



BIDDING DOCUMENT

Single Stage - Two Envelope Bidding Procedure

PROCUREMENT OF DENTAL EQUIPMENT / INSTRUMENTS / ANCILLARIES

N.I.T No: DUHS/P&D/2017/9074

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A: Instructions to Bidders. (ITB)

1. INTRODUCTION

1. GENERAL

1.1 Dow University of Health Sciences (DUHS), Karachi has allocated fund towards the cost of **“Strengthening of Faculty of Oral Health Sciences and Support Facilities at DUHS, Karachi”**. It is intended that part of the proceeds of this fund will be applied to eligible payments under the contract for the Procurement of goods.

2. ELIGIBLE BIDDERS

2.1. This Invitation for Bids is open to all original Manufacturers, within Pakistan and abroad, and their Authorized Agents / Importers / Bidders / Distributors.

2.2. Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the University to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation for Bids.

2.3. Government-owned enterprises may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the Federal Govt. or Provincial Govt.

2.4. Bidder should not be eligible to bid if they are under a declaration of ineligibility for corrupt and fraudulent practices issued by any Government organization in accordance with sub **clause 35.1**.

3. ELIGIBLE GOODS

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

2. THE BIDDING PROCEDURE

4. Single Stage - Two Envelope Procedure

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

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

3. THE BIDDING DOCUMENTS

5. CONTENTS OF BIDDING DOCUMENTS

5.1 The Bidding Documents:

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

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

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

5.3 The bidders are expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish complete

information required in the bidding documents or to submit a bid not substantially responsive to the bidding documents may result in rejection.

6. AMENDMENT OF BIDDING DOCUMENTS

- 6.1 At any time prior to the deadline for submission of bids, the Procuring Agency may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the bidding documents by amendment.
- 6.2 All prospective bidders that have received the bidding documents will be notified the amendment(s) in writing, which will be binding on them.
- 6.3 In order to allow prospective bidders reasonable time to take the amendment(s) into account in preparing their bids, the Procuring Agency may, at its discretion, extend the deadline for submission of the bids.

4. PREPARATION OF BIDS

7. LANGUAGE OF BID

- 7.1 Preparation of Bids
The bid prepared by the bidder, as well as all correspondence and documents relating to the bid exchanged by the bidder and the Procuring Agency shall be in English. Supporting documents and printed literature furnished by the bidder may be in another language provided these are accompanied by an accurate translation of the relevant passages in English, in which case for purposes of interpretation of the Bid, the translated version shall prevail.

8. DOCUMENTS COMPRISING THE BID

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

9. BID PRICES

- 9.1 The prices and discounts quoted by the Bidder in the Bid Form and in the Price Schedules shall conform to the requirements specified below.
- 9.2 All items in the Schedule of Supply must be listed and priced separately in the Price Schedules. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items. Items not listed in the Price Schedule shall be assumed not to be included in the Bid.

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

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

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

10. BID CURRENCIES

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

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

11. DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATION

11.1 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Procuring Agency's satisfaction:

- (a) that, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' Manufacturer or producer to supply the goods in the Procuring Agency's country;
- (b) that the Bidder has the financial, technical, and production capability necessary to perform the contract;
- (c) that, in the case of a Bidder not doing business within the Procuring Agency's country, the Bidder is or will be (if awarded the contract) represented by an Agent in that country equipped, and able to carry out the Bidder's maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and
- (d) that the Bidder meets the evaluation & qualification criteria of bidding document.

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

12.1 Pursuant to ITB Clause 8, the Bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services which the Bidder proposes to supply under the contract.

12.2 The documentary evidence of the eligibility of the goods and services shall consist of a statement in the Price Schedule of the country of origin of the

goods and services offered which shall be confirmed by a certificate of origin issued at the time of shipment.

- 12.3 The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings, and data, and shall consist of:
- (a) a detailed description of the essential technical and performance characteristics of the goods; and
 - (b) an item-by-item commentary on the Procuring Agency's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.
- 12.4 For purposes of the commentary to be furnished pursuant to ITB Clause 12.3(b) above, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring Agency in its Technical Specifications, are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in its bid, provided that it demonstrates to the Procuring Agency's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

13. BID SECURITY

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

14. BID VALIDITY

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

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

15. ALTERNATIVE BIDS

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

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

5. SUBMISSION OF BIDS

16. SEALING AND MARKING OF BIDS

16.1 The envelopes shall:

- (a) bear the name and address of the Bidder;
- (b) bear the specific identification Name and Number of this bidding process indicated in the Bid Data Sheet; and
- (c) bear the Procuring Agency’s name and address 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.

24.2 If a bidder fails to obtain “**minimum 20 marks**” against the criteria “**Conformity to the Purchaser's Specifications**” and **unable to provide valid manufacture Authorization**, his offer will not be considered for further evaluation and rejected.

24.3 Bidders achieving minimum 70 marks will be considered only for further process. Documentary evidence must be attached in support of your claim.

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) / Japan Quality Assurance Organization (JQAO)	15
		European Community (CE) MDD and Japan Industrial Standard (JIS) / Japan Quality Assurance Organization (JQAO)	12
		Food and Drug Administration (FDA) 510K	10
		European Community (CE) MDD	08
		Japan Industrial Standard (JIS)/Japan Quality Assurance Organization (JQAO)	08
TOTAL MARKS PRODUCT EVALUATION (A)			40

B. BIDDER EVALUATION

S#	PARAMETERS	SUB-PARAMETERS	Total Marks
3	Legal Requirement		18
		Manufacturer Authorization	10
		Bid Form (without prices)	4
		Tender Purchase Receipt	2
		Taxation Certificate (NTN and GST)	2

S#	PARAMETERS	SUB-PARAMETERS	Total Marks
4	Technical Staff		12
		Diploma Engineers (minimum two)	4
		Graduate Engineers (For High Tech / Critical equipment Graduate Engineer of relevant field is mandatory for each product) (minimum two)	6
		MSc / PhD qualification/Foreign training	2
5	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
6	Delivery		6
		4 to 6 Weeks or earlier	6
		7 to 12 Weeks or earlier	2
7	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
8	Financial Status		6
		Bank Certificate	2
		Last year verified Balance Sheet / Income Tax Return Forms	2
		Yearly turn-over of over 50 Million	2
9	Bonus points		6
		Warranty period extension free of cost (the firm offered greater period will get the marks)	2
		Comparative Running Cost (consumables / reagents / replacement parts)	2
		Post warranty maintenance contract, including service and parts, rates (companies to offer percentage (%) of the contract value in the technical bid. The lowest will get the full marks)	2
TOTAL BIDDER EVALUATION (B)			60
GRAND TOTAL (A + B)			100

24.2 Litigation History

The Bidder should not be involved in any litigation with the Procuring Agency/ Govt. Department (Provincial/Federal), else their bid will be rejected.

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 VERY 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 0.35% of the value of contract, (cost shall be borne by the bidder). In case the successful Bidder, after completion of all codal formalities, shows inability to sign the Contract, its Bid Security shall be forfeited. The firm may also be blacklisted from taking part in any future bidding of Procuring Agency for a period upto five Years. In such a situation, the Procuring Agency may make the award to the next lowest evaluated responsive bidder or move for re-bid.

34. PERFORMANCE SECURITY

- 34.1 The successful Bidder shall furnish Performance Security. Upon submission of Performance Security the Bid Security will be returned to the Bidder. The amount of Performance Security is specified at Bid Data Sheet.

- 34.2 Failure of the successful Bidder to comply with any of the requirements specified in this document shall be considered as sufficient grounds for the annulment of the award and forfeiture of the Bid Security, in which event the Procuring Agency may make the award to the next lowest evaluated Bidder at the risk and cost of the former.

35. CORRUPT OR FRAUDULENT PRACTICES

- 35.1 (a) the Procuring Agency and the Bidders / Manufacturers / Contractors are expected to observe the highest standard of ethics during the procurement and execution of the Contract. In pursuance of this policy, the relevant terms / phrases as may apply are defined below:

- (i) "corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in Contract execution; and
 - (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract to the detriment of the Procuring Agency, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non competitive levels and to deprive the Procuring Agency of the benefits of free and open competition;
- (b) the Procuring Agency will take all possible administrative / legal measures if it is found that the Bidder recommended for award was / is engaged in corrupt or fraudulent practice(s) before or after signing of the contract resulting into the conviction of the proprietor under criminal case besides blacklisting of the firm either indefinitely or for such period of time as may be determined by the Procuring Agency.
- (c) will declare a firm ineligible, either indefinitely or for a stated period of time, for the award of a Contract if it, at any time, determines that the firm has engaged in corrupt or fraudulent practices in competing for or in executing a Contract.

B: General Conditions of Contract (GCC)

1. DEFINITIONS

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

- (a) "The Contract" means the agreement entered into between the Procuring Agency and the Bidder, as recorded in the Contract Form signed by the Parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- (b) "The Contract Price" means the price payable to the Bidder under the Contract for the full and proper performance of its Contractual obligations.
- (c) "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Procuring Agency under the Contract.
- (d) "Related Services" means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance, printing of special instructions on the label and packing, design and logo of the Procuring Agency, transportation of goods up to the desired destinations and other such obligations of the Bidder covered under the Contract.
- (e) "GCC" means the General Conditions of Contract contained in this section.
- (f) "SCC" means the Special Conditions of Contract.
- (g) "The Procuring Agency" means the Dow University of Health Sciences, Karachi.
- (h) "The Bidder" means the individual or firm supplying the goods under this Contract.
- (i) "Day" means official working day excluding national holidays.

2. APPLICATION

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

3. STANDARDS

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

4. USE OF CONTRACT DOCUMENTS AND INFORMATION

- 4.1 The Bidder shall not without the Procuring Agency's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern; sample, or information furnished by or on behalf of the Procuring Agency in connection therewith, to any person other than a person employed by the Bidder in the performance of the Contract. Disclosure to such employed person shall be made in confidence and shall extend only, as far as may be necessary, to such performance and not further or otherwise.
- 4.2 Any document, other than the Contract itself, shall remain the property of the Procuring Agency and shall be returned (all copies) on completion of the Bidder's performance under the Contract.
- 4.3 The Bidder shall permit the Procuring Agency to inspect the Bidder's accounts and records relating to the performance of the Supplies.

5. PATENT RIGHTS

- 5.1 The Bidder shall indemnify the Procuring Agency against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the country.

6. ENSURING STORAGE ARRANGEMENTS

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

7. INSPECTIONS, TESTS AND TRAINING

- 7.1 The Procuring Agency or its representative shall have the right to inspect and/or test the goods to confirm their conformity to the Contract specifications at the cost payable by the Bidder.
- 7.2 The Procuring Agency's right to inspect, test and, where necessary, reject the goods either at Bidder's premises or upon arrival at Procuring Agency's destinations shall in no way be limited or waived by reasons of the goods having previously been inspected, tested, and approved by the Procuring

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

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

8. DELIVERY AND DOCUMENTS

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

9. INSURANCE

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

10. TRANSPORTATION

- 10.1 The Bidder shall arrange such transportation of the goods as is required to prevent them from damage or deterioration during transit to their final destination as indicated in the Schedule of Requirements.
- 10.2 The goods shall be supplied on "**D.D.P**" basis at the Dow University of Health Sciences, Karachi AND / OR "**CFR / C&F**" Basis at Karachi Port as per Schedule of Requirements on the risk and cost of the Bidder. Transportation including loading/unloading of goods shall be the responsibility of Bidder.

11. INCIDENTAL SERVICES

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

12. WARRANTY / GUARANTEE

- 12.1 The term period of warranty / guarantee mean the period of twelve (**12**) **months** form the date on which the Stores have been put into operation and demonstrated to the University staff. In any case this period shall not exceed eighteen (18) months from the date of taking-over certificate.
- 12.2 During the period of warranty / guarantee, the Contractor shall remedy, at his / her expense, all defects in design, materials, and workmanship that may develop or are revealed under normal use of the goods upon receiving written notice from the University; the notice shall indicate in what respect the goods are faulty.

- 12.3 The provisions of this Clause include all the expenses that the Contractor may have to incur for delivery and installation of such replacement parts, material and equipment as are needed for satisfactory operation of the goods at the University premises.
- 12.4 The contractor shall provide warranty / guarantee for supply of kits and chemicals, consumables, films etc. for at least 05 years (where applicable).
- 12.5 The contractor shall remain responsible for providing after sale services even after expiry of warranty / guarantee period and sign a Service Contract including Parts with Procuring Agency for 05 years (minimum). **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 Karachi - Pakistan shall have exclusive jurisdiction.

C: NOTICE INVITING TENDER (NIT)

No. DUHS/P&D/2017/9074, Dated 04 December 2017

Bids are invited under sealed cover for the **PROCUREMENT OF DENTAL EQUIPMENT / INSTRUMENTS / ANCILLARIES** on DDP / C&F basis from authorized Dealers / Distributors / Manufacturers, having registration with Federal Board of Revenue (FBR) for Income Tax and Sales Tax.

Tender Fee	Rs. 2,000/- (Rupees two thousand only) Non-Refundable in shape of Pay Order / Demand Draft in favor of Dow University of Health Sciences, Karachi
Bidding Procedure	Single Stage – Two Envelope
Bid Security	2% of the total bid value.
Purchasing Date & Time	08 December 2017 to 03 January 2018
Bids Delivery Date & Time	04 January 2018 at 11:00 a.m.
Bid Opening Date & Time	04 January 2017 at 11:30 a.m. In case of any unforeseen situation or government holiday resulting in closure of office on the date of opening, bids shall be submitted / opened on next working day at the given time.

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

Conditional Bids, Telegraphic Bids, Bids not accompanied by Bid Security of required amount and form, bids received after specific date and time and bids of Black Listed firms will be rejected.

The Dow University of Health Sciences, Karachi (DUHS) reserves the right to reject any or all the bids subject to the relevant provisions of SPP Rules 2010 (Amended 2013).

PROJECT DIRECTOR

PLANNING & DEVELOPMENT DEPARTMENT
DOW UNIVERSITY OF HEALTH SCIENCES
THIRD FLOOR, ADMIN BLOCK
BABA-E-URDU ROAD, NEAR CIVIL HOSPITAL, KARACHI
PHONE NO +92-21-99215754-7 (EXT. 5604 / 5142)
DIRECT NO: +92-21-99216065

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 Dental Equipment / Instruments / Ancillaries.

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 DENTAL EQUIPMENT / INSTRUMENTS / ANCILLARIES (No: DUHS/P&D/2017/9074 Dated: 04 December 2017)

ITB 16.1 (c) Dow University of Health Sciences, Planning & Development Department, Admin Block, Third Floor, 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: 04 January 2018 at 11:00 a.m.

OPENING & EVALUATION OF BIDS

ITB 20.1 The bid opening shall take place at:
Dow University of Health Sciences, Planning & Development Department, Admin Block, Third Floor, Baba-e-Urdu Road, Near Civil Hospital, Karachi.

Date: 04 January 2018

Time: **11:30 a.m.**

CONTRACT AWARD

ITB 31.1 Qty. could be increased or decreased during the contract period (including extended period) according to the actual requirement.

ITB 34.1 The successful Bidder shall furnish the Performance Security equivalent to 5% of the total Contract amount from any scheduled banks in shape of Pay Order / Demand Draft / Call Deposit / Bank Guarantee. The Performance Guarantee/Security Form is provided in the bidding documents. Upon submission of Performance Security / Guarantee the Bid Security would be returned to the Bidder.

E: SPECIAL CONDITIONS OF CONTRACT (SCC)

1. DEFINITIONS (GCC CLAUSE 1)

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

GCC 1.1 (h) The Bidder is: _____
(Name and address of the successful bidder)

2. BID SECURITY (ITB CLAUSE 13)

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

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

GCC 7.1, 7.2 & 7.3 The goods received in the Dow University of Health Services, Karachi from the Bidder will be thoroughly inspected and 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.

OR

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

- (a) The Procuring Agency shall pay the Bidder or its Principal through irrevocable letter of credit opened in favor of the Bidder or Its Principal in a bank in its country, upon submission of all the requisite documents.
- (b) Bidder will bear all the additional bank charges inside and outside the Procuring Agency country on account of Confirmation of L/C, if he desire to establish a Confirmed L/C etc.

OR

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

- (a) The Procuring Agency shall pay the Bidder or its Principal through **3 years deferred payment** by irrevocable letter of credit opened in favor of the Bidder or Its Principal in a bank in its country, upon submission of all the requisite documents.

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

8. PENALTIES/ LIQUIDATED DAMAGES (GCC CLAUSE 16)

GCC 16.1 In case deliveries are not completed within the time frame specified in the schedule of requirements / contract, a Show Cause Notice will be served on the Bidder which will be following by cancellation of the Contract to the extent of non-delivered portion of installments. No supplies will be accepted and the amount of Performance Guarantee / Security to the extent of non-delivered portion of supplies of relevant installments will be forfeited. If the firm fails to supply the whole installments, the entire amount of Performance Guarantee/Security will be forfeited to the Government Account and the firm will be blacklisted at least for two years for future participation in bids:

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

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

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

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

10. PACKING (GCC CLAUSE 21)

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

12. GOVERNING LANGUAGE (GCC CLAUSE 22)

GCC 22.1 The language of this Contract shall be English.

11. APPLICABLE LAWS (GCC CLAUSE 23)

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

12. NOTICES

Procuring Agency's address for notice purposes:

PROJECT DIRECTOR
PLANNING & DEVELOPMENT DEPARTMENT
DOW UNIVERSITY OF HEALTH SCIENCES
THIRD FLOOR, ADMIN BLOCK
BABA-E-URDU ROAD, NEAR CIVIL HOSPITAL, KARACHI
PHONE NO +92-21-99215754-7 (EXT. 5604 / 5142)
DIRECT NO: +92-21-99216065

Bidder's address for notice purposes:

Name of Bidder: _____

Name of Contact Person & Designation: _____

Phone No. _____

Fax No. _____

Mobile Phone No. _____

Email Address _____

F: SCHEDULE OF REQUIREMENTS

1. SCHEDULE OF REQUIREMENTS

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

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

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

- i. The shipment of the items of Stores which are to be imported shall be started as early as possible (**preferable within 45 days**); the shipment schedule shall be submitted along with the offer, and shall be negotiable and subject to approval by the University.
- ii. The bidder must indicate in his offer the port **from where** the Stores will be **shipped**.
- iii. The delivery period shall start from the date of opening of letter of credit.

G: Technical Specifications

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
1.	<p>DENTAL UNIT Doctor's Unit Flexible swing over-patient well balanced arm for easy positioning. Large size, instrument tray. Main ON/OFF control with indicator Push Control Switches with LED Indicator, Indicator for X-ray illuminator, Auto Cup filler. 3-way syringe 3-Tubing & Fitting for Instruments with built in filter X-Ray Illuminator. Individual Water & Air pressure controls Rectangular HP pressure indicator. Auto Select System Cuspidor Unit Streamline Housing for easy cleaning. One piece spittoon with solid collector Bowl Flush & Cup filler Automatic Time Cycle Control. 90° rotateable for Assistant's easy access to patient. Push button control with led indicator for cup filler Automatic cup filler adjustable time cycle control. Bowl Flush adjustable time, cycle control. 3-way syringe straight Saliva Ejector (Water Venturi) High Volume evacuator with solid collector and Debris Strainer/ Filter Easy Clean and reusable Junction (Utility) Box with Air. Water inlets with filters. Service water outlet. Separate Electrical compartment. Voltage input 240/220/110V, 50/60Hz. Output voltage 24 V-AC.</p> <p>Dental Chair Hydraulic Dental chair Synchronized seat tilting with backrest movement. Back Rest movement synchronizes human anatomy, so no patient sliding or discomfort while changing from sitting to operating or operating to sitting position. Anatomical contoured seamless upholstery Upholstery color selection Swing out Arm rest. Fully Articulating Headrest for forward, backward and upward movement. One Hand Control without teeth and Gear locks at any desired position. Two pre-set positions</p>	100 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	<p>Pre-set positions programmable by user. One Touch pre-set position One Touch gargling position One touch Zero return. Motor Pump capacity 8L/M (silent.) Hydraulic Fluid capacity 1000ml approx. Solenoidal valve assembly Dental Light The Dental Light is compact, well balanced and easy to move to any position. Excellent light focusing pattern for patient convenience. Day light, shadowless and heatless light for optimal results. Dental light is very easy to keep hygienically clean. Light output 28000/18000 Lux. Colour Temperature 4500 K \pm 10%. Light pattern 240 x 90mm at 725mm. Focal distance 725mm. Bulb 12V, 55W. Input 240/220/110V, 50/60Hz. Output 12 V and 10.5 V Safety Features Electric 12V Limit switches to cut off Auto/manual movements at maximum/minimum positions. Automatic safety oil drain to reservoir system in case of excessive pressure in cylinder. No chair movement when any hand piece in use. All Chair controls operate on 24V, AC. Push of any Manual/Unit foot switch override the automatic movements and stops chair immediately. Input: AC-240/220/110V, 50/60 Hz. Foot control chair movements Origin: UK /USA/ JAPAN/EUROPE/PAKISTAN</p>	
2.	<p>DENTAL STOOLS Doctor Stool with back supported, Special angle Seat and back rest position Adjustable height, Gas spring operated. Moveable Strong long life 5 casters. Origin: UK /USA/ JAPAN/EUROPE/PAKISTAN</p>	120 Nos.
3.	<p>ASSISTANT STOOL Separately rotatable arms and seat 360° to position anywhere. Adjustable height GAS Spring. Moveable on 5 strong casters Origin: UK /USA/ JAPAN/EUROPE/PAKISTAN</p>	100 Nos.
4.	<p>CENTRAL COMPRESSORS FOR DENTAL UNITS Oil free, dust free, 99.9% moisture free, rust free, odor free near medical grade clean air, Extendable system according to no. of units installed.</p>	10 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	<p>Multi motors x 3 cylinder Special internal rust proof quoting of tank 300 Liters. Double layer welded vertical mounted on tripod stand. Compressor motor system installed and fitted on separate adds on shelf type structure and attached with flexible pipes to avoid vibration. Non return valve after every compressor motor for isolation. Safety valve. Filter regulator assembly at delivery nozzle to give constant pressure. Control panel having facilities to switch on/off any compressor motor with over load and thermal protector and hour meter for each motor. Working pressure: 5.0 bars to 8.0 bars, Noise Level; 65db, Main supply 440V. 50hz. 3Ø . Complete set. Origin: UK /USA/ JAPAN/EUROPE/PAKISTAN</p>	
5.	<p>DRY AIR SUCTION Set of Motors Independent Automatic Stand by system with Alternative motors selectable, suction with auto switching and non-return valve. The number of machines will start and stop according to the demand of total suction required as per automatic system installed. In case of minor requirement one machine start only with a bye-pass air valve will regulate the suction pressure required. Complete with control panel having facility to switch ON/OFF any motor with over load and thermal protector and hour meter for each motor. Main supply 440V. 50HZ, 3Ø. Origin: UK /USA/ JAPAN/EUROPE/PAKISTAN</p>	15 Nos.
6.	<p>PHANTOM HEAD (COMPLETE) -High grade simulator with various occlusal and jaw TYPE II movement functions. -For advanced pre-clinical students should be -Face-bow training is possible -Easy-to-use magnet change system Consisting of:- HEAD articulator Mask with water drain Jaw with teeth upper and lower System compatible with electric suction DENTAL LIGHT: Day light, shadow less, heatless and sharp Rectangular slit, ideal for dentistry as well Patient comfort. Compact dental light, well balanced and easy to move to any position. Excellent light focusing pattern for patient Convenience. Dental light is easy to keep hygienically clean. Light output 25000/15000 Lux dual intensity. Colour Temperature 4500K/+ 5% -Phantom Head Simulation System Upper and lower jaw model, 32 teeth type, Soft rubber gingivae, screw in teeth, complete, Rubber adult mask for manikin with drain Collection</p>	20 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	system. Articulating head with desk clamp Origin: UK /USA/ JAPAN/EUROPE/PAKISTAN	
7.	<p>COMPRESSORS FOR PHANTOM HEAD LAB. 2 motors x 3 cylinder suitable for 25 Phantom Head Oil free, dust free, Odor free air Special internal rust proof quoting of tank 300 Liters. Double layer welded vertical mounted on tripod stand. Compressor motor system installed and fitted on separate add on shelf type structure and attached with flexible pipes to avoid vibration. Non return valve after every compressor motor for isolation. Safety valve. Filter regulator assembly at delivery nozzle to give constant pressure. Control panel having facilities to switch on/off any compressor motor with over load and thermal protector and hour meter for each motor. Working pressure: 5.0 bars to 8.0 bars Main supply 440V. 50HZ, 3Ø Complete set.(without drier) Origin: UK /USA/ JAPAN/EUROPE/PAKISTAN</p>	02 Nos.
8.	<p>DENTAL INTRA-ORAL X-RAY MACHINE Mobile type. DC quipped with an X-ray tube (intensity from 4 to 8 mA) producing a constant voltage of 60 kV or 70 kV. Working at high frequencies, at a constant electric potential, allowing the emission of high quality X-rays, in any conditions. TECHNICAL DATA: Frequency : 50Hz Anodic voltage : 60 kV – 70kV Anodic current : 4 mA – 8 mA Focal spot : 0.7mm or less Total filtration: 2 mm Al eq at 70 kV Duty cycle : 1 s : 32s Timer : Auto Exposure Control X-ray emission : exposure button “dead man” type Origin: UK /USA/ JAPAN/EUROPE</p>	4 Nos.
9.	<p>ULTRASONIC SCALAR Built in Type, Autoclave able 134°C detachable Hand piece Compact and Versatile offers three power modes selectable to the tip connected to the hand-piece; Perio, Endo, General Mode. KEY FEATURES: Powered by Piezo engine - Power Supply : AC 220/240V 50Hz - Frequency : 28-32 KHz - Control unit with handpiece cord - AC adaptor - Hand-piece</p>	20 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	5 or more tips for scaling, Endo Perio - Tip wrench with torque limiter Origin: UK /USA/ JAPAN/EUROPE	
10.	ELECTRIC PULP TESTER Designed for optimal ergonomics and easy handling. Automatic one-button operation. Continuous Stepless increase of power Unit comes with 4 autoclavable probe tips. Runs on easily replaceable 9-V alkaline battery. Origin: UK /USA/ JAPAN/EUROPE	3 Nos.
11.	COMPOSITE LIGHT CURE UNIT LED TYPE Light meter attached. <ul style="list-style-type: none"> • The battery can be replaced. • OLED screen. All angles visible. • Automatic memory. Avoid setting frequently. • Efficient transfer from electricity into light. A full charge can be used for more than 400 times continuously under 10s working time mode. Technical Features: Light source: 5 Watt LED Battery capacity: 400 cycles, 10 sec. each Wavelength range: 420 nm - 480 nm Light intensity: 850 -1000 mW/cm ² or above Recharging time: 90 minutes Time setting: 5, 10, 15, 20 sec. Battery: Lithium-ion battery (no memory effect) Fiberglass light guide: Ø 8 mm, can be sterilized at 135°C Origin: UK /USA/ JAPAN/EUROPE	15 Nos.
12.	HIGH SPEED HAND PIECE Borden Type PUSH Button Chuck System 400,000 rpm Origin: UK /USA/ JAPAN/EUROPE	50 Nos.
13.	SLOW SPEED AIR MOTOR Facility to rotate the bur Clockwise and anti-clockwise External water spray Max. Speed: up to 25.000 rpm Borden 2(3) hole connection <ol style="list-style-type: none"> a) Straight Hand Piece Twist tension chucking system, for hand-piece and contra-angle burs b) Contra angle hand piece 1:1 Direct Drive, for C Push-button chucking system, Origin: USA/ JAPAN/EUROPE	50 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
14.	<p>SAND BLASTING MACHINE Double-container micro-sandblasting system. Pre-fitted for connection to an aspirator complete with different Size nozzle Main features: 2 aluminum containers anti-moisture system use abrasive 25/250 microns precise sandblasting reliable construction small dimensions Origin: UK /USA/ JAPAN/EUROPE</p>	2 Nos.
15.	<p>DENTAL LATHE 2 Speeds 1400-2800 Rpm, 500 Watt Speed: 1.400/2.800 RPM. Power: 500 Watt Origin: UK /USA/ JAPAN/EUROPE</p>	5 Nos.
16.	<p>LABORATORY MICROSCOPES. BINOCULAR MICROSCOPE Eye piece: with diaptor ring, pair of 10x magnification wide field focusable, Adjustable Interpupillary distance, Eye point height adjustment full rotation 360° Nose Piece: Revolving, Quadruple, Objective: Antifungal coated, Spring loaded, Plan achromat, 4x, 10x, 40x, 100xS (Oil immersion) Stage: Graduated Mechanical stage with specimen holder clip Focusing: Coaxial Coarse focusing, fine focusing control on both sides, Focus Lock Condenser: Abbe type, Aperture iris diaphragm, vertical/ Horizontal adjustable, Bright-field Power source: LED, Light intensity adjustable Optical system: Should be infinity Optical System Illumination system: Built in transmitted LED illumination system, Origin: UK /USA/ JAPAN/EUROPE</p>	20 Nos.
17.	<p>AUTOCLAVE (B-TYPE) Capacity 24 liter Long service intervals and internal components protected by Water separation system Dust filter Water quality sensor. Chamber size: 24 Liter Power supply: 200 – 240 Vac; 50 / 60 Hz; integrated automatic water filling connection Sterilization cycle B- with Complete drying Test cycles Helix / Bowie Dick / Vacuum test with reversible rack, 5 aluminum trays, drain tube, tray holder, door opening tool, factory test Origin: UK /USA/ JAPAN/EUROPE</p>	10 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
18.	DENTAL LABORATORY ENGINES (HANGING TYPE) Speed: 25,000 rpm Complete with electronic rheostat, flexible shaft Laboratory Hand-piece and bench type support Origin: UK /USA/ JAPAN/EUROPE	20 Nos.
19.	MICRO MOTOR Minimum Speed: 500 rpm, Maximum Speed: 60000 rpm, Blow Out Function, Automated Modes: speed control Soft Start/Quick Stop. Brushless motor with Hand piece Origin: UK /USA/ JAPAN/EUROPE	5 Nos.
20.	DIE SAW Diamond blade disc saw for model stump technique. Constant torque, D.C. motor, 6000 rpm., powered through transformer. Two-hands safety protection. Built-in suction with filter. Ball-joint model holder with magnetic locker. High quality diamond blade. Saw laser: same as Saw but equipped with high precision laser beam showing the exact cutting line. Rpm 6.000 constant couple Origin: UK /USA/ JAPAN/EUROPE	2 Nos.
21.	CURING TANK FOR ACRYLIC BASED PROSTHESIS Chamber width (cm) 26 Chamber depth (cm) 31 Chamber useful height (cm) 26 (capacity to run long, medium and short curing cycles) Origin: UK /USA/ JAPAN/EUROPE	10 Nos.
22.	ELECTRIC SOLDERING MACHINE. Capacity to solder base metals, precious and non-precious alloys. Best quality. Origin: UK /USA/ JAPAN/EUROPE	3 Nos.
23.	DRY LASER PRINTER FOR X-RAY OPG Recording method Laser exposure thermal development system Applicable film Medical Dry Imaging Film DI-HL DI-HL (blue base) 35 × 43 cm (14" × 17") 35 × 35 cm (14" × 14") 26 × 36 cm (10" × 14") 25 × 30 cm (10" × 12") 20 × 25 cm (8" × 10") DI-ML (blue base) 26 × 36 cm (10" × 14") 25 × 30 cm (10" × 12") 20 × 25 cm (8" × 10") Film loading: Daylight film loading	2 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	Film Tray: 2 trays (5 sizes of film are available by changing film trays) Processing capacity: Approx. 80 sheets/hour 35 × 43 cm (14" × 17") Pixel size: 50 µm (508 dpi)/100 µm (254 dpi) Recording gradation 14 bits Image memory: 1 GB Density adjustment: Automatic Input channels: DICOM network input × 1 channel only Origin: UK /USA/ JAPAN/EUROPE	
24.	DENTAL SURVEYOR UNIT COMPLETE Surveyor with one swivel arm and central articulated joint. Surveyor(simple) Surveyor with one swivel arm and central articulated joint. Model holder FIXIT. 1 Wax Chisel. 1 scanning needle probe. 1 carbon marker holder. 3 undercut gauges. 1 Ø 3 mm collet. 1 Ø 2.5 mm collet. Origin: UK /USA/ JAPAN/EUROPE	2 Nos.
25.	DEWAXING TANK Width (cm) 20,5 Depth (cm) 41 Height (cm) 22 Maximum electrical input (A) 3,6 Power (kW) 0.83 Maximum temperature (°C) 90 Power supply (V/Hz) 230/50 Origin: UK /USA/ JAPAN/EUROPE	10 Nos.
26.	MEDICAL CENTRIFUGE Type: Medical plasma centrifuge RPM 3,600 Capacity: 8 units (10ml test tubes) Applications: Preparation of Concentrated Growth Factor (CGF) Indications: Tissue and bone regeneration for implant-ology and oral surgery Processing Time 12 minutes Power Source: 230V +/- 10% 50/60 Hz Noise Level: Don't exceed 57 dB(A) Origin: UK /USA/ JAPAN/EUROPE	2 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
27.	<p>SEMI ADJUSTABLE ARTICULATOR The Mounting System interchanging mounted casts between articulators.</p> <ul style="list-style-type: none"> • Interframe spacing of over 4 inches allowing easy mounting of even the bulkiest casts • Rounded edges and frame corners for enhanced visibility and posterior access • Bilateral elastics provide optimum feel during excursive movements and can be easily detached to remove the upper frame • Quick-acting centric lock allows easy return of the articulator to centric position and simple hinge movement • Upper frame which can easily be set at an open position for convenience during laboratory procedures • Condylar guidance featuring: <ul style="list-style-type: none"> • Adjustable condylar inclination with curved eminentia • Immediate side shift • Fixed intercondylar distance of 110 mm • Adjustments: protrusive angle: 0-60°; immediate side shift: 0-4mm; progressive side shift: 5-15° • Removable upper member • Retaining springs hold members together without being locked in centric • Positive centric latch • 110mm intercondylar distance • Rear wall posterior inclination of 25° • Straight top wall • Comes complete with: 10 disposable mounting plates, and carrying case • Lingual access is unobstructed. You'll appreciate its enhanced view when positioning tooth-to-tooth contacts on models and final prostheses. • Closed tracking fossa and fixed upper member are ideal for fabricating prosthetic appliances. <p>Articulator Features:</p> <ul style="list-style-type: none"> • Progressive side shift: 0-30° • Protrusive angle: -20-+60° • Comes complete with: orbitale indicator, dual-end incisal pin, 10 disposable mounting plates, instruction manual and carrying case <p>Origin: UK /USA/ JAPAN/EUROPE</p>	2 Nos.
28.	<p>FACEBOW Direct mounting: facebow transfers directly to the articulator for mounting Compatible to all articulators Comes complete with: direct facebow, fork Origin: UK /USA/ JAPAN/EUROPE</p>	1 No.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
29.	X RAY ILLUMINATOR 10cm thickness Luxury X-ray illuminator, medical film viewer, super thin type MST-P double Union Standard type Origin: UK /USA/ JAPAN/EUROPE/PAKISTAN	15 Nos.
30.	MODEL TRIMMER Quality crafted, easy-to-use model trimmers provide excellent cutting action to produce consistently attractive casts. 12" model features a fully adjustable work table with angle ranges from 85 degrees to 120 degrees from the grinding wheel surface. A hinged front cover, held by a single wing nut, allows easy access to change or reverse the abrasive wheel. A full radius water supply provides effective abrasive surface cleaning, while removable clean-out plugs provide access for general cleaning. Unit measures 16" wide x 17" high x 15" deep and comes with a coarse abrasive wheel (40.5 cm x 43 cm x 38 cm) Origin: UK /USA/ JAPAN/EUROPE	15 Nos.
31	DIGITAL WAX CARVING PENCIL (SINGLE) The Digital Wax Carving Pencil to carve and mold a variety of waxes used in the dental industry. The variety of carving tips and easy temperature control allow for precise waxing work. <ul style="list-style-type: none"> • Easy to use. • Excellent heat conductivity. • Long service life. • Easy-to-use, visible control buttons. • Accurate temperature maintenance with reset function. • Built-in digital CPU circuit accurately maintains desired temperature. • Digitally displays temperature in either Celsius or Fahrenheit. • Previous working temperature is kept in memory, even if the unit has been turned off. • Usable with AC100-240V without additional adjustment. • Silicon handle reduces hand fatigue. • Translucent compartment in rear of unit for easy storage of carving tips. • Comes with 2 waxing tips (Offset Explorer & PKT 2) Origin: UK /USA/ JAPAN/EUROPE	4 Nos.
32.	DENTAL 3D CT SCAN Digital Panoramic and Cephalometric with Multivolume 3D System Capable of Taking Digital Impression from Plaster Cast / Silicone Impression in STL Format 8cm x 8cm OPG Modes <ol style="list-style-type: none"> a. Standard Panoramic b. Pediatric Panoramic c. Segmented Panoramic d. Lateral TMJ (2 or 4 Views) e. Maxillary Sinus View f. Segmented Bite Wing 	1 No.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	<p>Wider Focal Trough for Increased Tolerance to imperfect positioning Fast Scanning Mode</p> <p>e. Carpus View</p> <p>3 Ortho Filters in Software</p> <p>Dedicated and Fixed Sensor for Cephalometric Imaging</p> <p>Auto Ceph Analysis with Un- Limited Installations</p> <p>Multi Installation for 3D Software with Nerve Tracing and Implant Planing</p> <p>Voxel Size - 76 Micron or better</p> <p>Face to Face Patient Positioning for better Patinet Complainece</p> <p>Access for Patient on Wheel Chair</p> <p>Universal Software for all Radiographic and Diagnostic Equipments</p> <p>One Data Base for all Patinet Images including</p> <p>Unlimited Software Liscences</p> <p>Tube Voltage - 60-to 90 Kv</p> <p>Tube Current 2-15 mA</p> <p>Tube Focal Spot (IEC 60336) - 0.7 mm (0.03 in.)</p> <p>Input voltage (AC) - 100-240 V - 50/60 Hz</p> <p>Sensor technology - CMOS</p> <p>Gray scale - 32 bits</p> <p>Exposure Mode</p> <p>a. 4 Patinet Sizes (Child, Small Adult, Medium Adult, Large Adult)</p> <p>b. 3 Dental Arch Morphologies (Normal, Square, Sharp)</p> <p>Origin: UK /USA/ JAPAN/EUROPE</p>	
33.	<p>DENTAL LOUPE</p> <p>Magnification 2.5x</p> <p>Working Distance 300 mm</p> <p>Optics Featuring a Galilean design</p> <p>Carriers - Titanium eyeglass frame</p> <p>Sizes: S, M, L with elastic headband and soft nose bridge</p> <ul style="list-style-type: none"> - Sports frame with elastic headband and soft nosepiece - Sports frame featuring laser protection and eyepiece protection, with elastic headband and soft nosepiece <p>Lens protection device Shields the objective lens against splashes and particles</p> <p>Features high-quality, scratch-proof anti-reflective coating</p> <p>Contact guard Sterilizable to reliably swing loupes up and down</p> <p>Side shields for Smart Side protection against splashes and particles</p> <p>Soft case High-quality, shock-proof protection for your medical loupes and accessories</p> <p>Origin: UK /USA/ JAPAN/EUROPE</p>	5 Nos.
34.	<p>LED LIGHT SOURCE FOR DENTAL LOUPE</p> <p>Bulb housing Powerful LED light source with integrated temperature control.</p> <p>Control unit With 3-step intensity control, charge level indicator and belt clip</p>	5 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	Adapter for loupes Cable clip To connect the lamp cable to the carrier Soft case High-quality, shock-proof protection for your light source and accessories Orange filter (for dental application) Swing-in orange filter to prevents premature curing of composite materials Light intensity Up to 50,000 Lux (at distance of 300 mm) Typical color temperature Resembles daylight (approx. 5,700 Kelvin) 2 batteries 2 medical grade lithium-ion smart batteries for fast charging Battery charger Processor controlled with country-specific power adaptor Battery run time (with one battery) Around 4 hours at 100% light intensity and 6.5 hours at 33% light intensity Battery charge time 2–3 hours Standard package Optics Featuring a Kepler design Titanium eyeglass frame Sizes: S, M, L with elastic headband and soft nose bridge Headband, which can be adjusted to wearer’s head Lens protection device Protects against splashes and particles with anti-reflective coating Contact guard Sterilizable to reliably swing loupes up and down Side shields for Side protection against splashes and particles Soft case High-quality, shock-proof protection for medical loupes and accessories Origin: UK /USA/ JAPAN/EUROPE	
35.	SOFT TISSUE DIODE LASER FOR DENTISTRY DUAL LASER <ul style="list-style-type: none"> • DIODE LASER 980nm 10W • 635nm 200Mw APPLICATION: <ol style="list-style-type: none"> 1. Endodontics 2. Periodontology 3. Microsurgery, Implantology, Prosthodontics 4. Bio stimulation 5. Photo active 6. WHITENING PACKAGE (Wavelength 980 nm) FEATURES:- <ul style="list-style-type: none"> • Handy Grip • Multi-functional Hand Pieces • Touch Screen Interface • Up to 1000 Therapies and patient Data base 	2 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	<p>INCLUDING:-</p> <ul style="list-style-type: none"> • Hand piece for Endo, perio and surgical • Optical fiber in silicon jacket 250cm length,(200um) • Needle tip 0o • Needle tip 45o • Needle tip 90o • Diamond Knife • Safety glasses for doctor (λ 980nm) • Safety glasses for patient(λ 635nm and 980nm) • SMART KEY- USB key with manual and personal patient database • Foot switch • Interlock • Power Cable • AC adapter • Accessory case for hand pieces, tips & optical fibers. • Transportation case • Warning Labels <p>BIO</p> <ul style="list-style-type: none"> • Bio stimulation adapter • Therapeutic tip for bio stimulation (lenticular) 14mm • Therapeutic tip for bio stimulation (fiber) 8mm diameter • Therapeutic tip for bio stimulation (fiber) 2mm diameter • Safety glasses for doctor (λ 635nm) <p>PAD</p> <ul style="list-style-type: none"> • Photoactive disinfection adapter tip • Photoactive disinfection tip – Perio • Photoactive disinfection tip – Endo • Photoactive disinfection tip – Bio • Tolonium cholorida blue, for PAD – soft tissue gel (perio) -1ml • Tolonium cholorida blue, for PAD – endodontics fluid (endo)- 0,6ml <p>WHITENING PACKAGE (Wavelength 980 nm)</p> <ul style="list-style-type: none"> • Therapeutic hand piece with fiber optic cable • 200μm diameter with SMA 905 connector on both sides • Whitening tip <p>02. Work Station (Mobile Trolley) Flexible Arm Drawer for Accessories 4 Wheels Castor for smooth movement Complete Imported Set. Origin: UK /USA/ JAPAN/EUROPE</p>	
36.	<p>PORCELAIN FURNACE</p> <ul style="list-style-type: none"> • Stores up to 50 firing programs you can customize for any type of porcelain • Two-point calibration ensures firing accuracy for low- and high-fusing porcelains • Special design ensures smooth lift operation — work pieces won't 	02 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	<p>slump or vibrate off the lift</p> <ul style="list-style-type: none"> • Fast-cool cycle uses vacuum to cool the muffle, reducing down time between firing cycles • Large elevated cooling tray allows for easy staging of work and quickly cools just fired restorations • Customize the program end tune to distinguish this furnace from others in the lab <p>Technical Specifications POWER CONSUMPTION Furnace Alone: 850W Furnace and Pump: 1,100W Maximum UNIT DIMENSIONS 13.5" W x 13.5"D x 20.5"H TEMPERATURE 1,200 degrees C Maximum MUFFLE WINDINGS Spiral-Wound Quartz Tubing Origin: UK /USA/ JAPAN/EUROPE</p>	
37.	<p>PRESSING PROCELAIN FURNACE Advanced cycles, sintered alloys and advanced porcelain products. Porcelain Furnaces with a Vacuum Pump. Features:</p> <ul style="list-style-type: none"> • 200 Program Memory Expanded memory and faster logic board allows the user to use a multitude of porcelains • Quick-Cool Jet cools the muffle twice as fast • New graph-based application that enables user to create, modify, print and transfer programs to furnaces straight from their PC. • USB Port transfer programs and upgrades with a standard Flash Drive, (1) 1GB included. • Larger Easy Read LCD Screen provides four lines of 20 characters • Membrane Keys for keypad durability and less wear • Detent Knob with Built-In Select Switch allows for faster and more convenient programming • Improved Muffle More insulation than previous Pro Series to save energy and costs. Rated to 2200° F • Upgraded Thermocouple for unsurpassed accuracy • can accommodate 100 & 200 gram rings for more flexibility <p>Technical Specifications Power Consumption 1200W - Furnace Alone 1400W - With Pump Power Supply 120 VAC ± 10% 50/60 Hz Muffle Windings Quartz Tubing Muffle Chamber 3 ¾" W x 2 ½" H x 3 ¾" D Maximum Temperature 2200°F Origin: UK /USA/ JAPAN/EUROPE</p>	01 No.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
38	<p>SINTERING FURNACE</p> <ul style="list-style-type: none"> • Working temperature: 1550°C (2822°F) • 30 user-programable programs with up to 4 stages • Thermal Web Technology reflects infrared heat for more even heating • Delay start time up to 8 hours • Up to 3 uniquely designed, lidded sintering trays can be stacked • Up to 60 units sintered at a time <p>Technical Specifications Heating Chamber Dimensions 6.0" W x 8.36" D x 6.0" H (15.24 cm x 21.25 cm x 15.24 cm) (4.93 Liter) Maximum Temperature 1550°C (2822°F) DELAY START 0 – 4.0 hours Number of Programs: 30 Number of Stages/Program: 1-4, User defined HEAT RATE: 1 – 104°F/min. (1 – 40°C/min.) HVAC Load: 31,320 BTU/Hour HOLD TIME: 0 – 4 hours on each stage Electrical Power Requirements: 208-230V 50/60Hz Single Phase Origin: UK /USA/ JAPAN/EUROPE</p>	01 No.
39.	<p>CASTING FURNACE</p> <p>Continuous-reading control and stabilization of the temperature in the range from 800 to 2000° C. Casting of all precious and non-precious metals except Titanium. Equipped with motor acceleration regulator to control the metal flow to the ring. Built-in cooling system. Use of crucibles in ceramic, coated ceramic, graphite or sintered graphite. Should be with temp. control.</p> <p>Standard accessories: 4 ring holders, 4 rings of stainless steel , 1 universal rubbersprue former 1 crucible per type, 5 ceramic stirring rod, 1 pair of safety goggles. Technical Specification Max. casting capacity: 5 cc precious - 15 cc non precious Casting time : 30 gr Cr-Co 60" Max. Consumption : 4,2 Kw Power supply - 220V 50Hz Origin: UK /USA/ JAPAN/EUROPE</p>	1 No.
40.	<p>SEMI-ADJUSTABLE ARTICULATOR</p> <ul style="list-style-type: none"> • Lingual access is unobstructed. With enhanced view when positioning tooth-to-tooth contacts on models and final prostheses. • Closed tracking fossa and fixed upper member are ideal for fabricating prosthetic appliances. 	1 No.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	<ul style="list-style-type: none"> • Progressive side shift: 0-30° • Protrusive angle: -20-+60° • Comes complete with: orbitale indicator, dual-end incisal pin, 10 disposable mounting plates, instruction manual and carrying case • Maxillo Facial Articulator with Additional 25mm (1") Vertical Height Features: <ul style="list-style-type: none"> • Progressive side shift: 0-30° • Protrusive angle: -20-+60° • Comes complete with: orbitale indicator, dual-end incisal pin, 2 pairs of metal mounting plates and instruction manual <p>Origin: UK /USA/ JAPAN/EUROPE</p>	
41.	<p>SEMI-ADJUSTABLE ARTICULATOR</p> <p>Condylar guidance should associated with the lower member, which simulates the multiple functions of the Glenoid Fossa in centric, protrusive, and right and left lateral positions. Enclosed track design prevents vertical displacement of the condylar element when waxing or making excursive movements with the instrument.</p> <p>Articulator Features:</p> <ul style="list-style-type: none"> • Progressive side shift: 0-30° • Protrusive angle: 0-75° • Comes complete with: Adjustable incisal guide, standard incisal pin, extension pin, orbitale indicator, 10 disposable mounting plates, instruction manual and carrying case <p>Origin: UK /USA/ JAPAN/EUROPE</p>	1 No.
42.	<p>FACEBOW</p> <p>Features:</p> <ul style="list-style-type: none"> • Use to capture and record a patient's maxillary arch and its relationship to the condyles • Quick and easy to use • Automatically centers for outstanding accuracy and patient comfort • May be sterilized by steam autoclave • Earpiece Facebow (Complete) Features: <ul style="list-style-type: none"> • Allows indirect or direct mounting • Comes complete with: transfer clamp assembly, anterior elevating assembly, mounting platform with built-in cast support, bitefork and biteplane <p>Origin: UK /USA/ JAPAN/EUROPE</p>	1 No.
43.	<p>SEMI-ADJUSTABLE ARTICULATOR</p> <p>The semi-adjustable articulator provides a fast, uncomplicated method of setting up a case for occlusal diagnosis and treatment. Side shift adjustments are simply a matter of selecting the desired fossae (.5mm or 1.0mm) and inserting them into the articulator.</p> <ul style="list-style-type: none"> • Choice of fossae with pre-programmed immediate side shift of .5mm or 1.0mm • Removable upper member 	1 No.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	<ul style="list-style-type: none"> • Retaining springs hold bows together without being locked in centric • Positive centric latch • 7° progressive side shift • 3/4" (19mm) curvature of superior wall • Black finish • Comes complete with: custom (flat) incisal table with short round incisal pin, 10 disposable mounting plates, carrying case and instruction manual <p>Origin: UK /USA/ JAPAN/EUROPE</p>	
44.	<p>SEMI-ADJUSTABLE ARTICULATOR</p> <ul style="list-style-type: none"> • Adjustments: protrusive angle: 0-60°; immediate side shift: 0-4mm; progressive side shift: 5-15° • Removable upper member • Retaining springs hold members together without being locked in centric • Clear finish • Positive centric latch • 110mm intercondylar distance • Rear wall posterior inclination of 25° • Straight top wall • Comes complete with: 10 disposable mounting plates, and carrying case <p>Origin: UK /USA/ JAPAN/EUROPE</p>	1 No.
45.	<p>FACEBOW</p> <p>A fast, easy and accurate means of transferring proper maxillary relationships.</p> <p>Features:</p> <ul style="list-style-type: none"> • Precision speed-glide gear mechanisms permits the facebow to open and close on the axis • Convenient detachable transfer jig mounts to the articulator, freeing the facebow for the next patient • Adaptable to most Articulators • Comes complete with: one measuring bow, transfer jig assembly, other needed accessories, instruction manual and carrying case <p>Origin: UK /USA/ JAPAN/EUROPE</p>	1 No.
46.	<p>FULLY ADJUSTABLE ARTICULATOR</p> <p>Fully-adjustable fossae walls can be easily adjusted to duplicate patient's condylar path of movement as recorded by the Pantograph.</p> <p>Features:</p> <ul style="list-style-type: none"> • Protrusive angle: 0-60° • Immediate side shift: 0-4mm • Progressive side shift: 0-30° • Rear wall 30° backward 	1 No.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	<ul style="list-style-type: none"> • Top wall 30° up, 30° down • Intercondylar distance: 90-150mm • Comes complete with: adjustable incisal table, custom (step) incisal table, long centric incisal pin, 10 disposable mounting plates, wrench pack, carrying case and instruction manual Origin: UK /USA/ JAPAN/EUROPE	
47.	FACEBOW FOR FULLY ADJUSTABLE ARTICULATOR Dual purpose: Can be located to the arbitrary or precise hinge axis, or to the external auditory meatus Independent side arms for accurate alignment Earbow mounts to the articulator behind the condyle; the facebow mounts by means of mounting studs in the condyle Origin: UK /USA/ JAPAN/EUROPE	1 No.
48.	PHYSIO DISPENSER Automatic thread cutter function Motor with cable, thermo washer disinfectable and sterilizable Technical Specs: Max Torque : 70 NcmMains voltage : 220 – 240 V Mains fuse : 2 x 250 V – T1.25AH Max output power : 70 W Max torque of motor : 5.5 Ncm Speed range : 300 – 40,000 min-1 Max coolant rate : approx. 100 ml/min Foot control with program switching, activation and deactivation of the coolant pump, clockwise/anticlockwise rotation, On-Off function and infinitely variable speed control of the motor up to the preselected maximum speed along with Surgical Hand Piece Implantology Contra-angle with push-button 20:1, single spray, maximum drive speed 50,000 min-1 Origin: UK /USA/ JAPAN/EUROPE	3 Nos.
49.	Implant Sinus Lift Kit Origin: UK /USA/ JAPAN/EUROPE	2 Nos.
50.	DENTAL OPERATING MICROSCOPE “with full video capturing accessories”. Magnification system Manual apochromatic magnification changer Eyepieces: 12.5x wide-field eyepieces with reticle; also suitable for eyeglass wearers Tubes Inclined 45° binocular tube, f = 170 mm Focus f = 250 mm, focusable Illumination system LED illumination	1 No.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	<p>Handgrip Standard handgrip Mount mobility 120° coupler Suspension system Floor stand interface with 120° coupler Focusable working distance 200-300 mm</p> <p>Integrated HD video camera</p> <ul style="list-style-type: none"> • HD-ready Full HD 1080p • Live & streaming (Full HD 1080p) with recording license • Cables • HD monitors <p>External video solutions</p> <ul style="list-style-type: none"> • adapter for digital cameras • adapter for digital camcorders <p>Asepsis</p> <ul style="list-style-type: none"> • Splash protection for the objective lens • Vision Gard drapes for sterile work environment <p>Optics Double Iris diaphragm to increase the depth of field Others Instrument tray on floor stand Origin: UK /USA/ JAPAN/EUROPE</p>	
51.	<p>APEX LOCATOR</p> <p>Classification Safety according to IEC 60601-1, IEC 60601-1-2, UL 60601-1, ISO 11498, ISO 7785-2, CAN/CSA C22.2 No. 601.1-M90 European Directive 93/42/EEC IIa Canada Medical devices Class II Type of Protection Battery operated against Electric Shock Degree of Protection Type B applied part against Electric Shock Degree of Protection IPX O (IEC 60529) Mode of Operation Continuous Intended use It can be used to measure the length of the canal. Main unit Rated Voltage DC 4.5 V (with battery operation) Rated Current max. 0.03 A (with battery operation) Power Consumption 0.135 VA (with battery operation) Dimensions Canal Measurement Module 115 ± 20(mm) x 105 ± 20(mm) x 105 ± 20(mm) Weight Canal Measurement Module Approximately 370 g Operation, Transport and Storage Conditions for the main unit Operating Conditions Ambient temperature range +10° / 50° F ~ +40° C / 104° F</p>	5 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	Relative humidity 30 ~ 80 RH % without condensation Atmospheric pressure range 800~ 1,060 hPa Transport and Storage Conditions Ambient temperature range -10° / 14° F ~ +70° C / 158° F Relative humidity 8 ~ 80 RH % without condensation Atmospheric pressure range 700 ~ 1,060 hPa Origin: UK /USA/ JAPAN/EUROPE	
52.	OBTURATION UNIT Enhanced Thermal Protector Significantly reduces heat around patient contact surfaces with a new, drives warm air away from the unit and brings cool air in, making patient safety a top priority. Cartridge Free Operation Allows users to maximize Obturation without the hassle of filling gutta percha during a procedure. Ergonomic Ergonomically designed hand-piece trigger provides superior tactile feel and outstanding control. Thumb-shaped hand-piece grooves were designed for optimal comfort during operation while minimizing hand fatigue and stress. Advanced Connectivity No downtime for charging. User-friendly connection for quick and easy storage. <u>Accessories</u> Condensers Condenser 40-80 Condenser 50-100 Condenser 60-120 Condenser Set of 3 Applicator Needles Three Sizes: 20, 23, 25 20 Ga. Needles (6 Pack) 23 Ga. Needles (6 Pack) 25 Ga. Needles (6 Pack) Gutta Percha Gutta Percha, Box of 100 pcs Flow 150 Gutta Percha, 100 pcs Origin: UK /USA/ JAPAN/EUROPE	2 Nos.
53.	OBTURATION UNIT Four temperature pre-sets ranging from 150°C to 230°C Lightweight Lithium-Ion battery lasts up to 1 week of endodontics cases to enhance performance and minimize downtime for charging Ergonomic: cordless design for mobility Safety: Auto shut-off after 10 minutes of downtime Six slots and hexagonal grip allowing heat pluggers to be inserted in any	2 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	<p>direction</p> <p>The system includes the following items: Heating Unit Charging Base Lithium-Ion Battery AC Power Adapter Power Cord #55/.06 Plugger</p> <p>HEAT PLUGGERS “ENDODONTICS” 30/.04 taper Plugger 35/.04 taper Plugger 40/.04 taper Plugger 45/.04 taper Plugger 55/.06 taper Plugger 55/.08 taper Plugger 55/.10 taper Plugger 60/.12 taper Plugger Hot Testing Tip Origin: UK /USA/ JAPAN/EUROPE</p>	
54.	<p>ULTRASONIC TIPS FOR ENDODONTIC NON-SURGICAL RETREATMENT EMS Compatible Diamond coated Water port Fine/ Medium Grit Origin: UK /USA/ JAPAN/EUROPE</p>	5 Sets
55.	<p>ENDODONTIC MOTOR Endo motor with contra-angle and universal AC adaptor</p> <p>6:1 contra-angle</p> <p>Cleaning adaptor Cleaning and maintenance unit adaptor</p> <p>Reciprocating & Full rotation Origin: UK /USA/ JAPAN/EUROPE</p>	5 Nos.
56.	<p>ENDODONTIC IRRIGATION ACTIVATION DEVICE Sonic frequency Strong, flexible medical grade polymer tips Single patient use Uncoated & Non Cutting tips Origin: UK /USA/ JAPAN/EUROPE</p>	3 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
57.	ULTRASONIC TIPS FOR ENDODONTIC NON-SURGICAL RETREATMENT EMS Compatible Diamond coated Water port Fine/ Medium Grit Origin: UK /USA/ JAPAN/EUROPE	5 Sets
58.	ULTRASONIC TIPS FOR ENDODONTIC SURGICAL RETREATMENT EMS Compatible Angled 80 degrees at the working end Slightly longer than other microsurgical instruments for better access Diamond-coating reduces risk of Micro-fractures but allows for better adaptation of filling materials Improved irrigation port Origin: UK /USA/ JAPAN/EUROPE	5 Sets
59.	ULTRASONIC UNIT FOR ENDODONTIC RETREATMENT Hand-piece Filter Replacement HP Connector, O-Ring Ultrasonic Tip Intro Kit Tip Wrench Origin: UK /USA/ JAPAN/EUROPE	2 Nos.
60.	PIEZOSURGERY UNIT Type: SA-320 Mains voltage: 100 – 130 V or 220 –240 V Frequency: 50 – 60 Hz Max. power consumption: 90 VA Max. output power: 24 W Coolant flow rate at 100 %: min. 50 ml/min Length of hand-piece cable: 1.8 m or 3.5 m (approx.) Foot control: yes Origin: UK /USA/ JAPAN/EUROPE	1 No.
61.	RUBBER DAM KITS Dental Dam Starter Kit with Winged/Wingless clamps. Kit contains: 6" x 6" (152 x 152 mm) Dam - medium 36 sheets, 6" (152 mm) Plastic frame, 9 color coded clamp pak, 6" Template, Wedjets Cord (small), Dental dam punch, and Dental dam forceps. Material: Metal Packaging: Starter kit with instruments Size: Assorted Style: Winged & Wingless Origin: UK /USA/ JAPAN/EUROPE	15 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
62.	<p>DIGITAL SLR CAMERA</p> <p>Type of camera Single-lens reflex digital camera Lens mount F mount (with AF coupling and AF contacts) Effective angle of view DX format; focal length in 35mm [135] format equivalent to approx. 1.5x that of lenses with FX-format angle of view Effective pixels Effective pixels 24.1 million Image sensor Image sensor 23.5 x 15.6 mm CMOS sensor Total pixels 24.71 million Dust-reduction system Image Sensor Cleaning, Image Dust Off reference data (optional Capture software required) Origin: UK /USA/ JAPAN/EUROPE</p>	5 Nos.
63.	<p>MACRO LENS</p> <p>Lens type: Prime lens Max Format size: 35mm FF Focal length: 105 mm Image stabilization: Yes Lens mount: Canon EF, Nikon F (FX), Sigma SA Bayonet, Sony/Minolta Alpha</p> <p>Aperture Maximum aperture: F2.8 Minimum aperture: F22 Aperture ring: No NO. of diaphragm blades 9</p> <p>Optics Elements: 16 Groups: 11</p> <p>Focus Minimum focus: 0.31 m (12.28") Maximum magnification: 1× Autofocus: Yes Motor type: Ring-type ultrasonic Full time manual: Yes Focus notes: Floating focus mechanism Distance scale: Yes DoF scale: No Focus distance limiter: yes (0.45m)</p>	5 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	Physical Sealing: Yes Filter thread: 62.0 mm Filter notes: Does not rotate on focusing Origin: UK /USA/ JAPAN/EUROPE	
64.	RING FLASH Guide Number 14 ISO 100/m (when the flash is fired at full power) Power Level: 1/1 1/2 1/4 1/8 1/16 1/32 1/64 1 tube-2 tubes: 14 10 7 5 3.5 2.5 1.8 Power Source: AA Alkaline Battery or AA NiCd Battery or AA Ni-Mh Battery x 4pcs Angle of Coverage: Vertical / Horizontal 80 degrees Compatible Cameras: SA-STTL (SIGMA), EO-ETTL II (CANON), NA-iTTL (NIKON), PA-PTTL (PENTAX), SO-ADI (SONY/MINOLTA) Origin: UK /USA/ JAPAN/EUROPE	5 Nos.
65.	DIGITAL SENSOR FOR DENTAL RADIOGRAPHY <ul style="list-style-type: none"> • True image resolution: 14 lp/mm • Theoretical sensor resolution: 27.03 lp/mm • Sensor technology with optical fiber • Connection: USB 2 – high speed Size 1 sensor: all-purpose sensor providing the best compromise between ease of use and active area. • Outside dimensions: 27.5 x 37.7 mm • Dimensions of active area: 22 x 30 mm • Matrix dimension: 1200 x 1600 Size 2 sensor: Designed with a larger surface - active area is 60% greater than size 1 sensor for Bite Wing images. • Outside dimensions: 32.2 x 44.1 mm • Dimensions of active area: 27 x 36 mm • Number of pixels: 1440 x 1920 Origin: UK /USA/ JAPAN/EUROPE	6 Nos.
66.	INTRA-ORAL PORTABLE X-RAY <ul style="list-style-type: none"> • Classification : B Type applied part • T b V lt : 60kV(fi d) Tube Voltage : 60kV(fixed) • Tube Current : 2mA (fixed) • X-Ray Tube Focal Size : 0.8mm • Cooling system : Oil cooling • Total filtration : 1.5 mm Al (Inherent filtration : 0.8mm, fixed added filter :0.7 mm Aluminum) • Target angle : 19 ~ 20° • Time Set-up function : 0.05 ~ 1.35 sec (Film/Digital included) • Source to image receptor distance : >10cm (fixed by cone) • X-ray field : 50 mm (round-style) 12 Origin: UK /USA/ JAPAN/EUROPE	4 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
67.	<p>HIGH DEFINITION DIGITAL VIDEO CAMERA Sensor Type: 1.0-type (13.2 mm x 8.8 mm) stacked Exmor RS CMOS sensor Effective Pixels (Video): Approx. 14.2 M pixels(16:9)6 Lens Type: ZEISS Vario-Sonnar T Optical Zoom: 12x Clear Image Zoom: 4K: 18x, HD: 24x Screen Type: 8.8 cm(3.5 type) LCD display (1,555K) Wide (16:9) or better Origin: UK /USA/ JAPAN/EUROPE</p>	2 Nos.
68.	<p>3D Printer Power Requirement: AC 100V, 220V / 50-60 Hz, 24V 5A Connectivity: USB</p> <p>Printing properties Specs Technology: Stereolithography(SLA) Working area: 110 x 110 x 150 Layer thickness: 16, 50, 100 µm X-Y resolution: 50 µm Supports: Auot/Maual-generated</p> <p>Applicable materials ZMD-1000B Model ZMD-1000B Clear SG ZMD-1000B Castable NextDent Ortho RIGID Software Specs Program:Slicer System requirements Windows 7, 8 Intel Core i7 8GB RAM GTX960(NVIDIA) / R9 380(AMD) Importing format STL Origin: UK /USA/ JAPAN/EUROPE</p>	1 No.
69.	<p>LASER COLOR PRINTER Print Speed Up to 38 ppm - B/W - A4 (8.25 in x 11.7 in) Up to 40 ppm - B/W - Letter A Size (8.5 in x 11 in) Up to 38 ipm - B/W duplex - A4 (8.25 in x 11.7 in) Up to 40 ipm - B/W duplex - Letter A Size (8.5 in x 11 in) Up to 38 ppm - color - A4 (8.25 in x 11.7 in) Up to 40 ppm - color - Letter A Size (8.5 in x 11 in) Up to 38 ipm - color duplex - A4 (8.25 in x 11.7 in) Up to 40 ipm - color duplex - Letter A Size (8.5 in x 11 in) Up to 59 ppm - B/W - A5 (5.83 in x 8.25 in) Up to 59 ppm - color - A5 (5.83 in x 8.25 in)</p>	2 Nos.

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	<p> Built-in Devices status LCD Connectivity Technology wired Interface USB 2.0, Gigabit LAN, USB 2.0 host AirPrint Enabled Yes Image Enhancement Technology Automatic Duplexing Yes PostScript Support standard First Print Out Time B/W 6 sec Language Simulation PCL 5C, PCL 6, PDF 1.7, PostScript 3 92 x PostScript 3 Printer Features ePrint, Instant-on Technology, Mopria certified, hardware integration pocket Media Handling 100-sheet multipurpose tray, 550-sheet input tray Type workgroup printer Min H-Document Size 3 in Min V-Document Size 5 in Max H-Document Size 8.5 m Max V-Document Size 14 in Min Media Weight 60 Max Media Weight 220 </p> <p> CAMERA Installed Size 4 GB </p> <p> PROCESSOR Clock Speed 1.2 GHz </p> <p> MISCELLANEOUS Consumables Included 1 x toner cartridge (black) - up to 6000 pages ISO/IEC 19798 1 x toner cartridge (cyan) - up to 5000 pages ISO/IEC 19798 1 x toner cartridge (magenta) - up to 5000 pages ISO/IEC 19798 1 x toner cartridge (yellow) - up to 5000 pages ISO/IEC 19798 Color Category black, gray </p> <p> NETWORKING Networking Print server Remote Management Protocol HTTP, HTTPS, Telnet, IPP, IPPS, NDS, SLP, SNMP 1, SNMP 2c, SNMP 3, TFTP Network Controller Name Jetdirect Security Protocols & Features 802.1x, Apple Bonjour, EAP-TLS, IPsec, Kerberos, LDAP, PEAP </p> <p> RAM Technology / Form Factor DDR3 SDRAM - DIMM 90-pin Max Supported Size 2 GB Slots Qty 1 Empty Slots 1 Form Factor DIMM 90-pin Technology DDR3 SDRAM </p> <p> ENVIRONMENTAL STANDARDS Blue Angel Yes </p>	

Item No	Name of Goods, Technical Description, Specifications, and Standards	Qty. Required
	ENERGY STAR Yes PRINTING Max Resolution B/W 1200 x 1200 dpi Max Resolution Color 1200 x 1200 dpi Max Printing Speed B/W (ppm) 40 ppm Max Printing Speed Color (ppm) 40 ppm Automatic Duplexing Yes Origin: UK /USA/ JAPAN/EUROPE	

SPECIAL NOTE:

- i. The Purchaser will evaluate and compare the bids on itemized basis OR on the basis of a group OR a combination of groups OR as total of groups.
- ii. Port of Shipment and Country of origin of “MAJOR PART(S) OF THE EQUIPMENT” must be clearly reflected separately in the Technical and Financial bids. The “Origin” means the place where the “goods” are mined, grown, or produced.
- iii. The above specifications are only for widest possible competition and not for favor any single contractor or supplier nor put others at a disadvantage. However, the brand name, catalogue No. / Name etc. has only been used for the reference purpose. Goods offered “AT LEAST EQUIVALENT” to requisite specifications shall also be considered.
- iv. Equipment must be quoted with all the standard accessories.
- v. UPS/Power protection for the equipment shall be incorporated in the systems, otherwise prices must be quoted separately.
- vi. All the civil works will be carried-out by the Dow University of Health Sciences, Karachi with the consultation of the responsive bidder.
- vii. All site specific work to be required in the system viz. Lead Glass/special antistatic flooring, environment control/radiation protection must be quoted separately.

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 without taxes	Taxes	Rate Per Unit including taxes	Total Price
1	2	3	4	5	6	7	8	9	10	11
Total Amount in Pak Rs.										

Name _____

In the capacity of _____

Signed _____

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

Date _____

NOTE:

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

2. (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	Port Of Shipment	Quantity of Stores	Unit	Curr-ency	Rate Per Unit	Total Price
1	2	3	4	5	6	7	8	9	10	11
Total Amount in Foreign Currency										

Name _____

In the capacity of _____

Signed _____

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

Date _____

NOTE:

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