



## **BIDDING DOCUMENT**

*Single Stage - Two Envelope Bidding Procedure*

### **PROCUREMENT OF MEDICAL EQUIPMENT / INSTRUMENTS FOR LIVER TRANSPLANT UNIT**

**No. DUHS/DP/2016/- 12 Dated 19 October 2016**

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# A: Instructions to Bidders. (ITB)

## 1. INTRODUCTION

### 1. GENERAL

- 1.1 The Procuring Agency has allocated fund towards the cost of “**MEDICAL EQUIPMENT / INSTRUMENTS FOR LIVER TRANSPLANT UNIT**”. It is intended that part of the proceeds of this fund will be applied to eligible payments under the contract for the Procurement of goods.

### 2. ELIGIBLE BIDDERS

- 2.1 This Invitation for Bids is open to all original Manufacturers, within Pakistan and abroad, and their Authorized Agents / Importers / Bidders / Distributors.
- 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 University 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 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 Federal Govt. or Provincial Govt.
- 2.4 Bidder should 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 35.1**.

### 3. ELIGIBLE GOODS

- 3.1 All goods and related services to be supplied under the contract shall have their origin in eligible source countries and all expenditures made under the contract shall be limited to such goods and services. For this purpose, the term “Goods” includes any Goods that are the subject of this Invitation for Bids and the term “Services” shall include related services such as transportation, insurance etc. The “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 through manufacturing or processing, or substantial and major assembly of ingredients / components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

## **2. THE BIDDING PROCEDURE**

### **4. Single Stage - Two Envelope Procedure**

- (a) Bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal;
- (b) Envelopes shall be marked as “FINANCIAL PROPOSAL” and TECHNICAL PROPOSAL” in bold and legible letters to avoid confusion;
- (c) Initially, only the envelope marked “TECHNICAL PROPOSAL” shall be opened;
- (d) Envelope marked as “FINANCIAL PROPOSAL” shall be retained in the custody of the procuring agency without being opened;
- (e) Procuring agency shall evaluate the technical proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements;
- (f) No amendments in the technical proposal shall be permitted during the technical evaluation;
- (g) Financial proposals of technically qualified bids shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance;
- (h) Financial proposal of bids found technically non-responsive shall be returned un-opened to the respective bidders; and
- (j) Bid found to be the lowest evaluated or best evaluated bid shall be accepted.

4.2 The bids shall be opened in the presence of bidders or their authorized representative at the prescribed time, date and venue.

## **3. THE BIDDING DOCUMENTS**

### **5. CONTENTS OF BIDDING DOCUMENTS**

#### **5.1 The Bidding Documents:**

In addition to the Invitation for Bids (IFB) / Tender Notice, the bidding documents include:

- i. Instructions to Bidders (ITB);
- ii. General Conditions of Contract (GCC);
- iii. Special Conditions of Contract (SCC);
- iv. Schedule of Requirements;
- v. Technical Specifications;
- vi. Contract Form;
- vii. Manufacturer's Authorization Form;
- viii. Performance Guarantee Form;
- ix. Bid Form; and
- x. Price Schedules.

5.2 In case of discrepancies between the Invitation for Bids (IFB) / Tender Notice and the Bidding Documents, the Bidding Documents shall take precedence.

5.3 The bidders are expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish complete information required in the bidding documents or to submit a bid not substantially responsive to the bidding documents may result in rejection.

## 6. AMENDMENT OF BIDDING DOCUMENTS

6.1 At any time prior to the deadline for submission of bids, the Procuring Agency may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the bidding documents by amendment.

6.2 All prospective bidders that have received the bidding documents will be notified the amendment(s) in writing, which will be binding on them.

6.3 In order to allow prospective bidders reasonable time to take the amendment(s) into account in preparing their bids, the Procuring Agency may, at its discretion, extend the deadline for submission of the bids.

## 4. PREPARATION OF BIDS

### 7. LANGUAGE OF BID

#### 7.1 Preparation of Bids

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 in English. Supporting documents and printed literature furnished by the bidder may be in another language provided these are accompanied by an accurate translation of the relevant passages in English, in which case for purposes of interpretation of the Bid, the translated version shall prevail.

### 8. DOCUMENTS COMPRISING THE BID

8.1 The bid prepared by the Bidder shall comprise the following:

- (a) Bid Form;
- (b) Price Schedule;
- (c) Documentary evidence to the effect that the Bidder is eligible to bid and is qualified to perform the Contract if its bid is accepted;
- (d) Documentary evidence to the effect that the goods to be supplied by the Bidder are eligible goods and related services as defined in clause-3 and conform to the bidding documents; and
- (e) Bid Security.

### 9. BID PRICES

9.1 The prices and discounts quoted by the Bidder in the Bid Form and in the Price Schedules shall conform to the requirements specified below.

- 9.2 All items in the Schedule of Supply must be listed and priced separately in the Price Schedules. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items. Items not listed in the Price Schedule shall be assumed not to be included in the Bid.
- 9.3 The price to be quoted in the Bid Form shall be the total price of the Bid excluding any discounts offered.
- 9.4 The Bidder shall quote any unconditional discounts and the methodology for their application in the Bid Form.
- 9.5 Prices proposed in the Price Schedule Forms for Goods, shall be disaggregated, when appropriate. This disaggregation shall be solely for the purpose of facilitating the comparison of Bids by the Procuring Agency. This shall not in any way limit the Procuring Agency's right to contract on any of the terms offered:
- (a) Price Schedule For Goods offered from within the Procuring Agency's country:
    - (i) Detailed Specification of Stores
    - (ii) Model / Cat No.
    - (iii) Name of Manufacturer.
    - (iv) Country of Origin
    - (v) Quantity of Stores
    - (vi) Unit
    - (vii) the unit price of the goods quoted on delivered duty paid (DDP) basis, including all customs duties and sales and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of goods, or on the previously imported goods of foreign origin;
    - (viii) If there is no mention of taxes, the offered/quoted price will be considered as inclusive of all prevailing taxes/duties. The benefit of exemption from or reduction in the GST or other taxes during the contract period shall be passed on to the Procuring Agency; and
    - (ix) the total price for the item.
  - (b) Price Schedule For Goods offered from outside the Procuring Agency's country:
    - (i) Detailed Specification of Stores
    - (ii) Model / Cat No.
    - (iii) Name of Manufacturer.
    - (iv) Country of Origin
    - (v) Quantity of Stores
    - (vi) Unit

(vii) Currency of Bid

(viii) the unit price of the goods quoted on CFR / C&F basis (Karachi Port), in the Procuring Agency's country;

(ix) the total price for the item in foreign currency.

9.6 Final Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account. A Bid submitted with an adjustable price quotation shall be treated as nonresponsive and shall be rejected.

9.7 If it was proved during the contract period that bidder has supplied the contracted item(s) to any other purchasing agency in Pakistan at the prices lower than the contracted prices, the balance amount will be deducted from the bill and / or security deposit of the bidder.

## 10. BID CURRENCIES

10.1 Prices shall be quoted in Pakistani Rupees for goods offered within the Procuring Agency's country on delivered duty paid (DDP).

10.2 Price shall be quoted in foreign currency for goods offered outside the Procuring Agency's country on CFR / C&F Basis.

## 11. DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATION

11.1 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 Bidder'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 evaluation & qualification criteria of bidding document.

## 12. DOCUMENTS ESTABLISHING GOODS' ELIGIBILITY AND CONFORMITY TO BIDDING DOCUMENTS

12.1 Pursuant to ITB Clause 8, 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.

- 12.2 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.
- 12.3 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; and
  - (b) 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.
- 12.4 For purposes of the commentary to be furnished pursuant to ITB Clause 12.3(b) 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.

### 13. BID SECURITY

- 13.1 The Bidder shall furnish, as part of its proposal, a Bid Security in the amount and currency specified in the Bid Data Sheet and SCC. Unsuccessful bidders' Bid Security will be returned soon after approval of the successful Bidder. The successful Bidder's Bid Security will be discharged upon signing of contract and furnishing the Performance Security bond, duly guaranteed by a scheduled bank.
- 13.2 The Bid Security shall remain valid for a period of 28 days beyond the bid validity period.
- 13.2 The Bid Security is required to protect the Procuring Agency against the risk of Bidder's conduct, which would warrant the Security's forfeiture;
- 13.3 The Bid Security may be forfeited:
  - (a) if a Bidder withdraws its bid during the period of bid validity; or
  - (b) in the case of a successful Bidder, the Bidder fails:
    - (i) to sign the Contract; or
    - (ii) to complete the supplies in accordance with the General Conditions of Contract.



14. BID VALIDITY

14.1 Bids shall remain valid for 90 days from the date of its opening. A bid valid for a shorter period shall be treated as non-responsive and rejected.

14.2 The Procuring Agency shall ordinarily be under an obligation to process and evaluate the bids within the stipulated bid validity period. However, for any reasons to be recorded in writing, if an extension is considered necessary, all those who have submitted their bids shall be asked to extend their respective bid validity period.

15. ALTERNATIVE BIDS

15.1 If any bidder elects to submit alternative proposal(s), complete information on the alternative items including all data relating to technical specifications shall be given as per following table.

Sr. No.	Description of Stores	Statement of Variation from Specifications	Reasons for Variations

**5. SUBMISSION OF BIDS**

16. SEALING AND MARKING OF BIDS

16.1 The envelopes shall:

- (a) bear the name and address of the Bidder;
- (b) bear the specific identification Name and Number of this bidding process indicated in the Bid Data Sheet; and
- (c) bear the Procuring Agency's name and address i.e. Dow University of Health Sciences (Ojha Campus), Procurement Directorate, Prof. Masood Hameed Khan Library Building, SUPARCO Road, off Main University Road, Gulzar-e-Hijri, Scheme No. 33, Karachi and a statement: "DO NOT OPEN BEFORE," the time and date specified in the Bid Data Sheet.

16.2 If all envelopes are not sealed and marked as required, the Procuring Agency will assume no responsibility for the misplacement or premature opening of the bid.

17. DEADLINE FOR SUBMISSION OF BIDS

17.1 Bids must be submitted by the bidders and received by the Procuring Agency at the specified address not later than the time and date specified in the Bid Data Sheet.

17.2 The Procuring Agency may, at its convenience, extend this deadline for submission of bids by amending the bidding documents in which case all rights and obligations of the Procuring Agency and the Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

**18. LATE BID**

18.1 Any bid received by the Procuring Agency after the deadline for submission of bids prescribed by the Procuring Agency shall not be entertained and returned unopened to the bidder.

**19. WITHDRAWAL OF BIDS**

19.1 The Bidder may after its submission withdraw prior to the expiry of the deadline prescribed for submission of bids.

**6. OPENING AND EVALUATION OF BIDS**

**20. 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 18.

22.3 Bids (and modifications sent pursuant to ITB Clause 19) 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.

**21. CLARIFICATION OF BIDS**

21.1 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.

**22. PRELIMINARY EXAMINATION**

22.1 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.

- 22.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and 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.
- 22.3 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.
- 22.4 Prior to the detailed evaluation, pursuant to ITB Clause 23 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, Applicable Law, and Taxes and Duties, 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.
- 22.5 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.

### **23. EVALUATION AND COMPARISON OF BIDS**

- 23.1 The Procuring Agency will evaluate and compare the bids which have been determined to be substantially responsive, pursuant to ITB Clause 22.
- 23.2 The Procuring Agency's evaluation of a bid will be on delivered duty paid (DDP) inclusive of prevailing duties/taxes and C&F / CNF basis and will exclude any allowance for price adjustment during the period of execution of the contract, if provided in the bid.
- 23.3 The Procuring Agency's evaluation of a bid will take into account, in addition to the bid price quoted, one or more of the following factors, and quantified in ITB Clause 24:
  - (a) **Incidental costs**  
Incidental costs provided by the bidder will be added by Procuring Agency to the bid price at the final destination.
  - (b) **Delivery schedule offered in the bid**  
The goods covered under this invitation are required to be delivered (shipped) within an acceptable range of weeks specified in the Schedule of Requirement.

- (c) **Deviations in payment schedule from that specified in the Special Conditions of Contract**

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.
- (d) **Cost of components, mandatory spare parts, and service**

The Procuring Agency will estimate the cost of spare parts usage in the initial period of operation, 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) **Availability of spare parts and after sales services for the equipment offered in the bid**

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) **Projected operating and maintenance costs during the life of the equipment;**

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 offered**

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 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.

## 24. EVALUATION / QUALIFICATION CRITERIA

### 24.1 Merit Point System:

The following merit point system for weighing evaluation factors/criteria will be applied for technical proposals.

#### A. PRODUCT EVALUATION

S#	PARAMETERS	SUB-PARAMETERS	Total Marks
<b>1</b>	<b>Conformity to the Purchaser's Specifications</b>		<b>25</b>
		Fully compliant with the required specifications	25
		Compliant with minor deviation (up to 10% subject to main function is not effected)	20
<b>2</b>	<b>Product Certification</b>		<b>15</b>
		Food and Drug Administration (FDA) 510K and European Community (CE) MDD or Japan Industrial Standard (JIS)	15
		European Community (CE) MDD and Japan Industrial Standard (JIS)	12
		Food and Drug Administration (FDA) 510K	10
		European Community (CE) MDD	08
		Japan Industrial Standard (JIS)	08
<b>TOTAL MARKS PRODUCT EVALUATION (A)</b>			<b>40</b>

#### B. BIDDER EVALUATION

S#	PARAMETERS	SUB-PARAMETERS	Total Marks
<b>4</b>	<b>Legal Requirement</b>		<b>17</b>
		Manufacturer Authorization	5
		Price Schedule	4
		Bid Form	4
		Tender Purchase Receipt	2
		Taxation Certificate (NTN and GST)	2
<b>5</b>	<b>Technical Staff</b>		<b>13</b>
		Simple Technician (minimum two)	2
		Diploma Engineers (minimum two)	3
		Graduate Engineers (For High Tech / Critical equipment Graduate Engineer of relevant field is mandatory for each product)	5
		MSc / PhD qualification/Foreign training	3

S#	PARAMETERS	SUB-PARAMETERS	Total Marks
<b>6</b>	<b>Networking and Training</b>		<b>8</b>
		Networking setup across Pakistan (1 mark for each setup upto maximum 6)	6
		Certificate to the effect that the firm will provide training in the use of equipment to the relevant technical staff. Training plan must be attached with certificate	2
<b>7</b>	<b>Delivery</b>		<b>6</b>
		4 to 6 Weeks or earlier	4
		7 to 12 Weeks or earlier	2
<b>8</b>	<b>Past Experience / Performance</b>		<b>4</b>
		Satisfactory performance certificate for the quoted equipment from the medical institutions within Pakistan (1 mark for each certificate upto maximum 4)	4
<b>9</b>	<b>Financial Status</b>		<b>6</b>
		Bank Certificate	2
		Last year verified Balance Sheet	2
		Yearly turn-over of over 100 Million	2
<b>10</b>	<b>Bonus points</b>		<b>6</b>
		Warranty period extension free of cost (the firm offered greater period will get the marks) warranty must be from original manufacturer	2
		Comparative Running Cost (consumables / reagents / replacement parts)	2
		Post warranty maintenance contract, including service and parts, rates (companies to offer percentage (%) of the contract value in the technical bid. The lowest will get the full marks. The rates must come from the original manufacturer	2
<b>TOTAL BIDDER EVALUATION (B)</b>			<b>50</b>
<b>GRAND TOTAL (A + B)</b>			<b>100</b>

**Note:**

- If a bidder fails to obtain minimum 25 marks, against the criteria “**Conformity to the Purchaser's Specifications**”, his offer will not be considered for further evaluation and rejected.
- Bidders achieving minimum 70 marks will be considered only.

- 24.2 **Litigation History**  
The Bidder should not be involved in any litigation with the Government in the Procuring Agency's Country.

25. **CONTACTING THE PROCURING AGENCY**

- 25.1 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 any bidder wishes to bring additional information to the notice of the Procuring Agency, it may do so in writing.

- 25.2 Any direct or indirect effort by a bidding firm to influence the Procuring Agency during the process of selection of a bidder or award of contract may besides rejection of its bid result into its disqualification from participation in the Procuring Agency's future bids.

26. **REJECTION OF BIDS**

- 26.1 Notwithstanding anything stated here-before after the Procuring Agency may reject any or all bids at any time prior to the acceptance of a bid. The Procuring Agency may upon request, communicate to a bidder, the grounds for its rejection, but shall not be under obligation to justify those grounds.

27. **RE-BIDDING**

- 27.1 If the Procuring Agency has rejected all bids, it may move for a re-bidding or may seek any alternative method of procurement under the provisions of the prevailing Rules.

28. **ANNOUNCEMENT OF EVALUATION REPORT**

- 28.1 The Procuring Agency will announce the Evaluation Report and the resultant acceptance or rejection of bids at least seven days prior to the award of procurement contract.

**7. AWARD OF CONTRACT**

29. **ACCEPTANCE OF BID AND AWARD CRITERIA**

- 29.1 The bidder with lowest evaluated bid under clause 22, 23 & 24, if not in conflict with any other law, rules, regulations or policy of the Government, will be awarded the contract within the original or extended period of bid validity.

30. **PROCURING AGENCY'S RIGHT TO VARY QUANTITIES**

- 30.1 The Procuring Agency reserves the right to increase or decrease the quantity of stores originally specified in the Price Schedule and Schedule of Requirements without any change in unit price or other terms and conditions.

31. LIMITATIONS ON NEGOTIATIONS

- 31.1 The Procuring Agency reserves the right to hold negotiation of rates, delivery schedule or completion schedule for all the items or any item.
- 31.2 Negotiations will not be used to change substantially:
- i. the technical quality or details of the requirement, including the tasks or responsibilities of the bidder or the performance of the goods;
  - ii. the terms and conditions of the Contract and;
  - iii. anything affecting the crucial or deciding factors in the evaluation of the proposals / bid and / or selection of successful bidder..

32. NOTIFICATION OF AWARD

- 32.1 Prior to the expiry of the original or extended period of bid validity, the successful bidder will be informed in writing of acceptance of its bid by the Procuring Agency.

33. SIGNING OF CONTRACT

- 33.1 While conveying acceptance of bid to the successful bidder, the Procuring Agency will send the bidder Contract Form provided in the bidding documents, incorporating all points of agreement between the Parties.
- 33.2 Ten days after the official announcement of the award, both the successful Bidder and the Procuring Agency will sign and date the Contract on legal stamp paper valuing 0.30% of the value of contract, (cost shall be borne by the bidder). In case the successful Bidder, after completion of all codal formalities, shows inability to sign the Contract, its Bid Security shall be forfeited. The firm may also be blacklisted from taking part in any future bidding of Procuring Agency for a period upto five Years. In such a situation, the Procuring Agency may make the award to the next lowest evaluated responsive bidder or move for re-bid.

34. PERFORMANCE SECURITY

- 34.1 The successful Bidder shall furnish Performance Security. Upon submission of Performance Security the Bid Security will be returned to the Bidder. The amount of Performance Security is specified at Bid Data Sheet.
- 34.2 Failure of the successful Bidder to comply with any of the requirements specified in this document shall be considered as 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 at the risk and cost of the former.



35. CORRUPT OR FRAUDULENT PRACTICES

- 35.1 (a) the Procuring Agency and the Bidders / Manufacturers / Contractors are expected to observe the highest standard of ethics during the procurement and execution of the Contract. In pursuance of this policy, the relevant terms / phrases as may apply are defined below:
- (i) "corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in Contract execution; and
  - (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract to the detriment of the Procuring 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) the Procuring Agency will take all possible administrative / legal measures if it is found that the Bidder recommended for award was / is engaged in corrupt or fraudulent practice(s) before or after signing of the contract resulting into the conviction of the proprietor under criminal case besides blacklisting of the firm either indefinitely or for such period of time as may be determined by the Procuring Agency.
- (c) will declare a firm ineligible, either indefinitely or for a stated period of time, for the award of a Contract if it, at any time, determines that the firm has engaged in corrupt or fraudulent practices in competing for or in executing a Contract.

## **B: General Conditions of Contract (GCC)**

### **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 Bidder, 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 Bidder under the Contract for the full and proper performance of its Contractual obligations.
- (c) "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Procuring Agency under the Contract.
- (d) "Related Services" means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance, printing of special instructions on the label and packing, design and logo of the Procuring Agency, transportation of goods up to the desired destinations and other such obligations of the Bidder 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 Dow University of Health Sciences, Karachi.
- (h) "The Bidder" means the individual or firm supplying the goods under this Contract.
- (i) "Day" means official working day excluding national holidays.

### **2. APPLICATION**

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

### 3. STANDARDS

3.1 The goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications goods eligibility criteria.

### 4. USE OF CONTRACT DOCUMENTS AND INFORMATION

4.1 The Bidder 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 Bidder in the performance of the Contract. Disclosure to such employed person shall be made in confidence and shall extend only, as far as may be necessary, to such performance and not further or otherwise.

4.2 Any document, other than the Contract itself, shall remain the property of the Procuring Agency and shall be returned (all copies) on completion of the Bidder's performance under the Contract.

4.3 The Bidder shall permit the Procuring Agency to inspect the Bidder's accounts and records relating to the performance of the Supplies.

### 5. PATENT RIGHTS

5.1 The Bidder 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 country.

### 6. ENSURING STORAGE ARRANGEMENTS

6.1 To ensure storage arrangements for the intended supplies, the Bidder shall inform the Procuring Agency at least two weeks prior to the arrival of the consignments at its store/warehouse. However, in case no space is available at its store/warehouse at the time of supply, the Procuring Agency shall, seven days prior to such a situation, inform the Bidder, in writing, of the possible time-frame of availability of space by which the supplies could be made. In case the Bidder abides by the given time frame, he will not be penalized for delay.

### 7. INSPECTIONS, TESTS AND TRAINING

7.1 The Procuring Agency or its representative shall have the right to inspect and/or test the goods to confirm their conformity to the Contract specifications at the cost payable by the Bidder.

7.2 The Procuring Agency's right to inspect, test and, where necessary, reject the goods either at Bidder's premises or upon arrival at Procuring Agency's destinations shall in no way be limited or waived by reasons of the goods having previously been inspected, tested, and approved by the Procuring

Agency or its representative prior to the goods shipment from the manufacturing point.

7.3 Any specialized training required for the smooth operation of the goods shall be the responsibility of the Bidder.

## 8. DELIVERY AND DOCUMENTS

8.1 The Bidder shall in accordance with the terms specified in the Schedule of Requirements make delivery of the goods. Details of documents to be furnished by the Bidder are specified in SCC.

## 9. INSURANCE

9.1 The goods supplied under the Contract shall be delivered to the Procuring Agency after the payment of all taxes and customs duty, cess, octroi charges etc. Risk will be transferred to the Procuring Agency only after the delivery of these goods has been made to the Procuring Agency. Hence, payment of insurance premium, if any, shall be the responsibility of the Bidder.

## 10. TRANSPORTATION

10.1 The Bidder shall arrange such transportation of the goods as is required to prevent them from damage or deterioration during transit to their final destination as indicated in the Schedule of Requirements.

10.2 The goods shall be supplied on "**D.D.P**" basis at the Dow University of Health Sciences, Karachi AND / OR "**CFR / C&F**" Basis at Karachi Port as per Schedule of Requirements on the risk and cost of the Bidder. Transportation including loading/unloading of goods shall be the responsibility of Bidder.

## 11. INCIDENTAL SERVICES

11.1 The Bidder will be required to provide to the Procuring Agency incidental services the cost of which should be included in the total bid price.

## 12. WARRANTY / GUARANTEE

12.1 The term period of warranty / guarantee mean the period of twelve (**12**) **months** form the date on which the Stores have been put into operation and demonstrated to the University staff. In any case this period shall not exceed eighteen (18) months from the date of taking-over certificate.

12.2 During the period of warranty / guarantee, the Contractor shall remedy, at his / her expense, all defects in design, materials, and workmanship that may develop or are revealed under normal use of the goods upon receiving written notice from the University; the notice shall indicate in what respect the goods are faulty.

- 12.3 The provisions of this Clause include all the expenses that the Contractor 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 University premises.
- 12.4 The contractor shall provide warranty / guarantee for supply of kits and chemicals, consumables, films etc. for at least 05 years (where applicable).
- 12.5 The contractor shall remain responsible for providing after sale services even after expiry of warranty / guarantee period and sign a Service Contract including Parts with Procuring Agency for 05 years (minimum). **THE BIDDER SHALL SEPARATELY QUOTE THE PRICE OF SERVICE CONTRACT INCLUSIVE OF PARTS.**
- 12.6 In case of consumable items, kits, chemicals, films etc. the contractor shall remain responsible for specificity, efficacy & sensitivity with maximum period of expiry as much allowed by manufacturer.
- 12.7 The Procuring Agency shall promptly notify the Bidder in writing of any claims arising out of this warranty.

### 13. PAYMENT

- 13.1 The method and conditions of payment to be made to the Bidder under this Contract are specified in SCC.

### 14. ASSIGNMENT

- 14.1 The Bidder shall not assign, in whole or in part, its obligations to perform to another party under this Contract, except with the Procuring Agency's prior written consent.

### 15. DELAYS IN THE BIDDER'S PERFORMANCE

- 15.1 Delivery of the goods shall be made by the Bidder in accordance with the time schedule prescribed by the Procuring Agency in the Schedule of Requirements / Contract Award.
- 15.2 If at any time in the course of performance of the Contract, the Bidder encounters anything impeding timely delivery of the goods, he shall promptly notify the Procuring Agency in writing of the causes of delay and its likely duration. As soon as practicable, after receipt of the Bidder's notice, the Procuring Agency shall evaluate the situation and may, depending on merits of the situation, extend the Bidder's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the Parties by a supplementary Contract to be treated as an addendum to the original contract.
- 15.3 Any undue delay by the Bidder in the performance of its delivery obligations shall render it liable to the imposition of liquidated damages.

## 16. PENALTIES LIQUIDATED DAMAGES

16.1 In case of late delivery, even for reasons beyond control, penalty as specified in SCC will be imposed upon the Bidder / Manufacturer. The Procuring Agency may consider termination of the Contract in case there is an unusual delay in the delivery of the goods whereby the ongoing activity is likely to be affected seriously.

## 17. TERMINATION FOR DEFAULT

17.1 The Procuring Agency may, without prejudice to any other remedy for breach of Contract, by a written notice of default sent to the Bidder, terminate this Contract in whole or in part if:

- (a) the Bidder fails to deliver any or all installments of the goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring Agency;
- (b) the Bidder fails to perform any other obligation(s) under the Contract to the satisfaction of the Procuring Agency; and
- (c) the Bidder, in the judgment of the Procuring Agency, has engaged itself in corrupt or fraudulent practices before or after executing the Contract.

## 18. FORCE MAJEURE

18.1 The Bidder shall not be liable for forfeiture of its Performance Guaranty/ Bid Security, or termination / blacklisting for default if and to the extent that this delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure. For the purposes of this Clause Force Majeure means an act of God or an event beyond the control of the Bidder and not involving the Bidder's fault or negligence directly or indirectly purporting to mal-planning, mismanagement and /or lack of foresight to handle the situation. Such events may include but are not restricted to acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods, earthquakes, strikes, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Bidder shall promptly notify the Procuring Agency in writing with sufficient and valid evidence of such condition and the cause thereof. The Committee, constituted for redressing grievances, will examine the pros and cons of the case and all reasonable alternative means for completion of purchase order under the Contract and will submit its recommendations to the competent authority. However, unless otherwise directed by the Procuring Agency in writing, the Bidder shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek reasonable' alternative means for performance not prevented by the Force Majeure event.

## 19. TERMINATION FOR INSOLVENCY

19.1 The Procuring Agency may at any time terminate the Contract by giving written notice of one month time to the Bidder if the Bidder becomes bankrupt or otherwise insolvent. In that event, termination will be without compensation

to the Bidder, provided that such termination will not prejudice or affect any right or remedy which has accrued or will accrue thereafter to the Parties.

## 20. ARBITRATION AND RESOLUTION OF DISPUTES

20.1 The Procuring Agency and the Bidder shall make every effort to resolve amicably by direct informal negotiations any disagreement or dispute arising between them under or in connection with the Contract.

20.2 If, after thirty (30) days from the commencement of such informal negotiations, the Procuring Agency and the Bidder have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred to the Arbitrator for resolution through arbitration.

20.3 In case of any dispute concerning the interpretation and/or application of this Contract is to be settled through arbitration, the arbitrator to be appointed with the approval of the University's Syndicate. The decisions taken and/or award given by the sole arbitrator shall be final and binding on the Parties.

## 21. PACKING

21.1 The Bidder 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.

21.2 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.

## 22. GOVERNING LANGUAGE

22.1 The Contract shall be written in English language. All correspondence and other documents pertaining to the Contract, which are exchanged by the Parties, shall be written in English.

## 23. APPLICABLE LAW

23.1 This Contract shall be governed by the laws of Pakistan and the courts of Pakistan shall have exclusive jurisdiction.

## C: NOTICE INVITING TENDER (NIT)

No. DUHS/DP/2016/- 12 Dated 19 October 2016

Dow University of Health Sciences (DUHS), Karachi invites bids on DDP / C&F basis from authorized Dealers / Distributors / Manufacturers, registered with GST & Income Tax, for the **PROCUREMENT OF MEDICAL EQUIPMENT / INSTRUMENTS FOR LIVER TRANSPLANT UNIT.**

Tender Fee	Rs. 2,000/- (Rupees two thousand only) Non-Refundable in shape of Pay Order / Demand Draft in favor of Dow University of Health Sciences, Karachi
Bid Security	2% of the total bid value.
Purchasing Date & Time	21 <sup>st</sup> October 2016 to 4 <sup>th</sup> November 2016
Bids Delivery Date & Time	5 <sup>th</sup> November 2016 at 11:00 a.m.
Bid Opening Date & Time	5 <sup>th</sup> November 2016 at 11:30 a.m. In case of any unforeseen situation or government holiday resulting in closure of office on the date of opening, bids shall be submitted / opened on next working day at the given time.

Bidding document may be purchased by interested bidders on the submission of a written application, NTN, GST Certificates and Pay Order / Demand Draft of tender fee during office hours. Bidding Documents are also available at DUHS and SPPRA websites. Interested Bidders may obtain further information personally from 11:00 A.M. to 02:00 P.M.

### S. Shafqat Hussain

Director Procurement

Procurement Directorate

Prof. Masood Hameed Khan Library Building

Dow University of Health Sciences (Ojha Campus)

SUPARCO Road, off Main University Road,

Gulzar-e-Hijri, Scheme No. 33, Karachi.

Phone No. + 92-21-99261497

Email: director.procurement@duhs.edu.pk



## D: 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). 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.
- ITB 1.1** Name of Contract:  
**Procurement of Medical Equipment / Instruments for Liver Transplant Unit.**  
**NIT No. DUHS/DP/2016/- 12 Dated 19 October 2016**

### THE BIDDING PROCEDURE

- ITB 4.1** Bids shall be accepted under the **Single Stage - Two Envelope Procedure**.

### PREPARATION OF BIDS

- ITB 7.1** Language of the bid shall be English
- ITB 9.6** **For the Goods offered within the Procuring Agency's Country:** the price quoted shall be on **delivered duty paid (DDP) Basis** at Consignee's End.
- For the Goods offered from Outside the Procuring Agency's Country:** the price quoted shall be on **CFR / C&F Karachi Basis**.
- ITB 10.1** **For the Goods offered within the Procuring Agency's Country:** the price quoted shall be in **Pak Rupees**.
- ITB 10.2** **For the Goods offered from Outside the Procuring Agency's Country:** the price quoted shall be in **Foreign Currency**.
- ITB 13.1** The Bid Security shall not be less than **2%** of the total Bid price in Pak Rupees.
- ITB 14.1** Bid validity period shall be **90 days**.
- ITB 15.1** If any bidder elects to submit alternative proposal(s), complete information on the alternative items including all data relating to technical specifications shall be provided.

## **SUBMISSION OF BIDS**

- ITB 16.1 (b)** The identification of this bidding process is:  
**Procurement of Medical Equipment / Instruments for Liver Transplant Unit.**  
**NIT No. DUHS/DP/2016/- 12 Dated 19 October 2016**
- ITB 16.1 (c)** Dow University of Health Sciences (Ojha Campus), Procurement Directorate, Prof. Masood Hameed Khan Library Building, SUPARCO Road, off Main University Road, Gulzar-e-Hijri, Scheme No. 33, Karachi.  
“Must bear the name of the bidder” and a warning “Do Not Opened Before the time and date of bid opening”.
- ITB 17.1** **Deadline for bid submission:** 5<sup>th</sup> November 2016 at 11:00 a.m.

## **OPENING & EVALUATION OF BIDS**

- ITB 20.1** The bid opening shall take place at:  
Dow University of Health Sciences (Ojha Campus), Procurement Directorate, Prof. Masood Hameed Khan Library Building, SUPARCO Road, off Main University Road, Gulzar-e-Hijri, Scheme No. 33, Karachi.  
Date: **5<sup>th</sup> November 2016**  
Time: **11:30 a.m.**

## **CONTRACT AWARD**

- ITB 31.1** Qty. could be increased or decreased during the contract period (including extended period) according to the actual requirement.
- ITB 34.1** The successful Bidder shall furnish the Performance Security equivalent to 5% of the total Contract amount from any scheduled banks in shape of Pay Order / Demand Draft / Call Deposit / Bank Guarantee. The Performance Guarantee/Security Form is provided in the bidding documents. Upon submission of Performance Security / Guarantee the Bid Security would be returned to the Bidder.

## **E: Special Conditions of Contract (SCC)**

### 1. DEFINITIONS (GCC CLAUSE 1)

GCC 1.1 (g) The Procuring Agency is the Dow University of Health Sciences, Karachi.

GCC 1.1 (h) The Bidder is: \_\_\_\_\_  
(name and address of the successful bidder)

### 2. BID SECURITY (ITB CLAUSE 13)

ITB 13.1 The Bidder shall furnish, as part of its financial proposal/bid, refundable Bid Security in Pak Rupees @ 2% of the total bid value in the shape of Bank Draft / Pay Order / Call Deposit / Bank Guarantee in the name of the Dow University of Health Sciences, Karachi. The financial bid found deficient of the Bid Security will be rejected. No personal cheque in lieu thereof will be acceptable at any cost. The previous Bid Security, if any, will not be considered or carried forward. However, the Bid Security of the successful Bidder will be returned upon submission of Performance Security equal to 5% of the Contract amount that will remain with the Dow University of Health Sciences, Karachi till satisfactory completion of the Contract period. After delivery and acceptance of the Goods, the performance security shall be reduced to two (2) percent of the Contract Price to cover the Supplier's warranty obligations

### 3. INSPECTIONS, TESTS AND TRAINING (GCC CLAUSE 7)

GCC 7.1, 7.2 & 7.3 The goods received in the Dow University of Health Services, Karachi from the Bidder will be thoroughly inspected and examined by a Committee to make sure that the goods received conform to the specifications laid down in the bid documents and which have been approved by the Procurement Committee for procurement. The Committee will submit its inspection report, any deficiency pointed out by the Committee shall have to be rectified by the Bidder free of cost. The Bidder will be responsible to provide the Foreign and or Local Training to the University Staff for the specialized Equipment.

### 4. DELIVERY AND DOCUMENTS (GCC CLAUSE 8)

GCC Clause 8.1 *(a) For Goods 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 GST), amount of GST and total amount (with GST).
- iv. Manufacturer's or Bidder's warranty certificate.
- v. Inspection certificate issued by the nominated inspection committee along with Bidder's factory inspection report.
- vi. Certificate of origin.

***(b) For Goods supplied from abroad as per INCOTERM CFR / C&F Karachi:***

Details of shipping and documents to be furnished by the Bidder shall be:

Upon shipment, the Bidder shall notify the Procuring Agency and the Insurance Company by telex or fax or email the full details of the shipment, including Contract number, description of Goods, quantity, the vessel / flight, the Bill of Lading / Air Way Bill number and date, port of loading, date of shipment, port of discharge, etc. The Bidder shall send the following documents to the Procuring Agency, with a copy to the Insurance Company:

- i. 04 copies of the Bidder's invoice showing the description of the Goods, quantity, unit price, and total amount.
- ii. Original and 04 copies of the negotiable, clean, on-board bill of lading / air way bill marked "freight prepaid" and 04 copies of non-negotiable bill of lading / air way bill.
- iii. 04 copies of the packing list identifying contents of each package.
- iv. Insurance certificate.
- v. Manufacturer's or Bidder's warranty certificate.
- v. Inspection certificate, issued by the nominated inspection agency along with Bidder's factory inspection report.
- vi. Certificate of origin.

The Procuring Agency shall receive the above documents at least one week before arrival of the Goods at the port or place of arrival and, if

not received, the Bidder will be responsible for any consequent expenses.

5. INSURANCE (GCC CLAUSE 9)

GCC 9.1 The goods supplied under the Contract shall be on DDP / CFR / C&F basis at consignee's end under which risk will be transferred to the Procuring Agency only after it has taken delivery of the goods. Hence insurance coverage is Bidder's responsibility.

6. WARRANTY / GUARANTEE (GCC CLAUSE 12)

GCC 12.1 The goods shall be accompanied by manufacturer standard warranty / guarantee or 1 year, whichever is more.

GCC 12.2 The Procuring Agency shall promptly notify the Bidder in writing of any claims arising out of this warranty.

GCC 12.5 **The bidder shall separately quote the price of service contract inclusive of parts for 5 years (minimum) in term of %age for total contract value.**

7. PAYMENT (GCC CLAUSE 13)

GCC 13.1 The method and conditions of payment to be made to the Bidder 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) The payment will be made to the Bidder within 30 days of the receipt of original delivery challan(s) and invoice(s) in duplicate duly completed in all respect and signed and stamped by the Chairman of the Inspection Committee. The Inspection Committee will prepare and submit a report of physical inspection with a certificate to the effect that the goods conform to the specifications laid down in the bidding documents.

**OR**

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

- (a) 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.
- (b) Bidder will bear all the additional bank charges inside and outside the Procuring Agency country on account of Confirmation of L/C, if he desire to establish a Confirmed L/C etc.

**OR**

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

- (a) The Procuring Agency shall pay the Bidder or its Principal through **3 years deferred payment** by 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.

- (b) Bidder will bear all the additional bank charges inside and outside the Procuring Agency country on account of Confirmation of L/C, if he desire to establish a Confirmed L/C etc.

#### 8. PENALTIES/ LIQUIDATED DAMAGES (GCC CLAUSE 16)

GCC 16.1 In case deliveries are not completed within the time frame specified in the schedule of requirements / contract, 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, the entire amount of Performance Guarantee/Security will be forfeited to the Government Account 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.

#### 9. "ARBITRATION" AND RESOLUTION OF DISPUTES (GCC CLAUSE 20)

GCC 20.3 Dispute resolution mechanism to be applied shall be as follows:

In case of any dispute concerning the interpretation and/or application of this Contract is to be settled through arbitration, the arbitrator to be appointed with the approval of the University's Syndicate. The decisions taken and/or award given by the sole arbitrator shall be final and binding on the Parties

#### 10. PACKING (GCC CLAUSE 21)

GCC 21.1 The packing, marking and documentation within and outside the packages shall be as per manufacturer standards meeting the safety requirements of the goods.

#### 12. GOVERNING LANGUAGE (GCC CLAUSE 22)

GCC 22.1 The language of this Contract shall be English.

#### 11. APPLICABLE LAWS (GCC CLAUSE 23)

GCC 23.1 The Contract shall be governed by the Laws of Pakistan and the Courts of Pakistan shall have exclusive jurisdiction.

12. NOTICES

***Procuring Agency's address for notice purposes:***

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

***Bidder's address for notice purposes:***

Name of Bidder: \_\_\_\_\_

Name of Contact Person & Designation: \_\_\_\_\_

Phone No. \_\_\_\_\_

Fax No. \_\_\_\_\_

Mobile Phone No. \_\_\_\_\_

Email Address \_\_\_\_\_

# F: Schedule of Requirements

## 1. SCHEDULE OF REQUIREMENTS

### 1.1 For Goods supplied from within the Procuring Agency's country (DDP Basis)

- i) The entire quantity of the ordered goods shall be delivered within **30 days** or earlier from the date of issuance of supply order / contract award.
- ii) The delivery period shall start from the date of contract signature.

### 1.2 For Goods supplied from outside the Procuring Agency's country (C&F / CFR / CNF Basis):

- i. The shipment of the items of Stores which are to be imported shall be started as early as possible; the shipment schedule shall be submitted along with the offer, and shall be negotiable and subject to approval by the University.
- ii. The bidder must indicate in his offer the port **from where** the Stores will be **shipped**.
- iii. The delivery period shall start from the date of opening of letter of credit.



## G: Technical Specifications

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
01.	<p><b>ULTRASONIC SURGICAL ASPIRATOR</b></p> <ul style="list-style-type: none"> <li>• For use in General Surgery and related surgeries</li> <li>• <b>Magnetostrictive</b> technology with water cooled hand pieces</li> <li>• Ultrasonic Surgical Aspirator (console) with foot switch control system</li> <li>• System capable for dual frequencies i.e. 23 KHz and 36 KHz</li> <li>• Electric ultrasonic aspirating system 100 Watt output power</li> <li>• Irrigation flow maximum 25 ml to 50 ml/min.</li> <li>• Suction pressure 0-0.6 bar</li> <li>• Steam autoclavable hand pieces</li> <li>• Ultrasonic surgical aspirator system on mobile trolley with 4-wheel castors</li> <li>• Variable dual energy / frequencies and control aspiration.</li> <li>• Tissue selection mode</li> <li>• Integrated cooling and suction facility</li> <li>• Compatible module for electrosurgical unit.</li> <li>• Built in irrigation pump in the unit. Irrigation output The irrigation rate display shows digits 1 – 10</li> <li>• One Hand Piece straight with resonance frequency 36 kHz with sterilization case</li> <li>• One Hand Piece Straight with resonance frequency 23 kHz with sterilization case</li> <li>• Ultrasonic bone sculpting saber tip</li> <li>• 23kHz Handpiece Extended Life Tip Maintenance Kit (I box of 35)</li> <li>• Biopsy collection Trap</li> <li>• Shear Tips 4.60” length for removal of fibrous etc,</li> <li>• 23 kHz Manifold Tubing (1 box of 6)</li> <li>• 36 kHz Manifold Tubing (1 box of 6)</li> <li>• Tip Torquing Set (1 set)</li> <li>• Foot switch control system</li> <li>• Laparoscopic Extended Life Tip (Reusable) 1 Tip With 6 Flues Per Pack (1 box of 4)</li> <li>• Tubing kit for irrigation system</li> <li>• Tubing kit for suctioning system</li> <li>• FDA or European Directive 93/42/EEC, CE certificates CE12756</li> </ul> <p><b>Origin: UK / USA / Europe / Japan</b></p>	02 Nos.
02.	<p><b>ADVANCE LAPAROSCOPIC SET WITH HD CAMERA AND MONITOR</b></p> <p>1 Forward-Oblique Telescope 30°, enlarged view, diameter 10 mm, length 31 cm, autoclavable, fiber optic light transmission incorporated, color code: red (1 No.)</p>	01 Set

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
2	Trocar, size 11 mm, color code: green, (2 Nos.) <b>Consisting of:</b> Trocar only, with pyramidal tip, Cannula without valve, with insufflation stop- cock, length 10.5 cm Multifunctional Valve	
3	Trocar, size 6 mm, (2 Nos.) <b>Consisting of:</b> Trocar only, with pyramidal tip, Cannula without valve, with insufflation stop- cock, length 10.5 cm Multifunctional Valve	
4	Reduction Sleeve, 11/5 mm (1 No.)	
5	Reducer, 11/5 mm (1 No.)	
6	VERESS Pneumoperitoneum Needle, with spring-loaded blunt, inner cannula, LUER-Lock, autoclavable, diameter 2.1 mm, length 13 cm (1 No.)	
7	MANHES Dissecting and Grasping Forceps, rotating, size 5 mm, length 36 cm, with connector pin for unipolar coagulation, duck-bill jaws length 10 mm, blunt, single action jaws (1 No.) <b>Consisting of:</b> Plastic Handle without ratchet, with larger contact area, Outer Tube, insulated Forceps Insert	
8	Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, atraumatic, fenestrated, single action jaws (2 Nos.) <b>Consisting of:</b> Plastic Handle, without ratchet, with larger contact area, Outer Tube, insulated & Forceps Insert	
9	Dissecting and Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, right angled, double action jaws (1 No.) <b>Consisting of:</b> Plastic Handle, without ratchet, with larger contact area, Outer Tube, insulated Forceps Insert	
10	REDDICK-OLSEN Dissecting and Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, heavy, double action jaws, (2 Nos.) <b>Consisting of:</b> Plastic Handle, without ratchet, with larger contact area, Outer Tube, insulated, Forceps Insert	
11	Dissecting- and Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, alligator jaws, double action jaws, (1 No.) <b>Consisting of:</b> Plastic Handle without ratchet, with larger contact area, Outer Tube, insulated, Forceps Insert	
12	BABCOCK Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, double action jaws, (1 No.) <b>Consisting of:</b> Plastic Handle, without ratchet, with larger contact area, Outer Tube,	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
13	insulated, Forceps Insert Grasper, size 10 mm, length 36 cm, double action jaws, for retrieval of gallstones, (1 No.) <b>Consisting of:</b> Metal Handle, without ratchet, with larger contact area, Outer Tube, insulated, Forceps Insert	
14	Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, atraumatic, fenestrated, double action jaws, (1 No.) <b>Consisting of:</b> Plastic Handle, without ratchet, with larger contact area, Outer Tube, insulated, Forceps Insert	
15	KELLY Dissecting and Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, double action jaws, (1 No.) <b>Consisting of:</b> Plastic Handle, without ratchet, with larger contact area, Outer Tube, insulated, Forceps Insert	
16	Claw Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, 2 x 3 teeth, single action jaws, (1 No.) <b>Consisting of:</b> Plastic Handle, without ratchet, with larger contact area, Outer Tube, insulated, Forceps Insert	
17	METZENBAUM Scissors, rotating, dismantling, with connector pin for unipolar coagulation, with LUER-Lock connector for cleaning, double action jaws, curved, length of jaws 15 mm, size 5 mm, length 36 cm (1 No.) <b>Consisting of:</b> Plastic Handle, without ratchet, with larger contact area at the finger ring, Metal Outer Sheath, insulated, Forceps Insert	
18	Coagulating and Dissecting Electrode, L-shaped, with connector pin for unipolar coagulation, size 5 mm, working length 36 cm (1 No.)	
19	Coagulating and Dissecting Electrode, spatula-shaped, blunt with connector pin for unipolar coagulation, size 5 mm, working length 36 cm (1 No.)	
20	Suction and Irrigation Tube, with lateral holes, anti-reflex surface, with two-way stopcock for single-hand control, size 5 mm, length 36 cm (1 No.)	
21	Injection Needle, LUER-lock, diameter 1.2 mm, size 5 mm, length 36cm (1 No.)	
22	Cholangiography Fixation Clamp, with channel for catheter 6 Fr., length 27cm (1 No.)	
23	Speculum for Gall Bladder Extraction, length 6 cm (1 No.)	
24	Macro Needle Holder, ergonomic axial handle with disengageable ratchet, ratchet release on the right side, straight jaws, with tungsten carbide insert ø 5 mm, length 33 cm (1 No.)	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
25	<p>Clip Applicator, for use with Ethicon Titanium-Clips LT-300 (medium large), dismantling, rotating, with ratchet to lock the jaw part holding the clip, size 10 mm, length 36 cm, (1 No.)</p> <p><b>Consisting of:</b> Metal Handle, with ratchet, Metal Outer Tube, Insert</p>	
26	<p>KELLY Grasping Forceps, CLERMONT-FERRAND model, rotating, dismantling, with connector pin for bipolar coagulation, especially suitable for dissection, double action jaws, size 5 mm, length 36 cm, color code: light blue</p> <p><b>Consisting of:</b> Plastic Handle, without ratchet, Metal Outer Sheath, Forceps Insert</p>	
27	<p>Unipolar High Frequency Cord, with 4 mm plug, length 300 cm, for models Erbe type T older models and Ellman (2 Nos.)</p>	
28	<p>Bipolar High Frequency Cord, length 300 cm, (2 Nos.)</p>	
29	<p>Full HD resolution 1920 x 1080 pixels, with integrated and digital Image Processing Module, power supply 100 - 120 VAC/200 - 240 VAC, 50/60 Hz, Imaging System /Endoscope Camera System (CCU &amp; Camera head) should be Full HD 1920 x 1080p or better and should have backward and forward compatibility and modularity for futures upgrade and with latest image enhancement modules for better image quality and identifications of the land marks and pathology for better outcomes of the surgery.</p> <p><b>Consisting of:</b> Mains Cord, length 300 cm, DVI-D Connecting Cable, length 300 cm, Connecting Cable, length 100 cm, USB Flash Drive, USB Silicone Keyboard, with touchpad, US</p> <p><b>The system comprises of following</b> <b>CCU (Camera Control Unit)</b> Full HD 1080p Video Processor with integrated documentation functions for image and video capturing Digital FULL HD video processor module with integrated documentation function for image and video capturing for use with three-chip-FULL HD camera heads, one-chip-FULL-HD camera heads and video endoscopes in combination with compatible camera modules.</p> <p><b>Technical data:</b> Connections: 2 x DVI-D output, 1 x 3G-SDI output, 3 x camera input for communication with compatible camera modules, LAN connection, 4 x USB connection (2 x front, 2 x back). Max. resolution: 1920 x 1080 pixels. Certified to: IEC601-1, 601-2-18, CSA 22.2 No. 601, UL2601-1 and CE acc. to MDD, protection class 1. Optional: USB to ACC adapter for device control.</p>	
30	<p>link module, for use with FULL HD latest image technology power supply 100 - 120 VAC /200 - 240 VAC, 50/60 Hz, for use with HD Module, (1 No.)</p>	

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	<p><b>Consisting of:</b> Mains Cord, length 300 cm, Link Cable, length 20 cm, Digital FULL HD camera module for use with Three-Chip-FULL-HD camera heads.</p> <p><b>Technical Data:</b> Camera input: FULL HD With 1920 x 1080 pixel resolutions. Automatic shutter. Automatic Gain Control: Microprocessor controlled. Connection: Module link cable to video processor module. Certified to: IEC601-1, 601-2-18, CSA 22.2 No. 601, UL2601-1 and CE according to MDD, protection class 1/CF defib.</p>	
31	<p>FULL HD Camera Head Latest Technology with 1920 x 1080 High resolution, progressive scan, soakable, gas- and plasma-sterilizable, with integrated Parfocal Zoom Lens, focal length f = 15 - 31 mm (2x), 2 freely programmable camera head buttons Digital three-chip camera head for full HD with 2x parfocal optical zoom and 2 freely programmable camera head buttons, compatible with systems with integrated, innovative visualization technology for surgery by shifting the color spectrum and via homogeneous illumination and contrast enhancement.</p> <p><b>Technical data:</b> Image sensor: FULL HD With 1920 x 1080 pixel resolutions CCD chip supports 16:9 input format Progressive scan (full frame) for Integrated parfocal zoom lens, f = 15-31mm (2x optical zoom). display of 50 or 60 frames per second.</p> <p><b>Lens:</b> Minimum light sensitivity: 1.17 Lux (f = 1.4 mm). Control buttons: 3 (2 of them freely programmable). Integrated connection cable with plug to CCU and color coded cable nut to indicate compatibility o Sterrad® 100S, NX 100NX Steris® System1, V-Pro1 sterilisation methods.</p>	
32	<p>LED 300 Watt High-Performance LED Light with one light outlet, power supply 100 - 240 VAC, 50/60 Hz including: 400A Mains cord (1 No.)</p>	
33	<p>Fiber Optic Light Cable, with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 250 cm (1 No.)</p>	
34	<p>26" FULL HD Monitor, color systems PAL/NTSC, max. screen resolution 1920 x 1080, image format 16:9, video inputs: DVI, 3G-SDI, VGA, S-Video, Composite, video outputs: DVI, 3G-SDI, Composite, power supply 100 - 240 VAC, 50/60 Hz, 5 V DC output (1 A), wall-mounted with VESA 100 adaption, (1 No.) Including External 24 VDC Power Supply Mains Cord</p>	
35	<p>Electronic CO2 Insufflator, Set power supply 100 - 240 VAC, 50/60 Hz, (1 No.)</p> <p><b>Consisting of:</b> Electronic CO2 Insufflators, Silicone Tubing Set, sterilizable, Universal</p>	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>Wrench, Connecting Cable, length 100 cm, Sterile Filter, package of 10</p> <p>36 HIGH PRESSURE HOSE (1 No.)</p> <p>37 Equipment Cart Rides On 4 Antistatic dual castor wheels lockable powder coated with Shelved and drawers.</p> <p><b>Origin: UK / USA / Europe / Japan</b></p>	
03.	<p><b>HARMONIC GENERATOR</b></p> <p><b>Main fuses:</b> T5AL 250 V (Time-delay, 5 Amp, glass body, 5x20mm package size, quantity: 2)</p> <p><b>Degree of protection against electric shock:</b> Type CF applied part consisting of the HARMONIC or ENSEAL instruments</p> <p><b>Class of protection against electric shock:</b> Class 1</p> <p><b>Ingress protection G11 enclosure Ingress protection G11 footswitch:</b> IP21 : IP68</p> <p><b>Main input:</b> 100–240 V, 50/60 Hz, 500 VA</p> <p>Output: 150 VAC RMS maximum 35 watts continuous, 30–80 kHz (55.5 kHz unless otherwise marked in instrument IFU). Output: Bipolar, no neutral electrode required, 100 VAC RMS maximum, 135 watts maximum, 300–490 kHz (330 kHz unless otherwise marked in instrument IFU)</p> <p><b>Ambient operating conditions:</b> Temperature: 15°C–27°Cb, Humidity: 30%–75% non-condensing, Atmospheric Pressure Range: 700 hPa–1060 hPa</p> <p><b>Origin: UK / USA / Europe / Japan</b></p>	01 No.
04.	<p><b>TISSUE FUSION AND VESSEL SEALING SYSTEM</b></p> <p>Single channel Vessel Sealing Generator</p> <ul style="list-style-type: none"> <li>• Seal Time 2-4 Second Cycle</li> <li>• Seal Upto &amp; including 7mm</li> <li>• Feedback system should be equal/more than 20,000 time / Second</li> </ul> <p>Output: Isolated Output</p> <p>Cooling: Natural and forced convection</p> <p>Display: System status indicator-circle LED (12 blocks) System error indicator - triangle LED with exclamation mark Instrument status indicator - LED above the vessel sealing receptacle Usage limit indicator - 2 with a line through it.</p> <p><b>Output Characteristics:</b></p> <p><b>Mode:</b> Vesselsealing</p> <p>P-P Voltage: 500 V</p> <p>Rated Load (Ohms): 30</p> <p>Maximum Power (Watts): 270</p>	01 No.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>Input Power: 220-240 Volt</p> <ul style="list-style-type: none"> <li>• Maximum VA – 400 VA</li> <li>• Input mains voltage, full regulation range 180-264 VAC</li> <li>• Input mains voltage, operating range 210-240 VAC</li> <li>• Mains line frequency range (nominal) 50 Hz to 60 Hz</li> <li>• Fuses (2) – 5 mm x 20 mm 8 A, 250 V fast blow</li> </ul> <p><b><u>Accessories</u></b></p> <p>Vessel sealing Maryland Jaw 01 No.  Vessel sealing Footswitch 01 No.  Over shelf for available trolley 01 No.</p> <p><b><u>Certifications</u></b></p> <ul style="list-style-type: none"> <li>• FDA Approved</li> <li>• Multiple studies for effective 7 mm sealing</li> </ul> <p><b>Origin: UK, USA, Europe, Japan</b></p>	
05.	<p><b><u>HEAD LIGHTS WITH BATTERY PACKS</u></b>  <b><u>Surgical Head Light With Battery Operated</u></b></p> <p><b><u>Technical Specification/ Features:</u></b></p> <ul style="list-style-type: none"> <li>• LED surgical headlight</li> <li>• Homogenous light and weighs just 7 ounces</li> <li>• Its adjustable aperture ranges from 2” to 5” in diameter for exact spot size.</li> <li>• Light weight and balance for overall comfort to wear during long surgeries.</li> <li>• The brightest LED surgical headlight in the world</li> <li>• Illumination: 225,000 lux (Minimum) or better</li> <li>• Uniform pure white illumination, 6100 degrees K</li> <li>• Adjustable aperture for 2” to 5” illumination spot</li> <li>• Co-axial alignment for maximum light penetration</li> <li>• 4 to 12 hour battery life</li> <li>• Light-weight for long-lasting comfort</li> <li>• Durable and dependable</li> <li>• Complete mobility in OR with no tether to light source</li> <li>• Light Can be used for Deep Cavity Surgery including: <ul style="list-style-type: none"> <li>– Cardio-thoracic – Transplant</li> <li>– Spine – Urology</li> <li>– Ortho-trauma – General</li> <li>– Neuro – All other surgeries</li> </ul> </li> </ul> <p><b>Origin: UK / USA / Europe / Japan</b></p>	04 Nos.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
06.	<p><b>PORTABLE OT LIGHT WITH 10 HRS. BATTERY BACK UP</b></p> <p>Light Intensity 160,000 Lux  Battery Backup 10 Hrs Or better  Power Supply 100 - 240 VAC ± 10%  Frequency 50/60 Hz  Light source LED  Average life 50.000 hrs or better  Lighting at the centre, Ec @ 100 cm 160.000 lux  Colour temperature, CCT 4.500 °K  Colour rendering index, Ra 95  Index R9 &gt; 90  Light field diameter 24 - 33 cm  Focusable working distance 70 - 150 cm</p> <p><b>Origin: UK / USA / Europe / Japan</b></p>	02 Nos.
07	<p><b>SURGICAL HEAD LIGHT WITH XENON LIGHT SOURCE</b></p> <p><b>Xenon Headlight System:</b>  Composed of a 300W Xenon high power light source for advanced pure daylight, a fiber optic surgery headlight and a mobile trolley.</p> <ul style="list-style-type: none"> <li>• Xenon 300W</li> <li>• high power light source:</li> <li>• Advanced Xenon lamp (5600 K) with sunlight spectrum for true color fidelity, light intensity adjustable by diaphragm, focus steeples adjustable,</li> <li>• Lightweight fiber optic headlight with high performance optic system.</li> </ul> <p>Comfortable and foam bolstered headlight (grey and black), easy adjustable with two</p> <p><b>Origin: UK / USA / Europe / Japan</b></p>	04 Nos.
08.	<p><b>OR TABLES (BARIATRIC SURGERY TABLES)</b></p> <p>Accessories should be quoted separately for all type of surgeries including: General Surgeries, Laparoscopic Surgeries, Bariatric Surgeries, Oncology, Urology</p> <p>Length of table-top: 960 mm  Length of head section: 300 mm  Length of leg section: 700 mm  Width of table-top: 550 mm  Overall width: 600 mm  Table footprint (length x width): 1140 mm x 705 mm  Diameter of double castors: 125 mm  Height adjustment range (w/o pads): 680 mm - 1,040 mm 620 mm - 1,120 mm -</p>	01 Nos.



Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>Incl. longitudinal shift function: 730 mm - 1,090 mm 680 mm - 1,180 mm  Trendelenburg, electrohydraulic: 30°  Reverse Trendelenburg, electrohydraulic: 30°  Lateral adjustment, electrohydraulic: +/- 20°  Longitudinal shift: approx. 290 mm  Back section, electrohydraulic: - 40°/+ 70°  Manual inclination of leg section, gas spring assisted: - 90°  Spread angle of leg plates: 70°  Inclination of head section, gas spring assisted: - 45°/+ 25°  Tilt angle of head section pad: 25°  Total weight capacity: up to 400 kg or better  Safe working load: up to 360 kg or better</p> <p><b>Electrohydraulic adjustment functions:</b></p> <ul style="list-style-type: none"> <li>• High/Low</li> <li>• Trendelenburg/Reverse Trendelenburg</li> <li>• Lateral tilt</li> <li>• Back section</li> <li>• Leg plates</li> </ul> <p><b>Override systems:</b> Independent adjustment of table functions by means of detachable emergency control panel, electrohydraulic and emergency control hand wheels at the column and foot pump (hydraulic).</p> <p>Radiolucent table-top, SAF mattress, 60 mm thick, antistatic. Stainless steel table frame construction, sandblasted and electropolished, disinfection-proof. Stainless steel side rails 25 x 10 mm on both sides of the table-top for attachment of accessories, Table base cover of impact-proof ABS, with two inlaid SST plates to protect the cover, SST floor pan. Chassis with 4 double castors, two of which antistatic, with central lock. 1 of these castors equipped with directional lock. 5th spring-loaded directional castor, activated by foot pedal on both sides.</p> <p><b>Origin: UK / USA / Europe / Japan</b></p>	
09.	<p><b>CARDIAC OUT MONITORING SYSTEM</b></p> <p>BEAT TO BEAT Haemodynamic Function</p> <ul style="list-style-type: none"> <li>• Expanded patient database includes more diverse clinical situations and procedures in moderate to high-risk patients</li> <li>• Cardiac Output (CO) tracks more closely with patient physiology</li> <li>• Enhanced Stroke Volume Variation (SVV) filters out irregular heartbeats found in patients with most arrhythmias</li> <li>• High signal fidelity and secure authentication between sensor and monitoring platform supports patient safety</li> <li>• Enhance Surgical Recovery through Hemodynamic Optimization</li> <li>• <u>The EV1000 clinical platform now offers the next perspective on guiding volume administration when used with the ClearSight system. The latest visual clinical support screens available on the EV1000 clinical platform enable you to maintain your patients in the optimal volume range and reduce</u></li> </ul>	02 Nos.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>volume administration variability. Time in target facilitates Perioperative Goal-Directed Therapy (PGDT) compliance, helping the user to track and manage key parameters, and create and monitor customized protocols.</p> <ul style="list-style-type: none"> <li>• Downloadable, off line PGDT analytics software offers additional monitoring dashboards and robust reporting features for parameter, cohort and cross-cohort analytics and can be used with the <u>ClearSight, FloTrac and VolumeView systems.</u></li> <li>• This latest software update includes expanded monitoring for consistency across the <u>EV1000 clinical platform</u>, specifically: <ul style="list-style-type: none"> <li>• Addition of blood pressures as key parameters - MAP, SYS and DIA</li> <li>• And view blood pressure waveform on trend screen</li> <li>• Addition of pulse rate as key parameter</li> <li>• Addition of SVR parameter by entering a CVP.</li> </ul> </li> </ul> <p><b><u>Parameter Display:</u></b>  SD- Stroke Distance , SV- Stroke Volume  FTc- Flow Time Corrected, PV- Peak Velocity</p> <p><b><u>Parameter Display:</u></b>  CO - Cardiac Output, SVI - Stroke Volume Index  FTc- Flow Time Corrected, SV – Stoke Volume  SD – Stroke Distance, HR- Heart Rate  PV- Peak Velocity, CI – Cardiac Index</p> <p><b><u>Other Available Parameter</u></b>  MA- Mean Acceleration, MD- Minute Distance  FTp- Flow Time To Peak, DO2Delivered Oxygen  DO2I- Delivered Oxygen Index,  SVR- Systemic Vascular Resistance  SVRI- Systemic Vascular Resistance Index.</p> <p><b>Origin: UK / USA / Europe / Japan</b></p>	
10.	<p><b>INTERMITTENT PNEUMATIC COMPRESSION DEVICES WITH 12 CHAMBER SYSTEM FOR WOUND HEALING, TISSUE REPAIR AND OEDEMA MANAGEMENT</b></p> <p>Intermittent Pneumatic Compression (IPC) and Manual Lymph Drainage provides a synergistic enhancement of the effect of Complex Decongestive Physiotherapy (CPD).</p> <ul style="list-style-type: none"> <li>• Delivers compression to leg or foot, or both simultaneously</li> <li>• Clinically-proven, sequential, circumferential, gradient leg compression</li> <li>• Pressure Range Should have: <ul style="list-style-type: none"> <li>Lymph Assist 15 – 40 mmHg</li> <li>Sequential 15 - 120 mmHg</li> <li>Wave 15 – 100 mmHg</li> <li>All +/- 5%</li> </ul> </li> </ul>	06 Nos.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<ul style="list-style-type: none"> <li>• Cycle Times:  Inflation 30 - 95 sec in 5 sec increments  Deflation - 10 - 95 sec in 5 sec increments  Treatment time - 10 - 99 minutes or continuous</li> <li>• Mode Of Operation: Continuous</li> <li>• Treatment modes - Gradient sequential, Wave, LymphAssist</li> <li>• Full Transportability</li> <li>• A flexible and transportable design.</li> <li>• <b>Should have 12 Chamber Pump System</b></li> <li>• <b>12 Chamber Leg And Arm Garments Availability</b></li> </ul> <p><b>Origin: UK / USA / Europe / Japan</b></p>	
11.	<p><b>MULTIPARA MONITORS</b></p> <ul style="list-style-type: none"> <li>• Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.</li> <li>• Mounted on Original wall Mounting from same manufacturer</li> <li>• 15" Or More TFT Touch Screen Display and Single Knob Control</li> <li>• Parameters</li> <li>• ECG :</li> <li>• Numeric: heart rate.</li> <li>• Waveform : Seven Wave forms minimum, real time and freeze ECG trace</li> <li>• NON-INVASIVE BLOOD PRESSURE (NIBP):</li> <li>• Method: Oscillometric principle</li> <li>• Numeric: systolic, diastolic and mean pressure</li> <li>• Selectable auto inflate interval settings</li> <li>• Rising cuff/continuous pressure display.</li> <li>• TEMPERATURE:</li> <li>• Numeric: temperature selectable in °C/°F.</li> <li>• PULSE OXIMETRY:</li> <li>• Numeric: 0-100% oxygen saturation measuring range.</li> <li>• Waveform-plethysmograph pulse with pulse strength indication.</li> <li>• ARRHYTHMIA ANALYSIS:</li> <li>• Arrhythmia analysis and st analysis.</li> <li>• RESPIRATION:</li> <li>• Breath rate display and settable apnea alarms.</li> <li>• Sweep speed; 6.25, 12.5 mm/sec.</li> <li>• OTHER FEATURES:</li> <li>• Trend data 120 hours; graphical and tabular</li> <li>• ALARMS:</li> <li>• High &amp; low (settable) on all parameters</li> <li>• Visual and audible indication of alarms.</li> <li>• Dual IBP (2-IBP)</li> </ul>	08 Nos.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<ul style="list-style-type: none"> <li>• Dynamical pressure measuring range - 50 to 300 mmHg</li> <li>• 01 X set Transducer Kit will be supplied with each unit as start up</li> <li>• ETCO2 Monitoring with Accessories</li> <li>• Cardiac Output with accessories</li> <li>• Measurement method : Thermodilution Technique</li> </ul> <p><b>Origin: UK / USA / Europe / Japan</b></p>	
12.	<p><b>CENTRAL MONITORING SYSTEM</b></p> <p>Central Station for use in intensive and coronary care units</p> <ul style="list-style-type: none"> <li>• Unit shall be capable of monitoring of upto 32/64 beds.</li> <li>• The unit shall use wireless networking.</li> <li>• Shall provide a minimum of five 72 hour trends per monitor.</li> <li>• Shall allow instant alarm bed viewing.</li> <li>• The bed status shall always be displayed.</li> <li>• Bed to Bed Communication</li> <li>• The user shall be able to easily configure the display.</li> <li>• Shall be capable of producing a shift report.</li> <li>• Drug and Haemodynamic Calculations</li> <li>• Shall be supplied with the following: <ul style="list-style-type: none"> <li>• Hub Controller</li> <li>• Hub - Central Nurse Station Interface</li> <li>• Installation Kit</li> <li>• Laser Printer Interface</li> <li>• Laser Printer</li> </ul> </li> </ul> <p><b>Origin: UK / USA / Europe / Japan</b></p>	01 No.
13.	<p><b>ULTRASOUND MACHINE WITH LINEAR PROBE WITH PEDIATRIC PROBES</b></p> <ul style="list-style-type: none"> <li>• Designed for regional anesthesia and pain management practitioners, this system includes settings for superficial and deep blocks, pain injections, vascular access, and perioperative cardiac assessment. Plus, this intuitive and affordable system is easily cleaned for the surgical environment.</li> <li>• High-resolution imaging and clear tissue differentiation of the target and surrounding anatomy. Precisely visualize defined edges and details to help enhance procedure confidence.</li> <li>• Easily view an accurate portrayal of the needle and tip at various angles and depths in real-time with B-Steer+ Needle Recognition technology, without blooming distortion.</li> <li>• Identify large and small vessels within your pathway with sensitive Color and Power Doppler Imaging (PDI). Color modes can be left on during</li> </ul>	01 No.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>procedures, while maintaining gray-scale image quality.</p> <ul style="list-style-type: none"> <li>• Accurate needle: See the actual needle width and placement. No needle blooming or distortion.</li> <li>• Accurate anatomy: Precisely visualize your target and surrounding anatomy – all with defined edges and detail.</li> <li>• Accurate motion: See the needle advance in real time with no image processing delays, due to our responsive digital processing.</li> <li>• Designed for your specific needs in mind:</li> <li>• Pre-set anesthesia settings for nerve blocks and vascular access procedures, just gel and go.</li> <li>• Transducer options for deep to superficial imaging, or perioperative cardiac assessment - all on one system.</li> <li>• A single-surface, splash resistant screen, with flush transducer connectors, makes cleaning easy for the OR surgical environment.</li> <li>• Sleek and portable - easily fits into tight confines and offers quick mobility from pre-op to OR or PACU.</li> <li>• Cart offers height and tilt adjustments for ergonomic comfort, and storage trays to keep needle kits and other supplies within reach.</li> <li>• Transducer needle guides are available to help maintain needle angle for both in- and out-of-plane approaches. Easy to snap on and off the probe.</li> <li>• Flexible data management and connectivity makes an easy job of saving and storing images for your patient record keeping.</li> </ul> <p><b>Origin: UK / USA / Europe / Japan</b></p>	
14.	<p><b>HIGH DEFINITION I.P. MEDICAL GRADE CAMERAS AND VIDEO RECORDING SYSTEM FOR OVER HEAD LIGHTS</b></p> <p><b>High Definition OR Camera with Video Recording and Monitoring System</b> System Should Consist Of: 1-High Definition Camera for Recording Surgical Procedures 2-Nos 2-Digital HD Recorder And Documentation -1 No 3-HD Touch Screen Monitor Display (Minimum )27” Or More - 1 No</p> <p><b>TECHNICAL SPECIFICATION /FEATURE OF HD CAMERA</b></p> <p><b>IMAGE SENSOR</b> 1 /2.8 Type Exmor CMOS TECHNOLOGY</p> <p><b>SIGNAL SYSTEM</b> HD: 1080/59,94i, 1080/50i,720/59,94p, 720/50p SD: NTSC / PAL</p> <p><b>EFFECTIVE NUMBER OF PIXELS</b> Approx. 2,000,000 pixels Or More</p>	02 Nos.

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	<p><b>ASPECT RATIO</b> HD16:9 SD 4:3/ 16:9</p> <p><b>OPTICAL ZOOM LENS</b> 10x optical zoom, f=5.1 mm (wide) to 51.0 mm (tele), F1.8 to F2.1</p> <p><b>DIGITAL ZOOM</b> 12x (120x with optical zoom)</p> <p><b>MINIMUM OBJECT DISTANCE</b> 10 mm (wide) to 800 mm (tele end)</p> <p><b>SYNC SYSTEM</b> Internal</p> <p><b>MINIMUM ILLUMINATION</b> 12 lx (typical) (F1.8, 50 IRE)</p> <p><b>S/N RATIO</b> More than 50 dB</p> <p><b>ELECTRONIC SHUTTER</b> ½ to 1/10.000 s, 21 steps</p> <p><b>WHITE BALANCE</b> Auto Indoor, Outdoor, One-push, Manual</p> <p><b>GAIN</b> Auto/Manual (-3 to 18 dB, 8 steps)</p> <p><b>AE CONTROL</b> Auto, Manual, Shutter Priority, Iris Priority, Bright, Spot AE</p> <p><b>BACKLIGHT COMPENSATION</b> On/Off</p> <p><b>SIGNAL SYSTEM</b> HD 1080/59.94i, 1080/50i, 720/59.94p, 720/50p SD NSTC (crop/squeeze), PAL (crop/squeeze)</p> <p><b>VIDEO OUTPUT</b> HD-Analog-component SD VBS:1.0 Vp-p (sync negative) Y/C</p> <p><b>FOCUS SYSTEM</b> Full Auto, One push trigger, manual, infinity; near limit setting</p> <p><b>PICTURE EFFECTS</b> Nega art, black and white, picture-freeze</p> <p><b>CAMERA OPERATION SWITCH</b> Zoom tele, zoom wide</p> <p><b>CAMERA CONTROL INTERFACE</b> VISCA (TTL, signal level), baud rate; 9.6 Kb/s, 19.2 Kb/s 38.4 Kb/s stop bit 1 bit</p>	
	<p><b>Technical Specification /Feature of HD Recorder</b></p> <p>Video:</p> <ul style="list-style-type: none"> <li>• System Should have Support for Full 1080p Video Recording with DVI input for 1080p, 1080i, 720p NTSC &amp; PAL</li> </ul> <p>Connectivity:</p> <ul style="list-style-type: none"> <li>• System should have Wireless Integration Option to Record FULL 1080p HD medical video to a iPad/iPhone Or via USB cable.</li> <li>• Create PDF Surgical Reports with image annotations and mark-ups</li> <li>• Audio dictation embedded into PDF Surgical Reports.</li> <li>• Email, Open In, Export, Video Editing and more</li> <li>• Captures HD Video (1920×1080) &amp; Stills (1280×720) from HD Endoscopy Camera into H.264 .MP4, MPEG-4, JPEG, PNG &amp; BMP</li> <li>• Captures Standard Definition (NTSC &amp; PAL) Video &amp; Still Images</li> <li>• Audible Feedback – Confirms Pause, Record, and Still Capture</li> <li>• Dual Channel Simultaneous Recording.</li> </ul> <p>DICOM Compatibility</p> <ul style="list-style-type: none"> <li>• Should have Option to DICOM/PACS Server Connectivity with DICOM Modality Worklist or Local Worklist mode.</li> </ul>	

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	<ul style="list-style-type: none"> <li>• Optional notification of eligible media items sent over DICOM</li> <li>• Ability to filter the DICOM Modality Work List to only download a specific AE Title</li> </ul> <p>HL-7</p> <ul style="list-style-type: none"> <li>• System should have option for support available for SIU^S13, S14, S15 messages</li> </ul> <p><b>Origin: UK / USA / Europe / Japan</b></p>																																							
15.	<p><b>BOOK WALTER RETRACTION SYSTEM</b></p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">Field Post, 12" (30cm)</td> <td style="text-align: right;">1 ea</td> </tr> <tr> <td>Horizontal Bar</td> <td style="text-align: right;">1 ea</td> </tr> <tr> <td>Post Coupling</td> <td style="text-align: right;">1 ea</td> </tr> <tr> <td>Horizontal Flex Bar</td> <td style="text-align: right;">1 ea</td> </tr> <tr> <td>Ratchet Mechanism</td> <td style="text-align: right;">2 ea</td> </tr> <tr> <td>Tilt Ratchet Mechanism</td> <td style="text-align: right;">6 ea</td> </tr> <tr> <td>Ring, Oval, Medium 10½" x 14½" (26.7cm x 36.8cm)</td> <td style="text-align: right;">1 ea</td> </tr> <tr> <td>Ring, Segmented, Medium 10½" x 19" (26.7cm x 48.3cm)</td> <td style="text-align: right;">1 ea</td> </tr> <tr> <td>Blade, Balfour, 2⅝" x 3" (6.7cm x 7.6cm)</td> <td style="text-align: right;">1 ea</td> </tr> <tr> <td>Blade, Kelly 2" x 3" (5.1cm x 7.6cm)</td> <td style="text-align: right;">2 ea</td> </tr> <tr> <td>Blade, Kelly 2" x 4" (5.1cm x 10.2cm)</td> <td style="text-align: right;">1 ea</td> </tr> <tr> <td>Blade, Kelly 2" x 5" (5.1cm x 12.7cm)</td> <td style="text-align: right;">1 ea</td> </tr> <tr> <td>Blade, Kelly 2" x 6" (5.1cm x 15.2cm)</td> <td style="text-align: right;">1 ea</td> </tr> <tr> <td>Blade, Malleable 3" x 6" (7.6cm x 15.2cm)</td> <td style="text-align: right;">1 ea</td> </tr> <tr> <td>Blade, Malleable 2" x 6" (5.1cm x 15.2cm)</td> <td style="text-align: right;">2 ea</td> </tr> <tr> <td>Blade, Malleable 1½" x 6" (3.8cm x 15.2cm)</td> <td style="text-align: right;">1 ea</td> </tr> <tr> <td>Blade, Harrington, 1" x 5⅝" x 2½" (2.5cm x 14.3cm x 6.4cm)</td> <td style="text-align: right;">1 ea</td> </tr> <tr> <td>Blade, Gelpi</td> <td style="text-align: right;">1 ea</td> </tr> <tr> <td>Retractor Blade Cushion width - 2", Hex Cushion diameter – 14 mm</td> <td style="text-align: right;">4 ea</td> </tr> </table> <p><b>Origin: UK / USA / Europe / Japan</b></p>	Field Post, 12" (30cm)	1 ea	Horizontal Bar	1 ea	Post Coupling	1 ea	Horizontal Flex Bar	1 ea	Ratchet Mechanism	2 ea	Tilt Ratchet Mechanism	6 ea	Ring, Oval, Medium 10½" x 14½" (26.7cm x 36.8cm)	1 ea	Ring, Segmented, Medium 10½" x 19" (26.7cm x 48.3cm)	1 ea	Blade, Balfour, 2⅝" x 3" (6.7cm x 7.6cm)	1 ea	Blade, Kelly 2" x 3" (5.1cm x 7.6cm)	2 ea	Blade, Kelly 2" x 4" (5.1cm x 10.2cm)	1 ea	Blade, Kelly 2" x 5" (5.1cm x 12.7cm)	1 ea	Blade, Kelly 2" x 6" (5.1cm x 15.2cm)	1 ea	Blade, Malleable 3" x 6" (7.6cm x 15.2cm)	1 ea	Blade, Malleable 2" x 6" (5.1cm x 15.2cm)	2 ea	Blade, Malleable 1½" x 6" (3.8cm x 15.2cm)	1 ea	Blade, Harrington, 1" x 5⅝" x 2½" (2.5cm x 14.3cm x 6.4cm)	1 ea	Blade, Gelpi	1 ea	Retractor Blade Cushion width - 2", Hex Cushion diameter – 14 mm	4 ea	2 Nos.
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16.	<p><b>THOMPSON LIVER RETRACTOR SYSTEM</b> <b>Cat # SL91034A</b></p> <ul style="list-style-type: none"> <li>- Liver Transplant Retractor System should be Table Mounted System for Unparalleled Upper Abdominal Exposure with Superior Subcostal Margin Elevation.</li> <li>- Two post setup to provide a rigid, low-profile frame</li> <li>- Frame adjusts to fit operating room table extenders</li> <li>- Optional obesity blade kit for increased visibility</li> <li>- The Set up should be mounted in less than a minute</li> <li>- The unit should be consists of followings: -</li> </ul>	03 Nos.																																						

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	<ol style="list-style-type: none"> <li>1. Clamp Sterile Field Post Dbl Joint 02</li> <li>2. Standard Cross Bar 01</li> <li>3. Hinged Cross Bar 01</li> <li>4. SNAP CLAMP ASSEMBLY 07</li> <li>5. Angled Side Arm, 8" x 18" (20.3cm x 45.7cm) 02</li> <li>6. Doherty-Harrington Retractor Blade 01</li> <li>7. Sternal Retractor, 3" x 3" (7.6cm x 7.6cm) 02</li> <li>8. Mayo Swivel Retractor, 3-1/2" x 2-3/4" (8.9cm x 7cm) 02</li> <li>9. Blade Holder with 3626 Knob, 9" (22.9cm) 01</li> <li>10. Malleable Swivel Retractor, 2" x 6-1/2" (5cm x 16.5cm) 01</li> <li>11. Malleable Swivel Retractor, 3" x 6-1/2" (7.6cm x 16.5cm) 01</li> </ol> <p><b>Origin: UK / USA / Europe / Japan</b></p>	
17.	<p><b>ANESTHESIA WORK STATION</b></p> <p>suitable for low and minimal-flow inhalation anesthesia - suitable for adult, pediatric and neonate patients</p> <p><b>Basic unit</b></p> <ul style="list-style-type: none"> <li>- Electrically driven and electronically controlled ventilator</li> <li>- No Driven Gas required.</li> <li>- Electronically controlled fresh-gas delivery</li> <li>- vaporizer adapter for two vaporizers</li> <li>- fully automated self-test</li> <li>- Paramagnetic Oxygen Cell</li> <li>- age-corrected MAC value</li> <li>- Automatic detection of Anesthesia agent</li> <li>- Anesthetic gas scavenging system</li> <li>- Bar Graph Indicates the qualitative utilization of the fresh-gas flow</li> <li>- battery backup for monitoring and ventilation for up to 60 minutes</li> <li>- safety oxygen flow via mechanical O2 flowmeter with agent delivery</li> <li>- External Fresh Gas outlet</li> <li>- Anti hypoxic device</li> <li>- Integrated Safety Functions Sensitive Oxygen Ratio Controller</li> <li>- In case of electricity and battery failure, manual ventilation, gas delivery and agent delivery are possible.</li> <li>- Manual/Spont, Volume Control and Pressure Control ventilation modes</li> <li>- prepared for additional ventilation modes via software upgrades</li> <li>- SpO2 monitoring with Machine</li> <li>- 10 to 1400 mL tidal volume</li> <li>- Maximum inspiratory pressure 60 cm H2O</li> <li>- compact, leakage-tight design breathing system</li> <li>- Heated breathing system</li> <li>- Volume of CO2 absorber: 1.5 L reusable canister</li> <li>- autoclavable breathing system</li> <li>- 12.1" TFT color screen</li> <li>- Loops and Trends</li> </ul>	02 Nos.



Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>- large writing tray A3 paper format  - 1 drawer  - 4 castors, 2 with brakes  - Two Cylinders Yokes  - Hoses for O2, N2O and Air to connect with Central Supply System  - CO2 absorber with capacity of 1-2 kg</p> <p><b>PATIENT MONITOR</b>  Bedside monitor for display of vital sign of neonatal, pediatric and adult application.</p> <p>- Large 380 mm (15”) color touch screen.  - 11 waveforms displayed in full color  - Configurable layout  - Parameters: ECG, NIBP, SpO2, HR, Temperature, Respiration, EtCO2, IBP and Cardiac output  - Battery Backup for 180 minutes  - Power Requirement: 100 to 240 V AC, 3 A  - Frequency 50 to 60 Hz.</p> <p><b>Origin: UK / USA / Europe / Japan</b></p>	
18.	<p><b>LOW TEMPERATURE PLASMA STERILIZER / ETO MACHINE</b></p> <p><b>Low-temperature plasma sterilizer</b> provides an efficient sterilization solution for heat and moisture sensitive medical equipment in CSSDs, Hospitals, Respiratory and Gastroenterology Endoscopy Clinics.</p> <p>Sterilizer should be used for medical equipment and instruments made of heat-sensitive materials: products of synthetic and polymer materials, medical optical systems, medical electric instruments and electrical power cables, rigid endoscopes, ultrasonic medical devices, sensors, medical devices, including ultrasound devices, medical implants and tools for their installation, etc.</p> <p>Compact size low temperature plasma sterilizer with a 50 liters chamber volume. Should be supplied with a movable table and can be installed where needed.</p> <p><b>TECHNICAL SPECIFICATION:</b></p> <ul style="list-style-type: none"> <li>• Automatic door</li> <li>• Rectangular chamber, completely made of aluminum</li> <li>• 3 integrated sterilization programs</li> <li>• Short program – 28 min.</li> <li>• Standard program – 40 min.</li> <li>• Long cycle time (for long hollow pipes) – 50 min.</li> <li>• 5,7” colour touch screen display indicating in real time:</li> </ul> <p>- Cycle phases and parameters, both in numerical and graphic forms  - Anomalies, alarms</p> <ul style="list-style-type: none"> <li>• Output of sterilization parameters on the built-in printer</li> </ul>	1 No.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p><b>Total Cycle Time:</b> 28/40/50 minutes Short/ Standard/ Long cycles</p> <p><b>Cycle Temperature:</b> 50-55°C</p> <p><b>Depth:</b> 850 mm</p> <p><b>Width:</b> 725 mm</p> <p><b>Height:</b> 750 mm</p> <p><b>Weight:</b> 200 kg</p> <p><b>Sterilization Chamber Configuration:</b> Rectangular</p> <p><b>Total Chamber Volume:</b> 64 L</p> <p><b>Usable Chamber Volume:</b> 50 L</p> <p><b>Two-Tiered Shelf (WxD):</b> 350 mm x 620 mm</p> <p><b>Table dimensions:</b></p> <p><b>Depth:</b> 800 mm</p> <p><b>Width:</b> 725 mm</p> <p><b>Height:</b> 700 mm</p> <p><b>Should Be supplied All running consumable</b></p> <ul style="list-style-type: none"> <li>• Sterilization basket with cover 460×160×60 mm</li> <li>• Sterilization basket 460×80×60 mm</li> <li>• Sterilization basket 255×160×60 mm</li> <li>• Table 800 x 725 x 700 mm</li> </ul> <p><b>Origin: UK / USA / Europe / Japan</b></p>	
19.	<p><b>AUTOMATIC SEALING MACHINE</b></p> <p>Built-in 2-line printer, service menu with full indication of parameters, microprocessor temperature control, function counter, constant monitoring of seal quality, dual temperature control, seal pressure control, electronic seal alarm, programmable via computer.</p> <p><b>Technical Specifications:</b></p> <p>Width of seal joint : 12 mm – 15 mm</p> <p>Speed of sealing: 10 m/min.</p> <p>Voltage: 220 / 50 V/Hz:</p> <p>Temperature of sealing: 50 - 200 °C</p> <p>Power: 1800/3650 W (nominal/maximum)</p> <p><b>Origin: UK / USA / Europe / Japan</b></p>	02 Nos.
20.	<p><b>DRYING CABINET</b></p> <p>Drying cabinet should be Capable of fast drying of instruments, equipment, general items &amp; dedicated connections forced drying of anesthetic instruments.</p> <p>The Cabinet Should be with HST Full Glass double door pass through</p>	1 No.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>version with interlocked doors with key locks.</p> <p>Capacity: 8 X DIN 1/1 trays 36 X connections for anesthesia as hoses on 6x6 removable cassettes The device should be equipped with HEPA H14 filter. Chamber should be thermally insulated by a mineral wool panels coating. Drying chamber, shelves &amp; guides should be AISI 304 stainless steel. Should have Open door sensors. Should be equipped with two blowers &amp; circuit monitoring by temperature switch. Heating elements should be of 1.5 KW. Should have User interface on the loading side of the unit with following Specifications:.</p> <ul style="list-style-type: none"> <li>• Control panel with 3 digit LED display</li> <li>• °C/°F temperature display selection</li> <li>• RS 232 serial connection for printer</li> <li>• Temperature setting should be from 1 to 900 min or continuous.</li> <li>• Should Control the within 5.5°C of set temperature.</li> <li>• The device should be equipped with Visual and acoustic alarm (excludible) for minimum/maximum temperature, Maintenance, doors etc.</li> </ul> <p>Drying Cabinet Should Comply Following International Standards: VI 93/42CEE, Medical Device, designed 93/42/CEE Medical Device, 1993/42/EEC Medical Devices Directive, norm: EN 60204-1:2010, EN ISO 14971:2009. Electrical Requirements: 230V/~ /50Hz Country of Origin: USA/Western Europe/Japan</p> <p><b>Origin: UK / USA / Europe / Japan</b></p>	
21.	<p><b>FLUID WARMER MACHINE</b></p> <ul style="list-style-type: none"> <li>• Temperature setting: 33 - 41°C</li> <li>• Power supply: a.c.100~240V/50~60Hz</li> <li>• Power consumption: Max. 180VA or better</li> <li>• Provides instant heat</li> <li>• Temperature accuracy: ±1.0°C</li> <li>• Overheat protection: 42°C /43°C</li> <li>• Low temperature alarm: 32°C</li> <li>• Warming up time: From 20°C to 36°C approx.2 min.</li> <li>• Operating mode: Continuous</li> <li>• Warming profile: - length 1400mm - compatible IV tube 3.5-5.0mm O.D.</li> </ul>	1 No.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.																																																												
	<ul style="list-style-type: none"> <li>• High performance dry heater for warming of:</li> <li>• Infusion</li> <li>• Blood transfusion and blood products</li> <li>• Blood return feeds / dialysis fluids</li> <li>• Enteral/parenteral nutrition and rinsing</li> <li>• No water baths or hot plates</li> <li>• Automatic air removal</li> <li>• Touch screen with step-by-step on screen instructions</li> <li>• Simple set up</li> <li>• Automatic priming in seconds</li> <li>• Precise control of infusion               <ul style="list-style-type: none"> <li>○ with settings from 2.5 ml/min to 1000 ml/min</li> </ul> </li> <li>• Operator controlled bolus infusion</li> <li>• Automatic alarms               <ul style="list-style-type: none"> <li>○ when the line becomes obstructed, fluids deplete or when other conditions requiring attention arise</li> </ul> </li> <li>• Recirculation mode</li> <li>• Optional large reservoir</li> <li>• Automatic line pressure monitoring</li> <li>• Small and lightweight</li> </ul> <p><b>Origin: UK / USA / Europe / Japan</b></p>																																																													
22.	<p><b>SURGICAL INSTRUMENT SET WITH MICROSURGICAL INSTRUMENTS</b></p> <table border="1" data-bbox="264 1223 1305 2018"> <thead> <tr> <th data-bbox="264 1223 416 1261">Cat.#</th> <th data-bbox="416 1223 1209 1261">Items Description</th> <th data-bbox="1209 1223 1305 1261">Qty.</th> </tr> </thead> <tbody> <tr> <td colspan="3" data-bbox="264 1261 1305 1299"><b>LIVER TRANSPLANT RECIPIENT GENERAL SET</b></td> </tr> <tr> <td data-bbox="264 1299 416 1337">FB936R</td> <td data-bbox="416 1299 1209 1337">BABCOCK TISSUE/ORGAN FORCEPS 220MM</td> <td data-bbox="1209 1299 1305 1337">3</td> </tr> <tr> <td data-bbox="264 1337 416 1375">BM237R</td> <td data-bbox="416 1337 1209 1375">MAYO-HEGAR NEEDLE HOLDER 200MM</td> <td data-bbox="1209 1337 1305 1375">6</td> </tr> <tr> <td data-bbox="264 1375 416 1413">BH167R</td> <td data-bbox="416 1375 1209 1413">CRILE FORCEPS CVD 160MM</td> <td data-bbox="1209 1375 1305 1413">30</td> </tr> <tr> <td data-bbox="264 1413 416 1451">BH111R</td> <td data-bbox="416 1413 1209 1451">HALSTED-MOSQUITO FORCEPS DEL CVD 125MM</td> <td data-bbox="1209 1413 1305 1451">12</td> </tr> <tr> <td data-bbox="264 1451 416 1489">BH110R</td> <td data-bbox="416 1451 1209 1489">HALSTED-MOSQUITO FORCEPS DEL STR 125MM</td> <td data-bbox="1209 1451 1305 1489">18</td> </tr> <tr> <td data-bbox="264 1489 416 1527">BH210R</td> <td data-bbox="416 1489 1209 1527">HALSTED-MOSQUITO FORCEPS DEL STR 200MM</td> <td data-bbox="1209 1489 1305 1527">6</td> </tr> <tr> <td data-bbox="264 1527 416 1565">EA170R</td> <td data-bbox="416 1527 1209 1565">MAYO-ROBSON INTESTINAL FORCEPS STR 250MM</td> <td data-bbox="1209 1527 1305 1565">6</td> </tr> <tr> <td data-bbox="264 1565 416 1603">EA171R</td> <td data-bbox="416 1565 1209 1603">MAYO-ROBSON INTESTINAL FORCEPS CVD 250MM</td> <td data-bbox="1209 1565 1305 1603">6</td> </tr> <tr> <td data-bbox="264 1603 416 1641">JG525R</td> <td data-bbox="416 1603 1209 1641">LABORATORY DISH 2.5 L</td> <td data-bbox="1209 1603 1305 1641">1</td> </tr> <tr> <td data-bbox="264 1641 416 1680">BC615R</td> <td data-bbox="416 1641 1209 1680">NELSON-METZENBAUM SCISSORS CVD 230MM</td> <td data-bbox="1209 1641 1305 1680">3</td> </tr> <tr> <td colspan="3" data-bbox="264 1680 1305 1718"><b>LIVER TRANSPLANT DONOR - MICRO</b></td> </tr> <tr> <td data-bbox="264 1718 416 1756">BC265R</td> <td data-bbox="416 1718 1209 1756">TC METZENBAUM SCISSORS CVD 200MM</td> <td data-bbox="1209 1718 1305 1756">3</td> </tr> <tr> <td data-bbox="264 1756 416 1794">BC607R</td> <td data-bbox="416 1756 1209 1794">METZENBAUM SCISSORS CVD 200MM</td> <td data-bbox="1209 1756 1305 1794">3</td> </tr> <tr> <td data-bbox="264 1794 416 1832">BC273R</td> <td data-bbox="416 1794 1209 1832">TC TOENNIS-ADSON SCISS DEL CVD 175MM</td> <td data-bbox="1209 1794 1305 1832">3</td> </tr> <tr> <td data-bbox="264 1832 416 1870">BC664R</td> <td data-bbox="416 1832 1209 1870">DIETRICH ESSEL SCISSORS 60 180MM</td> <td data-bbox="1209 1832 1305 1870">3</td> </tr> <tr> <td data-bbox="264 1870 416 1908">BJ061R</td> <td data-bbox="416 1870 1209 1908">MIXTER FORCEPS LONG-SERR 220MM</td> <td data-bbox="1209 1870 1305 1908">3</td> </tr> <tr> <td data-bbox="264 1908 416 1946">BJ062R</td> <td data-bbox="416 1908 1209 1946">MIXTER FORCEPS LONG-SERR 250MM</td> <td data-bbox="1209 1908 1305 1946">3</td> </tr> <tr> <td data-bbox="264 1946 416 1984">BJ012R</td> <td data-bbox="416 1946 1209 1984">BABY-MIXTER FORCEPS HEAVY-CVD 180MM</td> <td data-bbox="1209 1946 1305 1984">3</td> </tr> </tbody> </table>	Cat.#	Items Description	Qty.	<b>LIVER TRANSPLANT RECIPIENT GENERAL SET</b>			FB936R	BABCOCK TISSUE/ORGAN FORCEPS 220MM	3	BM237R	MAYO-HEGAR NEEDLE HOLDER 200MM	6	BH167R	CRILE FORCEPS CVD 160MM	30	BH111R	HALSTED-MOSQUITO FORCEPS DEL CVD 125MM	12	BH110R	HALSTED-MOSQUITO FORCEPS DEL STR 125MM	18	BH210R	HALSTED-MOSQUITO FORCEPS DEL STR 200MM	6	EA170R	MAYO-ROBSON INTESTINAL FORCEPS STR 250MM	6	EA171R	MAYO-ROBSON INTESTINAL FORCEPS CVD 250MM	6	JG525R	LABORATORY DISH 2.5 L	1	BC615R	NELSON-METZENBAUM SCISSORS CVD 230MM	3	<b>LIVER TRANSPLANT DONOR - MICRO</b>			BC265R	TC METZENBAUM SCISSORS CVD 200MM	3	BC607R	METZENBAUM SCISSORS CVD 200MM	3	BC273R	TC TOENNIS-ADSON SCISS DEL CVD 175MM	3	BC664R	DIETRICH ESSEL SCISSORS 60 180MM	3	BJ061R	MIXTER FORCEPS LONG-SERR 220MM	3	BJ062R	MIXTER FORCEPS LONG-SERR 250MM	3	BJ012R	BABY-MIXTER FORCEPS HEAVY-CVD 180MM	3	02 Sets
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EB001R	LOWER GALL DUCT FORCEPS	180MM	3
BC934R	BABY-METZENB.SUPER CUT	SCISSORS STR 145MM	3
FB404R	DE'BA EY ATR.FCPS	2.0MM STR240MM	12
FB412R	DE'BAKEY ATR.FCPS	1.5MM STR200MM	7
BM027R	TC NEEDLE HOLDER	X-DEL SERR 230MM	6
BM037R	TC DE'BAKEY NDL HOLDER	DEL SERR 260MM	3
BM255R	HEGAR NEEDLE HOLDER	HVY-SERR 205MM	6
BM068R	TC HEGAR-MAYO NDL HOLDER	HVYSERR 235MM	3
FB500R	DE'BAKEY TANGENTIAL CLMP	1.38MM-WD220MM	3
FB501R	DBAKY TNGENTAL CLMP	2.48MM-WIDE 265MM	3
FB563R	COOLEY PEDIATRIC FORCEPS	24MM160MM	3
FB559R	DERRA PEDIATRIC FORCEPS	16MM165MM	3
FB541R	DE'BAKEY BULLDOG CLMP	RING-HDLCVD125MM	6
FB543R	DE'BAKEY BULLDOG CLAMP	RING-HDL45DEG125MM	6
FB755R	COOLEY PATNT-DCTUS CLMP	60DG52MM170MM	3
FB493R	MORRIS ATR.AORTA CROSS-CLAMP	175MM	3
GF354R	FERG-FRAZIER SUCT	12FR 110MM WRK-LGT	4
GF351R	FERG-FRAZIER SUCT	6FR 2/110MM WRK-LGTH	4
FB422R	DE'BAKEY ATR.BULLDOGCLAMP	STR.30/90MM	6
FB328R	MINI-BULLDOGCLAMP	STR.14/35MM	4
FB330R	MINI-BULLDOGCLAMP	STR.19/45MM	4
FB395R	DE'BAKEY STRAIGHT FCPS	1MM TIP195MM	6
FK292R	WATSON-CHEYNE DISSECTOR	LGTH 127MM	3
BT200R	CUSHING SADDLE HOOK	14X11MM 250MM	3
FM564R	DIADUST MICRO NEEDLE HOLDER	RD HDL 185MM	6
BC629R	DE'BAKEY ARTERIOTOMY SCISSORS	CVD 175MM	6
BC178R	POTTS TENOTOMY SCISSORS	CVD 175MM	4
BC615R	NELSON-METZENBAUM SCISSORS	CVD 230MM	4
OB511	BOWMAN PROBE DBL-END	0.9MM/1.1MM130MM	4
OB512	BOWMAN PROBE DBL-END	1.3MM/1.4MM130MM	4
OB513	BOWMAN PROBE DBL-END	1.5MM/1.6MM130MM	4
OB514	BOWMAN PROBE DBL-END	1.8MM/1.9MM130MM	4
	<b>LIVER TRANSPLANT RECIPIENT SET - MICRO</b>		
BC265R	TC METZENBAUM SCISSORS	CVD 200MM	3
BC607R	METZENBAUM SCISSORS	CVD 200MM	6
BC273R	TC TOENNIS-ADSON SCISS	DEL CVD 175MM	6
BC664R	DIETRICH VESSEL SCISSORS	60180MM	3
BJ061R	MIXTER FORCEPS LONG-SERR	220MM	3
BJ062R	MIXTER FORCEPS LONG-SERR	250MM	4
BJ012R	BABY-MIXTER FORCEPS	HEAVY-CVD180MM	6
EB001R	LOWER GALL DUCT FORCEPS	180MM	3
FB405R	DE'BAKEY ATR.FCPS	2.0MM STR 300MM	6
FB404R	DE'BAKEY ATR.FCPS	2.0MM STR240MM	6

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS			Qty.
FB418R	DE'BAKEY FCPSDEL1.5MM WIDE242MM LONG		6	
FB412R	DE'BAKEY ATR.FCPS 1.5MM STR200MM		12	
BM026R	TC NEEDLE HOLDER X-DEL SERR200MM		3	
BM038R	TC DE'BAKEY NDL HOLDER DEL SERR 305MM		6	
BM027R	TC NEEDLE HOLDER X-DEL SERR 230MM		3	
BM025R	TC NEEDLE HOLDER X-DEL SERR 180MM		6	
BM037R	TC DE'BAKEY NDL HOLDER DEL SERR 260MM		6	
BM255R	HEGAR NEEDLE HOLDER HVY-SERR 205MM		6	
BM068R	TC HEGAR-MAYO NDL HOLDERHVYSERR 235MM		3	
FB500R	DE'BAKEY TANGENTIAL CLMP1.38MM-WD220MM		3	
FB501R	DBAKY TNGENTAL CLMP 2.48MM-WIDE 265MM		3	
FB504R	DE'BAKEY TANGENTIAL CLMP 5 75MM-W280MM		3	
FB563R	COOLEY PEDIATRIC FORCEPS 24MM160MM		3	
FB559R	DERRA PEDIATRIC FORCEPS 16MM165MM		3	
FB541R	DE'BAKEY BULLDOG CLMPRING-HDLCVD125MM		6	
FB543R	DE'BAKEY BULLDOG CLAMPRING-HDL45DEG125MM		6	
FB493R	MORRIS ATR.AORTA CROSS-CLAMP175MM		3	
FB466R	DE'BAKEY PERIPHERAL CLAMP 60DG180MM		3	
GF354R	FERG-FRAZIER SUCT 12FR 110MM WRK-LGT		3	
GF351R	FERG-FRAZIER SUCT 6FR 2/110MM WRK-LGTH		3	
FB422R	DE'BAKEY ATR.BULLDOGCLAMP STR.30/90MM		6	
FB328R	MINI-BULLDOGCLAMP STR.14/35MM		4	
FB395R	DE'BAKEY STRAIGHT FCPS 1MM TIP195MM		6	
FK292R	WATSON-CHEYNE DISSECTOR LGTH 127MM		3	
FM564R	DIADUST MICRO NEEDLE HOLDER RD HDL 185MM		6	
	<b>LIVER TRANSPLANT DONOR GENERAL SET</b>			
BM237R	MAYO-HEGAR NEEDLE HOLDER200MM		2	
BH339R	SPENCER-WELLS FORCEPS CVD 200MM		4	
BH167R	CRILE FORCEPS CVD 160MM		10	
BH111R	HALSTED-MOSQUITO FORCEPS DEL CVD125MM		4	
BH110R	HALSTED-MOSQUITO FORCEPS DELSTR125MM		6	
BC615R	NELSON-METZENBAUM SCISSORS CVD 230MM		3	
	<b>LIVER PERFUSION SET</b>			
FB394R	DE'BAKEY VASC.ST FORCEPS 1MM TIP150MM		6	
	<b>LIVER TRANSPLANT MICRO SET</b>			
FM563R	DIADUST MICRO NEEDLE HOLDER RD HDL 185MM		2	
FM590R	MICRO FORCEPS DE'BAKEY 1MM STR.185MM		4	
FD287R	RND BODY SUTURE FORCEPSCVD0.6MM180MM		3	
FB328R	MINI-BULLDOGCLAMP STR.14/35MM		3	
FB330R	MINI-BULLDOGCLAMP STR.19/45MM		3	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS			Qty.
	BC620R	WELLER SCISSORS HVY-CVD 280MM	3	
	BC178R	POTTS TENOTOMY SCISSORS CVD 175MM	3	
	BC526R	DIETHRICH POTTS SCISSOR 125 DEG ANG180MM	2	
	FB329R	MINI-BULLDOGCLAMP CVD.14/35MM	2	
	FB328R	MINI-BULLDOGCLAMP STR.14/35MM	2	
	FB330R	MINI-BULLDOGCLAMP STR.19/45MM	2	
	BH034R	MICRO DIETHRICH BULLDOGCLAMP ANG.13/48MM	2	
	FM590R	MICRO FORCEPS DE'BAKEY 1MM STR.185MM	3	
	FM563R	DIADUST MICRO NEEDLE HOLDER RD HDL 185MM	2	
	FB395R	DE'BAKEY STRAIGHT FCPS 1MM TIP195MM	2	
	FB466R	DE'BAKEY PERIPHERAL CLAMP 60DG180MM	2	
	FB559R	DERRA PEDIATRIC FORCEPS 16MM165MM	2	
	FB563R	COOLEY PEDIATRIC FORCEPS 24MM160MM	2	
	FB504R	DE'BAKEY TANGENTIAL CLMP 5 75MM-W280MM	2	
	BM037R	TC DE'BAKEY NDL HOLDER DEL SERR 260MM	4	
	BM027R	TC NEEDLE HOLDER X-DEL SERR 230MM	2	
	EB001R	LOWER GALL DUCT FORCEPS180MM	2	
	BJ012R	BABY-MIXTER FORCEPS HEAVY-CVD180MM	2	
	BJ061R	MIXTER FORCEPS LONG-SERR220MM	2	
	BJ062R	MIXTER FORCEPS LONG-SERR 250MM	2	
		<b>Sterlization Containers For General Instruments Validated For 5000 Cycles(Life Time containers.)</b>		
	JK741	BOTTOM FOR 3/4 CONTAINER HEIGHT:120MM	3	
	JF253R	3/4 SIZE PERF BASKET 406X253X76MM	3	
	JP017	PRIMELINE CLEAR LID 3/4 SIZE	3	
	JF947	SILICONE CUSHIONING PAD 3/4 SIZE	6	
		<b>Sterlization Containers For Micro Instruments Validated For 5000 Cycles(Life Time containers.) Silicom Racks</b>		
	JK442	BOTTOM FOR 1/1 CONTAINER HEIGHT:135MM	5	
	JP007	PRIMELINE CLEAR LID 1/1 SIZE	5	
	JF222R	1/1 SIZE PERF BASKET 540X253X56MM	5	
	JG302	SCREW DRIVER HEXAGON SOCKET 3MM	2	
	<b>Origin: UK / USA / Europe / Japan</b>			
23.	<b>VASCULAR ACCESS MEASUREMENTS MONITOR FOR DIALYSIS</b>			01 No.
	Should Have Following Parameter Monitoring: 1- Measure Vascular Access Flow 2- Measure Delivered Blood Flow 3- Vascular Access Recirculation, 4- Cardiac Output (optional).			

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<ul style="list-style-type: none"> <li>• The standalone Haemodialysis Monitor with a rechargeable battery.</li> <li>• The Monitor can be mountable to an IV pole for added convenience.</li> <li>• The Monitor should have touch screen operation with easy to clean to prevent cross contamination among users.</li> <li>• The Monitor should have Data Transfer Module stores patient data and can be removed and connected to a computer with Administrative software option.</li> <li>• The Administrator software is equipped with an integrated scheduler/planner and allows patient notes to be inputted into a comprehensive patient record. Track trends in measurements, generate statistics and reports, and identify high thrombosis risk patients from the Administrative software.</li> <li>• The Hemodialysis monitor can be used with any access type including fistulas, grafts and catheters. Measure access flow, delivered blood flow, recirculation and cardiac function (optional -CO models only) for a comprehensive view of access health.</li> <li>• KDOQI Guidelines (as well as European, Canadian and Australian) initiated access flow warning signs that signal need for further monitoring and possible corrective action.</li> <li>• The first flow threshold is flow less than 600 mL/min for grafts and 400-500 mL/min for fistulas. Secondly, the Guidelines recommend flow trending to identify a failing access.</li> <li>• Indicate effectiveness of interventions (post-intervention surveillance) or limb ischemia;</li> <li>• Exclude access dysfunction quickly as cause of under-dialysis patient;</li> <li>• Identify a mid-access obstruction;</li> <li>• Identify high-flow versus low flow accesses to select ideal treatment plan for correction (flow-restricting versus re-vascularization procedure);</li> <li>• Permit access surveillance to be performed by the clinic's staff who then can alert the nephrologist to the possible onset of access dysfunction;</li> <li>• Implement KDOQI Guidelines with Gold Standard reference method.</li> </ul> <p><b>Origin: UK / USA / Europe / Japan</b></p>	
24.	<p><b>PATIENT SLIDER</b></p> <p>Rolling board-type patient transfer slide which transfers patients between a bed and x-ray table, operating table, shower trolley, or an ambulance stretcher.</p> <p>Specification:  Size 177 cm x 55 cm (±3%) (unfolded) 88 cm x 55cm (±3%) (folded)  Weight 3.0Kg (±3%)  Materials Covers: 100% Nylon Inner board: shock absorbing material  Certification CE certified according to the Medical Device Directive: 93/42/EEC  Flammability Tested EN 597-2:1994 Match Flame Test passed  Water Resistance Tested Over 1800 cmH<sub>2</sub>O/min according to ISO 811:1981 test method  Staphylococcus Aureus</p>	05 Nos.



Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	Tested Antibacterial Activity Value: 5.3 according to ISO 20743:2007 test method Dermatophagoides Pteronyssinus Tested No mite was found after 72-hour mites prevented passes testing <b>Origin: UK / USA / Europe / Japan</b>	
25.	<b>EASY SLIDE</b>  Lateral Patient Transfer Slide is a rolling sheet specially designed to transfer patients between a bed and x-ray table, operating table, shower trolley, or ambulance stretcher. Slides provide unique qualities that save manpower, time, space,  <ul style="list-style-type: none"> <li>• Light-Weight and Foldable</li> <li>• Ultra-Low-Friction</li> <li>• Anti-Microbial</li> <li>• Fire Retardant</li> <li>• Durable</li> <li>• Water Resistant</li> <li>• Size: 156 x 55cm unfold</li> <li>• Max Load 150KG</li> </ul> <b>Origin: UK / USA / Europe / Japan</b>	05 Nos.

**SPECIAL NOTE:**

- i. The Purchaser will evaluate and compare the bids on itemized basis OR on the basis of a group OR a combination of groups OR as total of groups.
- ii. The above specifications 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. has only been used for the reference purpose. Goods offered "AT LEAST EQUIVALENT" to requisite specifications shall also be considered.
- iii. Equipment must be quoted with all the standard accessories.
- iv. UPS/Power protection for the equipment shall be incorporated in the systems, otherwise prices must be quoted separately.
- v. All the civil works will be carried-out by the Dow University of Health Sciences, Karachi with the consultation of the responsive bidder.
- vi. Responsive bidder will provide the consultancy regarding the installation of the Equipment according to the GMP / WHO Standards (if applicable).
- vii. All site specific work to be required in the system viz. Lead Glass/special antistatic flooring, environment control/radiation protection must be quoted separately.
- viii. The bidder shall separately quote the price of service contract inclusive of parts as well as excluding the parts for 5 years (minimum) in term of %age for total contract value.

# H: Sample Forms

## 1. PERFORMANCE GUARANTEE/SECURITY FORM

To: [Name & Address of the Procuring Agency]

Whereas [Name of Bidder] (hereinafter called "the Bidder") has undertaken, in pursuance of Contract No. **[number]** dated **[date]** to supply **[description of goods]** (hereinafter called "the Contract").

And whereas it has been stipulated in the said Contract that the Bidder shall furnish to the Procuring Agency with a Bank Guarantee by a scheduled bank for the sum of 5% of the total Contract amount as Security for compliance with the Bidder's performance obligations in accordance with the Contract.

And whereas we have agreed to provide a Guarantee: for the said Bidder

Therefore, we hereby unconditionally and irrevocably guarantee, on behalf of the Bidder, 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 Bidder to be in default under the Contract and without requiring the Procuring Agency to initiate action against the Bidder and without cavil or argument any sum or sums within the limits of **[Amount of Guarantee]** as aforesaid. The amount stated in the demand made under this guarantee shall be conclusive proof of the amount payable by the Guarantor under this guarantee.

The obligations of the Guarantor under this guarantee shall be valid for four months after the completion of delivery of supplies by the Bidder to the Procuring Agency of the full quantity of the goods for which this Guarantee is being given, and until all and any obligations and sums due have been paid in full.

Signature and Seal of the Guarantors / Bank

Address

Date

**2. MANUFACTURER'S AUTHORIZATION FORM**  
[SEE CLAUSE 11.1 (A) OF THE INSTRUCTION TO BIDDERS]

To: The Dow University of Health Sciences  
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 Bidder / Agent]**                      to submit a bid, and subsequently follow-up / negotiate and sign the Contract with you against Invitation for Bids (IFB) / Tender Notice for the goods manufactured, by us, under the patent name of                                           for performance of the contract.

We hereby commit and assure our full guarantee and warranty / guarantee as per Clause 12 of the General Conditions of Contract for the goods offered for supply by the above mentioned firm against this Invitation for Bids.

[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.

### 3. CONTRACT FORM

THIS AGREEMENT made the \_\_\_\_\_ day of \_\_\_\_\_ 2016 between *Dow University of Health Sciences, Karachi of Islamic Republic of Pakistan* (hereinafter called “the Procuring Agency”) of the one part and \_\_\_\_\_ [Name of Bidder] of \_\_\_\_\_ [city and country of Bidder] (hereinafter called “the Bidder”) 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 Bidder 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:

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

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

- (a) the Bid Form and the Price Schedule submitted by the Bidder;
- (b) the Schedule of Requirements;
- (c) the Technical Specifications;
- (d) the General Conditions of Contract;
- (e) the Special Conditions of Contract; and
- (f) the Procuring Agency’s Notification of Award.

3. In consideration of the payments to be made by the Procuring Agency to the Bidder as hereinafter mentioned, the Bidder 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

4. The Procuring Agency hereby covenants to pay the Bidder 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 by the Manufacturer /  
Authorized Bidder / Authorized Agent

\_\_\_\_\_  
Signed / Sealed by Procuring Agency

# I: Bid Form & Price Schedule

## 1. BID FORM

To: The Dow University of Health Sciences  
Karachi

Dear Sir,

Having examined the Bidding Documents, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver the goods specified in the said Bidding Documents for the sum of \_\_\_\_\_ **[Total Bid Amount Rs. \_\_\_\_\_]**, **[Bid Amount in words \_\_\_\_\_ only]**

or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this bid.

2. The free of cost / donation / discounts offered and the methodology for their application are: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

4. If our bid is accepted, we shall obtain an unconditional guarantee of a bank in the sum of 5% of the Contract Price for the due performance of the Contract, in the form prescribed by the Procuring Agency.

5. We agree to the validity of this bid for 90 days from the date fixed for financial bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

6. Until a formal Contract is prepared and executed, this bid, together with the written acceptance thereof and notification of award, by the Procuring Agency, shall constitute a binding Contract between us.

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

Name \_\_\_\_\_

In the capacity of \_\_\_\_\_

Signed \_\_\_\_\_

Duly authorized to sign the Bid for and on behalf of \_\_\_\_\_

Date \_\_\_\_\_

2. (a) **PRICE SCHEDULE IN PAK RUPEES delivered duty paid (DDP BASIS)**

**FOR GOODS OFFERED WITHIN THE PROCURING AGENCY'S COUNTRY**

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	3	4	5	6	7	8	9
<b>Total Amount in Pak Rs.</b>								

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 / C&F BASIS)**

**FOR GOODS OFFERED FROM OUTSIDE THE PROCURING AGENCY'S COUNTRY**

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

Name \_\_\_\_\_

In the capacity of \_\_\_\_\_

Signed \_\_\_\_\_

Duly authorized to sign the Bid for and on behalf of \_\_\_\_\_

Date \_\_\_\_\_