



BIDDING DOCUMENT
Single Stage - Two Envelope Bidding Procedure

**PROCUREMENT OF
MEDICAL, HOSPITAL & LAB. EQUIPMENT/INSTRUMENTS**
No. DUHS/P&D/2014/5790 Dated 16 April 2014

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A: Instructions to Bidders. (ITB)

1. INTRODUCTION

1. GENERAL

1.1 The Procuring Agency has allocated fund towards the cost “Angiography Suite, Centre of Cochlear Implant, Department of Pathology, Fermentation Lab and Department of Dental Research”. 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 Bidders shall not be eligible to bid if they are under a declaration of ineligibility for corrupt and fraudulent practices issued by the any government organization in accordance with sub clause 35.1.

3. ELIGIBLE GOODS AND RELATED SERVICES

3.1 The term “goods” includes commodities, raw material, machinery, equipment, and industrial plants; and “related services” includes services such as insurance, installation, training of university staff, and initial maintenance.

3.2 The goods manufactured by the bidder or authorized by manufacturer, or their Authorized Agents / Importers / Bidders. The goods without Original Manufacturer Authorization or their Authorized Agents/Importers/Bidders shall not be entertained.

3.3 Goods registered with the concerned Authority / Ministry / Department (if applicable).

3.4 Goods comply with the Technical Requirements of the Bidding Document.

3.5 Goods of current production / model / series, suitable for Pakistani conditions.

- 3.6 Goods conforming to the Food and Drug Administration (FDA) 510K and European Community (CE) MDD or Japan Industrial Standard (JIS).
- 3.7 Goods comply with the international rules of safety quality and standard.
- 3.8 Goods comply with the electric specifications of 220V, 50Hz / 60Hz.

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 120 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, Baba-e-Urdu Road, Near Civil Hospital, 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
1	Conformity to the Purchaser's Specifications		25
		Fully compliant with the required specifications	25
		Compliant with minor deviation (up to 10% subject to main function is not effected)	20
2	Product Certification		15
		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)	14
		Food and Drug Administration (FDA) 510K	8
		European Community (CE) MDD	7
		Japan Industrial Standard (JIS)	7
3	Product global acceptability / performance		10
		World wide satisfactory performance certificates from the medical institutions (other than Pakistan) (1.5 marks for each certificate upto maximum 8) verified by the relevant countries	10
TOTAL MARKS PRODUCT EVALUATION (A)			50

B. BIDDER EVALUATION

S#	PARAMETERS	SUB-PARAMETERS	Total Marks
4	Legal Requirement		6
		Authorization Certificate	2
		Partnership Deed with manufacturer	2
		Taxation Certificate (NTN and GST)	2
5	Technical Staff		14
		Simple Technician (minimum two)	3
		Diploma Engineers (minimum two)	3

S#	PARAMETERS	SUB-PARAMETERS	Total Marks
		Graduate Engineers (For High Tech / Critical equipment Graduate Engineer of relevant field is mandatory for each product)	5
		MSc / PhD qualification/Foreign training	3
6	Networking and Training		8
		Networking setup across Pakistan (1 mark for each setup upto maximum 6)	6
		Certificate to the affect that the firm will provide training in the use of equipment to the relevant technical staff. Training plan must be attached with certificate	2
7	Testing & Calibration Equipment		4
		List of tools , testing equipment and calibration equipment relevant to the product	2
		Spare Parts readily availability (Inventory list)	2
8	Past Experience / Performance		4
		Satisfactory performance certificate for the quoted equipment from the medical institutions within Pakistan (1 mark for each certificate upto maximum 4)	4
9	Financial Status		6
		Bank Certificate	2
		Last year verified Balance Sheet	2
		Yearly turn-over of over 100 Million	2
10	Bonus points		8
		Special features	2
		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 (consumeables / reagents / replacement parts	2
		Post warranty maintenance contract, including service and parts, rates (companies to offer precentage (%) of the contract value in the technical bid. The lowest will get the full marks. The rates must come from the original manufacturer	2
TOTAL BIDDER EVALUATION (B)			50
GRAND TOTAL (A + B)			100

Note:

- If a bidder fails to obtain minimum 20 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. The Procuring Agency will issue Purchase Order as soon as the Contract is signed. 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 One day before the date of signing of the Contract, the successful Bidder shall furnish Performance Security in line with the Performance Security Form provided with the bidding documents. Upon submission of Performance Security the Bid Security will be returned to the Bidder. The amount of

Performance Security is specified at Clause 3 in the Special Condition of Contract.

- 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: Invitation for Bids (IFB)

No. DUHS/P&D/2014/5790 Dated 16 April 2014

Dow University of Health Sciences (DUHS), Karachi, invites sealed bids on C&F / DDP basis as per given schedule for the **PROCUREMENT OF MEDICAL, HOSPITAL & LAB. EQUIPMENT / INSTRUMENTS** from the manufacturers / bidders duly authorized by the manufacturer of the goods.

2. Bids must be delivered to the address below at or before **11:00 a.m. on 09 May 2014**. The bids will be opened in the presence of the Bidders' representative who choose to attend at the address below at **11:30 a.m.** on the same day (in case of any holiday or disturbance, the bids will be opened on the next day of the original scheduled date). The late bids will be rejected.
3. Bids shall be accepted under the single stage two envelope procedure. All bids received shall be opened and evaluated in the manner prescribed in the bidding document".
4. The bidding document may be purchased by interested bidders on the submission of a written application along with a copy of Sales Tax Registration Certificate to the address below and upon payment of a nonrefundable fee i.e. Rs. 2,000/- (Rupees two thousand only) in shape of Pay Order / Demand Draft in favour of Dow University of Health Sciences, Karachi **with effect from 25 April 2014 to 08 May 2014**.
5. All bids must be accompanied by a Bid Security of 2% of the total value of bid, in favour of Dow University of Health sciences, Karachi in the shape of Demand Draft or Pay Order or Bank Guarantee. The Tender without 2% Bid Security will not be considered and rejected.
6. For further information, visit DUHS website www.duhs.edu.pk OR contact in personal at below address from 11:00 a.m. to 02:00 p.m.
7. The bidders not registered with Sales Tax and Income Tax Registration authorities will not be considered and their offer will be rejected as non responsive.

NOTE:-

If no responsive bid received within the due date reflected above in Para 2 i.e. **09 May 2014**, the bids will be received and opened, **second** or **third** time as per following schedule. However, all the other terms and conditions will remain the unchanged.

S#	Bid Document Purchase	Bid Submission Date & Time	Bid Opening Date & Time
1.	10 th to 26 th May. 2014	27 May 2014 at 11:00 a.m.	27 May 2014 at 11:30 a.m.
2.	28 th May to 11 th June 2014	12 June 2014 at 11:00 a.m.	12 June 2014 at 11:30 a.m.

DIRECTOR PLANNING & DEVELOPMENT
DOW UNIVERSITY OF HEALTH SCIENCES
3rd FLOOR, ADMN. BLOCK
BABA-E-URDU ROAD, NEAR CIVIL HOSPITAL, KARACHI
PHONE No. +92-21-99215754-7 (EXT. 190 & 191)
E-MAIL: 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, HOSPITAL & LAB. EQUIPMENT .**
No. DUHS/P&D/2014/5790 Dated 16 April 2014

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, HOSPITAL & LAB. EQUIPMENT .
No. DUHS/P&D/2014/5790 Dated 16 April 2014
- ITB 16.1 (c)** Dow University of Health Sciences, Baba-e-Urdu Road, Near Civil Hospital, 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: 09 May 2015 at 11:00 a.m.**

OPENING & EVALUATION OF BIDS

- ITB 20.1** The bid opening shall take place at:
Dow University of Health Sciences,
Baba-e-Urdu Road, Near Civil Hospital, Karachi
Date: 09 May 2015
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** One day before the signing of Contract, 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, Baba-e-Urdu Road, Near Civil Hospital, 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 examine 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.

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.

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:

Dow University of Health Sciences, Baba-e-Urdu Road, Near Civil Hospital,
Karachi.

Phone No. +92-21-99215754-7 (EXT. 190 & 191)

Fax No. +92-21-99215763

E-mail: 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 stores must be delivered, installed and put into operation as early as possible after the contract award.
- ii) The bidder shall give in the offer his own schedule for the delivery and installation of various items of the Stores which shall be negotiable and subject to approval of the Procuring Agency.
- iii) The delivery period shall start from the date of contract signature.

1.2 For Goods supplied from outside the Procuring Agency's country (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

GROUP 1 – ANGIOGRAPHY SUITE

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
1.	<p>UNIVERSAL ANGIOGRAPHY MACHINE A fully digital flat panel single plane Cardiac/PV Angiography system for both adult and paediatric, dedicated for diagnostic & interventional cardiac / PV procedures with actual size of detector of Min 30 x 30 cm or more. The Angiography system should comprise of the following Configuration: POSITIONING ARM: STAND. Floor/Ceiling mounted stand with motorized movements with patient access from all 3 sides. Real time display of rotation angulations. Geometry: C-arm / G-arm RAO / LAO +/- 105 ° or more. Cranial / Caudal: Min. +/-45° or more, Rotation Speed: 20°/sec or more in LAO / RAO. Isocentric Height: Variable / Fixed with focal spot to iso center at 74cm or more Auto Positioning: Programmable auto positioning of selected angulations. (30 or more programmable positions.) The control panel can be mounted at any side of the patient table. All the rotational / angles should be digital displayed next to the ceiling mounted monitor. Motorized / manual parking / rotation of the positioning arm. DIGITAL FLAT PANEL. Single plane C-Arm / G-Arm Digital Flat Panel Detector Size 30cmx30cm or more with 3 formats or more Image matrix of 1024 x 1024 x 14 bits or more. Built in temperature stabilizer. Integrated collision protection feature Detector Pixel Size Of 180micrometer or more and image resolution of 1.5K x 1.5K or more All other standard accessories according to this digital flat panel. PATIENT SUPPORT/ TABLE. Catherization Table: Floor mounted with up down / vertical, longitudinal and transverse rotational movements with table top length of minimum 290cm or more for unobstructed head to toe coverage without need for patient re-positioning Longitudinal Stroke.: 1000 mm or more. Lateral stroke: 120 mm or more Table Top Height 80-100 cm CPR: In any table position. Table side movement control with one additional control to control the movements from any side of the table. Table top should be of such construction in material and durability to accept patient's weight of not less than 200 kg plus 50 kg for resuscitation/CPR.</p>	1 No.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>Table dimensions should be able to accommodate patients of all ages. Table top should have large metal free over hang for un-obstructed imaging coverage. Complete accessories should be provided including arm holder, hand grip, arm support and arm rest and positioning aids. Left / right table rotation: + / - 180 degree or more for facilitation in patient loading/unloading & access in case of emergencies Removable anti scatter grid for paed cases</p> <p>X-RAY GENERATOR. Microprocessor based high frequency using fiber optic for data communication between each imaging system. Dedicated X-Ray generator of 100 kW. Radiographic rating minimum 1250 mA. fluoroscopic rating 100 mA or more Serial filming exposures with shortest exposure of 1ms, Auto exposure optimization with automatic kV and mA control for optimum image quality The system should have capability of digital radiography and fluoroscopy with automatic control of exposure time, mA. Should have capability of doing digital pulsed fluoroscopy at 12.5 / 15 & 25 / 30 /Sec.</p> <p>DIGITAL IMAGING AND ACQUISITION / FLUOROSCOPY. DIGITAL SYSTEM. Pulse Fluoroscopy at 30/25 FPS, 15/12.5 FPS & 7.5/6 FPS. Acquisition, storage and display in 1024 x 1024 x 14 bits or more at 12.5 / 15 and 25/30 FPS. Parallel processing capability / multitasking facility. Real time filtering and road map function. Magnetic Disk Capacity for Storage of 125,000 images in 1024 x 1024 x10 bit or more on main console. Minimum scene length to be 10 seconds in 1024 matrix. Digital pulsed fluoroscopy with 12.5 / 15 and 25 / 30 FPS in 1024 x 1024 x 10 bits or more. Images to be stored on and retrieved from archival disks for possible manipulation and quantification using available software packages. Integrated dose monitoring with upto 7 different imaging modes preferred</p> <p>X-RAY TUBE. Dual focal with at least 2.4 MHU or better anode heat storage capacity to enable continuous heat dissipation at 6KW during serial exposure. Heat Storage Capacity of 5 MHU or more Dual / triple focus, rotating anode. Focus 0.3 / 0.7 / 1.0 mm or better. Dose management with auto adjustment fluoro Cu filters or programmable filters</p> <p>MONITORS Flat Screen 18" TFT of 1024 x 1024 matrix. Monitors should be ceiling mounted in the operation room. Brightness of the imaging monitors: 600 cd/m or better. Two monitors for live images and road mapping in the operating room 18" TFT. Two monitors for live images and road mapping in the control room 18" TFT. One 18" TFT monitor for live images and road mapping in the conference room</p>	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>remote from the Cath Lab. One integrated/Seprate monitor of 18” Inches for images of IVUS One additional monitor 18” TFT to display hemodynamic data in the operating room. All the monitors will be of Medial Grade, complied with international standards for medical monitors. CONTROLS: All controls of digital imaging system, incl. Post Processing & Quantification (LVA,QCA) analysis shall be in the control room while replay / display of reference image should be available in the examination room. Wireless remote control for playback and processing functions. RECORDING / ARCHIVING & COMMUNICATION SYSTEM: Recording / archiving system should be DICOM-3 compatible. The digital images should be stored as backup on CD/DVD. DICOM (send/storage, commitment, retrieve/query) Ethernet connection to connect with other terminals. Integrated Intercom system. REVIEW STATIONS (02). DICOM-3 Compatible and Workstation quoted should be manufactured from the original manufacturer Edge enhancement, adjustable view speeds & post processing. High resolution 18” TFT Monitor. CD/DVD writer and CD/DVD ROM drive. Image storage capacity 3 x 80 GB with at least 10000 RPM Speed at each review station and SCSI/ Equivalent Controller at each review station. The bidders should quote their own licensed software. SOFTWARE / HARDWARE PACKAGES. Complete analysis package for the following cardiac applications.</p> <ul style="list-style-type: none"> • Dynamic pre and post PTCA / valvotomy comparison with one image live and other reference. • Automatic loop replay after acquisition or fluoroscopy. • Dynamic real time pan / zoom. • Dynamic real time digital image processing like edge enhancement or gamma correction, noise reduction (spatial filtration.) • DSA, Dynamic acquisition capability of bolus enhanced run off (stuttracted & unsubtracted) studies • Simultaneous display of fluoroscopy and reference images, not only as static images but as dynamic loop. • Standard Quantification packages • Online image density (gray scale) correction. • Facility to review previous studies in the examination room from the patients old CD. • All controls of digital imaging system incl. Post-processing & Quantification shall be in the examination as well as control room. • Real time 3D imaging capability based on rotational acquisition for various clinical procedures should offered as standard • Stent Enhancement preferably at table side 	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>SURGICAL SHADOW LESS LIGHT. Ceiling suspended. For Angiographic and related surgical procedure</p> <p>RADIATION PROTECTION. Ceiling suspended tilt able lead glass for radiation protection of operators head & neck regions & lower body parts region. Collision tolerant. Lower body radiation protection flaps. Lead lining of room where necessary.</p> <p>QUALITY AND SAFETY STANDARDS. FDA 510 K approval CE (MDD) compliance.</p> <p>OTHER ALLIED ACCESSORIES: One postscript level Laser Printer or Video printer for taking image printouts on paper. This printer is to be connected with the Main Digital Imaging System. Paper for 500 prints should be delivered with the printer. 500 writeable CDs should be delivered with the system. Lead Glass Window size 2 x 1 meter or more. Pb equivalent 2.0 mm or better. 10 x Pb Male Aprons, double side with different sizes. Pd equivalent front 0.5 mm. The aprons must be lightweight and double sided. 20 wall mounted hangers. 10 x Pb Aprons for female in two parts (upper and lower body) with different sizes (small, medium.) 10 x Thyroid shields and 20 x Pb Goggles. On line sine wave UPS for whole system with a minimum back up time of 10 minutes including room lights. Microprocessor based IGBT technology. Display and alarms of parameters. Three phase line voltage of 220V 50 Hz with all necessary standard parts including batteries. Programmable Contrast Media Injector with 500 disposable syringes Complete standard Crash Cart and one Cardiac Defibrillator, synchronized type. ACT machine (01 No.) Automatic positioning of the c-arm corresponding to reference image. Store Fluoro facility to store fluoroscopy Cupboard / storage racks for catheters etc within the Lab. Whole blood Oximeter Machine One. 10 x Pen dosimeter (digital)</p> <p>INSTALLATION: Complete works for state of the art Angio Suite including storage racks paneling, lead lining, flooring, false ceiling, scrubbing area etc. Split air conditioning units for whole suite. Complete electricity works within Angio room including earthing and cabling etc.</p> <p>TRAINING: Four weeks local training for two technicians. Two visit of Application specialist for doctors and Technicians.</p>	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
2.	<p>HAEMODYNAMIC MONITOR INCLUDED IN ANGIOGRAPHY</p> <p>Multichannel (16 channels or more) to record at least 4 channels IBP, Cardiac output. Surface ECG in any configuration and simultaneous 12 lead ECG, NIBP and SpO2 measurement.</p> <p>The system must have complete software for all pediatric & adult, right / left heart, angio / valvular hemodynamic examinations including functionality for hemodynamic calculations such as gradients, valve areas, shunt. Including annotations and 12 channel ECG.</p> <p>Digital display of all the parameters like IBP, Heart rate, cardiac output parameters. It should be possible to print the waveforms simultaneously while acquiring the data in the back ground.</p> <p>It should be possible to store the waveforms on the hard disk / MOD of the physiological recording system.</p> <p>The system should include following:</p> <p>10 x Invasive blood pressure transducer.</p> <p>Reusable interface/cable for 12 lead ECG (05 Nos.), NIBP (05 Nos.) and Cardiac Output.</p> <p>Holder for mounting the IBP transducer alongside the patient table.</p> <p>The system should have 10 GB or more hard disk for permanent storage.</p> <p>Two color monitors 17 inch Active matrix TFT inside the control room.</p> <p>One monitor in the examination room that should be installed on the ceiling suspension with two monitors of imaging system.</p> <p>DVD / CD writer for archiving of study data and waveforms stored on the hard disk.</p> <p>Facility of freezing the homodynamic data and simultaneous recovery of recent data / compare stored data with current waveform.</p> <p>Upgradeable to Electrophysiology</p>	1 No.

GROUP 2 – CENTRE OF COCHLEAR IMPLANT

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
3.	<p>COCHLEAR IMPLANT SPEECH PROCESSOR</p> <ul style="list-style-type: none"> • Switch free control system • Four program positions, continuously adjustable volume • Fine Tuner - (Remote Control) unique switch - free design: sensitivity, volume and program adjustments are made with the Fine Tunerremote control • Standard input for assistive listening devices • Omni - directional microphone • Programmable dual-loop AGC (Automatic Gain Control) • Status light • Future Upgradeable • Private alert (Audiable for users only) <p>Wearing Options</p> <ul style="list-style-type: none"> • Standard Battery Pack • Rechargeable battery system <p>Weight</p> <ul style="list-style-type: none"> • With Rechargeable battery system 10.1g • Control Unit 2.0g <p>Sound Coding Strategies Application software supports:</p> <ul style="list-style-type: none"> • Fine Structure Processing (FSP) • High Definition CIS (HID - CIS) • Continuous Interleaved Sampling (CIS+) • System supported with future coding strategies <ul style="list-style-type: none"> • Must be FDA Approved 	30 Nos.

GROUP 3 – DEPARTMENT OF PATHOLOGY

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
4.	<p>AUTOMATIC TISSUE PROCESSOR</p> <ul style="list-style-type: none"> • Fully automatic carousel type with 12 stations with 10 reagent stations and 2 wax baths. • Connection for optional third wax bath. • The system should have inbuilt vacuum and with fume control. • Metal tissue basket having less base diameter compare to upper diameter to avoid baskets getting stuck and • Capacity 300 min cassettes and upto 600 • Audible alarms, error message and warning codes. • Ergonomic control panel with full protected keyboard and LCD. • Easy editing and changing of programs, even during a processing run. • Delayed start function up to > 7 days. • Infiltration time separately programmable for each station. • More than 8 freely selectable programme • Drain time 60 seconds between stations • Machine should have the option of interrupting an automatic process for reloading or • removing cassettes if needed to before the end of a run. • Baskets should be automatically immersed in a station during the power failure. • Indication of date, time, remaining time in process step, step number and reagent description. • Permanent memory capacity for up to 10 programs. • Should have Power back up (UPS) . 	2 Nos.
5.	<p>MICROTOME</p> <ul style="list-style-type: none"> • Coarse – feed wheel to support fatigue – free sectioning • Vertical stroke – minimum of 55 mm, and maximum of 70 mm • Specimen orientation system with calibrated control – XY – Axes : 80 ,and Z – Axes – 360 Deg • Minimum horizontal specimen advance of 25 mm • Adjustable hand wheel balance system • Hand wheel brake to allow the hand wheel to be locked in the upper position • Locking system to lock in any position • Should facilitate specimen size upto 50x50 mm with standard object clamp <p>The equipment supply should include : -</p> <ul style="list-style-type: none"> • Object orientation unit • Standard object clamp • Knife holder base with disposable blade holder for both low profile / high profile blades 	2 Nos.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<ul style="list-style-type: none"> • Section waste tray • It should have range of thickness 0.5 μm – 100 μm with following steps <ul style="list-style-type: none"> 0.5 μm from 0.5 μm - 2 μm 1.0 μm from 2 μm - 10 μm 2.0 μm from 10 μm - 60 μm 5.0 μm from 50 μm - 100 μm <p>The equipment is to be supplied completely useable including:</p> <ul style="list-style-type: none"> • Object orientation unit • Universal cassette clamp alternatively Standard object clamp • Knife holder base • Standard knife holder • Section waste tray 	
6.	<p>ELECTRIC BALANCE FOR FROZEN SECTION & GROSS</p> <p>Weighing Capacity: 200 g or more Readability: 0.1 mg or 0.0001 g Repeatability: ± 0.1 mg or less Linearity: Less than ± 0.2 mg Stabilization time: Less than 3 seconds Pan: Stainless steel weighing pan with removable dust and spill rings Pan Size: 80-100 mm: Calibration: Internal Display: High contrast LCD Certification: GLP compliant and ISO certified: Cover: Pan should be covered by glass from all sides</p>	1 No.
7.	<p>MICROSCOPES</p> <p>Functional Requirement: A microscope fitted with double eyepieces for vision with both eyes is a Binocular Microscope. The purpose in dividing the same image from a single objective of the usual compound micro-scope is to reduce eyestrain and muscular fatigue which may result from monocular, high-power microscopy</p> <p>Operational Requirements: System with research quality optics with complete illumination system is required</p> <p>Optical System: Infinitely corrected optics par focal, plan achromatic lenses with anti- fungal properties</p> <p>Illumination: Built in transmitted Koehler illumination, 220-240V 0.85/0.45A 50Hz, 6 V, 30 W halogen bulb – (5 Spare bulbs should be supplied with each microscope)</p>	6 Nos.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>Focusing: Stage height movement by roller guide (rock & pinion), Upper limit stopper, Tension adjustable on coarse focus adjustment knob</p> <p>Revolving nosepiece: Quintuple</p> <p>Observation tube: Tube inclination – 30° / 45°, Interpupillary distance adjustment range – minimum 50 to 70mm</p> <p>Stage: Movement range – 75 mm X - direction X 25mm Y – direction, Rectangular scratch resistant stage with right hand control with double slide holder and vernier calipers on X Y axis, Should have rounded edges of the stage corners</p> <p>Condenser: Type – Abbe condenser, N.A. – < 1, Aperture iris diaphragm - built – in</p> <p>Objectives: Plan Achromat , 10x, 20x, 40x & 100x Minimum working distance for 100X should be 0.13 to 0.2 mm</p> <p>Eyepiece: 10X with F.N 20 wide field</p> <p>Additional Attachment for photo micrography, dark ground microscopy, Polaroid Microscopy, Phase contrast Microscopy</p> <p>Accessories: All the necessary adapters and power cords should be provided for functioning of microscope</p> <p>Power Supply: Power input to be 220-240VAC, 50Hz fitted with Indian plug</p> <p>Standards & Safety: Should be FDA , CE,UL or BIS approved product, Manufacturer/Supplier should have ISO certification for quality standards</p>	
8.	<p>DOUBLE HEAD MICROSCOPE</p> <p>Functional Requirement: Standard Double Head Teaching Microscope with photography attachment , Phase contrast, dark field and polarizing capabilities.</p> <p>Operational Requirements: System with research quality Infinity colour corrected optics with complete transmitted illumination system is required.</p> <p>Optical System: Infinity colour corrected optics par focal, plan achromatic lenses with anti- fungal properties</p> <p>Illumination: Built in transmitted Koehler illumination, 220-240V 0.85/0.45A 50Hz, 12 V, 35 W halogen bulb – (5 Spare bulbs should be supplied with each microscope)</p>	1 No.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>Focusing: Stage height movement by rock & pinion, Upper limit stopper, Tension adjustable on coarse focus adjustment knob</p> <p>Revolving nosepiece: Quintuple</p> <p>Observation tube: Binocular Photo Tube/with sliding prism, Interpupillary distance adjustment. Binocular tube 30/23 with interpupillary distance adjustment for second observer</p> <p>Stage: Mechanical rectangle stage 75X 30R , with hard coat anodized surface (scratch resistant). 210 X 145 mm stage plate, with right hand control, single hand control specimen holder and calipers on X Y axis, Should have rounded edges of the stage corners.</p> <p>Condenser: Type – Abbe condenser, N.A 0.9/ 1.25 H, D, Ph1, Ph2, Ph3.</p> <p>Objectives: A Plan, 5X/0.12,10x0.25Ph1, 20x/0.45PH2, 40x/0.65PH2 & 100x / 1.25Ph3 Oil</p> <p>Eyepiece: Wide Field focusable Eyepieces E-PL 10/20 Br. Foc.</p> <p>Polarizing attachment</p> <p>Digital photography attachment with digital Microscopy Camera 5.0 Megapixels.</p> <p>Coobserver attachment with dimmable LED pointer .</p> <p>Accessories: All the necessary adapters and power cords should be provided for functioning of microscope</p> <p>Power Supply: Power input to be 220-240VAC, 50Hz fitted with Indian plug</p> <p>Standards & Safety: Should be FDA , CE,UL or BIS approved product, Manufacturer/Supplier should have ISO certification for quality standard</p>	

GROUP 4 – FERMENTATION LAB

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
9.	<p>FERMENTOR COMPLETE WITH TWO VESSEL (1LIT & 5LIT)</p> <p>Both vessel should work with one controller at the same time Temperature Heating Thermostat system with recirculation pump Temperature control between 8°C above water inlet Temperature up to 80°C 600 Watt Connections for jacket of double-wall glass vessel Connections for exhaust cooler Pt100 temperature sensor with pocket</p> <p>Glass vessel 1x 5L working volume 1x 1L working volume jacketed glass vessel with round bottom borosilicate glass polished top plate with handles stainless steel stand for culture vessel</p> <p>Agitation Control Top drive with direct coupling or magnetically coupled top-drive Agitation motor 6-blade disk (Rushton turbine) impeller 30 - 1200 rpm (1L) 30 - 1200 rpm (5L)</p> <p>pH control Acid/Base pH control via acid and base addition with peristaltic pumps Measurement range pH 2-12 Built-in acid and base pump Gel-filled electrode, autoclavable Control mode Adjustable dead-band, pH stat with feeding control</p> <p>Addition bottles 500ml 3 addition bottles per vessel Autoclavable glass bottle head piece (cap) made of stainless steel with two hose connectors for 3.2 x 1.6 mm silicone tubing tubing screw cap with silicone gasket aeration filter 0.2 µm PTFE/silicone tubing</p>	1 No.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>Dissolved oxygen control DO Range 0 to 200%, Resolution 0.10% DO sensor; autoclave able Control mode >2-stage DO cascade response: (operate under manual or process mode) a. Increase or decrease agitation speed b. Oxygen enrichment module by supplying external oxygen source c. Adjusting DO level using accurate gas mixing control (Gas blending through mass flow controller or separate gas mixing station)</p> <p>Foam Probe 316L stainless steel protector with insulated PTFE coating tube; on/off control autoclavable, adjustable sensitivity control</p> <p>Peristaltic Pump 3-4x built-in pumps per vessel for acid, base, foam and feeding control; 1x external Watson Marlow pump Per vessel (variable speed can be controlled manually or automatically)</p> <p>Logging software For controlling, logging, programming and data storage</p> <p>Aeration Inlet gas flow-meter 0.5-5 LPM (1L) 01-12 LPM (3, 5L)</p> <p>Sparger Ring sparger or sintered or fish-tail sparger</p>	
10.	<p>SHAKING INCUBATOR WITH COOLING, HEATING, PHOTOSYNTHESIS ILLUMINATION AND CO2 CONTROL</p> <p>Orbital Motion shaking incubator Heater rating: <1KW Refrigerator: <200W Temp. Range: Ambient 10 °C ~ 70 °C Temp. Accuracy: ± 0.3 °C at 37 °C Shaking Speed: 20 ~ 250 rpm Shaking Accuracy: 0.1rpm Shaking movement: adjustable (25mm/50mm) orbital motion Timer: 1s-99hr 59min, (continuous function included) Compressor Control: Intelligent Control of Refrigerator for preventing Overload of Compressor Material Internal: Stainless steel Material External: Powder coated steel</p>	2 Nos.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.																				
	<p>Platform: Universal platform for various shapes & size of flask Platform Size: ~500mmx450mm Capacity of Flask Holder 250ml: atleast 12 or Capacity of Flask Holder 500ml: atleast 8 or Capacity of Flask Holder 2000ml: atleast 5</p> <p>Holder: stainless steel or durable & flexible plastic flask holder (up to 2000ml) Safety Device: Over temp. and over current protector, sensor error detector leakage breaker Others: Storage function (Temp., Timer), Automatic stop when door is opened Power Consumption: <1KW Power Supply: 220 Volt, 50 / 60 Hz</p> <p>CO₂ control CO₂ Measuring range: 0-20% CO₂ Opening of the door automatically stops CO₂ Illumination for Photosynthesis control with LED modules</p>																					
11.	<p>SPECTROPHOTOMETER</p> <p>Applications: Bacterial cell density at 600nm, Protein quantification, enzyme kinetics and nucleic acid if possible Wavelength range: 330-800 nm (250-800nm if possible) Accuracy: +/- 2 nm Wavelength calibration: Automatic upon switch on Light source Tungsten Halogen Sample compartment size: Accepts standard 10 mm path length glass or plastic cells</p>	3 Nos.																				
12.	<p>MICROPROCESSOR PH/MV METER</p> <p>Microprocessor-based 2 points push-button calibration with auto-buffer recognition Manual or automatic temperature compensation for best accuracy under fluctuating temperatures View electrode slope</p> <table border="0"> <tr> <td>pH Range</td> <td>0.00~14.00pH</td> </tr> <tr> <td>pH Accuracy</td> <td>±0.01pH</td> </tr> <tr> <td>mV Range</td> <td>0~±1999mV</td> </tr> <tr> <td>mV Accuracy</td> <td>±1mV</td> </tr> <tr> <td>Temperature Range</td> <td>0~100.0oC</td> </tr> <tr> <td>Temperature Accuracy</td> <td>±1oC</td> </tr> <tr> <td>pH Calibration Points</td> <td>2 Points</td> </tr> <tr> <td>Calibration Solution</td> <td>NIST, pH4.00/6.86/9.18 or USA, pH4.01/7.00/10.01</td> </tr> <tr> <td>Temperature Compensation</td> <td>0~100oC, Manual or Auto</td> </tr> <tr> <td>Display</td> <td>Custom LCD with operation icon</td> </tr> </table>	pH Range	0.00~14.00pH	pH Accuracy	±0.01pH	mV Range	0~±1999mV	mV Accuracy	±1mV	Temperature Range	0~100.0oC	Temperature Accuracy	±1oC	pH Calibration Points	2 Points	Calibration Solution	NIST, pH4.00/6.86/9.18 or USA, pH4.01/7.00/10.01	Temperature Compensation	0~100oC, Manual or Auto	Display	Custom LCD with operation icon	4 Nos.
pH Range	0.00~14.00pH																					
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pH Calibration Points	2 Points																					
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Temperature Compensation	0~100oC, Manual or Auto																					
Display	Custom LCD with operation icon																					

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	Power Requirements DC9V, using AC adapters, 220VAC, 50Hz complete with pH Standard Buffer, Electrode, Power Adapters, Electrode Holder, Temperature Probe, Operation Manual	
13.	<p>GRADIENT THERMAL CYCLER</p> <p>Faster speeds, No condensation after overnight cooling at 4°C 6-segment block temperature control with users able to select 6-segment temperature independently TM calculator, PC Viewer, Simple user interface Sample Capacity: 1 x 96 well plate, 12 8 x 0.2mL strip tubes, 96 x 0.2mL tubes Programmable Temperature Range: 4°C to 99.9°C Temperature Control: Calculated or block Temperature Accuracy/Uniformity: ±0.5°C/±0.5°C Heating/cooling method: Peltier Gradient temperature range: 30°C to 99°C. Temperature of 6-segment blocks can be set independently. Maximum Temperature difference between 6-segment temperature blocks 24°C 6-segment Temperature blocks: 6 temperature blocks in 4 x 4 well format Programmable lid temperature: 60° to 65°C, 100° to 115°C Program memory: 200 complete programs Temp. increments/decrements: Yes Time increments/decrements: Yes User program folders: 50 sets Password protected programs: Yes Communication: USB and RS232 ports Electrical: 240V or 120V, 50/60 Hz</p>	5 No.
14.	<p>DIGITAL PERISTALTIC PUMP</p> <p>Ideal for a variety of applications, which include filtration, circulation, sampling, chemical spraying, dispensing transferring, feeding and filling. Digitally controlled, Flow direction conveniently reversible Microprocessor Controller Easy load pump header Reversible for purging Controller: Digital Microprocessor Controller Motor: Brushless Motor, Power: 100W Pump Speed /Inc: 5 ~ 600rpm /1 rpm Variable flow rate: 0.3 ~ 2,280ml / min Number of roller: 3 Operating temperature: Ambient to 40°C Construction: Painted iron metal Rated voltage: 100V ~ 240V</p>	6 Nos.

GROUP 5 – DEPARTMENT OF DENTAL RESEARCH

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
15.	<p>SCANNING ELECTRON MICROSCOPE (SEM)</p> <p>High resolution imaging in both conventional high vacuum and unique variable pressure modes a) A resolution of 3.0 nm or better should be guaranteed in high vacuum mode, 4.0 nm in VP-mode and 10nm at 3Kv. b) Variable chamber pressure – range 5pa-270 pa. c) SE detector, which can image secondary electrons from conducting and non- conducting specimens in both variable pressure and high vacuum mode. d) STEM multiview face detector e) A pump system for quick vacuum generating capability for the sample</p> <p>Variable pressure or extended pressure mode of operation a) The variable pressure mode should allow microscopy of wet, oily and non-conductive samples in their natural state without the need of conventional sample preparation. Clean vacuum system with standard high vacuum pump, no water-cooling required.</p> <p>High probe current The current should be 5 µA for various biological sample imaging applications.</p> <p>Chamber pressure should not be more than 3000 pa and water vapour introduction kit suitable for biological samples</p> <p>Anti-Vibration air table</p> <p>5-Multi axis motorization stage a) Simple specimen handling with quick fit sample holders, for quick sample mounting and navigation. Stage movement and magnification should be in all axes with a regulated joystick displacement. b) Multiple sample holders and stage dimensions at least 125 by 100 mm with rotation and tilting 0-70 deg.</p> <p>Computer controlled electronics a) Windows operating system: Latest control computer with dual Processor: Core 2 Duo E8400, memory: 16GB DDR2-800, hard disc: 2x HDD SATA II 500GB 7.2k, DVD SuperMulti SATA, ATI Fire GL V8600 1GB, Gigabit Ethernet, Vista Ultimate MuLi, USB 2.0, Firewire. More than 500 GB storage space. A high resolution large TFT screen with 30” diagonal, 2560x1600 pixel resolution. b) Mouse driven menus for changing operating modes with pressure settings ranging from 5Pa through 270 Pa in the sample chamber.</p> <p>Accessories: Software capability to image in epifluorescence and scanning electron microscope modes.</p>	1 No.

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
16.	<p>UNIVERSAL HARNESS TESTING MACHINE (UTM) for DENTAL MATERIALS</p> <p>The Machine should be computerized with suitable software for calculating various parameters with standard accessories like separate indenters for Rockwell, Vickers, Brinell & Hardness std. test blocks.</p> <p>Capable of testing hardness in Rockwell, Vickers, Brinell at different loads.</p> <p>Specimen accommodation: Height 300 mm Throat 200 mm</p> <p>The Machine & Hardness std. test blocks should be calibrated from Accredited Lab.</p>	1 No.

SPECIAL NOTE:

- **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.**
- **Equipment must be quoted with all the standard accessories.**
- **UPS/Power protection for the equipment shall be incorporated in the systems, otherwise prices must be quoted separately.**
- **All the civil works will be carried-out by the Dow University of Health Sciences, Karachi with the consultation of the responsive bidder.**
- **Responsive bidder will provide the consultancy regarding the installation of the Equipment according to the GMP / WHO Standards (if applicable).**
- **All site specific work to be required in the system viz. Lead Glass/special antistatic flooring, environment control/radiation protection must be quoted separately.**
- **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.**
- **Bidder must be provided the User/Technical/Maintenance/Service manuals and Service Keys with each equipment.**

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.

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
Total Amount in Pak Rs.								

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

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

Name _____

In the capacity of _____

Signed _____

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

Date _____