



BIDDING DOCUMENT

Single Stage - Two Envelope Bidding Procedure

**PROCUREMENT OF
LAB. EQUIPMENT / INSTRUMENTS FOR DOW RESEARCH
INSTITUTE OF BIOTECHNOLOGY &
BIO MEDICAL SCIENCES (D.R.I.B.B.S)**

**NIT No. DUHS/DP/2018/-41/45 Dated 23 April 2018
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TABLE OF CONTENTS

A.	INSTRUCTIONS TO BIDDERS (ITB)	2
1.	INTRODUCTION	2
2.	THE BIDDING PROCEDURE	3
3.	THE BIDDING DOCUMENTS	3
4.	PREPARATION OF BIDS	4
5.	SUBMISSION OF BIDS	8
6.	OPENING AND EVALUATION OF BIDS	9
7.	AWARD OF CONTRACT	14
B.	GENERAL CONDITIONS OF CONTRACT (GCC)	17
1.	DEFINITIONS	17
2.	APPLICATION	17
3.	STANDARDS	18
4.	USE OF CONTRACT DOCUMENTS AND INFORMATION	18
5.	PATENT RIGHTS	18
6.	ENSURING STORAGE ARRANGEMENTS	18
7.	INSPECTIONS, TESTS AND TRAINING	18
8.	DELIVERY AND DOCUMENTS	19
9.	INSURANCE	19
10.	TRANSPORTATION	19
11.	INCIDENTAL SERVICES	19
12.	WARRANTY / GUARANTEE	19
13.	PAYMENT	20
14.	ASSIGNMENT	20
15.	DELAYS IN THE BIDDER'S PERFORMANCE	20
16.	PENALTIES/ LIQUIDATED DAMAGES	21
17.	TERMINATION FOR DEFAULT	21
18.	FORCE MAJEURE	21
19.	TERMINATION FOR INSOLVENCY	21
20.	ARBITRATION AND RESOLUTION OF DISPUTES	22
21.	PACKING	22
22.	GOVERNING LANGUAGE	22
23.	APPLICABLE LAW	22
C:	INVITATION FOR BIDS (IFB)	23
D:	BID DATA SHEET	24
E:	SPECIAL CONDITIONS OF CONTRACT (SCC)	26
F:	SCHEDULE OF REQUIREMENTS	31
G:	TECHNICAL SPECIFICATIONS	32
H:	SAMPLE FORMS	43
1.	PERFORMANCE GUARANTEE/SECURITY FORM	43
2.	MANUFACTURER'S AUTHORIZATION FORM	44
3.	CONTRACT FORM	45
I:	BID FORM & PRICE SCHEDULE	46
1.	BID FORM	46
2.	PRICE SCHEDULES	47 & 48

A: Instructions to Bidders. (ITB)

1. INTRODUCTION

1. GENERAL

1.1 Dow University of Health Sciences (DUHS), Karachi has allocated fund for the **Dow Research Institute of Biotechnology & Bio Medical Sciences (D.R.I.B.B.S)**. It is intended that part of the proceeds of this fund will be applied to eligible payments under the contract for the **Procurement of Lab. Equipment / Instruments**.

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 / CNF/ C&F / CPT 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 / CNF/ C&F / CPT Basis.

11. DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATION

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

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

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

12.1 Pursuant to ITB Clause 8, the Bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding

documents of all goods and services which the Bidder proposes to supply under the contract.

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

13. BID SECURITY

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

14. BID VALIDITY

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

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

15. ALTERNATIVE BIDS

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

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

5. SUBMISSION OF BIDS

16. SEALING AND MARKING OF BIDS

16.1 The envelopes shall:

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

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

17. DEADLINE FOR SUBMISSION OF BIDS

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

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

18. LATE BID

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

19. WITHDRAWAL OF BIDS

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

6. OPENING AND EVALUATION OF BIDS

20. OPENING OF BIDS BY THE PROCURING AGENCY

22.1 The Procuring Agency will open all bids in the presence of bidders' representatives who choose to attend, at the time, on the date, and at the place specified in the Bid Data Sheet. The bidders' representatives who are present shall sign a register evidencing their attendance.

22.2 The bidders' names, bid modifications or withdrawals, bid prices, discounts, and the presence or absence of requisite bid security and such other details as the Procuring Agency, at its discretion, may consider appropriate, will be announced at the opening. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened to the Bidder pursuant to ITB Clause 18.

22.3 Bids (and modifications sent pursuant to ITB Clause 19) that are not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances. Withdrawn bids will be returned unopened to the bidders.

21. CLARIFICATION OF BIDS

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

22. PRELIMINARY EXAMINATION

22.1 The Procuring Agency will examine the bids to determine whether they are complete, whether any computational errors have been made, whether

required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

- 22.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Supplier does not accept the correction of the errors, its bid will be rejected, and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail.
- 22.3 The Procuring Agency may waive any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.
- 22.4 Prior to the detailed evaluation, pursuant to ITB Clause 23 the Procuring Agency will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, such as those concerning Bid Security, Applicable Law, and Taxes and Duties, will be deemed to be a material deviation. The Procuring Agency's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 22.5 If a bid is not substantially responsive, it will be rejected by the Procuring Agency and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

23. EVALUATION AND COMPARISON OF BIDS

- 23.1 The Procuring Agency will evaluate and compare the bids which have been determined to be substantially responsive, pursuant to ITB Clause 22.
- 23.2 The Procuring Agency's evaluation of a bid will be on delivered duty paid (DDP) inclusive of prevailing duties/taxes and CFR / CNF/ C&F / CPT 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 The procuring agency reserves the right to evaluate and compare the bids on itemized basis OR on the Group basis OR on the basis of a group of similar nature goods OR goods compatible with each other.
- 24.2 **Merit Point System:**
The following merit point system for weighing evaluation factors/criteria will be applied for technical proposals.
- 24.3 If a bidder fails to obtain “**minimum 20 marks**” against the criteria “**Conformity to the Purchaser's Specifications**” and **unable to provide valid manufacturer Authorization**, its offer will not be considered for further evaluation and rejected.
- 24.4 Bidders achieving minimum 70 marks will be considered only for further process. Documentary evidence must be attached in support of each parameter.

A. PRODUCT EVALUATION

S#	PARAMETERS / SUB-PARAMETERS	Total Marks
1	Conformity to the Purchaser's Specifications	25
1.1	Fully compliant with the required specifications	25
1.2	Compliant with minor deviation (up to 10% subject to main function is not effected)	20
2	Product Certification	15
2.1	Food and Drug Administration (FDA) and European Community (CE) MDD or Japan Industrial Standard (JIS) / Japan Quality Assurance Organization (JQAO) / Certificate issued by Ministry of Health, Labour and Welfare Govt. of Japan	15
2.2	European Community (CE) MDD and Japan Industrial Standard (JIS) / Japan Quality Assurance Organization (JQAO) / Certificate issued by Ministry of Health, Labour and Welfare Govt. of Japan	12
2.3	Food and Drug Administration (FDA) 510K	10
2.4	European Community (CE) MDD	08
2.5	Japan Industrial Standard (JIS)/Japan Quality Assurance Organization (JQAO)/ Certificate issued by Ministry of Health, Labour and Welfare Govt. of Japan	08
	TOTAL MARKS PRODUCT EVALUATION (A)	40

B. BIDDER EVALUATION

S#	PARAMETERS / SUB-PARAMETERS	Total Marks
3	Legal Requirement	18
3.1	Manufacturer Authorization	10
3.2	Bid Form (without prices)	4
3.3	Tender Purchase Receipt	2
3.4	Taxation Certificate (NTN and GST)	2
4	Technical Staff	12
4.1	Diploma Engineers (minimum two)	4
4.2	Graduate Engineers (For High Tech / Critical equipment Graduate Engineer of relevant field) (minimum two)	6
4.3	MSc / PhD qualification of relevant field OR Foreign training for quoted model (minimum two)	2
5	Networking and Training	8
5.1	Networking setup across Pakistan (1 mark for each setup upto maximum 6)	6
5.2	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 Schedule	6
6.1	4 to 8 Weeks or earlier	6
6.2	9 to 12 Weeks or more	2
7	Past Experience / Performance	4
7.1	Satisfactory performance certificate for the quoted equipment from the medical institutions within Pakistan (1 mark for each certificate)	4
8	Financial Status	8
8.1	Recent Bank Certificate (issued during the current financial year)	2
8.2	Last financial year's verified Balance Sheet / Income Tax Return Forms	3
8.3	Yearly turn-over of equal to or over 100 Million	3
9	Bonus points	4
9.1	Extended Warranty period free of cost (at least one year) (the firm offered greater period will get the marks)	2
9.2	Post warranty maintenance contract Rate, including service and parts, (Companies to offer percentage (%) of the total contract value to be let, in the technical bid. Only the lowest(s) will get the full marks)	2
TOTAL BIDDER EVALUATION (B)		60
GRAND TOTAL (A + B)		100

24.5 Only those item's Financial offer will be announced / considered which were technically qualify by the Committee. Bidders are advised to give separate sealed envelope (s) of every quoted item and should mention the name of the item and tender serial number on the front of the sealed envelope in **BOLD**

and legible letters to avoid confusion, otherwise, the Financial Proposal Envelope will be opened on qualified item basis and it will not be challenged by the bidder that procuring agency has opened the Financial Proposal of the disqualified items besides qualified items.

24.6 Litigation History

The Bidder should not be involved in any litigation with the Procuring Agency / Government 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.

25 AWARD OF CONTRACT

29. ACCEPTANCE OF BID AND AWARD CRITERIA

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

30. PROCURING AGENCY'S RIGHT TO VARY QUANTITIES

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

31. LIMITATIONS ON NEGOTIATIONS

31.1 The Procuring Agency reserves the right to hold negotiation of rates, delivery schedule or completion schedule for all the items or any item.

31.2 Negotiations will not be used to change substantially:

- i. the technical quality or details of the requirement, including the tasks or responsibilities of the bidder or the performance of the goods;
- ii. the terms and conditions of the Contract and;
- iii. anything affecting the crucial or deciding factors in the evaluation of the proposals / bid and / or selection of successful bidder..

32. NOTIFICATION OF AWARD

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

33. SIGNING OF CONTRACT

33.1 While conveying acceptance of bid to the successful bidder, the Procuring Agency will send the bidder Contract Form provided in the bidding documents, incorporating all points of agreement between the Parties.

33.2 Ten days after the official announcement of the award, both the successful Bidder and the Procuring Agency will sign and date the Contract on legal stamp paper valuing 0.35% 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 / CNF/ C&F / CPT**" 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/DP/2018/-41/45 Dated 23 April 2018

Dow University of Health Sciences (DUHS), Karachi invites following bids on DDP basis from authorized Dealers / Distributors / Manufacturers, having registration with Federal Board of Revenue (FBR) / Sindh Revenue Board (SRB) for Income Tax and Sales Tax.

Name of Bid	Reference No.
Procurement of Medical Equipment / Instruments for Ojha Institute of Chest Diseases (OICD).	DUHS/DP/2018/41
Procurement of Lab. Equipment / Instruments for Dow Research Institute of Biotechnology & Bio Medical Sciences (D.R.I.B.B.S).	DUHS/DP/2018/42
Procurement of Lab. Equipment / Instruments for QC and R&D Laboratories of Commercial Serobiology Facility and Animal House.	DUHS/DP/2018/43
Procurement of Equipment / Instruments for Bone Marrow Transplant Programme (Stem Cell Bio Banking).	DUHS/DP/2018/44
Procurement of Blood Irradiator for Bone Marrow Transplant Programme.	DUHS/DP/2018/45

Tender Fee	Rs. 2,000/- (Rupees two thousand only) Non-Refundable in shape of Pay Order / Demand Draft in favor of Dow University of Health Sciences, Karachi
Bid Security	2% of the total bid value.
Purchasing Date & Time	25 April 2018 to 11 May 2018
Bids Delivery Date & Time	12 May 2018 up to 11:00 a.m.
Bid Opening Date & Time	12 May 2018 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 upto date).

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

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 Lab. Equipment / Instruments for Dow Research Institute of Biotechnology & Bio Medical Sciences (D.R.I.B.B.S).

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 / CNF/ C&F / CPT 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 Lab. Equipment / Instruments for Dow Research
Institute of Biotechnology & Bio Medical Sciences (D.R.I.B.B.S).
Bid Reference No. DUHS/DP/2018/42
NIT No. DUHS/DP/2018/-41/45 Dated 23 April 2018**

ITB 16.1 (c) Dow University of Health Sciences (Ojha Campus), Procurement Directorate
at Library Block, SUPARCO Road, off Main University Road, Gulzar-e-Hijri,
Scheme No. 33, Karachi.

“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: **12 May 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 (Ojha Campus), Procurement Directorate
at Library Block, SUPARCO Road, off Main University Road, Gulzar-e-Hijri,
Scheme No. 33, Karachi.

Date: **12 May 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 / CNF/ C&F / CPT 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 / CNF/ C&F / CPT 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 post warranty 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:

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

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.
- ii) The delivery period shall start from the date of contract signature.

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

- i. The shipment of the items of Stores which are to be imported shall be started as early as possible (**preferable within 60 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.
01	<p>Thermal Cycler (96 well) Thermo block Aluminum, •Sample capacity: 96x 0.2 mL PCR tubes and 77x 0.5 mL PCR tubes or 1x96 well PCR plate •Temperature control: range 4-99°C, •Temperature control mode Fast, Standard Safe; all in gradient mode Heating technology of the block Peltier Elements, Triple Circuit Technology, •Gradient: Yes, • Gradient block Over 12 columns Gradient range 1-20°C, •Gradient temperature range 30-99°C, •Lid temperature range 37-110°C, • Lid Type Flex lid for ergonomic lid opening, •Block homogeneity 20-72°C < ±0.3°C, 95°C < ±0.4°C, •Block temperature accuracy ≤ ±0.2°C •Maximum Cycles 99, •Heating rate approx. 3°C/s, •Cooling rate approx. 2°C/s, •Interfaces: USB, •Ethernet, CAN in/out •Power consumption 700 W, •Evaporation protection lid technology Thermal sample protection, •Networking capability to control more than one cycler with one control panel. •No of Program on device :700 Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	02 Nos.
02	<p>Centrifuge (small table top, temperature control) with Rotor 30 x 1.5/2.0 mL micro centrifuge tubes with max. 11 mm Ø capacity rotor 45° angle, • Speed up to 30,130 x g (17,500 rpm) Approx, • Compact footprint for use on all lab benches, • Aerosol-tight rotors for ergonomic rotor lid locking, • Safety Devices: Lid Interlock, Imbalance Detector, Overcurrent Circuit Breaker (Power Switch), Lid Open/Close Detector, temperature controlled -11-40oC, soft break function 0-9 acceleration time 14s, deceleration time: 15s, interchangeable rotor option: 12. Reduced vibration. Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	02 Nos
03	<p>Centrifuge (swing bucket, temp control, larger speed limits) with rotors Intelligent Microprocessor Control, • Inverter Controlled Brushless Motor, • Automatic Rotor Identification System, • Instant RCF Reading, • Last Run Memory, • Over speed Protection System, • Full Lid Interlock, • Imbalance Detection System, • Self Diagnostics, • Status Indicator, • CFC - Free Refrigerant Gas , • Precool Facility , • Easy To Service, • Superior Lid Lock Mechanism, soft break function 10x10 acceleration /deceleration • Selectable Temperature Range -9oC To +40C , • Speed Range max 14000rpm, • Maximum RCF 20,9013/4,500 x g, • Timer 1min - 99 min with Continuous Mode, • 48 place centrifuge for 1.5 / 2.0 ml micro test tubes, With rotors for : • 96 well PCR plates, 15 ml falcon , 50 ml falcon, 1.5ml/2.0ml/5ml tubes, , interchangeable rotor option: 18. Reduced vibration Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	02. Nos
04	<p>High Speed Centrifuge Intelligent Microprocessor Control, • Inverter Controlled Brushless Motor, • • Full Lid Interlock, • Imbalance Detection System, • Self Diagnostics, • Status Indicator, • Multiple Acceleration / Deceleration Rates, • Speed Range 15000 rpm, • 200ml Bowl Volume centrifugation, • Continuous centrifugation of 2-15L Volume Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 No
05	<p>Gel Doc (with computer, thermal printer, and paper printer) System shall be used for detection and quantification of nucleic acids, proteins and labels,</p>	01 No

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>bio imaging of cells, fluorescent and calorimetric applications; high quality imaging and resolution with epi and trans UV provision; 6-8 filter wheel with atleast 4 emission filters; blue, orange, red and green; semi-motorized zoom and filter change options, real-time imaging with Trans UV, Epi-UV, and Epi-WL provision. Inbuilt CCD camera with 16-bit file format and atleast 3 MP camera resolution is required. Suitable gel capture and gel analysis software is required along with HP Laser color printer to support the printing of the images. Smart dark chamber that automatically shuts of light when door closed and maximum sample emitted light with minimum light distraction., CCD camera with atleast 3 mega pixels resolution, 16-bit file format, 6X position for filters, different UV illumination modes like Trans-UV, Epi-UV, Epi-white , light, UV converter to white light, excitation source of UV with wavelength 312 nm and suitable gel capture and gel quant analysis software to run the system. The filter range should be for blue - 470 nm, Orange - 580nm, Green - 550 nm and Red - 600nm respectively. Transilluminator dimensions should be atleast 25-26 cms length wise with width of 21cms.</p> <p>Compatible computing system (laptop preferred) with integrated softwares for 1 D and 2 D capture and analytical software.</p> <p>Equipment should have USA FDA / CE / JIS.</p> <p>Origin: Europe / UK / USA / Japan</p>	
06	<p>Small Horizontal Electrophoresis Assembly With Power Packs Horizontal Electrophoresis Kit: Mini unit: Complete Set - Including base gel running unit, safety lid, 7 x 10 cm gel trays, two 8-well and two 15-well combs and gel casting gates. Gel Casting Tray: Standard form; Trans illuminator, UV Power Supply: • Power Supply suitable for horizontal gel electrophoresis, , • Constant voltage and constant current modes , • Output Voltage: Adjustable from 0/5/10V to 500V/600V with an increment of 1 V or less , • Output Current: up to 800/1000 mA with increment of 1 mA , • Output power : 300W or more , • Terminals/ Sockets : 4 Pairs/4 , Safety: All necessary safety provisions like Over load, No load, Sudden change in load, power failure indication, Over Temperature and safe plugs and sockets Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	02 Nos
07	<p>Horizontal Electrophoresis Tank (Mupid one) Electrophoresis tank Made of Heat-resistant Materials where Gel solution up to 100°C could be poured into the Gel Tray. Clean up could be performed by using boiling water, • Safety Lid with Interlock System, Voltage Variation Range, • At least seven conventional voltages should be available with peak voltage constant at 140 V and output level can be change through pulse control., 2 large gel tray , 4 small gel trays, • 4 combs (13 well and 26 wells) , Combs to be spaced according to multichannel pipettes, •Gel casting stand Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 No
08	<p>Wide Electrophoresis Tank Horizontal Electrophoresis Kit: Wide Mini unit: Complete Set - Including base gel running unit, safety lid, at least two casting trays and combs. Gel Casting Tray: Two 15 x 10 cm UV transparent tray, casting gates, gel caster. Standard form; Trans illuminator, UV Combs sizes: two 15 and 20 well compatible with multichannel pipettes Power Supply: • Power Supply suitable for horizontal gel electrophoresis, , • Constant voltage and constant</p>	01 No

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>current modes , • Output Voltage: Adjustable from 0/5/10V to 500V/600V with an increment of 1 V or less , • Output Current: up to 800/1000 mA with increment of 1 mA , • Output power : 300W or more , • Terminals/ Sockets : 4 Pairs/4 , Safety: All necessary safety provisions like Over load, No load, Sudden change in load, power failure indication, Over Temperature and safe plugs and sockets Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	
09	<p>HPLC Analytical scale, Flow rate 0.1-10ml/min, UV range 190nm-1100nm, PhotoDiode array detectors , dual-lamp ,dual-pump provision, multi-column handling provision, autosampler, thermostate controlled chamber, software with computer, Installed at at least three reputed research organizations of Pakistan Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 Nos
10	<p>White Light/UV Transilluminators • For detection double-stranded nucleic acids that have been labeled with fluorescent dyes, , • Supply UV and white light side by side, • 302/365nm UV • 20 x 20 cm, • Gel-Ruler, fluorescent with cm markings • Gel-Scooper, for transferring gels , • Gel-Tray to protects trans illuminator filter , • Plexiglass and glass filter combination built-in Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	02Nos
11	<p>CLC Genomics Workbench • Genomics Workbench should enable to rapidly analyze and visualize the huge amounts of data generated by NGS machines. It should blend seamlessly into existing sequencing analysis workflows, • Genomics Workbench should include High Performance Computing accelerated assembly of High-Throughput Sequencing data as well as a large number of downstream analysis tools. , • Genomics Workbench should comprehensively analyze and visualize data from all major NGS platforms, like SOLiD, 454, Sanger, Illumina and Ion Torrent. , • Read mapping with Support for analysis of hybrid data , • Multiplexing , • Re-sequencing , • Identifying genomic rearrangements, • Transcriptomics Features with Digital Gene Expression, Small RNA analysis, Library construction, • Epigenomics analyses , • Classical Sequence Analysis , • Server Integration , • Complete with latest generation branded compatible hardware computing system (LAPTOP preferably 17 inch). Should be based on windows / linux platform Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 No
12	<p>Spectrophotometer Photometric research applications such as DNA, RNA and protein analysis - a broad wavelength range (including UV area), path length correction and a fast reading speed. - Freely selectable wavelengths from 200 to 1000nm for the demands of various assays - Both microplate and cuvette reading for any throughput requirements - Visual internal software on a large color screen for quick measurements - A selection of multiple operation languages with respective software for assay design and a compact computing system Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	02 No
13	<p>Vertical electrophoresis assembly (small) with power pack Vertical Electrophoresis Kit: Mini unit:</p>	01 No

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>Complete Set - Including base gel running unit, safety lid, at least two 8 well n two 12 well combs. Gel Casting Tray Combs sizes: 1.0 mm -4 wells, 8 wells &12 wells; 2.0 mm - 4 wells, 8 wells & 12 wells along with spacers and casting stand. Glass plates , Power Supply: • Power Supply suitable for vertical gel electrophoresis, , • Constant voltage and constant current modes , • Output Voltage: Adjustable from 0/5/10V to 500V/600V with an increment of 1 V or less , • Output Current: up to 800/1000 mA with increment of 1 mA , • Output power : 300W or more , • Terminals/ Sockets : 4 Pairs/4 , Safety: All necessary safety provisions like Over load, No load, Sudden change in load, power failure indication, Over Temperature and safe plugs and sockets Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	
14	<p>Vertical Electrophoresis Assembly (Large) with Power Pack Vertical Electrophoresis Kit: Electrophoresis Equipment Large Format Vertical. Complete Set - Including base gel running unit (electrophoresis cell 16 x 16 cm gel size), safety lid, 4 gel capacity, includes four spacers, glass plates, sandwich clamps, casting stand, upper buffer dam, alignment card with leveling bubble Combs sizes: 10, 12, 15 ,20 Combs (other to be quoted as option) Large format vertical electrophoresis cell, 16 x 16 cm gel size, 4 gel capacity, includes four spacers, two combs, glass plates, sandwich clamps, casting stand, upper buffer dam, alignment card with leveling bubble and power pack , Power Supply: • Power Supply suitable for vertical gel electrophoresis, , • Constant voltage and constant current modes , • Output Voltage: Adjustable from 0/5/10V to 500V/600V with an increment of 1 V or less , • Output Current: up to 800/1000 mA with increment of 1 mA , • Output power : 300W or more , • Terminals/ Sockets : 4 Pairs/4 , Safety: All necessary safety provisions like Over load, No load, Sudden change in load, power failure indication, Over Temperature and safe plugs and sockets Equipumnt should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 No
15	<p>Flourescence Microscope Trinocular Research Optical Fluorescence Microscope with ergonomic design, For bright filed, dark field and fluorescent imaging with camera, Image analysis software and Dust cover, Light source 1) 30 W; 12 V Halogen lamp or higher for bright / dark field imaging With additional 1 lamp or 3 W LED/ Neo LED or higher for bright / dark field imaging (equivalent to 30 w halogen lamp) 2) 100 W/ 120 W /130 W Mercury lamps for fluorescent imaging with fiber optics cable with lifetime of 2000-2500 hours Lenses: Apo chromatic or semi apo chromatic With anti glaring/ antifungal/ antimicrobial coatings Wide field Eyepiece adjustable positions as well as focusing: 10X eye piece Optional: 20 X eye piece Objectives For transmitted-light applications: Objective turret with 6x BF For Std. fluorescence applications: Objective turret with 3x DIC/3x BF Std. interface for HBO 50, HBO 100 HXP 120, Colibri</p>	01 No

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>LED fluorescence applications: Inte-grated illumination Different LED modules Synchronized switching with the reflector For Refelcted light: Standard inter-face for HAL 100 or HBO, DF Switchable diffuser Slot for polarizer slider Stage: X – Y movement (mechanical stage) Preferred separate X – Y movement Optional Automatic X – Y movement Preferred separate X – Y movement With independent course and fine adjustment for very fine focusing Fluorescent Filters: Minimum 4-5 filter position or slot; with neutral density filter to control the fluorescence intensity UV filter (excitation range 330/340 nm to 400 nm) and Optional 1) Green filter (excitation; kindly mention the excitation and emission range) 2) Red filter (excitation; kindly mention the excitation and emission range) 3) UV filter (excitation range 250 to 300 nm) 4) Blue filter (excitation; kindly mention the excitation and emission range) 5) triple channel filter Phase Contrast (optional) Condenser should be compatible for phase contrast imaging Phase contrast optics 20 x phase contrast Optional 40 x phase contrast Camera; • High sensitive and high resolution CCD Color camera with peltier cooling with minimum of 5 mega pixel or more The camera speed should be in the range of 4 to 4.5 fbs minimum And 23-33 fbs maximum • Kindly provide the details of speed etc Resolution: near to 2500 to 2000 or more Image Analysis Software: Detailed calibration; measurement size, shape, position, height, orientation and intensity etc Analysis tools including statistics, histograms etc Saving options: tiff, jpeg, bmp, JPG and Data saving: word/ excel/ notepad etc. The complete manual for microscope as well as for software should be provided along with microscope 2. Basic tool to repair it or fixing the attachment etc must be provided. 3. Complete drawing of installation as well needed information for repair or maintenance manual should be provided Notes: a) PREFERRED: Microscope, camera and software should be from a single manufacture along with uptodate computing system b) The selection will be strictly on the basis of technical data sheet. Minimum 5- 10 samples will be analyzed on the quoted model. The supplier has to use the same quoted model for demonstration; in case of discrepancy the same will be rejected without assigning any reasons. If the obtained results during demonstration are not persistent with the supplied instrument, the same will be rejected. Equipment should have USA FDA / CE / JIS.</p>	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	Origin: Europe / UK / USA / Japan	
16	<p>Liquid Nitrogen Tank Nitrogen Capacity: 50 liters, Neck diameter: 125mm, Outer diameter: 19.7 inches, Height: 31.7 inches, Static evaporation: 0.388L/d Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 No
17	<p>Drying Oven for Heat Sterilization • For the sterilization of instruments and equipment that cannot withstand steam sterilization., • Temp range: 50 to 250o C, • Temp variation: Not greater than 4o C over 60 minutes, • Temp fluctuation: Not greater than 0.3o C over 30 minutes, • Temp drift: Not greater than 1o C over 2 hours, • Temp reproducibility: 1o C, • Temp overshoot: Not greater than 1o C, • Capacity: Not less than 60 liters, • Shelves: 2 off stainless steel construction, tip proof type, • Interior construction: Stainless steel, • Exterior construction: Rust proof steel, Features, • Control panel shall be located for easy vision., • Door shall be strongly secured against a rubber seal by a self-locating door catch. • Sterilizer temperature shall be controlled by a solid state thermostat. Push button, digital, temperature setting shall indicate the set temperature. , • Unit shall be supplied with secondary over-temperature cut-out for protection in the event of main thermostat failure to comply with HTM2010, • Door should remain locked till cycle complete indication comes on with safe handling temperature. , • Should record complete cycle, • The control panel shall be fitted with a mains failure-indicating lamp., • Process timer shall be adjustable to suit individual sterilization periods. Timing shall start when the heaters start to cycle near to the set temperature. Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 No
18	<p>French Press French press Homogenizer • Capacity : Up to 24 x 2mL, • Operating temperature : 4°C to 30°C, • Required for, • Dry grinding • Micronisation, • Homogenization from fresh or snap-frozen tissues, • Lysis of micro-organisms, • Dissociation of living bacteria Optional: Cooling module for protection of temperature sensitive molecules throughout the entire homogenization process. Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 No
19	<p>Electroporator • Micropulser Electroporator, • High-voltage 3,000 V with 200–3,000 V range, • Operating temperature: 3.5–35°C, • Complete with Sterile Electroporation Cuvettes x 10 Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 No
20	<p>Microplate Reader with Washer Multi Label Plate Reader:• Wavelength range: 200-1000 nm, • 2 °C to 50 °C , • Plate format: 1- to 3-well, • Shaking: linear, orbital, dual wave length, orbital, • •Microplate Reader with washer: • Multimode reader for all common assay types on 96,384 well plates. • Detection: Absorbance/Calorimetric, Luminescence, Fluorescence, UV/VIS Absorbance, • Compact in size • With respective software and computer Microplate washer: • Suitable for ELISA / Cell-based assays (model dependent) / Magnetic bead, polystyrene bead (Multiplex assays, Bead-based ELISA) / Filtration-to-waste processes •</p>	01 No

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>Fast and reliable plate washing; Low noise; automatic rinse setting to prevent clogging • Capacity: Up to three reagent dispensers with choice of either peristaltic pump or syringe drive technologies for different assay requirements • Applications: Washing, Dispensing and Aspirating; High throughput • Stand-alone wash and aspiration unit; Up to 6 wash cycles (fill and aspirate) per pass• Coaxial wash/aspirate • Gentle and complete aspiration of each well • Universal logic interface compatible with all Moduline Systems dispensers• Plate Formats: 96 and 384 well plates • Performance: Precision : +5% RSD (0.9% NaCl W/v) Manifold Channels: 8x12 / 1 x 32 / 4 x 32 or comparable • Residual Volume>1µL residual • Wash Volume: Up to 3000uL; Selectable in 1 µL increments • Soak time- In plate mode: 0-60 min per 1 sec interval • In strip mode: 0-16 min per 1 sec interval • Operating programs (about 50 programs storage for different plate types), self contained – no external computer required Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	
21	<p>IEF System and Accessories (for 2D Electroporesis) IEF System basic unit 240VAC including: • Basic unit , • Cable,, • Control software with accessories , • Electrode assemblies , • Sample cups, • Sample cup insertion tool, • Electrode wicks, • Paper bridge pads , • Spirit level , • Manifold trays (7 cm, 11 cm, 13 cm focusing trays) , • Pairs of forceps , • Mineral oil, • Cleaning brushes , • Cleaning solution , • IPG buffer Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 No
22	<p>Western Blotting (wet Transfer equipment) Accommodate 2 mini-format gels transfer up to two mini gels (10 x 7.5 cm) in an hour , complete unit with tank, sandwich plates, at least 10 sponges, and 2 sealed ice block Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 No
23	<p>Orbital Shaker Bench top, speed 15-200rpm or above 200rpm, flat platform, attachment option for tube, vials, flask and microplate, allows digital time & speed control preferably programmable Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 No
24	<p>Off-Gas Analyser (for fermentation) Capability of connecting to preferably multiple bioreactors with software f and a suitable computing system or visualization, • Measurement Range CO2: 0 -20%, O2: 0-100%, • Resolution 0.01% for both, • Accuracy +/-2%, • Response Rate less than 50 Sec for CO2. Less than 20 Sec for O2 Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	02 Nos
25	<p>Fast Protein Liquid Chromatography Laboratory to pilot scale, Flow rate 0.01ml/mint to 150ml/min, fraction collector, columns, accessories, spares, complete functional system with software and computing system Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 No
26	<p>Quantitative PCR (Real-time PCR) An automated sequence detection system for a high throughput continuous detection and</p>	01 No

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>quantitation of nucleic acid sequences by real-time PCR technique using in-built Peltier based thermal cycler. With a simplified workflow, intuitive software, it should offer exceptional reproducibility with minimal well-to-well variation. , 2. Real-time amplification for measuring nucleic acids from purified samples using 96 and 384 well plates with 96 and 384 interchangeable block. , 3. Should accommodate the interchange of a , 96-well, 96-well Fast, 384-well, or TaqMan array card block, 4. Measurement mode - Real-time measurement, on-line continuous display of readings during the run. , 5. The system should be fully compatible with the full range of TaqMan assays including MicroRNA assays, Long Non-coding RNA assays, and Pri-miRNA assays. , 6. The System should offer latest optics and technology providing enhanced fluorescence detection enabling accurate and sensitive data analysis. , 7. The system should complete 40 cycle real time PCR reaction using furogenic 5 nuclease assay and fast chemistries in a standard 384 well plate under 35 minutes. Instrument should also run in standard ramping mode with standard chemistry. , 8. Sensitivity: Demonstrated down to 1 copy. , 9. Resolution: Should detect as little as 1.5-fold changes in target quantities in single-plex reaction. , 10. Upto Six decoupled excitation and emission filter channels for the greatest number of dye combinations and maximum multiplexing capabilities. , Excitation & Detection wavelengths: 6 excitation (450□670 nm) and 6 emission (500□720 nm) filter sets to enable collection of up to 21 unique combinations of wavelengths during a single run for multiplexing. Calibrated dyes at installation should be FAM, SYBR, SYTO9, Fluorescein, SYPRO, JOE, TET, HEX, TAMRA, NED, BODIPY, TMRX, ROX, Texas Red, LIZ, Alexa fluor, Joda4. , 11. Should support following blocks and volumes: , Peak Block Ramp Rate: 3.0°C/sec 384-well plate , Sample Ramp Rate: ± 1.6°C/sec, System memory: USB and On-board, Temperature range: 0 to 100 Centigrade, Temperature accuracy: ±0.25°C (35°C to 99.9°C), Temperature uniformity: <0.5 °C (20 sec after reaching 95 °C), Any other block options should be also included. All blocks should be easily , changeable by the user. , 12. Full compatibility with any standard or fast-cycling 384- or 96-well plates and reagents. , 13. The vendor should provide readymade and validated TaqMan primer probe assays for different genes in human, mouse, rat etc. in 384 well preloaded ready to use format to validate microarray hits quickly and economically. , 14. Optimum reaction volumes for each application □ 5 to 100 µl. The vendor should specify minimum working volume if lower than 5 µl. Preference would be given to those platforms that minimize reaction volumes to 2 µl or less. , 15. The manufacturer should be able to provide a choice of ready-made assay kits or ready-to-make assay kits for Gene Expression as well as SNP analysis. , 16. The vendor should provide comprehensive training on the operation of the instrument, chemistry options and software. This training should be provided free of cost. , 17. Any other additional protocol/accessory that would facilitate high-throughput analysis of gene expression especially using the TaqMan chemistry should be included. , A business line PC Workstation and software (including offline analysis) should be provided with the system. However, a stand-alone instrument (such as built-in touch screen that provides one touch protocols for fast and easy assay setup for broad range of applications) would be preferred. Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	
27	<p>Class II Biosafety Cabinets Maximum operator, product and environment protection to fulfil the following requirement:, • Negative pressure plenum, • Divided table top, • Ergonomically correct front, • Trough made of stainless steel, • Transparent side of safety glass operated for 3 valves in both sides, • Hepa filter with efficiency of min. 99.999% against particles of 0.3µm, • Low noise level, • Light intensity > 1400 lux, • Slipping sash window of glass</p>	01 No

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Qty.
	<p>electric hoisting, • Electric outlets, placed at right and left sides, • Microprocessor controller with velocity indicator, • Visual and acoustic alarms warning if any safety parameters are incorrect, • Key switch, • Fitted with UV light sterilisation lamp, • 1 Gas valve, • Flock filter for fan protection, • Working surface 6’</p> <p>Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	
28	<p>Shaking Incubator Temperature controlled with refrigeration.(20 C below ambient to 70 C temperature). Minimum dimensions (WNDXH)=62x75x82cm with time & programmable, 25rpm to 400rpm. Preferable gas manifold with photosynthetic lighting capacity, culture drawer option Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 No
29	<p>Carbon Dioxide Shaking Incubator Fanless design , • Sealed inner/outer doors and advanced PI control to maintain temperature accuracy and uniformity , while minimizing costly gas consumption, • High temperature disinfection , • InfraRed (IR) CO2 sensor for measurement and accurate control of CO2 levels, • 25 mm access port for adding instrumentation or additional probes, • USB port for communication and external instrument logging, Removable stainless steel humidity pans, Temperature: • Range 4 °C above ambient to 50 °C, • Control ± 0.1°C, Stability ± 0.1°C at 37 °C, • Uniformity ± 0.25 °C at 37 °C (ambient temperature between 18 and 25 °C)• CO2 0.2 to 20%, • Orbit 1 in (2.5 cm), • Shaking speed 25 - 400 rpm, • Dimensions : Platform 612 x 356 mm (24 x 14 in) Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	01 No
30	<p>Multi-function UV Visible Spectrophotometer & Microplate ELISA Reader & Nano Drop DNA / RNA Quantification with Shaking & Incubation Read-out range: 0 - 4 Abs Linearity: 0 - 3 Abs, ±2% at 450 nm Accuracy: ± 1.0% or ± 0.005 Abs (0 - 2 Abs) ± 2.0 Abs (2 - 3 Abs) Precision SD: < 0.005 Abs or CV < 1% (0 - 2 Abs) CV < 2% (2- 3 Abs) Optical band pass: 2 nm Wavelength accuracy: ± 1 nm Stray light: < 0.02% at 230 nm Microplate types: 6-, 12-, 24-, 48-, 96- and 384-well plates Cuvette types: Two cuvettes for sample and reference From standard to ultramicro; glass, plastic or quartz Wavelength selection Tunable monochromator, 200-1000 nm in increments of 1 nm Light source 10 W Xenon flash lamp Detectors Photodiodes Incubator temperature range Ambient (+25°C) +4°C to 45°C Shaker Plate: linear Equipment should have USA FDA / CE / JIS. Origin: Europe / UK / USA / Japan</p>	

SPECIAL NOTE:

- i. 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.
- ii. The above specifications are only for widest possible competition and not for favor any single contractor or supplier nor put others at a disadvantage. However, the brand name, catalogue No. / Name etc. has only been used for the reference purpose. Goods offered “AT LEAST EQUIVALENT” to requisite specifications shall also be considered.
- iii. Equipment must be quoted with all the standard accessories.
- iv. Quoted equipment should be of latest Model
- 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. Goods must be comply to the GMP & WHO standards. Bidder must provide procedures and services for DQ, IQ, OQ and PQ (if applicable).
- viii. All site specific work to be required in the system viz. Lead Glass/special antistatic flooring, environment control/radiation protection must be quoted separately.
- ix. The bidder shall separately quote the price of service contract inclusive of parts as well as excluding the parts for 5 years (minimum) in term of %age for total contract value.

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

To: The Dow University of Health Sciences
Karachi.

WHEREAS **[name of the Manufacturer]** who are established and reputable Manufacturers of **[name and /or description of the goods]** having factories at **[address of factory]** do hereby authorize **[name and address of Bidder / Agent]** to submit a bid, and subsequently follow-up / negotiate and sign the Contract with you against Invitation for Bids (IFB) / Tender Notice for the goods manufactured, by us, under the patent name of for performance of the contract.

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

[Signature for and on behalf of Manufacturer]

Note:

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

3. CONTRACT FORM

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

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

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

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

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

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

4. The Procuring agency hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

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

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

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

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	Rate Per Unit with Taxes / Duties etc.	Total Price Including Taxes
1	2	3	4	5	6	7	8	9	10
Total Amount in Pak Rs. Including Taxes & Duties									

Name _____

In the capacity of _____

Signed _____

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

Date _____

NOTE:

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 / CNF/ C&F / CPT 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	Currency	Rate Per Unit	Total Price
1	2	3	4	5	6	7	8	9	10	11
Total Amount in Foreign Currency										

Name _____

In the capacity of _____

Signed _____

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

Date _____

NOTE:

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