistance to corrosion (tropical environment)
 Support column, ring structure and bowl: Austenitic stainless steel 18/10
 Carriage-base: single molded unit, polypropylene or nylon
 Caster frame/bracket: polypropylene or nylon
 Caster wheel: twin-wheel, solid-type, non-hooded (for easy maintenance), polypropylene or nylon
 Wheel bearing: polypropylene or nylon
 Castor fixation into carriage base: stainless steel/zinc plated steel

Height, stand: 90-1100cm
 Basin holder, diameter: 27-33cm
 Carriage-base, diameter: 54-66cm
 Support column: 2.7-3.3cm (outside, across), 1.2-1.8 mm (thickness)
 Swivel castor twin-wheel: 3.6-4.4x4.5-5.5cm (w x diameter)

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
27.	Cabinet Instrument	5 Units

Instruments storage cabinet, double door
 Mounted on 4 sturdy supports, all finished with height adjustable feet
 Recessed safety glass in the doors allows for viewing of cabinet content
 Safety glass is supported by door frame on both sides, leaving no glass edges exposed
 Inside reinforced fixtures facilitate height adjustment of the 4 shelves
 Doors are triple hinged, closed with handle and lockable with key
 Two-point lock, slides in frame at the top and base
 Key is unique for each single cabinet, key-bow folds away from key-blade avoiding breakage when inside lock
 Clearance underneath the cabinet allows for easy cleaning

High resistance to corrosion (tropical environment)
 Adjustable feet: rubber or nylon
 Frame, side panels, base, top and shelves: epoxy coated plate steel
 Doors: hardened safety glass, grounded edges, with key-lock.

Cabinet, overall: 72-88x36-44x170-210cm (l x w x h)
 Clearance underneath: 9-11cm
 Safety glass: 3.6-4.4mm (thickness)
 Front glass area: 65-75%
 Frame, drawer, door and panels: 1-1.4mm (thickness)
 Door, opening angle: 180 degree
 Carrying capacity, each shelf: 22.5-27.5kg

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
28.	Chair Anesthetist	4 Units

Movable height adjustable stool, with pre-assembled gas spring.
 Heavy carriage mounted on 5 swivel castors.
 Height adjusting lever is conveniently placed under seat.
 Seat fit with thick upholstery.
 A brake prevents exceeding the maximum height setting.
 Cushioned back rest.

High resistance to corrosion (tropical environment)
 Support and telescopic column: Austenitic stainless steel 18/10
 Carriage-base: single molded unit, polypropylene or nylon
 Caster frame/bracket: polypropylene or nylon
 Caster wheel: twin-wheel, solid-type, non-hooded (for easy maintenance), polypropylene or nylon
 Wheel bearing: polypropylene or nylon
 Castor fixation into carriage base: stainless steel
 Upholstery: high-density polyurethane foam, density 2.7-3.3kg/m³
 Cover: plastic, flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable

Stool, overall: 54-66x54-66x36-44-54-66cm (l x w x h)
 Seat diameter: 31-39cm
 Upholstery: 3.5-4.5cm (h)
 Carriage-base, diameter: 54-66cm
 Support column, with pre-assembled gas spring: 2-6 cm (outside, across)
 Swivel castor twin-wheel: 3.5-4.5x4.5-5.5cm (w x diameter)
 Carrying capacity: 135-165kg.

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
29.	Step (Foot Stool)	8 Units

Sturdy 2 step level footstool
 Mounted on robust supporting legs spaciouly arranged for maximal stability
 Steps with embossed anti-slip pattern, and feet finished with heavy duty anti-slip rubber ends
 Transfer bars connect all lower distal portions of the supports, providing maximal structural strength
 High resistance to corrosion (tropical environment)
 Anti-slip feet: rubber
 Frame: epoxy coated or chrome plated tubular steel
 Steps: heavy duty solid plastic
 Footstool, overall: 56-68x34-42x38-46cm (l x w x h)
 Frame: 2.5-3.5cm (outside, across), 1.2-1.8mm (thickness)

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
30.	Stool Surgeon Mobile	6 Units

Movable height adjustable stool, with pre-assembled gas spring
 Heavy carriage mounted on 5 swivel castors
 Height adjusting lever is conveniently placed under seat
 Seat fit with thick upholstery
 A brake prevents exceeding the maximum height setting
 High resistance to corrosion (tropical environment)
 Support and telescopic column: Austenitic stainless steel 18/10
 Carriage-base: single molded unit, polypropylene or nylon
 Caster frame/bracket: polypropylene or nylon
 Caster wheel: twin-wheel, solid-type, non-hooded (for easy maintenance), polypropylene or nylon
 Wheel bearing: polypropylene or nylon
 Castor fixation into carriage base: stainless steel
 Upholstery: high-density polyurethane foam, density 2.7-3.3kg/m³
 Cover: plastic, flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable
 Stool, overall: 54-66x54-66x36-44-54-66cm (l x w x h)
 Seat diameter: 31-39cm

Upholstery: 3.5-4.5cm (h)
 Support column, with pre-assembled gas spring: 2-6 cm (outside, across)
 Telescopic upper part: 1.8-2.2cm (outside, across)
 Swivel castor twin-wheel: 3.5-4.5x4.5-5.5cm (w x diameter)
 Carrying capacity: 135-165kg.

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
31.	Table Mayo Height Adjustable	4 Units

Movable height adjustable instrument table, Mayo type
 Heavy carriage mounted on 4 swivel castors, of which two with brake and two with anti-static wheel
 Support column side-on-base, facilitates positioning under low clearance table (e.g. operating table)
 Both castors with brake mounted at the short side of the base
 Solid manual lever allows setting telescopic upper part at required height
 A brake prevents exceeding the maximum height setting
 Upper section fit with smooth finished removable instrument tray
 Instrument tray has raised edges, without openings or gaps allowing to contain spilled liquids
 High resistance to corrosion (tropical environment)
 Frame and tray: Austenitic stainless steel 18/10
 Caster frame/bracket: steel or nylon
 Caster brake: total-lock type (wheel and rotational lock)
 Caster wheel: single wheel, mold-on type, non-hooded (for easy maintenance), anti-static (for 2)
 Wheel bearing: sealed bearing in the swivel and the wheel
 Swivel is ball-bearing
 Height, adjustable: 72-88 to 108-132cm
 Upper tray: 54-66x36-44x2.7-3.3cm (l x w x h)
 Thickness tray: 1.35-1.65mm
 Frame: 2.7-3.3cm (outside, across), 1.35-1.65mm (thickness)
 Swivel castor wheel: 2.25-2.65 x 6.75-7.7.5cm (w x diameter)

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
32.	Trolley Instruments S/S	10 Units

Two flat non-removable shelves
 Heavy carriage mounted on 4 swivel castors, of which two with brake
 Transfer bars connect all lower distal portions of the 4 base, providing maximal structural strength
 Shelves have smooth finishing allowing for easy cleaning
 Fit on one short side with push-bar handle
 Both castors with brake are mounted at the push-bar handle side

Top and bottom shelves have guard rails, along one length and both widths
 With protective bumpers at all four corners
 High resistance to corrosion (tropical environment)
 Frame and tray: Austenitic stainless steel 18/10
 Caster frame/bracket: steel or nylon
 Caster brake: total-lock type (wheel and rotational lock)
 Caster wheel: single wheel, mold-on type, non-hooded (for easy maintenance)
 Wheel bearing: sealed bearing in the swivel and the wheel
 Swivel is ball-bearing
 Thickness shelves: 1.35-1.65mm
 Swivel castor wheel: 2.7-3.3x9-11cm (w x diameter)
 Carrying capacity: 90-110kg

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
33.	Vascular Doppler	1 Unit

4, 5 and 8mhz Doppler probe
 High-Sensitivity Doppler probe
 Ergonomic Design
 6 hours use on single charge
 LCD display
 Heart Rate Range: 50 ~ 240
 Accuracy: $\pm 2\%$
 Ultrasound frequency: 4 / 5 / 8 mhz
 Ultrasound intensity: $< 10\text{mw/cm}^2$
 Speaker Output power: 1.2W
 Audio output for earphone
 Auto shut-off: 5 Minutes

2 Years replacement warranty

Must have 10+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
34.	Dermatome with Mesh Graft	1 Unit

Precise thickness of cut from 0 to 0.03 inch (0 to 0.78mm) in easily adjusted .002 inch (0.05mm) increments.
 Width settings from 1 to 4 inches (2.5 to 10 cm) 1 Inch (2.5cm) increments.
 Blade can be accurately and easily inserted without damaging cutting edge.
 Nominal Speed: 4,500–5,500 cycles/minute
 Hand piece must be easily autoclavable
 Foot switch
 Include width plate and tools
 10 sterile blades to be included
 The dermatome should have powered by an ironless rotor, low inertia motor, which provides nearly vibration-free power.
 Class 1 Degree of Protection Against Electrical Shock: Type BF II The mesh graft dermatome

system. Skin crafts provides for early and rapid skin coverage of large cutaneous defects when minimal donor sites are available.

Expansion ratio: 1½ to 1

Expansion ratio: 3 to 1

Expansion ratio: 6 to 1

Expansion ratio: 9 to 1

Power Requirements: 100–240 V

All accessories, certified reference material and consumables must be quoted.

Country of manufacturer: USA/EU/JAPAN/UK or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime , comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 7% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 20+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
35.	Drill Air Surgical Ortho	1 Unit

Include driving unit, motor, stand, foot control, flexible shaft, tool kit and container.

Cannulated drill hand piece of maximum speed 1200rpm with Non-corrosive Jacob chuck (0-1/4").

Autoclavable.

Cannulated reaming hand piece with maximum speed 400rpm with AO type quick coupling.

Autoclavable.

Pistol grip sagittal saw with a set of 5 blades. Autoclavable.

Should have a flexible reamer shaft 8mm diameter fixed head.

Should have a flexible reamer shaft for detachable heads up to 12mm.

Should have reamer heads from 8mm to 12 mm (set of 9).

Should have reamer heads from 12.5mm to 15mm (set of 6).

Should have flexible reamer shaft for detachable heads up to 15mm. Autoclavable.

Should have an extra flexible shaft for driving unit autoclavable.

Should work with input 200 to 240Vac 50 Hz supply

All accessories, certified reference material and consumables must be quoted.

Country of manufacturer: USA/EU/JAPAN/UK or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime , comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 7% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 20+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
36.	Drill Motor ENT	1 Unit

Should have a micro motor with variable speed from 10,000 to 60,000rpm.
 Should have at least four speed control modes.
 Should have an brushless dc motor for continuous high speed performance
 Should have ON and OFF control for console and speed acceleration foot control
 Should have integrated irrigation pump
 Should be supplied with straight hand piece for micro motor and contra angle hand piece for micro motor.
 Should be supplied with the following Burs set.
 Tungsten Carbide burs - 10 nos. (Assorted sizes)
 Diamond burs - 10 nos. (Assorted sizes)
 Steel cutting burs - 10 nos. (Assorted sizes)
 Should work with input 200 to 240Vac 50 Hz supply.
 Should have forward and reverse mode.
 All accessories, certified reference material and consumables must be quoted.

Country of manufacturer: USA/EU/JAPAN/UK or Equivalent

Warranty: 03 Years comprehensive warranty including service, spare parts, from date of installation with 98% uptime, comprehensive annual maintenance contract with 98% uptime from 4th to 10th year must be 7% or less.

Technical support: Must have trained engineer, with all spare parts and tools as per manufacturer recommendation in Karachi and 20+ installations of the similar or better model of same brand in Pakistan. Demo/physical inspection may be requested by technical team. Must train End user and Biomedical Engineer as per manufacturer guidelines.

Documentation: Operational, installation, maintenance, service, spare parts manuals, PPM checklist, software and system backup in soft and physical copy to be provided before installation. Prices of all consumables, accessories and optional software/ hardware must be quoted.

Standards and Certification: ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) for specific quoted model. Original Equipment Manufacturer and Certificate of Origin

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
37.	Trolley Cylinder	10 Units

Frame of the cylinder trolley is made with Mild Steel (M.S.) tubular steel. mounted on two 10cm wheels

Finish in epoxy powder coated Height: 106 cm (approx.)

Standard warranty for 1 year should be provided from the date of supply

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
38.	Scales Baby Digital / Electronic	1 Unit

Should have 5 gm accuracy

Should have a minimum measuring capacity 25 gms.

Should have easy to read LED display

Should measure a maximum weight of 20kgs.

Should have zero calibration.

Should hold the measured value irrespective of the baby movements.

Should have electronic damping facility for eliminating the reading fluctuations caused by moving baby.

Weighing pan should be suitable for weighing new born babies and the construction should not allow the baby to slip from the tray.

The Tray should be made of fiber glass/acrylic.

Should have a pan size of at least 50cms length, 20cms width and 8cms height.

The pan should have facility to measure the length of baby.

Should operate on input supply 200 to 230 Vac, 50 Hz

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
39.	Scales Patient W/Height Measurement	6 Units

Capacity : 180 kg

Accuracy : 100 g

Platter Size : 350 mm x 300 mm (Tolerance +/- 10%)

The scale should be made up of heavy duty. Cast iron structure Platform with powder coated frames.

The display stand height shall be 80cm (Tolerance +/- 10%) from the platform.

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
40.	Saw Plaster with Dust Extractor	1 Unit

Should have a fiber body.
Should be able to cut fiber gauzes.
Blades should be corrosion resistant and highly durable.
Blades should have hexagonal mounting hole.
Should be supplied with 84mm, 74mm, and 64mm diameter blades.
Should be supplied with required tools for replacing the blades, brush and duster.
Should be supplied with carrying case to accommodate the plaster cutter and other accessories.
Should have a protective guard
Should be oscillating type
Should work with input 200 to 240Vac 50 Hz supply.
Additional Accessories: Blades (84mm) - 6Nos

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
41.	Tourniquet Pneumatic	2 Unit

Facility to use single and dual cuff tourniquet with gauges.
Should not require any external high pressure air.
Should have facility to release cuff pressure without disconnecting the cuffs
Should have a cuff pressure from 10 to 400 mmHg
Should be supplied with two sets of cuffs (Upperlimb-2, Lower limb-2) for pediatric and adult size

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
42.	Rack Swab	3 Units

Stainless steel

Two-year replacement warranty (Rust)

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
43.	Rack Shoe & Boot O. T. (12 Pairs)	4 Units

Epoxy powder coated

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
44.	UPS 10 KVA with 30 minutes Backup	3 Units

Input	Phase	1-Phase
	Voltage Range	110-300 VAC
	Input power Factor	≥0.99
	Frequency	46-54Hz or 56-64 Hz
Output	Phase	1-Phase
	Voltage	208/220/230/240 Vac
	Output power Factor	1
	Frequency	50/60 Hz ± 1%
	Current Crest Ratio	3:01
Battery	Voltage -Vdc	240Vdc
	Backup	30 minutes or Higher
	Make	Vision or equivalent
Protection Under/Over Voltage and Phase		
Full Protection	Single Phase	Spike/Surge Suppression Overload, Short Circuit Configurable for 240 1 Phase nominal output voltage
Communications & Management, Interface Port Multi-Function LCD Status and Control Console Audible and Visible Alarms,, Emergency Power Off (EPO)		
Efficiency	AC Mode	94%
	Battery Mode	93%

Warranty: 1 Year Comprehensive Onsite Warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
45.	Stool Powder Coated (C-Curve support)	5 Units

Movable height adjustable stool, with pre-assembled gas spring
Heavy carriage mounted on 5 swivel castors
Height adjusting lever is conveniently placed under seat
Seat fit with thick upholstery
A brake prevents exceeding the maximum height setting
Upholstery: high-density polyurethane foam, density 2.7-3.3kg/m³
Cover: plastic, flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable
Seat diameter: 31-39cm
Upholstery: 3.5-4.5cm (h)
Carriage-base, diameter: 54-66cm
Support column, with pre-assembled gas spring: 2-6 cm (outside, across)
Telescopic upper part: 1.8-2.2cm (outside, across)
Swivel castor twin-wheel: 3.5-4.5x4.5-5.5cm (w x diameter)
Carrying capacity: 135-165kg.

2 Years replacement warranty

Must have 20+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
46.	Kick Step	10 Units

Size: Approx. 50L X 30 W X 35 H cm Aluminum sheet of 1mm thick
Standard warranty for 1 year should be provided from the date of supply

2 Years replacement warranty

Must have 10+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
47.	Cupboard Controlled Drug W/Light	1 Unit

Double door cabinets suitable for the storage of drugs & medicines.
Fitted with an anti-pick and drill, key retaining five pin cylinder lock compliant with
The drug & medicine cabinets with lights fitted have 12v DC lighting/warning system, complete with volt-free contact to allow connection to an additional light, CE marked and conforms to the low voltage directives 73/23/EEC, 89/336/EC and 96/68/EC.

Mounting holes provided in back

Made with 0.9mm mild steel welded construction & finished in durable white epoxy polyester coating.

Dimension: 100cm x 30cm x 90cm

Shelves: 8

Shelve Depth: 19cm

Door Shelves: 8

Light: Yes

Doors: 2

2 Years replacement warranty

Must have 10+ installations of the similar or better model of same brand in Pakistan.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
48.	General Surgery Set	8 Sets

S#	Instruments Description	Qty.
1.	Kidney Tray 10" 4	1
2.	Sponge Holding Forceps 9.5"	5
3.	Towel Forceps 5"	10
4.	Right-angle Forceps	2
5.	Plain Dissecting Forceps 6"	1
6.	Plain Dissecting Forceps 6" Fine	1
7.	Plain Dissecting Forceps 8"	1
8.	Toothed Dissecting Forceps 6"	1
9.	Toothed Dissecting Forceps 8"	1
10.	Adson Diss. Forceps Plain	1
11.	Adson Diss. Forceps Toothed	1
12.	Mosquito Artery Forceps Str. 5"	5

S#	Instruments Description	Qty.
13.	Mosquito Artery Forceps Cvd. 5"	5
14.	Artery Forceps Str. 6" Fine	5
15.	Artery Forceps Cvd. 6" Fine	5
16.	Artery Forceps Str. 8"	5
17.	Artery Forceps Cvd. 8"	5
18.	Allis Tissue Forceps 6"	2
19.	Babcock Tissue Forceps 7"	2
20.	Duval Tissue Forceps 8"	2
21.	Lane Tissue Forceps	2
22.	Denis Brown Intestinal Forceps	1
23.	B.P Handle # 3, 4	4
24.	Needle Holder 6"	1
25.	Needle Holder 8"	1
26.	Mayo Scissors Str. 7"	1
27.	Mayo Scissors Cvd. 7"	1
28.	Metzenbaum Scissors Str. 9"	1
29.	Metzenbaum Scissors Str. 7"	1
30.	Metzenbaum Scissors Cvd. 7"	1
31.	Stitch Scissors	1
32.	Dressing Scissors Str. B/S	1
33.	Lister Bandage Scissors	1
34.	Aneurysm Needle 4 Probe 8"	1
35.	Volkman Scoop	1
36.	Watson Cheyne	1
37.	MacDonald Elevator	1
38.	Durham Dissector	1
39.	Sinus Forceps 7"	1
40.	Yankuer Suction Tube	1
41.	Langenbeck Retractor S,L	2
42.	Morris Retractor 2"	1
43.	Balfour Abdominal Retractor	1
44.	Long Blade Retractor	1
45.	Travers Retractor	1
46.	Senn Muller	1
47.	Single Hook Retractor	1
48.	Double Hook Retractor	1
49.	Butterfly Probe	1
50.	Instrument Box SS 20'X8"X5"	1
2 Years replacement warranty		
Must have 20+ installation of the similar or better model of same brand in Pakistan.		

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
49.	Dressing Set Small	50 Sets

S#	Instruments Description	Qty.
1	B.P Handle # 3	1
2	Tooth Forceps	1
3	Plain Forceps	1
4	Bandage Scissor	1

S#	Instruments Description	Qty.
5	Needle Holder	1
6	Gallipot	2
7	Metz Scissor (Cvd)	1
8	Mosquito artery (Cvd)	1
9	Crile Artery (Cvd)	1
10	Kidney Dish (Medium	2
<i>Two years replacement warranty</i>		
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>		

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
50.	Dressing Set Large	30 Sets

S#	Instruments Description	Qty.
1	B.P Handle # 3	01
2	Tooth Forceps	01
3	Plain Forceps	01
4	Bandage Scissor	01
5	Needle Holder	01
6	Gallipot	02
7	Mosquito artery (Cvd)	01
8	Kidney Dish Small	02
9	Instrument tray –medium	01
10	Sponge holder-small	01
<i>Two years replacement warranty</i>		
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>		

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
51.	Tracheostomy Set	4 Sets

S#	Instruments Description	Size	Qty.
01.	B.P handle	#3	01
02.	B.P handle	#7	01
03.	Mayo scissor str	15 cm	01
04.	Metz scissor cvd	15 cm	02
05.	Metz scissor str	15 cm	01
06.	Tenotomy scissor (stevens) – Curved	11 cm	02
07.	Iris scissor – Curved	11cm	02
08.	Tissue forceps (semken) touch	12.5cm	1
09.	Adson toothed forceps	12cm	02
10.	Adson plan forceps	12 cm	02
11.	Tissue forceps toothed	12.5 cm	02
12.	Plan forceps	12.5 cm	01
13.	Mosquito artery forceps – Straight	12.5 cm	04
14.	Mosquito artery forceps – Curved	12.5 cm	06
15.	Crile artery forceps – Straight	14 cm	04
16.	Crile artery forceps – Curved	14 cm	06

S#	Instruments Description	Size	Qty.
17.	Sponge holder (Ballenger)	18 cm	01
18.	Hook – Blunt	16 cm	02
19.	Senn-muller retractor	16 cm	02
20.	Self (weitlaner) retractor – Sharp + Blunt	10.5 cm	02
21.	Needle holder (wedster)	13 cm	01
22.	Mayo needle holder	14 cm	01
23.	Towel clips	10 cm	05
24.	Frazier suction – 12 cn. G	17 cm	01
25.	Yankeur suction		01
26.	Kidney tray	12 cm	01
27.	Kidney tray	25 cm	01
28.	Galli pot	300ml	02
29.	Instrument Hanger		01
30.	Instruments tray		01
<i>Two years replacement warranty.</i>			
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>			

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
52.	Basic Set Traumatology Large	10 Sets

S#	Instrument Name	Size	Qty
1	Long Artery cvd	23 cm	06
2	Long Artery Straight	24 cm	06
3	Long Artery cvd	24 cm	06
4	Gut Grasping Forcep	23 cm	02
5	Long Fine Forcep	25cm	02
6	Potts Smiths Scissors 45 degree		01
7	Debakey –Tc- Scissor 60 degree		01
8	Long Plain Forcep	25cm	01
9	Long Plain Forcep	30cm	01
10	Probe 1mm	20cm	01
11	Probe 1mm	16cm	01
12	Needle Holder-Debakey-Tc	26cm	01
13	Needle Holder-Debakey-Tc	31cm	01
14	Atraumatic Debakey Forcep	30cm	01
15	Atraumatic Debakey Forcep	24cm	01
16	Atraumatic-Artery Forcep-Debakey cvd	26cm	02
17	Atraumatic-Artery Forcep-Debakey Straight	26cm	02
18	Doyen Intestinal Clamp Forcep cvd	23cm	02
19	Doyen Intestinal Clamp Forcep Straight	23cm	02
20	Non-Crushing Intestinal Clamp Straight	23cm	02
21	Non-Crushing Intestinal Clamp cvd	23cm	02
22	Backs Dilator (Desjordan)		1set
23	Bladder Retractor-Thomson-Walker		1
24	BP Handle	#3	02
25	BP Handle	#4	02
26	BP Handle	#7	02
27	Sponge Holder	25cm	04
28	Towel Clips	13cm	12
29	Gallipot		05

S#	Instrument Name	Size	Qty
30	Kidney Tray	Large	02
31	Kidney Tray	Small	02
32	Mayo Scissor (L) cvd-TC	23cm	02
33	Mayo Scissor (L) str-TC	23cm	02
34	Mayo Scissor cvd-TC	17cm	01
35	Mayo Scissor str-TC	17cm	02
36	Metz Scissor (L) cvd-TC	23cm	02
37	Metz Scissor cvd-TC	20cm	02
38	Metz Scissor cvd-TC	18cm	04
39	Metzenbaum Scissor cvd	28cm	01
40	Bandage scissor str-TC	14.5cm	01
41	Mosquito artery str	12.5cm	02
42	Mosquito artery cvd	12.5cm	06
43	Crile artery str	14cm	10
44	Crile artery cvd	14cm	20
45	Fine tip Bengolea artery cvd	20 cm	05
46	Fine tip Bengolea artery cvd	26 cm	05
47	Allis tissue forceps 6"	15 cm	06
48	Allis tissue forceps 11"	19 cm	04
49	Allis tissue forceps	24 cm	04
50	Duval lung forceps (L)	20 cm	04
51	Babcock forceps 11" (M)	28cm	02
52	Babcock forceps (L)	24 cm	02
53	Kocher Forceps str	21.5 cm	02
54	Lahey Forceps (S)	20 cm	04
55	Lahey Forceps (M)	22 cm	04
56	Lahey Forceps(L)	23 cm	04
56	Mixture- monium artery	15 cm	02
57	Mixture- monium artery	19 cm	02
58	Mixture- monium artery	23 cm	02
59	Robert Artery cvd	22 cm	12
60	Robert Artery str	22 cm	12
61	Long artery- sarot cvd	24 cm	02
62	Long artery- sarot str	24 cm	02
63	Self-retractor- TRAVERS	20 cm	02
64	Fine needle holder-TC	13 cm	04
65	Fine needle holder-TC	15 cm	02
67	Fine needle holder-TC	18 cm	02
68	Fine needle holder-TC	20 cm	04
69	Fine needle holder-TC	23 cm	02
70	DeBakey needle holder	31 cm	01
71	Mayo hegar needle holder-TC	16 cm	02
72	Mayo hegar needle holder-TC	18 cm	02
73	Mayo hegar needle holder-TC	20 cm	02
74	Mayo hegar needle holder-TC	24 cm	02
75	DeBakey dissecting forceps	16 cm	02
76	DeBakey dissecting forceps	20 cm	04
77	DeBakey dissecting forceps	24 cm	02
78	DeBakey dissecting forceps	30 cm	02
79	Plain forceps	11.5 cm	02
80	Plain forceps	13 cm	02
81	Plain forceps	16 cm	02
82	Plain forceps	20 cm	02
83	Plain forceps	25 cm	02

S#	Instrument Name	Size	Qty
84	Tooth forceps	11.5 cm	04
85	Tooth forceps	13 cm	02
86	Tooth forceps	16 cm	02
87	Tooth forceps	20 cm	02
89	Tooth forceps	25 cm	02
90	Potts-Smith	25 cm	02
91	US army retractor		02
	<i>Atraumatic artery & blood vessels clamps</i>		
92	DeBakey-pean curved	20.5cm	02
93	DeBakey-pean curved	26 cm	02
94	DeBakey-pean straight	20.5 cm	02
95	DeBakey-pean straight	26 cm	02
96	DeBakey Vesular clamp	16 cm	02
97	Leland jones	19 cm	02
98	Potts scissor	26 cm	02
99	DeBakey vesicular clamp	26 cm	02
100	Satinsky clamp	20 cm	02
101	Satinsky clamp	25 cm	02
102	DeBakey vesicular clamp	26 cm	02
103	Satinsky clamp	20 cm	02
104	Satinsky clamp	25 cm	02
105	DeBakey calmp	19 cm	02
106	Derra calmp	18 cm	02
107	Sarot-left	23 cm	02
108	Sarot-right	23 cm	02
109	Bronchus clamps-price-Thomas	22 cm	02
110	Curette-Volkman double handle	20cm	02
111	Rib rasp L-child		01
112	Bone nebular (L)	22 cm	02
113	Bone nebular (S) Ruskin	18 cm	02
114	Lung Spatula	32 cm	01
115	Lung Spatula	16 cm	01
116	Davidson scapula retractor 75x90mm	16 cm	01
117	Davidson scapula retractor 75x50mm		01
118	Pool suction-30FG		01
119	Yankeur suction		01
120	Deaver Retractor 1inch		01
121	Deaver Retractor 2inch		02
122	Deaver Retractor 4inch		01
123	Kelly Retractor-150X39MM/265MM		02
124	Morris retractors		02
125	Gerald forcep large	20cm	02
126	Gerald forcep small	15cm	02
127	Bulldog clamp-large straight		01
128	Bulldog clamp- curved		01
129	Farabuf elevator		01
130	Mcindoe nasal chisels		01
131	French Osteotomes (5,7,9,11 mm) wide	5mm,7mm, 9mm,11mm	01each
132	Hammer fabric handle		01
133	Pointed Reduction Forceps		01
134	Wood Handle (curette) long		01
135	Bone lever set –small medium, large		02 each

S#	Instrument Name	Size	Qty
136	Lane bone holding forceps	12 inch	02
137	Sequestrum forcep	8 inch	02
138	Gouges 10,15,20,25mm	10mm,15mm, 20mm,25mm	01 each
139	Hohmann-spike retractor-18mm wide		04
140	Instruments hanger	14 cm	10
141	Instruments tray (L)		02
<i>Two years replacement warranty.</i>			
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>			

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
53.	Basic Set Traumatology Small	10 Sets

S#	Instrument Name	Qty.
1	B.P Handle # 3	01
2	B.P Handle # 4	01
3	B.P Handle # 7	01
4	Diathermy Forcep “6”	01
5	D/F Debeky 8”	01
6	Bionet Tooth Forcep 7”	02
7	Bayonet Plain Forcep 9”	02
8	Bayonet Tumer Holding Forcep 9”	02
9	Bayonet Plain Forcep 9”	02
10	Bayonet Sharp Tip Forcep 9”	02
11	Metzenbaum Scissor 7” (Cvd)	02
12	Metzenbaum Scissor 8” (Cvd)	02
13	Metzenbaum Scissor 7” (St)	01
14	Metzenbaum Scissor 8” (St)	02
15	Bandage cutting scissor	02
16	Needle Holder 6”	02
17	Needle Holder 8”	02
18	Needle Holder 8”	01
19	Needle Holder 9”	01
20	Mosquito curved	12
21	Mosquito straight	12
22	Crille A/F curved 07”	12
23	Crille A/F straight 06”	12
24	Allies T/F 06”	04
25	Allies T/F 08”	04
26	Lister Sinnus	01
27	Spong Holder	03
28	Towal Clip	08
29	Peturty Rounger 02mm (St)	01
30	Peturty Rounger 03mm (St)	01
31	Peturty Rounger Up Word 02mm	02
32	Bone Pouch 01mm	01
33	Bone Pouch 02mm	01
34	Bone Pouch 03mm	01
35	Rib Cutter	01
36	Bone Nibler (Cvd)	01

S#	Instrument Name	Qty.
37	PaniPacker (St)	01
38	Self Retaning Retector (Cvd)	02
39	Self Retaning Retector (St)	01
40	Laging Back Retrctor (Medium)	02
41	Laging Back Retrctor (Small)	02
42	Gigli Saw (Guide)	02
43	Gigli Saw Handle	02
44	Gigli Saw wire	01
45	Elevator Dissector	01
46	Brain Needle	02
47	Hadson Bur	01
48	Bar Extension	01
49	Perforator	05
50	Bur	03
51	Kidney Dish – Small	02
52	DISSECTING FORCEP ADSON TOOTH	02
53	ARTERY FORCEP KOCHER STRAIGHT 8^	04
54	HOOK NERVE BLUNT SMALL	02
55	HOOK NERVE BLUNT LARGE	02
56	TRAY KIDNEY PLASTIC 200mmx70mm - 10 inch	02
56	GALLIPOT 80MM (3.5^)- 280ML	04
57	RETRACTOR LANGENBACK MEDIUM	02
58	RETRACTOR WEST-SELF 3/4 SHARPE CVD – 5”	02
59	RETRACTOR KILNER SKIN	02
60	SUCTION TUBE FRAZIER WITH STILATE # 6	02
61	SUCTION TUBE FRAZIER WITH STILATE # 8	02
62	SUCTION -FRAZIER WITH STILATE # 14	02
63	SUCTION FRAZIER WITH STILAT #12	02
64	GAUGE DURAY 10MM	02
65	DISSECTOR MCDONALD (13-689-19)	02
67	DISSECTOR WATSON CHYNE	02
68	ELEVATOR PENFIELD SINGLE-END	02
69	DISSECTOR ADSON tooth	02
70	RETRACTOR LANGENBACK – Medium	
71	RETRACTOR MOLLISON 4/4 CURVED SHARP - 6.5"	02
72	RETRACTOR MASTOID SMALL CVD	02
73	RETRACTOR BRAIN MALIABLE	02
74	RETRACTOR RACK MED (BT-260R)	02
75	KERRISON BONE PUNCH 3mm	02
76	ROUNGEUR PITUITARY STRIGHT 2mm	02
77	ROUNGEUR PITUITARY STRIGHT 4mm	02
78	KERRISON BONE PUNCH 2mm	02
79	NEEDLE BRAIN LARGE	02
80	Instrument hanger	04
81	INSTRUMENT TRY (4 COMPARTMENTS 270*180*41MM	02
<i>Two years replacement warranty.</i>		
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>		

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
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Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
54.	Bone Instruments Set	2 Sets

S#	Instrument Name	Size	Qty.
1.	BP Handle	#3	4
2.	BP Handle	#4, 4L	6
3.	BP Handle	#7	4
4.	Metz Scissor cvd	6"	4
5.	Metz Scissor	7"	4
6.	Metz Scissor	8"	4
7.	Mayo Scissor std	6"	4
8.	Mayo Scissor std	7"	4
9.	Tooth Forceps	6"	4
10.	Tooth Forceps	7"	6
11.	Plain forceps	7"	4
12.	DeBakey Forceps	6"	4
13.	Mosquito Artery cvd	4"	8
14.	Crile Artery Forceps cvd		10
15.	Kocher std	6"	4
16.	Kocher Forceps std	8"	4
17.	Allis Tissue Forceps	8"	8
18.	Monium	8"	4
19.	Leg Forceps	9"	4
20.	Needle Holder	6"	4
21.	Needle Holder	8"	4
22.	Vulsulum Forceps		4
23.	Langen Back Retractor	Med	4
24.	Langen Back Retractor	L	4
25.	Morris Retractor		4
26.	Sponge Holder		4
27.	Walksman Curette		4
28.	McDonald dissector		04
29.	Self-Retractor	Med	4
30.	Gallipot Large		4
31.	Gallipot Small		4
32.	Kidney Tray		6
33.	Towel Clip		10
34.	Bone Lever SET		8
35.	Bone Nebular	S/M	4
36.	Bone Cutter	L	4
37.	Bone Cutter	M	4
38.	Wire Cutter		4
39.	Wire Pliar		4
40.	Cicustum Forceps		4
41.	Osteotom Handle		4
42.	Angle Device		4
43.	Loop Device		4
44.	Pointed Reduction Forceps		4
45.	Giggly Saw Handle		4
46.	Periostum elevator		4
47.	Bristo		4
48.	Bone File		4
49.	Wood Handle (curette)		6
50.	Hammer		4

S#	Instrument Name	Size	Qty.
51	BONE Holding Forcep		04
52	INSTRUMENT TRAY-XXL	LARGE	01
<i>Two years replacement warranty.</i>			
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>			

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
55.	Hand Surgery Set	2 Sets

S#	Instrument Name	Size	Qty.
01.	BP Handle	#3	02
02.	BP Handle	#4	02
03.	BP Handle	#7	02
04.	Metz Scissor curved	4 inch	04
05.	Metz Scissor curved	6"	04
06.	Metz Scissor curved	7"	04
07.	Mayo Scissor curved	7"	04
08.	Metz Scissor straight	6"	04
09.	Mayo Scissor straight	8"	04
10.	Iris Scissor straight	5inch	04
11.	Iris Scissor straight	5inch	04
12.	Adson Tooth Forceps	4.5inch	04
13.	Adson Plain Forceps	4.5inch	04
14.	Dissecting Tooth forceps	4"	04
15.	Dissecting Tooth forceps	6"	04
16.	DeBakey Forceps		04
17.	Mosquito Artery Forceps curved		18
18.	Mosquito Artery Forceps straight		12
19.	Crile Artery Forceps curved		12
20.	Crile Artery Forceps straight		12
21.	Kocher curved	4"	08
22.	Right Angle/ Mixer Forceps		04
23.	Allis Tissue Forceps	6"	06
24.	Needle Holder	6"	06
25.	Needle Holder	7"	04
26.	Right Angle Retractor	Small	08
27.	Cat Paw Retractor blunt		04
28.	Cat Paw Retractor sharp		04
29.	Skin Hook		08
30.	Fear Dissector		04
31.	McDonald Dissector		02
32.	Curette		02
33.	Self-Retaining Retractor	Small	04
34.	Self-Retaining Retractor	Medium	04
35.	Miltex Self Retaining Retractor	Small	04
36.	Hammer		02
37.	Pliar		02
38.	Bone Curette	Small	04
39.	Bone Nebular	Small	04
40.	Amputation Saw		01
41.	Reduction Clamp		04

S#	Instrument Name	Size	Qty.
42.	Reduction Clamp pointed		04
43.	Periosteum Elevator		04
44.	Osteotome	4,6,8,10mm	08
45.	Human Retractor		08
46.	Suction Nozzle Dental		02
47.	Sponge Holder		06
48.	Towel Clips		10
49.	Kidney Tray	Large	06
50.	Kidney Tray	Small	06
51.	Gallipot	Small	04
52.	Gallipot	Large	04
53.	Instruments tray large	Large	01
54	Instrument hanger	Standard	04
<i>Two years replacement warranty.</i>			
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>			

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
56.	Micro Instruments for Nerves	2 Sets

S#	Instrument Name	Qty.
1	MICRO-SCISSORS RND-HDL STR S/S145MM	1
2	MICRO-SCISSORSRND-HDLCVD S/S145MM	1
3	RND BODY SUTURE FORCEPSSTR0.3MM150MM	1
4	RND BODY SUTURE FORCEPSCVD0.3MM150MM	1
5	MICRO-NEEDLE HOLDER W/CATCH CVD 150MM	1
6	JACOBSON PROBE W/BALL-TIP185MM	1
7	YASARGIL MICRO RASP CVD BLUNT185MM	1
8	KRAYENBUEHL NERVE/VESSEL HKSHARP184MM	1
9	VESSEL DILATOR D:1.0MM 125MM	1
10	BIEMER VESSEL CLIP 6MM 30-40G FORCE	2
11	BIEMER VESSEL CLIP 9MM 30-40G FORCE	2
12	BIEMER VESSEL CLIP 9MM 20-25G FORCE	2
13	APPLYING FORCEPSF/BIEMER W/LOCK140MM	1
14	BIEMER-MUELLER APPROXIMATOR STR 9MM	1
15	BOTTOM FOR 1/1 CONTAINER HEIGHT:120MM	1
16	PRIMELINE PRO 1/1 LID GOLD Sterlization container Validated for 5000 Cycles	1
17	SILICONE CUSHIONING PAD 1/1 SIZE	1
18	1/1 SIZE PERF BASKET 540X253X56MM	1
<i>Two years replacement warranty.</i>		
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>		
Country of Origin: UK / USA / EU		

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
57.	Amputation Set	2 Sets

S#	Instrument Name	Size		Qty.
1	TOWEL CLIPS	5.5"	14-944	08
2	PLAIN FORCEP	6"	12-046	01
3	DEBAKEY FORCEP	6.5"	MG-250-01-F	02
4	DEBAKEY FORCEP	8"	34-102	02
5	TOOTH FORCEP	6"	12-138	02
6	TOOTH FORCEP	7"	12-140	02
7	TOOTH FORCEP	8"	12-142	02
8	ADSON TOOTH	4.5		01
9	ADSON FORCEP (PLAIN)	4.5	-	01
10	B.P HANDLE	# 3	-	01
11	B.P HANDLE	#7	08-067	01
12	B.P HANDLE	# 4		01
13	SPONGE HOLDER	9 inch		02
14	KIDNEY DISH	Large	81300-03	02
15	KIDNEY DISH	Small	-	01
16	BOWL	Large	-	01
17	Right angel fine tip large artery	12 inch		02
18	Right angel fine tip large artery	8 inch		02
19	Us army RETRACTOR		-	02
20	Cat paw RETRACTOR			02
21	RIGHT-ANGLED RETRACTOR	Large	18-604	
22	RIGHT-ANGLED RETRACTOR	Medium	18-602	
23	RIGHT-ANGLED RETRACTOR	Small	18-600	
24	Yankure SUCTION	7"	-	01
25	SELF-RETAINING RETRACTOR	8"		02
26	Mayo SCISSOR (CURVED)	8"	10-127	02
27	Metzenbum SCISSOR (CURVED)	9"	10-125	02
28	Metzenbm SCISSOR (STRAIGHT)	9"	10-124	02
29	Mayo SCISSOR (STRAIGHT)	8"	10-122	02
30	Bandage cutting SCISSOR (STRAIGHT)	5"	10-120	01
31	iriess SCISSOR curved	4"	10-180	01
32	Iriess scissor straight	4"		01
33	NEEDLE HOLDER	9"	21-104	02
34	NEEDLE HOLDER	8"	21-102	02
35	NEEDLE HOLDER	7"	21-100	02
36	NEEDLE HOLDER	6.5"	21-060	02
37	MOSQUITO (CURVED)	5"	14-061	12
38	MOSQUITO (STRAIGHT)	5"	14-060	12
39	CRILE (CURVED)	5.5"	14-101	12
40	CRILE (STRAIGHT)	5.5"	14-100	12
41	ALLIS TISSUE FORCEP	8"	52-082	04
42	ALLIS TISSUE FORCEP	6"	52-020	04
43	BABCOCK	8.5"	-	02
44	KOCKER CLAMP (CURVED)	9.5"		02
45	KOCKER CLAMP (STRAIGHT)	9.5"		02
46	KOCKER CLAMP (STRAIGHT)	8"		02
47	lahey artery	9"	-	01
48	lahey artery	5"		01
49	Gigli saw handle			02

S#	Instrument Name	Size	Qty.
50	volkmann curette double ended		01
51	Bone file		01
52	PERIOSTLE ELEVATOR straight	11.5"	01
53	PERIOSTLE ELEVATOR curved		01
54	Bone Lever-large	8.5"	02
55	Bone neblur bouble action –large		01
62	Bone Saw –large		01
63	Instrument Tray Large		01
Two years replacement warranty.			
Must have 10+ installations of the similar or better model of same brand in Pakistan.			

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
58.	Major Basic Set	4 Sets

S#	Instrument Name	Size	Qty.
1	BP handle no.3	# 3	01
2	BP handle no.4	#4	01
3	BP handle no.7	#7	01
4	Kidney tray large		02
5	Small tray		01
6	Stainless steel bowl 300ml	300ml	02
7	Lotion bowl -65x150ml	65x150ml	03
8	Towel clamps		08
9	Sponge holders 10	20cm	03
10	Adson tooth forcep	4 inch	02
11	De'Bakey forcep 7	7 inch	01
12	De'Bakey forcep 8"	8 inch	02
13	De'Bakey 8" 2mm tip	8" 2mm tip	01
14	De'Bakey Forcep 8"	8 inch	02
15	De'Bakey Forcep 7"	7 inch	01
16	Gut holding forcep	9 inch	02
17	PLAIN FORCEP 7"	7 inch	01
18	GERAD FORCEP 6 AND 8	6 & 8 inch	02
19	Nelson-metzenbaum scissors	7 inch	01
20	Metzenbaum dissecting scissor	5 inch	02
21	Metzenbaum dissecting scissor Golden handle	8 inch	01
22	METZENBAIM SCISSOR	6 inch	01
23	Tanatomy scissor straight	6 inch	01
24	Bandage cutting scissor straight	5 inch	02
25	Mayo-Stille Scissors CVD	7 inch	02
26	Mosquito artery forceps cvd 5"		12
27	Mosquito artery forceps str 5"		12
28	Crile artery curved		12
29	Crile artery Straight		12
30	Spencer-Wells Forceps CVD		06
31	Robert forcep curved		06
32	Robert fine tip 12"		02
33	Allis Forceps-5X6/155MM		04
34	Babcock ATR.Forceps-160MM		02
35	Babcock Tissue/Organ Forceps-220MM		02

S#	Instrument Name	Size	Qty.
36	Kocher-Ochsner Forceps STR -1X2/225MM		02
37	intestinal clamp a traumatic 10" straight		02
38	intestinal clamp a traumatic 10" curved		02
39	Right angle artery Curved fine tip	14.0322.25	01
40	MIXTER Dissecting Forceps	7 inch	01
41	MIXTER Dissecting Forceps	10inch	01
42	MIXTER (BABY) Dissecting Forceps Fine tip	5 inch	01
43	Mayo-Hegar NDL Holder long	10 inch	01
44	Mayo-Hegar NDL Holder long	8 inch	01
45	Needle holder fine tip for 5/0 suture	7 inch	03
46	Needle holder	6 inch	02
47	Needle holder	4 inch	02
48	Fine Needle holder		01
49	Ribbon retractor	2 inch	02
50	Dever Retractors	4 inch	02
51	Morris retractors	Standard	02
52	langenbeck retractor small tip	½ wide tip	02
53	langenbeck retractor large	2inch wide	02
54	Us army retractors	Standard	02
55	Vein retractor	8 inch	02
56	Fraizer(GF354R)	# 12	02
57	Pool suction	Standard	02
58	Yanker suction	standard	01
59	Peanut force	10 inch	02
60	Instrument hanger	Standard	04
61	Instrument tray large (xl)		01
62	PLAIN FORCEP	10 inch	02
Two years replacement warranty.			
Must have 10+ installations of the similar or better model of same brand in Pakistan.			

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
59.	Laparotomy Set	6 Sets

S#	Name of Instruments	Qty.
1	Mayo scissor-straight 14.5cm	01
2	Mayo scissors curved 14.5cm	01
3	Metzenbaum scissor straight 20cm	02
4	Metzenbaum scissor curved 18cm	02
5	Metzenbaum scissor curved 20cm	02
6	Metzenbaum scissor curved 25cm-TC	01
7	POTTS-SMITH SCISSOR-19CM-25 DEGREE -TC	01
8	POTTS-SMITH SCISSOR-19CM-45 DEGREE-TC	01
9	DDEBACKY-SCISSOR-TC-60-DEGREE-TC	01
9	Goldman -fox scissor str-13cm	01
10	Op-scissor sh/bl str-14.5cm	02
11	Scalpel handle #3	01
12	Scalpel handle #4	01
13	Scalpel handle#7	01
14	Mayo Hegar Ndle holder 18CM-TC	01
15	Mayo Hegar Ndle holder 20CM-TC	01

S#	Name of Instruments	Qty.
16	Mayo Hegar Ndle holder 26CM-TC	01
17	Yankauer suction 27cm	01
18	Standard dressing Fcps 14.5cm	01
19	Standard tissue Fcps 1x2T 14.5cm	01
20	Adson dressing Fcps 12cm	01
21	Adson tissue Fcps 12cm	01
22	Russian pattern tissue Fcps 20cm	01
23	Standard dressing Fcps 18cm	01
24	Standard tissue Fcps 18cm	01
25	Halstead mosquito Fcps str 12.5cm	06
26	Halstead mosquito Fcps cvd 12.5cm	12
27	Kelly haemostatic Fcps str 14cm	06
28	Kelly haemostatic Fcps cvd 14cm	24
29	Rochester pean hemostatic Fcps cvd 16cm	12
30	Rochester pean hemostatic Fcps cvd 20cm	06
31	Rochester ochsner Fcps str 16cm	04
32	Mixer hemostic bronchus Ferps 19cm	01
33	Mixer Gall Bladder Fcps Cvd 23cm	04
34	Mixer Baby Hemostatic Fcps14cm	01
35	Backhaus Towel Fcps 13cm	08
36	Sponge holder Fcps 25cm	02
37	Sponge holder-Curved-25cm	01
38	Pool suction 10mm/30FG 23cm	01
39	US A rmy Retractor 21cm	02
40	Ribbon retractor25x330mm	01
41	Ribbon retractor30x330mm	01
42	Ribbon retractor50x330mm	01
43	Deaver Retractor 25x330mm	02
44	Deaver Retractor 50x300mm	02
45	Deaver Retractor- 30CM	01
46	Richardson Retractor 28x20mm	01
47	Kelly retractor 65x50mm 26cm	01
48	Morris Retractor 51x51m	02
49	ROUND BODY/FRITSCH RETRACTOR-24CM	02
50	Kelly retractor 190x38mm,27cm	02
51	Finocchietto-45x45x200mm	01
52	Lahey Gall Duc Fcps cvd 19cm	02
53	Allis Tissue Fcps4x5t,15cm	02
54	Allis Tissue Fcps5x6t 19CM	02
55	Allis Tissue Fcps5x6t,24cm	02
56	Babcock Tissue Fcps 16cm	04
57	Babcock Tissue Fcps 24cm	02
58	Doyen Baby intestinal Fcps cvd 18cm	04
59	DeBakey Atraumatjc Tissue Fcps 1.5mm,20cm	02
60	Doyen intestinal Fcps cvd 23cm	02
61	Doyen intestinal Fcps Str 23cm	02
62	Intestinal clamps-23cm	02
63	Atrumatic intestinal & stomach clamp-23cm	02
64	Kidney Tray 10"	01
65	Kidney tray	01
66	Galipot 4.0z 120ml	03
67	Instrument tray	02
68	Duval grasping Fcps 18cm	02
69	Langenback Retractor21cm-7mm	02

S#	Name of Instruments	Qty.
70	Langenback Retractor 21cm-10mm	02
71	Langenback Retractor 21cm-15mm	02
72	Moynihan cholecystectomy Fcps 22cm	02
71	Stone forcep-23cm	01
72	Stone forcep-22cm	01
73	Stone forcep-22cm	01
74	Stone forcep-22cm	01
75	Roberts Hemostatic Fcps cvd 22cm	02
76	Lane intestinal Fcps Longitu 21.5cm	02
77	Mikulicz intestinal clamp 12x19cm	01
79	Gut holding forceps 22cm	02
80	Instrument hanger	04
81	Instrument tray large	04
Two years replacement warranty.		
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>		

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
60.	Emergency Thoracotomy Set	1 Set

S#	Instruments Name	Size	Qty.
01.	BP Handle	#3	01
02.	BP Handle	#4	01
03.	BP Handle	#7	01
04.	Sponge Holder	25cm	02
05.	Towel Clips	13cm	06
06.	Gallipot		04
07.	Kidney Tray	Large	02
08.	Kidney Tray	Small	01
09.	Mayo Scissor (L) cvd-TC	23cm	02
10.	Mayo Scissor (L) str-TC	23cm	01
11.	Mayo Scissor cvd-TC	17cm	01
12.	Mayo Scissor str-TC	17cm	01
13.	Metz Scissor (L) cvd-TC	23cm	01
14.	Metz Scissor cvd-TC	20cm	01
15.	Metz Scissor cvd-TC	18cm	01
16.	Bandage scissor str-TC	14.5cm	01
17.	Mosquito artery str	12.5cm	02
18.	Mosquito artery cvd	12.5cm	06
19.	Crile artery str	14cm	04
20.	Crile artery cvd	14cm	06
21.	Fine tip Bengolea artery cvd	20 cm	02
22.	Fine tip Bengolea artery cvd	26 cm	04
23.	Allis tissue forceps 6"	15 cm	04
24.	Allis tissue forceps 11"	19 cm	04
25.	Allis tissue forceps	24 cm	04
26.	Duvl lung forceps (M)	medium	04
27.	Duvl lung forceps (L)	20 cm	04
28.	Babcock forceps 11" (M)	18cm	02
29.	Babcock forceps (L)	24 cm	02

S#	Instruments Name	Size	Qty.
30.	Kocher Forceps str	21.5 cm	02
31.	Lahey Forceps (S)	20 cm	02
32.	Lahey Forceps (M)	22 cm	02
33.	Lahey Forceps(L)	23 cm	02
34.	Mixture- monium artery	15 cm	02
35.	Mixture- monium artery	19 cm	02
36.	Mixture- monium artery	23 cm	02
37.	Robert Artery cvd	22 cm	04
38.	Robert Artery str	22 cm	02
39.	Long artery- sarot cvd	24 cm	02
40.	Long artery- sarot str	24 cm	02
41.	Self-retractor- TRAVERS	20 cm	02
42.	Fine needle holder-TC	13 cm	02
43.	Fine needle holder-TC	15 cm	02
44.	Fine needle holder-TC	18 cm	02
45.	Fine needle holder-TC	20 cm	02
46.	Fine needle holder-TC	23 cm	02
47.	DeBakey needle holder	31 cm	01
48.	Mayo hegar needle holder-TC	16 cm	02
49.	Mayo hegar needle holder-TC	18 cm	02
50.	Mayo hegar needle holder-TC	20 cm	01
51.	Mayo hegar needle holder-TC	24 cm	01
52.	DeBakey dissecting forceps	16 cm	01
53.	DeBakey dissecting forceps	20 cm	01
54.	DeBakey dissecting forceps	24 cm	01
55.	DeBakey dissecting forceps	30 cm	01
56.	Plain forceps	11.5 cm	01
57.	Plain forceps	13 cm	01
58.	Plain forceps	16 cm	01
59.	Plain forceps	20 cm	01
60.	Plain forceps	25 cm	01
61.	Tooth forceps	11.5 cm	01
62.	Tooth forceps	13 cm	01
63.	Tooth forceps	16 cm	01
64.	Tooth forceps	20 cm	01
65.	Tooth forceps	25 cm	01
66.	Potts-Smith	25 cm	01
67.	US army retractor		01
	<i>Atraumatic artery & blood vessels clamps</i>		
68.	DeBakey-pean curved	20.5cm	01
69.	DeBakey-pean curved	26 cm	01
70.	DeBakey-pean straight	20.5 cm	01
71.	DeBakey-pean straight	26 cm	01
72.	DeBakey	16 cm	01
73.	DeBakey	15 cm	01
74.	DeBakey	23 cm	01
75.	DeBakey	20 cm	01
76.	Leland jones	19 cm	01
77.	DeBakey	20 cm	01
78.	Potts	26 cm	01
79.	Potts	33 cm	01
80.	DeBakey	26 cm	01
81.	Satinsky	20 cm	01

S#	Instruments Name	Size	Qty.
82.	Satinsky	25 cm	01
83.	DeBakey	18 cm	01
84.	DeBakey	19 cm	01
85.	Derra	16 cm	01
86.	Derra	17 cm	01
87.	Derra	18 cm	01
88.	Sarot-left	23 cm	01
89.	Sarot-left	23 cm	01
90.	Sarot-right	23 cm	01
91.	Sarot-right	23 cm	01
92.	Bronchus clamps-price-Thomas	22 cm	01
93.	SEMB	24 cm	01
94.	Curette-Volksmann		01
95.	Curette-Volksmann		01
96.	Curette-Volksmann		01
97.	Volkman retractor-4P	22 cm	01
98.	Scoop	28 cm	01
99.	Rechardson retractor-(L) 49x36mm		01
100.	Rechardson retractor-(M)		01
101.	Rechardson retractor-(S)28x20mm		01
102.	Right angle retractor-45x15mm	22.5 cm	01
103.	Right angle retractor 60x23mm	22.5 cm	01
104.	Right angle retractor 75x20	22.5 cm	01
105.	Finocchietto-baby		01
106.	Finocchietto-45x45x200mm		01
107.	Tuffier 50x45x165mm		01
108.	Burford-children		01
109.	Burford- adult		01
110.	Rib spreader	16 cm	01
111.	Ronguer	19,5 cm	01
112.	Peiostal	19 cm	01
113.	Rib cutter	26 cm	01
114.	Rib shears-Giertz-stille	27 cm	01
115.	Rib rasp R-adult		01
116.	Rib rasp L-adult		01
117.	Rib rasp R-child		01
118.	Rib rasp L-child		01
119.	Bone nebular (L)	22 cm	01
120.	Bone nebular (S) Ruskin	18 cm	01
121.	Lung Spatula	32 cm	01
122.	Lung Spatula	16 cm	01
123.	Davidson scapula retractor 75x90mm	16 cm	01
124.	Davidson scapula retractor 75x50mm		01
125.	Pool suction-30FG		01
126.	Yanker suction		01
127.	Instruments hanger	14 cm	01
128.	Instruments tray (L)		01
<i>Two years replacement warranty.</i>			
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>			

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
61.	Micro Instruments Set	3 Sets

S#	Name of Instrument	Qty
1	ROZEN KNIFE TITANIUM (FS-RN-6202)	1
2	ELEVATOR TITANIUM (FS-RN-6202)	1
3	DISSECTOR TITANIUM (FS-RN-6206)	1
4	DISSECTOR TITANIUM (FS-RN-6207)	1
5	RIGHT ANGLE HOOK TITANIUM (FS-RN-6209)	1
6	RIHGT ANGLE HOOK TITANIUM (FS-RN-6210)	1
7	ROUND DISSECTOR TITANIUM (FS-RN-6702)	1
8	ELEVATOR FREER LONG TITANIUM (FS-RN-6705)	1
9	SPETULLA DISSECTOR TITANIUM (FS-RN-6707)	1
10	DISSECTOR TITANIUM (FS-R-8935)	1
11	DISSECTOR TITANIUM (FS-R-8937)	1
12	ROZEN KNIFE TITANIUM (FS-R-8940)	1
13	NERVE HOOK TITANIUM (FS-R-8941)	1
14	HOOK TITANIUM (FS-R-8942)	1
15	FORCEP SEPARTOR TITANIUM (FS-R-8954)	1
16	PROBE BAYONET TITANIUM (FS-R-8948)	1
17	KNIFE ARACHNOID ANGLED TITANIUM (FS-RB-9344)	1
18	HOOK FINGER REST TITANIUM (FS-RN-8126)	1
19	HOOK DURA TITANIUM (FS. R-8235)	1
20	FORCEP GERALD TEETH TITANIUM (FS-R-0435)	1
21	DISSECTING FCP SEMKEN TEETH TITANIUM (FS-RT-0145)	1
22	FORCEP BAYONET TITANIUM (FS-RB-9138)	1
23	FORCEP TUMOR ANGLED TITANIUM (FS-RN-8034)	1
24	FORCEP TUMOR ANGLED TITANIUM (FS-RN-8036)	1
25	SCISSOR MICRO CVD TITANIUM (FS-RB-9011)	1
26	SCISSOR YASIRGILL ANG-STR TITANIUM (FS-RN-8020)	1
27	SCISSOR YASIRGILL ANG-CVD TITANIUM (FS-RN-8021)	1
28	SCISSOR MICRO STR TITANIUM (FS-RB-9006)	1
29	NEEDLE HOLDER MICRO WID-LOCK TITANIUM (FS-RN-8297)	1
30	MICRO CUP FORCEP TITANIUM (FS-RB-9617)	1
31	SUCTION MICRO TUBE # 5 TITANIUM (FS-RN-82525)	1
32	FISHING HOOK WITH TOWEL CLIP	3
<i>Two years replacement warranty.</i>		
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>		
Country of Origin: UK / USA / EU		

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
62.	Nasal Fracture Set	1 Set

S#	Name of Instruments	Size	Qty.
01.	Metzenbaum Scissor straight	7 inch	1
02.	ENT knife		1
03.	ENT adson forcep	4 inch	1
04.	ENT ASCH septum forceps		1
05.	Bayonet forcep		2
06.	B.P handle	#7	1
07.	Crile-wood needle holder		2
08.	Smith fragments forceps		1
09.	Plain forceps	8inch	1
10.	Killian nasal speculum		2
11.	Killian nasal speculum		3
12.	Knife guide & retractor		1
13.	Lewis rasp		2
14.	Mallet		1
15.	Nasal speculum set		5
16.	Heymann-turbinectomy scissor		1
17.	Septum forceps		2
18.	Towel clips		2
19.	Telly forceps		2
20.	Cottle retractor blunt		2
21.	Cottle retractor sharp		2
22.	SMR elevator		1
23.	Freer elevator double ended		2
24.	Frazon suction	#12	1
25.	Trocar & cannula		2
26.	Suction tips		2
27.	Bowels		2
28.	Kidney tray Large		1
29.	Kidney tray Small		2
30.	Luc forceps small,medium,large		01 each
31.	Full range of chizzils & rasps		1 set
32.	Cawthorne labyrinthectomy forcep	4 ½ ich	02
33.	Skin hook	7 ½ inch	06
34.	Cawthorne Retractor	6 inch	02
35.	Lempert nibbling forcep angled 3mm jaw	6inch	01
36.	LUC Nasal Turbinate Forcep-heart shape	7 inch	02
37.	Asch septum forcep	9 inch	02
38.	Walsham redressing forcep	8 ½ inch	02
39.	Bone cutting forcep straight	5 inch	02
40.	Williams wire twisting forcep	5 inch	02
41.	Rowe disimpaction foeceps right		01
42.	Rowe disimpaction foeceps left		01
43.	Chin Retractor		01
44.	Needle holder	7 inch	02
45.	Needle holder	6 inch	02
46.	Instrument tray- medium		02
<i>Two years replacement warranty.</i>			
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>			

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
63.	Urethra Set	2 Sets

S #	Descriptions	Qty.
1	DITTEL BOUGIE 8FR 345MM	1
2	DITTEL BOUGIE 10FR 345MM	1
3	DITTEL BOUGIE 12FR 345MM	1
4	DITTEL BOUGIE 14FR 345MM	1
5	DITTEL BOUGIE 16FR 345MM	1
6	DITTEL BOUGIE 18FR 345MM	1
7	DITTEL BOUGIE 20FR 345MM	1
8	DITTEL BOUGIE 22FR 345MM	1
9	DITTEL BOUGIE 24FR 345MM	1
10	GUYON BOUGIE 12FR 255MM	1
11	GUYON BOUGIE 13FR 255MM	1
12	GUYON BOUGIE 14FR 255MM	1
13	GUYON BOUGIE 15FR 255MM	1
14	GUYON BOUGIE 16FR 255MM	1
15	GUYON BOUGIE 17FR 255MM	1
16	GUYON BOUGIE 18FR 255MM	1
17	GUYON BOUGIE 19FR 255MM	1
18	GUYON BOUGIE 20FR 255MM	1
19	GUYON BOUGIE 21FR 255MM	1
20	GUYON BOUGIE 22FR 255MM	1
21	GUYON BOUGIE 23FR 255MM	1
22	GUYON BOUGIE 24FR 255MM	1
23	Introducer for Foley Balloon catheter 18inch	2
24	INSTRUMENT TRAY	02
<i>Two years replacement warranty.</i>		
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>		

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
64.	Abdominal Basic Set	2 Sets

S#	Description	Size	QTY
1.	Intestinal clamp a traumatic 10" straight	10 inch	10
2.	Intestinal clamp a traumatic 10" curved	10 inch	10
<i>Two years replacement warranty.</i>			
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>			

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
65.	Basic Eye Set	1 Set

S#	Instruments Name	Size	Qty.
1	Sinclair iris scissor 7mm blade	2 ½ inch	02
2	Enucleation scissor curved	3 ½ inch	02
3	Enucleation scissor curved	4 ½ inch	02
4	Strabismus scissor straight	3 ½ inch	02
5	Stevens tenotomy scissor curved	4 ½ inch	02
6	Stevens tenotomy scissor straight	4 ½ inch	02
7	St.Martin suturing forcep 1x2 teeth	3 ½ inch	02
8	Cilia forcep plain ,square ended	3 inch	02
9	Cilia forcep plain ,round ended	3 inch	02
10	McPherson iris forcep	3 ½ inch	02
11	Elliot Iris scissor sharp pointed	3 ½ inch	02
12	Iris scissor curved	3 ½ inch	02
13	Arnott needle holder curved jaw	5 ½ inch	02
14	Arnott needle holder straight jaw	5 ½ inch	02
15	Lister eyelid retractor for right eye	3 ½ inch	02
16	Lister eyelid retractor for left eye	3 ½ inch	02
17	Graefe Muscle hook small	5 ½ inch	02
18	Graefe iris forceps straight 1x2 teeth	2 ½ inch	02
19	Graefe iris forceps curved 1x2 teeth	2 ½ inch	02
20	Air injection cannula	1 ½ inch	02
21	Castroviejo scleral marker	3 ½ inch	02
22	Liebreich lachrymal probes siliver double ended	00-0 size	02
23	Liebreich lachrymal probes siliver double ended	1-2 size	02
24	Liebreich lachrymal probes siliver double ended	3-4 size	02
25	Liebreich lachrymal probes siliver double ended	5-6 size	02
26	Foster lachrymal dilator and finder	4 ½ inch	02
27	Mayer lachrymal cannula angular luer lock	1 ½ inch	02
28	Iris Repositor	5 ½ inch	02
29	Iris hook angled right & left both	5 ½ inch	02 each
30	Sterilization case/tray		02
<i>Two years replacement warranty.</i>			
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>			

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
66.	Vascular Surgery Set	1 Set

S#	Instruments Name	Qty
1	MUELLER MICRO-SCISSORS STR S/S 170MM	2
2	MUELLER MICRO-SCISSORS CVD S/S 170MM	2
3	MICRO SCISSORS FINE 45ANG.165MM	2
4	MICRO SCISSORS FINE 125ANG.165MM	2
5	MUELLER MICRO-FORCEPS 0.3MM 160MM	2
6	MUELLER MICRO-FORCEPS 1X2 160MM	2
7	MUELLER MICRO-FORCEPS STR 160MM	2
8	TITANIUM DE'BAKEY ATR.FORCEPS 1.5/195MM	2

S#	Instruments Name	Qty
9	GERALD FORCEPS DEL STR 175MM	2
10	TITAN DIAD.MICRO NEEDLEHOLD.RD HDL 185MM	2
11	DIADUST MICRO NEEDLE HOLDER RD HDL 145MM	2
12	DIADUST MIC NDL HDL RD HDL W/O LK 145MM	2
13	BIEMER VESSEL CLIP 6MM 30-40G FORCE	4
14	BIEMER VESSEL CLIP 9MM 20-25G FORCE	4
15	APPLYING FORCEPSF/BIEMER W/LOCK145MM	4
16	BIEMER-MUELLER APPROXIMATOR STR 9MM	2
17	BIEMER-MUELLER APPROXIMATOR DELSTR9MM	2
18	GUYON KIDNEY CLAMP 235MM	2
19	GUYON KIDNEY CLAMP 230MM	2
20	GUYON KIDNEY CLAMP 280MM	2
21	MINI-BULLDOG CLAMP CVD.14/35MM	4
22	VESSEL SPREADER BIEMER 160MM	2
23	KRAYENBUEHL NERVE HOOK SMOOTH SM.185MM	2
24	MUELLER MICRO NEEDLE HOLDER CVD 180MM	2
25	VESSEL DILATOR D:1.0MM 125MM	2
26	TC BABY-METZ SCISSORSDEL CVDB/B145MM	2
27	DE'BAKEY VESSEL SCISSORS 60DG 155MM	2
28	POTTS-DE MARTEL SCISSORS60DGS/S185MM	2
29	DIETRICH VESSEL SCISSORS 120DG 170MM	2
30	DEBAKEY BULDGX-ACT25MMJAWSTR80M	1
31	DEBAKEY BULDGX-ACT58MM JAWCVD114MM	1
32	ALPHA VASCULAR CLAMP ANGLED 350 GRAMS	2
33	Scalpel	2
34	Adson forceps teeth	2
35	Baby mixture (right angle lehy) in small and medium size.	2
36	Skin hooks	2
37	Cats paw retractor	2
38	Self-retaining retractor small and medium.	2
39	Castroviejo locking	1
40	Castroviejo nonlocking	1
41	Vein cannula (metal needle) small and medium	2
42	Metallic tunelers small medium and large (straight and curved)	2
43	Alligator forceps flexible medium and large	2
44	Vein dilators all size	1
45	Bulldogs with fine jaws	4
46	Kidney dish	2
47	Metallic pots	4
48	Sterilizable basket	1
<i>Two years replacement warranty.</i>		
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>		
<i>Country of Origin: UK / USA / EU</i>		

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
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Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
67.	Bone Wiring Set	2 Sets

S#	Instrument Name	Size	Qty.
1.	BP Handle	#3	02
2.	BP Handle	#4,4L	02
3.	BP Handle	#7	02
4.	Metz Scissor cvd	6"	02
5.	Metz Scissor	7"	02
6.	Metz Scissor	8"	03
7.	Mayo Scissor std	6"	01
8.	Mayo Scissor std	7"	02
9.	Tooth Forceps	6"	02
10.	Tooth Forceps	7"	04
11.	Plain forceps	7"	02
12.	DeBakey Forceps	6"	03
13.	Mosquito Artery cvd	4"	08
14.	Crile Artery Forceps cvd		10
15.	Kocher std	6"	04
16.	Kocher Forceps std	8"	04
17.	Allis Tissue Forceps	8"	04
18.	Monium	8"	04
19.	Needle Holder	6"	04
20.	Needle Holder	8"	04
21.	Vulsulum Forceps		02
22.	Langen Back Retractor	Med	04
23.	Langen Back Retractor	L	04
24.	Morris Retractor		04
25.	Sponge Holder		04
26.	Walksman Curette		04
27.	McDonald		01
28.	Self-Retractor	Med	02
29.	Gallipot Large		04
30.	Gallipot Small		04
31.	Kidney Tray		06
32.	Towel Clip		10
33.	Bone Lever		08
34.	Bone Nebular	S/M	04
35.	Bone Cutter large	L	04
36.	Bone Cutter medium	M	04
37.	Wire Cutter -large		02
38.	Wire Pliar		04
39.	Pointed Reduction Forceps		04
40.	Giggly Saw Handle		04
41.	Periostum		04
42.	Bristo		04
43.	Bone File		04
44.	Wood Handle (curette)		02
45.	WIRE PASSER (45MM)		02
46.	Wire passer (70MM)		02
47.	WIRE HOLDING FORCEP		02
48.	WIRE BENDING PLIERS		02
49.	PARALLEL PLIER		02
50.	WIRE CUTTER LARGE		02

S#	Instrument Name	Size	Qty.
51	WIRE CUTTER small		02
52	WIRE TIGHTENER		02
53	K.WIRE BENDING IRON		02
53	Instruments Tray Large		01
<i>Two years replacement warranty</i>			
<i>Must have 10+ installations of the similar or better model of same brand in Pakistan.</i>			

NOTE:

1. Demonstration / Site visit must be arranged within 03 days on the request of DUHS.
2. DUHS may reject the bid/or part of it, if previous experience in term of supplies and service is not satisfactory.
3. All parts/accessories must be included for complete operation, and all optional parts must be quoted in bid, if not quoted will be considered Free of cost.

Section VI.
Sample Forms

Sample Forms

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1. Bid Form and Price Schedules

NIT / IFB N°: _____

Date: _____

To: *[name and address of Procuring Agency]*

Gentlemen and/or Ladies:

Having examined the bidding documents including Addenda Nos. *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver *[description of goods and services]* in conformity with the said bidding documents for the sum of *[total bid amount in words and figures]* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to deliver the goods *[insert offered delivery schedule]*.

If our Bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to _____ percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Procuring agency.

We agree to abide by this Bid for a period of *[number]* days from the date fixed for Bid opening under Clause 22 of the Instructions to Bidders, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address of agent	Amount and Currency	Purpose of Commission or gratuity
_____	_____	_____
_____	_____	_____
_____	_____	_____

(if none, state "none")

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

Dated this _____ day of _____ 20_____.

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

**2. (A) PRICE SCHEDULE IN PAK RUPEES
Delivered Duty Paid (DDP BASIS)**

FOR GOODS OFFERED WITHIN THE PROCURING AGENCY'S COUNTRY

Name of Bidder _____ . IFB / NIT Number _____ .

S#	Detailed Specification of Goods	Model / Cat No.	Name of Manufacturer	Country of Origin	Quantity of Stores	Unit	Rate Per Unit	Total Price
1	2	2	4	5	6	7	8	9
Total Amount in Pak Rs. on DDP Basis								

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

**2. (B) PRICE SCHEDULE IN FOREIGN CURRENCY
(CFR / CNF/ C&F / CPT - KARACHI BASIS)**

FOR GOODS OFFERED FROM OUTSIDE THE PROCURING AGENCY'S COUNTRY

Name of Bidder _____ . IFB / NIT Number _____ .

S#	Detailed Specification of Goods	Model / Cat No.	Name of Manufacturer	Country of Origin	Port of Shipment	Quantity of Stores	Unit	Currency	Rate Per Unit	Total Price
1	2	3	4	5	6	7	8	9	10	11
Total Amount in Foreign Currency										

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

NOTE:

Port of Shipment and Country of origin of "MAJOR PART(S) OF THE EQUIPMENT" must be clearly reflected separately in the Technical and Financial bids. The "Origin" means the place where the "goods" are mined, grown, or produced.

2. Bid Security Form

Whereas *[name of the Bidder]* (hereinafter called “the Bidder”) has submitted its bid dated *[date of submission of bid]* for the supply of *[name and/or description of the goods]* (hereinafter called “the Bid”).

KNOW ALL PEOPLE by these presents that WE *[name of bank]* of *[name of country]*, having our registered office at *[address of bank]* (hereinafter called “the Bank”), are bound unto *[name of Procuring agency]* (hereinafter called “the Procuring agency”) in the sum of for which payment well and truly to be made to the said Procuring agency, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this ___ day of _____ 20_.

THE CONDITIONS of this obligation are:

- 27 If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
- 28 If the Bidder, having been notified of the acceptance of its Bid by the Procuring agency during the period of bid validity:
 - 28.1 fails or refuses to execute the Contract Form, if required; or
 - 28.2 fails or refuses to furnish the performance security, in accordance with the Instructions to Bidders;

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

This guarantee will remain in force up to and including twenty eight (28) days after the period of bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

[signature & Seal of the bank]

3. Contract Form

THIS AGREEMENT made the _____ day of _____ 20 _____ between [name of Procuring Agency] (hereinafter called “the Procuring Agency”) of the one part and [name of Supplier] of [city and country of Supplier] (hereinafter called “ the Supplier” of the other part:

WHEREAS the Procuring agency invited bids for certain goods and ancillary services, viz., [*brief description of goods and services*] and has accepted a bid by the Supplier for the supply of those goods and services in the sum of [*contract price in words and figures*] (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

29 In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

30 The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:

- the Bid Form and the Price Schedule submitted by the Bidder;
- the Schedule of Requirements;
- the Technical Specifications;
- the General Conditions of Contract;
- the Special Conditions of Contract; and
- the Procuring agency’s Notification of Award.

31 In consideration of the payments to be made by the Procuring agency to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring agency to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract

32 The Procuring agency 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.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by _____ the _ (for the Procuring agency)

Signed, sealed, delivered by _____ the _ (for the Supplier)

4. Performance Security Form

To: *[name of Procuring agency]*

WHEREAS *[name of Supplier]* (hereinafter called “the Supplier”) has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated _____ 20.____ to supply *[description of goods and services]* (hereinafter called “the Contract”).

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a bank guarantee by a reputable bank for the sum specified therein as security for compliance with the Supplier’s performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of *[amount of the guarantee in words and figures]*, and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the _____ day of 20.____.

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]

5. Bank Guarantee for Advance Payment

To: *[name of Procuring
agency] [name of Contract]*

Gentlemen and/or Ladies:

In accordance with the payment provision included in the Special Conditions of Contract, which amends Clause 16 of the General Conditions of Contract to provide for advance payment, *[name and address of Supplier]* (hereinafter called “the Supplier”) shall deposit with the Procuring agency a bank guarantee to guarantee its proper and faithful performance under the said Clause of the Contract in an amount of *[amount of guarantee in figures and words]*.

We, the *[bank or financial institution]*, as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to the Procuring agency on its first demand without whatsoever right of objection on our part and without its first claim to the Supplier, in the amount not exceeding *[amount of guarantee in figures and words]*.

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

This guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until *[date]*.

Yours truly,

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]

6. Manufacturer's Authorization Form

[See Clause 13.3 (a) of the Instructions to Bidders.]

To:

**The [Procuring Agency]
Karachi.**

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

We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract for the goods offered for supply by the above firm against this Invitation for Bids.

We hereby undertake that we will provide the complete after sale services support in case of agency transfer or withdrawn from the bidder and will inform timely of any transition.

Our representative may be reached in need of support,

Name:

Designation:

Email Address:

[signature for and on behalf of Manufacturer]

Note: This letter of authority should be on the letterhead of the Manufacturer and should be signed by a person competent and having the power of attorney to bind the Manufacturer. It should be included by the Bidder in its bid.

7. Integrity Pact (AFFIDAVIT)

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS/CONTRACTORS/CONSULTANTS.

Contract Number: _____ Dated: _____
Contract Value: _____
Contract Title: _____

[Name of Supplier/Contractor/Consultant] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoS) through any corrupt business practice.

Without limiting the generality of the foregoing, **[Name of Supplier/ Contractor/ Consultant]** represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit, in whatsoever form, from Procuring Agency (PA), except that which has been expressly declared pursuant hereto.

[Name of Supplier/Contractor/Consultant] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with PA and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[Name of Supplier/Contractor/Consultant] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to PA under any law, contract or other instrument, be voidable at the option of PA.

Notwithstanding any rights and remedies exercised by PA in this regard, **[Name of Supplier/Contractor/Consultant]** agrees to indemnify PA for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PA in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by **[Name of Supplier/Contractor/Consultant]** as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit, in whatsoever form, from PA.

[Procuring Agency]

[Supplier /Contractor/Consultant]

(FORM - E)

FINANCIAL EVALUATION SHEET

Year	Annual Turnover for the last 3 years Year (PKR)
Year 2021	
Year 2022	
Year 2023	
TOTAL	
Average Turn-over in 3 years	

Financial Information in PKR	Year 2021	Year 2022	Year 2023
Total Assets (TA)			
Total Liabilities (TL)			
Current Assets (CA)			
Current Liabilities (CL)			
Total / Gross Revenue (TR)			
Profits Before Taxes (PBT)			
Net Profit			
Current Ratio			

Supporting Document	Yes / No	
Income Tax Returns	Year 2021	
	Year 2022	
	Year 2023	

