

**DOW UNIVERSITY OF HEALTH SCIENCES,
KARACHI**



Bidding Documents

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

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**RENOVATION WORK FOR NEW AMPOULE
AND BIOTECH SECTION, AT DOW
INSTITUTE OF LIFE SCIENCES (D.I.L.S) ON
TURNKEY BASIS**

**OFFICE OF THE DIRECTOR WORKS & SERVICES
DOW UNIVERSITY OF HEALTH SCIENCES,
BABA-E-URDU ROAD, BESIDES CIVIL HOSPITAL,
KARACHI**

Table of Contents – Part One

Part One - Section I - Instructions to Bidders	3
Table of Clauses.....	4
Part One - Section II- General Conditions of Contract.....	16
Table of Clauses.....	17

PART ONE - SECTION I

INSTRUCTIONS TO BIDDERS

Table of Clauses

	Instructions to Bidders	
A.	Introduction	5
1.	Source of Funds	5
2.	Eligible Bidders	5
3.	Eligible Goods and Services	5
4.	Cost of Bidding	6
B.	The Bidding Documents	6
5.	Content of Bidding Documents	6
6.	Clarification of Bidding Documents	6
7.	Amendment of Bidding Documents	6
C.	Preparation of Bids	7
8.	Language of Bid	7
9.	Documents Comprising the Bid	7
10.	Bid Form	7
11.	Bid Prices	7
12.	Bid Currencies	8
13.	Documents Establishing Bidder's Eligibility and Qualification	8
14.	Documents Establishing Goods' Eligibility and Conformity to Bidding Documents	9
15.	Bid Security	9
16.	Period of Validity of Bids	10
17.	Format and Signing of Bid	10
D.	Submission of Bids	11
18.	Sealing and Marking of Bids	11
19.	Deadline for Submission of Bids	11
20.	Late Bids	11
21.	Modification and Withdrawal of Bids	11
E.	Opening and Evaluation of Bids	12
22.	Opening of Bids by the Procuring agency	12
23.	Clarification of Bids	12
24.	Preliminary Examination	12
25.	Evaluation and Comparison of Bids	13
26.	Contacting the Procuring agency	14
F.	Award of Contract	14
27.	Post-qualification	14
28.	Award Criteria	14
29.	Procuring agency's Right to Vary Quantities at Time of Award	15
30.	Procuring agency's Right to Accept any Bid and to Reject any or All Bids	16
31.	Notification of Award	16
32.	Signing of Contract	16
33.	Performance Security	16
34.	Corrupt or Fraudulent Practices	16

Instructions to Bidders

Introduction

1. Source of Funds

The Procuring agency has arranged funds from University Development Working Party (UDWP) and it is intended that part of the proceeds of this will be applied to eligible payments under the Contract for which these Bidding Documents are issued.

2. Eligible Bidders

- 2.1 This Invitation for Bids is open to all suppliers from eligible source as defined in the SPP Rules, 2010 (Amended upto date) and its Bidding Documents except as provided hereinafter.
- 2.2 Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring agency to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation for Bids.
- 2.3 Government-owned enterprises in the Province of Sindh may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the Government of Sindh.
- 2.4 Bidders shall not be eligible to bid if they are under a declaration of ineligibility for corrupt and fraudulent practices issued by the any government organization in accordance with sub clause 34.1.

3. Eligible Goods and Services

- 3.1 All goods and related services to be supplied under the contract shall have their origin in eligible source countries, defined in the SPP Rules, 2010 (Amended upto date) and its Bidding Documents, and all expenditures made under the contract will be limited to such goods and services.
- 3.2 For purposes of this clause, “origin” means the place where the goods are mined, grown, or produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially-recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 3.3 The origin of goods and services is distinct from the nationality of the Bidder.

4. Cost of Bidding

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

The Bidding Documents

5. Content of Bidding Documents

- 5.1 the bidding documents include:
 - (a) Instructions to Bidders (ITB)
 - (b) Bid Data Sheet
 - (c) General Conditions of Contract (GCC) (d) Special Conditions of Contract (SCC) (e) Schedule of Requirements
 - (f) Technical Specifications
 - (g) Bid Form and Price Schedules (h) Bid Security Form
 - (i) Contract Form
 - (j) Performance Security Form
 - (k) Manufacturer's Authorization Form
- 5.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in the rejection of its bid.

6. Clarification of Bidding Documents

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

7. Amendment of Bidding Documents

- 7.1 At any time prior to the deadline for submission of bids, the Procuring agency, for any reason, whether at its own initiative or in response to a clarification requested by a interested Bidder, may modify the bidding documents by amendment.
- 7.2 All interested bidders that have received online EPADS the bidding documents will be notified of the amendment in writing, and will be binding on them.
- 7.3 In order to allow interested bidders reasonable time in which to take the amendment into account in preparing their bids, the Procuring agency, at its discretion, may extend the deadline for the submission of bids.

Preparation of Bids

8. Language of Bid

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

9. Documents Comprising the Bid

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

10. Bid Form

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

11. Bid Prices

11.1 The Bidder shall indicate on the appropriate Price Schedule the unit prices (where applicable) and total bid price of the goods it proposes to supply under the contract.

11.2 **For goods offered within the purchaser's country**, prices indicated on the relevant Price Schedule shall be on delivered duty paid (DDP) and/or **For goods offered from outside the purchaser's country**, prices indicated on the relevant Price Schedule shall be on CFR / CNF / C&F / CPT – Karachi basis. The price of other (incidental) services, if any, listed in the Bid Data Sheet will be entered separately

11.3 The Bidder's separation of price components in accordance with ITB Clause 11.2 above will be solely for the purpose of facilitating the comparison of bids by the Procuring agency and will not in any way limit the Procuring agency's right to contract on any of the terms offered.

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

quoted by the Bidder shall be subject to adjustment during the performance of the contract, a bid submitted with a fixed price quotation will not be rejected, but the price adjustment would be treated as zero.

12. Bid Currencies

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

13. Documents Establishing Bidder's Eligibility and Qualification

13.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted.

13.2 The documentary evidence of the Bidder's eligibility to bid shall establish to the Procuring agency's satisfaction that the Bidder, at the time of submission of its bid on EPADS, is from an eligible country as defined under ITB Clause 2.

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

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

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

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

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

14.3 The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings, and data, and shall consist of:

- 14.3.1 a detailed description of the essential technical and performance characteristics of the goods;
- 14.3.2 a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period to be specified in the Bid Data Sheet, following commencement of the use of the goods by the Procuring agency; and
- 14.3.3 an item-by-item commentary on the Procuring agency's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.

14.4 For purposes of the commentary to be furnished pursuant to ITB Clause 14.3(c) above, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring agency in its Technical Specifications, are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in its bid, provided that it demonstrates to the Procuring agency's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

15. Bid Security

15.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, a bid security in the amount specified in the Bid Data Sheet.

15.2 The bid security is required to protect the Procuring agency against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to ITB Clause 15.7.

15.3 The bid security shall be in Pak. Rupees and shall be in one of the following forms:

- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring agency's country, in the form provided in the bidding documents or another form acceptable to the Procuring agency and valid for thirty (30) days beyond the validity of the bid; or
- (b) irrevocable encashable on-demand Bank call-deposit.

15.4 Any bid not secured in accordance with ITB Clauses 15.1 and 15.3 will be rejected by the Procuring agency as nonresponsive, pursuant to ITB Clause 24.

15.5 Unsuccessful bidders' bid security will be discharged or returned as promptly

as possible but not later than thirty (30) days after the expiration of the period of bid validity prescribed by the Procuring agency pursuant to ITB Clause 16.

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

16. Period of Validity of Bids

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

17. Format and Signing of Bid

- 17.1 All appendices to Bid are to be properly completed and signed and stamped.
- 17.2 Any interlineations, erasures, or overwriting shall be valid only if they are initialed by the person or persons signing the bid.
- 17.3 The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.

18. Submission of Bids

- 18.1 Bids must be submitted online through EPADS.

19. Deadline for Submission of Bids

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

20. Late Bids

Any bid which has not uploaded on EPADS within the deadline for e-submission shall not be accepted.

21. Modification and Withdrawal of Bids

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

Opening and Evaluation of Bids

22. Opening of Bids by the Procuring agency

Procuring agency will open the bids Online through EPADS at <https://eprocure.gov.pk/>,

23. Clarification of Bids

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

24. Preliminary Examination

- 24.1 The Procuring agency will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
- 24.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Supplier does not accept the correction of the errors, its bid will be rejected, and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail.
- 24.3 The Procuring agency may waive any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

24.4 Prior to the detailed evaluation, pursuant to ITB Clause 25 the Procuring agency will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, **such as** those concerning Bid Security (ITB Clause 15), Applicable Law (GCC Clause 30), and Taxes and Duties (GCC Clause 32), will be deemed to be a material deviation. The Procuring agency's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

24.5 Conditional Bids, Telegraphic Bids, Bids not accompanied by Bid Security of required amount and form, bids received after specific date and time and bids of Black Listed firms shall be treated as rejected / non-responsive.

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

25. Evaluation and Comparison of Bids

25.1 The Procuring agency will evaluate and compare the bids which have been determined to be substantially responsive, pursuant to ITB Clause 24.

25.2 The Procuring agency's evaluation of a bid will be on delivered duty paid (DDP) price inclusive of prevailing taxes and duties and/or on CFR / CNF / C&F / CPT – Karachi basis and will exclude any allowance for price adjustment during the period of execution of the contract, if provided in the bid.

25.3 The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with ITB Clause 11.2, one or more of the following factors as specified in the Bid Data Sheet, and quantified in ITB Clause 25.4:

- (a) incidental costs
- (b) delivery schedule offered in the bid;
- (c) deviations in payment schedule from that specified in the Special Conditions of Contract;
- (d) the cost of components, mandatory spare parts, and service;
- (e) the availability Procuring agency of spare parts and after- sales services for the equipment offered in the bid;
- (f) the projected operating and maintenance costs during the life of the equipment;
- (g) the performance and productivity of the equipment offered; and/or (h) other specific criteria indicated in the Bid Data Sheet and/or in the Technical Specifications.

25.4 Merit Point System:
The merit point system for weighing evaluation factors shall be applied as specified in the Bid Data Sheet.

26. Contacting the Procuring agency

26.1 Subject to ITB Clause 23, no Bidder shall contact the Procuring agency on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Procuring agency, it should do so in writing.

26.2 Any effort by a Bidder to influence the Procuring agency in its decisions on bid evaluation, bid comparison, or contract award may result in the rejection of the Bidder's bid.

AWARD OF CONTRACT

27. Post-qualification

27.1 In the absence of prequalification, the Procuring agency will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB Clause 13.3.

27.2 The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 13.3, as well as such other information as the Procuring agency deems necessary and appropriate.

27.3 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event the Procuring agency will proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.

28. Award Criteria

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

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

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

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

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

31. Notification of Award

31.1 Prior to the expiration of the period of bid validity, the Procuring agency will notify the successful Bidder in writing by registered letter or by cable, to be confirmed in writing by registered letter, that its bid has been accepted.

31.2 The notification of award will constitute the formation of the Contract.

31.3 Upon the successful Bidder's furnishing of the performance security pursuant to ITB Clause 33, the Procuring agency will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 15.

32. Signing of Contract

32.1 At the same time as the Procuring agency notifies the successful Bidder that its bid has been accepted, the Procuring agency will send the Bidder the Contract Form provided in the bidding documents, incorporating all agreements between the parties.

32.2 Within thirty (30) days of receipt of the Contract Form, the successful Bidder shall sign and date the contract and return it to the Procuring agency.

33. Performance Security

33.1 Within twenty (20) days of the receipt of notification of award from the Procuring agency, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract, in the Performance Security Form provided in the bidding documents, or in another form acceptable to the Procuring agency.

33.2 Failure of the successful Bidder to comply with the requirement of ITB Clause 32 or ITB Clause 33.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the Procuring agency may make the award to the next lowest evaluated Bidder or call for new bids.

34. Corrupt or Fraudulent Practices

34.1 The Government of Sindh requires that Procuring agency's (including beneficiaries of donor agencies' loans), as well as Bidders/Suppliers/Contractors under Government-financed or Procuring Agency-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the SPPRA, in accordance with the SPP Act, 2009 and Rules made thereunder:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

- (i) “corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
- (ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring agency, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non- competitive levels and to deprive the Procuring agency of the benefits of free and open competition;

(b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

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

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

PART ONE - SECTION II

GENERAL CONDITIONS OF CONTRACT

Table of Clauses

1.	Definitions	20
2.	Application	20
3.	Country of origin	20
4.	Technical Specifications	21
5.	Use of contract documents and information; inspection and audit by the bank	21
6.	Patent Rights	21
7.	Performance Security	21
8.	Inspections and tests	22
9.	Packing	22
10.	Delivery and Documents	23
11.	Insurance	23
12.	Transportation	23
13.	Incidental Services	23
14.	Spare Parts	24
15.	Warranty	24
16.	Payment	25
17.	Prices	26
18.	Change Orders	26
19.	Contract Amendments	26
20.	Assignment	26
21.	Subcontracts	26
22.	Delays in the Supplier's Performance	26
23.	Liquidated Damages	27
24.	Termination for Default	27
25.	Force Majeure	28
26.	Termination for Insolvency	28
27.	Termination for Convenience	28
28.	Resolution of Disputes	29
29.	Governing Language	29
30.	Applicable Law	29
31.	Notices	29
32.	Taxes and Duties	30

General Conditions of Contract

1. Definitions

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

- (a) “The Contract” means the agreement entered into between the Procuring agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- (b) “The Contract Price” means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.
- (c) “The Goods” means all of the equipment, machinery, and/or other materials which the Supplier is required to supply to the Procuring agency under the Contract.
- (d) “The Services” means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.
- (e) “GCC” means the General Conditions of Contract contained in this section.
- (f) “SCC” means the Special Conditions of Contract.
- (g) “The Procuring agency” means the organization purchasing the Goods, as named in SCC.
- (h) “The Procuring agency’s country” is the country named in SCC.
- (i) “The Supplier” means the individual or firm supplying the Goods and Services under this Contract.
- (j) “The Project Site,” where applicable, means the place or places named in SCC.
- (k) “Day” means calendar day.
- (l) Joint Venture not allowed

2. Application

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

3. Country of Origin

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

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

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

4. Technical Specifications

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

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

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

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

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

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

6. Patent Rights

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

7. Performance Security

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

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

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

- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring agency's country, in the form provided in the bidding documents or another form acceptable to the Procuring agency; or
- (b) a cashier's or certified check.

7.4 The performance security will be discharged by the Procuring agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in SCC.

8. Inspections and Tests

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

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

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

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

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

9. Packing

9.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the Procuring agency.

10. Delivery and Documents

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

11. Insurance

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

12. Transportation

12.1 The Supplier is required under the Contract to transport the Goods to a specified place of destination outside and within the Procuring agency's country, transport to such place of destination in the Procuring agency's country, including insurance and storage, as shall be specified in the Contract, shall be arranged by the Supplier, and related costs shall be included in the Contract Price.

13. Incidental Services

13.1 The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

- (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;
- (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
- (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
- (e) training of the Procuring agency's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

13.2 Prices charged by the Supplier for incidental services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged for other parties by the Supplier for similar services.

14. Spare Parts

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

(a) such spare parts as the Procuring agency may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under the Contract; and

(b) in the event of termination of production of the spare parts:

(i) advance notification to the Procuring agency of the pending termination, in sufficient time to permit the Procuring agency to procure needed requirements; and

(ii) following such termination, furnishing at no cost to the Procuring agency, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

15.1 The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

15.2 This warranty shall remain valid for twelve (12) months or according to the requirement of extended warranty period after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract. In any case this period shall not exceed six (06) months beyond the warranty expiration period from the date of taking over of goods by the procuring agency, unless specified otherwise in SCC.

15.3 The Procuring agency shall promptly notify the Supplier in writing of any claims arising under this warranty.

15.4 Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring agency.

15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period

15.5 If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, within a reasonable period, the Procuring agency may proceed to take such remedial action as may be necessary, at the

Supplier's risk and expense and without prejudice to any other rights which the Procuring agency may have against the Supplier under the Contract.

- 15.6 The provisions of this Clause include all the expenses that the bidder may have to incur for delivery and installation of such replacement parts, material and equipment as are needed for satisfactory operation of the goods at the consignees end.
- 15.7 During the period of warranty, the bidder shall remedy, at his / her expense all defects in design, material and workmanship that may develop or are revealed under normal use of the goods upon receiving writing notice from the procuring agency; the notice shall indicate in what respect the goods are faulty.
- 15.8 The bidder shall provide warranty / guarantee for supply of reagents, kits and chemicals, consumables, films and ancillaries for at least 10 years (where applicable).
- 15.9 The bidder shall remain responsible for providing after sale services even after expiry of warranty / guarantee period and sign a Service Contract including parts or without parts with Procuring Agency for 05 years (minimum). Bidder shall separately quote the price of service contract (in terms of percentage) inclusive of parts and without parts, separately.
- 15.10 The Procuring Agency shall promptly notify the Bidder in writing of any claims arising out of this warranty.

16. Payment

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

17. Prices

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

18. Change Orders

18.1 The Procuring agency may at any time, by a written order given to the Supplier pursuant to GCC Clause 31, make changes within the general scope of the Contract in any one or more of the following:

- (a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Procuring agency;
- (b) the method of shipment or packing;
- (c) the place of delivery; and/or
- (d) the Services to be provided by the Supplier.

18.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Procuring agency's change order.

19. Contract Amendments

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

20. Assignment

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

21. Subcontracts

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

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

22. Delay in the Supplier's Performance

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

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

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

23. Liquidated Damages

23.1 Subject to GCC Clause 25, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Procuring agency may consider termination of the Contract pursuant to GCC Clause 24.

24. Termination for Default

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

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

For the purpose of this clause:

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

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

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

25. Force Majeure

- 25.1 Notwithstanding the provisions of GCC Clauses 22, 23, and 24, the Supplier shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 25.2 For purposes of this clause, “Force Majeure” means an event beyond the control of the Supplier and not involving the Supplier’s fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- 25.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

26. Termination for Insolvency

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

27. Termination for Convenience

- 27.1 The Procuring agency, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Procuring agency’s convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- 27.2 The Goods that are complete and ready for shipment within thirty (30) days after the Supplier’s receipt of notice of termination shall be accepted by the Procuring agency at the Contract terms and prices. For the remaining Goods, the Procuring agency may elect:
 - (a) to have any portion completed and delivered at the Contract terms and prices; and/or
 - (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier.

28. Resolution of disputes

- 28.1 The Procuring agency and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- 28.2 If, after thirty (30) days from the commencement of such informal negotiations, the Procuring agency and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in SCC. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed manner and/or arbitration.

29. Governing Language

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

30. Applicable Law

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

31. Notices

- 31.1 Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by cable, telex, or facsimile and confirmed in writing to the other party's address specified in SCC.
- 31.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

32. Taxes and Duties

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

**RENOVATION WORK FOR NEW AMPOULE
AND BIOTECH SECTION, AT DOW
INSTITUTE OF LIFE SCIENCES (D.I.L.S) ON
TURNKEY BASIS**

**PART TWO
(PROCUREMENT SPECIFIC PROVISIONS)**

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

Table of Contents - Part Two

SECTION I.	INVITATIONS FOR BIDS	33
SECTION II.	BID DATA SHEET	35
SECTION III.	SPECIAL CONDITIONS OF CONTRACT	42
<i>Table of Clauses</i>		43
SECTION IV.	SCHEDULE OF REQUIREMENTS	49
SECTION V.	TECHNICAL SPECIFICATIONS	51
SECTION VI.	SAMPLE FORMS	58

PART TWO - SECTION I.

INVITATION FOR BIDS

INVITATION FOR BIDS (IFB)



OFFICE OF THE DIRECTOR WORKS & SERVICES DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI.

Baba-e-Urdu Road, Karachi. Direct No. 92-21- 99216065

Website: www.duhs.edu.pk E-mail: rahim.khan@duhs.edu.pk

NIT No. DUHS/W&S/2026/1645

Dated: 5th January, 2025

TENDER NOTICE

Dow University of Health Sciences (DUHS), Karachi is a Public Sector University that invites e-bids through E-Pak Acquisition & Disposable System (EPADS) from well-reputed Companies / Bidders / firms having registration with the Federal Board of Revenue (FBR), Income Tax Department, Sindh Revenue Service Board and Sales Tax.

S. NO:	DESCRIPTION	METHOD OF PROCUREMENT
1.	RENOVATION WORK FOR NEW AMPOULE AND BIOTECH SECTION AT DOW INSTITUTE OF LIFE SCIENCES (D.I.L.S) ON TURNKEY BASIS. (REF.NO.DUHS/W&S-NIT/191)	Single Stage – Two Envelope Procedure as per rule 46 sub rule-2 of SPP Rules 2010 (Amended upto date)
Estimated Cost	PKR. 396.50 Million	
Tender Fee	Rs. 5,000/- (Rupees Five Thousand Only) Non-Refundable in shape of Pay Order / Demand Draft in favor of Dow University of Health Sciences, Karachi.	
Security	Bid Security and Performance Security as mentioned in the bidding document.	

E-Bidding documents as per detailed terms and conditions, specifications and requirements are available for the registered bidders on Sindh Public Procurement Regulatory Authority's EPADS at <https://portalsindh.eprocure.gov.pk/> and University website <https://duhs.edu.pk> on the payment noted above (non-refundable) on any working day except the day of opening of tenders.

The electronics bids must be submitted using EPADS before closing time **26-01-2026** at **10:00 Hrs**. Manual bids, shall not be accepted. Electronic Bids will be opened on **26-01-2026** at **11:30 Hrs**. For any query related to e-bidding, please Contact to the facilitator / Coordinator, Procurement Committee Services at Admin Block 5th floor DMC Campus, Baba-e-Urdu Road near Civil Hospital Karachi, Phone No. 021-38771000 (Ext. 5814 / 5820 /5907).The tender fee (non-refundable) and bid security (refundable) shall be submitted in the form of a Pay Order / Demand Draft / Bank Guarantee issued by a Scheduled Bank of Pakistan in favor of Dow University of Health Sciences, Karachi and must be delivered to the above-mentioned office of the Facilitator / Coordinator, Procurement Committee at the same address.

In case of any unforeseen situation resulting in the closure of the office on the date of opening or if Government declares Holiday the tenders shall be submitted/opened online on the next working day at the same time. The Procuring Agency reserves the right to reject any or all bids subject to relevant provisions of SPP Rules, 2010 (Amended up to date) and may cancel the bidding process at any time prior to the acceptance of a bid or proposal under "Rule-25" of said Rules. In case of any ambiguity in between NIT and tender document, tender will be considered as senior.

DIRECTOR

**Works & Services
Dow University of Health Sciences, Karachi**

SECTION II.
BID DATA SHEET

BID DATA SHEET

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

Introduction	
ITB 1.1	Name of Procuring Agency: Dow University of Health Sciences, Karachi (DUHS)
ITB 1.1	Name of Project/Scheme: Renovation Work for New Ampoule and Biotech Section at Dow Institute of Life Sciences (D.I.L.S) on Turnkey Basis
ITB 1.1	Name of Contract: Renovation Work for New Ampoule and Biotech Section, The bid shall be evaluated / compared on turnkey basis exclusively. Bids submitted for individual / limited / partial item(s) shall not be considered and rejected.
ITB 6.1	Postal Address: Office of the Director Works & Services (DMC Campus), Baba-e-Urdi Road, Near Civil Hospital, Karachi. Phone No: + 92-21-38771000 (Ext. 5814), Email: rahim.khan@duhs.edu.pk
ITB 8.1	Language of the bid shall be ENGLISH.

Bid Price and Currency	
ITB 11.2	The price quoted shall be in Pakistani Rupee for the Goods offered within the Procuring Agency's Country on delivered duty paid (DDP) Price. The price quoted shall be in foreign Currency for the Goods offered from Outside the Procuring Agency's Country on CFR / CNF/ C&F / CPT Karachi Basis Price of incidental services, if any, must be included in price of goods
ITB 11.4	The price shall be fixed during the contract period.
ITB 12.1	For the Goods offered within the Procuring Agency's Country: the price quoted shall be in Pak Rupees on delivered duty paid (DDP) basis. For the Goods offered from Outside the Procuring Agency's Country: the price quoted shall be in Foreign Currency on CFR / CNF/ C&F / CPT- Karachi Basis.

Preparation and Submission of Bids		
ITB 13.3 (d)	Qualification Requirements	
S#	Qualification Criteria	
1.	Compliance to the Technical Specifications	Mandatory
2.	If an Agent submits bids on behalf of more than one Manufacturer, unless each such bid is accompanied by a separate Bid Form for each bid, and a bid security, for each bid, and authorization from the respective Manufacturer, all such bids will be rejected as nonresponsive.	Mandatory
3.	Attested copy of CNIC of signatory of the Bid Forms	Mandatory
4.	Complete Bidding Document, duly signed and stamped on its each/every page as acceptance of all terms & conditions	Mandatory
5.	Compliance to bid validity period	Mandatory
6.	Compliance to payment terms and conditions	Mandatory
7.	Compliance to the delivery schedule	Mandatory
8.	Valid Sales Services Tax (SST-SRB) Registration with Active Tax payer status on SRB website (<i>for providing services</i>)	Mandatory
9.	Valid Income Tax (FBR) Registration with Active Tax Payer Status on FBR website	Mandatory
10.	Original Tender Purchase Receipt	Mandatory
11.	Electric inspector valid license must be provided	Mandatory
12.	Affidavit on stamp paper of Rs. 100/- duly notarized to the effect that: The bidder is neither blacklisted nor suspended by any National / International, including Provincial and Federal Government. Any director or owner of the bidding company is not awarded any punishment from any Court of Law. Bidder has submitted the correct and complete information is found forged / engineered / fake / bogus at any stage, the bidder may be declared as blacklisted in accordance with law and the performance guarantee and payment, if any may be forfeited.	Mandatory
13.	The Bid Form & Price Schedule(s) shall be inserted in the Financial Proposal. However, a copy of the same shall be inserted in the Technical Proposal after hiding the amount.	Mandatory
14.	Bid Security shall be inserted in the Financial Proposal. However, a copy of the same shall be inserted in the Technical Proposal.	Mandatory
15.	Technical Proposal on Bidder's Letterhead	Mandatory
16.	Catalogue / Brochures / technical data sheet (having complete technical specifications of the offered good)	Mandatory
17.	Company Profile	Mandatory
18.	Complete details of gross turn-over of at least last (3) three years, demonstrated through audited annual financial statements / income tax returns / original bank certificate.	Mandatory
19.	Experience in similar nature / magnitude of work(s) executed during the last five years: 1) At least one similar nature / magnitude of work having minimum cost of 80% of the estimated cost of the work; or 2) At least two similar nature / magnitude works each having minimum cost 50% of the estimated cost.	Mandatory

20.	Average annual gross turnover in preceding 3 years should not be less than Rs. 400 million and same shall be reflected in the Audited Accounts / Income Tax Returns.	Mandatory
21.	Firm should be PEC certified with specialized code mentioned below: CE-09, CE-10, EE-01, EE-02, EE-04	Mandatory
22.	Firm should be ISO 9001:2015 and 45001:2018 Certified	Mandatory

ITB 15.1	Amount of bid security shall be Rs. 8,000,000 (08 million) of the total bid price. <i>Amount of Performance Security not less than 5 % of the total value.</i>	
ITB 16.1	Bid validity period shall be 90 days	
ITB 17.1	Original “Financial and Technical Proposals”	
ITB 18.2 (a)	Office of the Director Works & Services (DMC Campus), Baba-e-Urdu Road, Near Civil Hospital, Karachi. Phone No: + 92-21-38771000 (Ext. 5814), Email: rahim.khan@duhs.edu.pk	
ITB 18.2 (b)	<p>Name of Project/Scheme: Renovation Work for New Ampoule and Biotech Section, at Dow Institute of Life Sciences (D.I.L.S) on Turnkey Basis.</p> <p>IFB/NIT Title: Renovation work for new Ampoule and Biotech Section, at Dow Institute of Life Sciences (D.I.L.S).</p> <p>IFB/NIT No: DUHS/W&S/2026/1645, Dated: 5th January, 2026</p>	
ITB 19.1	Deadline for bid submission: As per NIT	
ITB 22.1	Date, Time and Place of Bid opening As per NIT	

Bid Evaluation		
ITB 25.4	Criteria for bid evaluation	

Evaluation / Qualification Criteria.

1.0 Evaluation / Qualification Criteria: Based on Pass / Fail System

1.1 Bidders meeting the minimum requirements mentioned in para 1.2 besides other factors shall be considered for technical qualification. No. compromise shall be made on relevant experience and Financial Capacity of the Bidder.

The Bidder not fulfilling / submitting the below requirements shall be considered as non-responsive and be declared technically non-qualified.

- i) Valid Registration Certificate upto June 2026 with Pakistan Engineering Council in relevant category and specialized codes as mentioned in NIT.
- ii) At least one similar nature / magnitude i.e. Building work having minimum cost of 80% of the estimate cost of the work or at least two similar nature / magnitude i.e. Building works each having minimum cost 50% of the estimated cost for last five years duly supported with completion certificates. In case of joint venture experience certificate required JV Agreement copy (Notary Public Attested) for calculating proportion of shares and marking according to shares of JV.
- iii) Project of similar nature / magnitude i.e. building work 80% of the estimated cost of the work in hand,
- iv) Bio data / CV of Engineering and Technical Staff working with the firm as required and mentioned in bidding documents.
- v) Average Annual gross turnover at-least not less than equivalent cost of the annual Audit Report.
- vi) Annual audited Report form (ICAP) registered audited firm, audit report issued other than (ICAP) registered audit firms will not be accepted.
- vii) List of Machinery and equipment available with documentary evidence of its ownership / rented.
- viii) Bank statement must be provided for the last three years for each year with Bank's Manager Sign and Seal.
- ix) Registration with Income Tax Department (NTN certificates) with active status with Federal Board of Revenue.
- x) Annual Income Tax returns of last three years.
- xi) Valid Registration Certificate of Sindh Revenue Board Government of Sindh (SRB) certificate (with Active Status).
- xii) Electrical Inspector Valid License of Karachi Region must be provided.
- xiii) Valid Registration in ISO 9001:2015 & 45001:2018.
- xiv) The Bidders must be accompanied by an original Bid Security (amount mentioned in NIT) in the form of single Pay order / Demand Draft (blank should be attached with technical proposal in favour of **Dow University of Health Sciences**).
- xv) Evaluation Criteria, sub-criteria, for the evaluation of Full Technical Proposal is based on qualification.

1.2 The following weightages as detailed in 3.1 will be used in the Evaluation of the Bids for technical qualification.

S.No	Category	Maximum Points
1	Qualification of Firms	35
2	Personnel	10
3	Equipment	10
4	Past Experience / Performance	30
5	Financial	15
	Total	100

NOTE: To technically qualify bidders must obtain not less than the total specified minimum acceptable mandatory 70% Marks out of 100% and each category 1 to 4 should not be less than 50% marks. However, obtaining of minimum acceptable marks / points in category at S.No. 4 is mandatory; failing which the Bidder shall be considered technically failed and his financial bid shall be returned un-opened.

2.0 INSTRUCTION TO APPLICANT

2.1 Submission of Applications

2.1.1 The firm must have a permanent office and permanent staff, having registered mail address and an e-mail address.

Failure to demonstrate the permanency of the established office, may lead to the disqualification of the Bidder.

2.1.3 The Bidders must respond to all questions and provide complete information as advised in this document. Any lapses to provide essential information may result in disqualification of the Bidder.

2.1.4 The value of work done and other financial figures should preferably be expressed in Pak Rupees.

2.2 Qualification Criteria

2.2.1 General

Qualification will be based on the criteria given in succeeding paras regarding the Bidders relevant experience, personnel and equipment capabilities, and financial position, as demonstrated by the Bidders responses. Sub-contractors experience and resources shall not be taken into account in determining the Bidders compliance with the qualifying criteria.

2.2.2 Relevant Experience

The Bidder shall meet the following minimum criteria:-

- Successful experience as lead contractor in the execution of at least one projects of similar nature / magnitude i.e. Building work to proposed contract(s) within the last five (5) years.

2.2.3 Personnel Capabilities

The Bidder must have in his employment suitable qualified personnel as regular employees to fill the following key management and specialist positions. The Bidder must submit CVs of the below listed staff.

Sr. No.	Position	Minimum Qualification	Minimum Experience (Years)
1	Project Engineer (Civil), (Electrical), (Mechanical)	Graduate Engineer registered with PEC	15
2	Site Engineer (Civil), (Electrical), (Mechanical)	Graduate Engineer registered with PEC	15
3	Procurement / Material Engineer	Graduate	10
4	Quantity Surveyor	D.A.E. / Certificate Course	8
5	Surveyor	D.A.E. / Certificate Course	8

2.2.4 Equipment Capabilities

The Bidder should own, or have assured access to (through rented, lease, purchase agreement of other means), the following key items of equipment (Limited to only major items of equipment) in full working order, and must demonstrate that, based on known commitments, these will be available for deployment on the proposed contract of works. The Bidder must provide lists of (1) equipment owned and (2) Equipment to be hired.

Sr. No.	Equipment Type & Characteristics	Minimum Number Required
1	Welding Plant & Accessories	2 Nos.
2	Generator Min 20KVA	1 No.
3	Leveling Laser Machine	1 No.
4	Hilti 26m	1 No.
7	Glass Gripper 3-Way	1 No.
8	Aluminum Profile Cutter	1 No.
9	Mixer Machine	1 Nos.
10	Shuttering with Folding (Steel Plates / Marine Ply)	45,000 Sft.
11	Total Station	1 No.
12	Hoist	2 Nos.
14	Folding Ladders	2 Nos.
15	Earth Tester	1 No.
16	AVO Meter	1 No.

17	Megger 500 / 1000 Volts	1 No.
18	Tong Tester	1 No.

2.2.5 Financial Position

The Bidder should demonstrate that he has access to, or has available liquid assets, un-encumbered real assets, lines of credit and other financial means sufficient to meet the construction cash flow for the execution of works, Bidders commitments for other ongoing contracts shall also be considered.

2.3 Joint Venture (Not Applicable)

3.1 DETAIL EVALUATION CRITERIA

3.1.1 Qualification of Firm

		Maximum (100 Points)
		Maximum (35 Points)
3.1.1.1	Conformity to the Purchase's Specifications (Mandatory)	15
a	Fully complaint with the required specifications	15
b	Complaint with minor deviation (up to 5% subject to main function is not effected)	5
3.1.1.2	Project Reference	20
a	Pharmaceuticals / Hospital Projects	20
		Total Points 35

NOTE: Proof of assignments shall be subject to submission of completion certificate which shall be treated as a mandatory requirement, failing which the project shall not be considered for evaluation.

3.1.2 Key Personnel

Maximum (10 Points)				
Sr. No.	Position	Minimum Qualification	Minimum Experience (Years)	Points
1	Project Engineer (Civil), (Electrical), (Mechanical)	Graduate Engineer registered with PEC	15	4
2	Site Engineer (Civil), (Electrical), (Mechanical)	Graduate Engineer registered with PEC	15	3
3	Procurement / Material Engineer	Graduate	10	1
4	Quantity Surveyor	D.A.E. / Certificate Course	8	1
5	Surveyor	D.A.E. / Certificate Course	8	1

3.1.3 Equipment

Maximum (10 Points)				
Sr. No.	Equipment Type & Characteristics	Minimum Number Required	Point on Ownership	Point On Hiring
1	Welding Plant & Accessories	2 Nos.	0.5	0.25
2	Generator Min 20KVA	1 No.	1	0.5
3	Leveling Laser Machine	1 No.	0.5	0.25
4	Hilti 26m	1 No.	0.5	0.25
7	Glass Gripper 3-Way	1 No.	1	0.5
8	Aluminum Profile Cutter	1 No.	0.5	0.25
9	Mixer Machine	1 Nos.	1	0.5
10	Shuttering with Folding (Steel Plates / Marine Ply)	45,000 Sft.	1	0.5
11	Total Station	1 No.	1	0.5
12	Hoist	2 Nos.	0.5	0.25
14	Folding Ladders	2 Nos.	0.5	0.25
15	Earth Tester	1 No.	0.5	0.25
16	AVO Meter	1 No.	0.5	0.25
17	Megger 500 / 1000 Volts	1 No.	0.5	0.25
18	Tong Tester	1 No.	0.5	0.25

The Bidder must provide the list of :

- a. Equipment owned by the Bidder along with the ownership documents, if the ownership documents are not provided the equipment shall be considered as hired / rental.

3.3.4 Past Experience / Performance of Last 05 Years

		Points
3.3.4	<p>i) At least one similar nature / magnitude of work i.e. Building work having minimum cost of 80% of the estimated cost of the work or at least two similar nature / magnitude i.e. building works each having minimum cost 50% of the estimated cost for last five years duly supported with completion certificates. In case of joint venture experience certificates require JV Agreement copy (Notary Public Attested) for calculating proportion of shares and marking according to shares of JV.</p> <p>ii) Project of similar nature / magnitude i.e. building work 80% of the estimate cost of the work in hand.</p>	30

3.3.5 Financial Capability

1	Average annual gross turnover during last three (03) financial years (Audited statements of Accounts and Income Tax Return Forms must be attached as supporting documents)	Points 15
a	Below PKR 400 Millions	00
b	Above PKR 400 Millions	15

Financial Proposal Evaluation:

- i. Technically qualified / responsive / successful bidder(s) shall be eligible for Financial Proposal(s). The Financial bids shall be opened online from EPADS.
- ii. Only those Financial Proposals will be opened online / considered which are technically qualified by the Committee. Therefore, bidders are advised to upload the separate PDF files on EPADS.
- iii. Financial Bids / Proposals of Technically disqualified / rejected bidders will not be opened from EPADS and sealed envelope of their bid security shall be returned to the bidder.
- iv. Bids not accompanied by the Bid Security of required amount and form shall be rejected.
- v. Procuring Agency shall not be responsible for any erroneous calculation of taxes and all differences arising out shall be fully borne by the Successful Bidder.
- vi. For the purpose of comparison of bids quoted in different currencies, price shall be converted into Pakistani Rupees. The rate of exchange shall be the selling rate prevailing seven working days before the date of opening of the bids, as notified by the National Bank of Pakistan (NBP) / State Bank of Pakistan (SBP).
- vii. The bidders must quote the rate in figures with maximum two decimals placing.

Contract Award	
ITB 29.1	Procuring Agency reserves the right to drop any item and increase or decrease the quantity of goods originally specified in Schedule of Requirements / Technical Specifications without any change in unit price and other terms & conditions

SECTION III.
SPECIAL CONDITIONS OF CONTRACT

TABLE OF CLAUSES

1.	DEFINITIONS (GCC CLAUSE 1)	44
2.	COUNTRY OF ORIGIN (GCC CLAUSE 3)	44
3.	TECHNICAL SPECIFICATIONS (GCC CLAUSE 4)	44
4.	PERFORMANCE SECURITY (GCC CLAUSE 7)	44
5.	PACKING (GCC CLAUSE 9)	44
6.	DELIVERY AND DOCUMENTS (GCC CLAUSE 10)	44
7.	INSURANCE (GCC CLAUSE 11)	45
8.	SPARE PARTS (GCC CLAUSE 14)	45
9.	WARRANTY (GCC CLAUSE 15)	45
10.	PAYMENT (GCC CLAUSE 16)	46
11.	PRICES (GCC CLAUSE 17)	47
12.	LIQUIDATED DAMAGES (GCC CLAUSE 23)	47
13.	RESOLUTION OF DISPUTES (GCC CLAUSE 28)	47
14.	GOVERNING LANGUAGE (GCC CLAUSE 29)	47
15.	APPLICABLE LAW (GCC CLAUSE 30)	47
16.	NOTICES (GCC CLAUSE 31)	47

SPECIAL CONDITIONS OF CONTRACT

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

1. Definitions (GCC Clause 1)

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

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

[Name and Address of the Bidder]

2. Country of Origin (GCC Clause 3)

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

3. Technical Specifications (GCC Clause 4)

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

4. Performance Security (GCC Clause 7)

GCC 7.1—The amount of performance security, as a percentage of the Contract Price, shall be Five (5%) percent of the Contract Price

GCC 7.4—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 in accordance with Clause GCC 15.2.

5. Packing (GCC Clause 9)

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

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

6. Delivery and Documents (GCC Clause 10)

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

- i. Original copies of Delivery Note (Delivery Challan) (in duplicate) showing item's description, make, model, quantity as well as Lot Number, Batch Number, Registration Number, manufacturing and expiry dates (if applicable).
- ii. Original copies of the Bidder's invoices (in duplicate) showing warranty, item's description, make, model as well as Lot Number, Batch Number, Registration Number, manufacturing and expiry dates (if applicable) per unit cost, and total amount.

- iii. Original copies of the Sales Tax Invoices (where applicable) in duplicate showing item's description, quantity, per unit cost without Sales Tax, amount of Sales Tax and total amount with Sales Tax.
- iv. Manufacturer's or Bidder's warranty certificate.
- v. Inspection certificate issued by the nominated inspection committee / Bidder's factory inspection report.
- vi. Certificate of origin.

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

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

7. Insurance (GCC Clause 11)

GCC 11.1—The Goods supplied under the Contract shall be delivered duty paid (DDP) and / or **INCOTERM CFR / CNF/ C&F / CPT Karachi** under which risk is transferred to the buyer after having been delivered, hence insurance coverage is sellers responsibility. Since the Insurance is seller's responsibility they may arrange appropriate coverage.

8. Spare Parts (GCC Clause 14)

GCC 14.1—Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods. Other spare parts and components shall be supplied as promptly as possible, but in any case within one (1) months of placing the order on DDP basis and in case of import of part within two (2) months after opening the letter of credit.

9. Warranty (GCC Clause 15)

GCC 15.2—In partial modification of the provisions, the warranty period shall be twelve (12) months or as per the extended warranty period from date of acceptance of the Goods or eighteen (18) months from the date of shipment, whichever occurs earlier. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the Contract. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall, at its discretion, either:

- (a) make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with GCC 8,

or

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

GCC 15.4 & 15.5—The period for correction of defects in the warranty period is 20 days or earlier.

10. Payment (GCC Clause 16)

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

- i) ***For Good Supplied from within the Procuring Agency's Country*** (a) Payment shall be made in Pak Rupees.
 - (a) 100% of the Contract Price on complete delivery of store within thirty (30) days on submission of claim supported by acceptance certificate from procuring agency declaring Goods have been delivered and that all contracted services have been performed.
 - (b) Part Payment on Part Supply may be allowed. (d) Secured Advances shall be allowed.
 - (c) Mobilization Advance 10% of the contract project against Bank Guarantee may be allowed.
- ii) ***For Good Supplied from outside the Procuring Agency's Country***
 - (a) Payment shall be made in Foreign Currency.
 - (b) The procuring agency shall pay the Bidder, Principal or its nominated beneficiary through irrevocable letter of credit opened in favor of the bidder or its beneficiary in a bank in its country, upon submission of all the requisite documents.
 - (c) Bidder will bear the insurance charges and all the additional bank charges inside and outside the procuring agency country on account of confirmation of L/C, if he desires to establish a confirmed L/C etc.
 - (d) Advance payment through the L/C may be allowed.
- iii) ***For Construction Services Rendered on Turnkey Basis along with Equipment / Goods Supplied as a package***
 - (a) Payment shall be made in Pak Rupees.
 - (b) The procuring agency shall pay the Bidder on milestone basis which may be decided with successful bidder at the time of contract award.
 - (c) Part Payment on Part Supply / Milestone Completion may be allowed. (d) Advance payment against Bank Guarantee may be allowed.

11. Prices (GCC Clause 17)

GCC 17.1—No prices adjustment shall be allowed.

12. Liquidated Damages (GCC Clause 23)

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

13. Resolution of Disputes (GCC Clause 28)

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

In the case of a dispute between the Procuring agency and the Supplier, the dispute shall be referred to adjudication or arbitration in accordance with the laws of the Procuring agency's country.

14. Governing Language (GCC Clause 29)

GCC 29.1—The Governing Language shall be ENGLISH

15. Applicable Law (GCC Clause 30)

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

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

16. Notices (GCC Clause 31)

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

Director Works & Services
Dow University of Health Sciences (DMC Campus)
Baba-e-Urdu Road, Karachi.
Phone No. + 92-21-99216065
Email: rahim.khan@duhs.edu.pk
Supplier's address for notice purposes:

Name of Bidder: _____

Name of Contact Person & Designation: _____

Phone No. _____

Fax No. _____

Mobile Phone No. _____

Email Address _____

SECTION IV.
SCHEDULE OF REQUIREMENTS

SCHEDULE OF REQUIREMENTS

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 **08 Weeks** or earlier from the date of issuance of supply order / contract award.
- ii) The delivery period shall start from the date of contract signature.

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

- i. The shipment of the items of Stores which are to be imported shall be started as early as possible (**preferable within 24 Weeks**); the shipment schedule shall be submitted along with the offer, and shall be negotiable and subject to approval by the University.
- ii. The delivery period shall start from the date of opening of letter of credit.
- iii. The bidder must indicate in his offer the port of shipment of goods.

SECTION V.
TECHNICAL SPECIFICATIONS

GRAND SUMMARY OF COST

SR.#.	DESCRIPTION	AMOUNT (Rs.)
A	Revamping for Civil Works	
A1)	Civil Works (Cleanroom System) Total Cost in US Dollar	\$
A1)	Civil Works (Cleanroom System) Total Cost in Pak Rupees	Rs.
A2)	Cleanroom System Installation	Rs.
A3)	Misc. Civil Works	Rs.
	Total Estimated Cost of Revamping for Civil Works	Rs.
B	Electrical Works	
	Total Estimated Cost of Electrical Works	Rs.
C	Plumbing Works (Group-A)	Rs.
D	Plumbing Works (Group-B)	Rs.
	Total Estimated Cost of Plumbing Works (A+B)	Rs.
E	Utilities & Ancillary Works	Rs.
	Total Estimated Cost of Utilities & Ancillary Works	Rs.
F	Total Cost (A2, A3, B, C, D, E)	Rs.
G	Add 8% SST as per SRB on (F)	Rs.
	Total PKR (A1 + F + G) (Including SST)	Rs.

REVAMPING FOR CIVIL WORKS

BOQ - CIVIL WORKS (Cleanroom System & Misc. Civil Works)

No.	Description	Unit	Quantity	(USD)	Total Price (USD)
1	2	3	4	5	6
A1	CLEAN ROOM SYSTEM (SUPPLY ONLY)				
1	50MM THICK CLEAN ROOM WALL PANELS				
1.1a	Supply of 50mm thick Clean rooms Wall Panel, Both side 0.5mm thick SS 304 Sheet insulated with rock wool, comply with accessories as mention in BOQ item 2 as per drawing no. DILS-CR-01, Make: Kunshan Max / China or Equivalent.	m ²	245.00		
1.1b	Supply of 50mm thick Cleanrooms Wall Panel, one side painted hot-dipping galvanized steel sheet, 0.5mm thick PE coated steel sheet, one side 0.5mm thick SS 304 Sheet, 0.8mm thick GI frame, insulated with rock wool, comply with accessories as mention in BOQ Item 2 as per drawing no. DILS-CR-01 Make Kunshan Max / China or Equivalent.	m ²	521.00		
1.1c	Supply of 50mm thick Cleanrooms Wall Panel , double layer colour painted hot-dipping galvanized steel sheet, 0.5mm thick PE coated steel sheet, insulated with rock wool, comply with accessories as mention in BOQ Item 2 as per drawing no. DILS-CR 01 Make Kunshan Max / China or Equivalent.	m ²	1,019.00		
1.1c	Supply of 50mm thick Cleanrooms Wall Panel, double layer painted hot-dipping galvanized steel sheet, 0.5mm thick PE coated steel sheet, insulated with rock wool, comply with accessories as mention in BOQ Item 2 as per drawing no. Make Kunshan Max / China or Equivalent.	m ²	77.00		
2	WALL PANEL ACCESSORIES Supply of R50 round corner inside R50 3-way connector inside middle type 3-way connector outside Door seal Aluminum joint profiles Adjustable floor track Top track (aluminum slot), 30*50*30mm, Make Kunshan Max / China or Equivalent. B4	m ²	1,964.00		

No.	Description	Unit	Quantity	(USD)	Total Price (USD)
1	2	3	4	5	6
3	<u>50MM THICK CLEAN ROOM CEILING ROOM PANELS</u>				
3.1	Supply of 50mm thick Cleanrooms Ceiling Panel, double layer colour painted hot-dipping galvanized steel sheet, 0.5mm thick PE coated steel sheet, 0.8mm thick GI frame, insulated with Rockwool, with single glass magnesium oxide boards for reinforcement. comply with accessories as mention in BOQ Item 4 as per drawing no. DILS-CR-01 Make Kunshan Max / China or Equivalent.	m ²	1,332.00		
3.2	Supply of 50mm thick Cleanrooms Ceiling Panel, one side painted hot-dipping galvanized steel sheet, 0.5mm thick PE coated steel sheet, one side 0.5mm thick SS 304 Sheet, 0.8mm thick GI frame, infill with rock wool, comply with accessories as mention in BOQ Item 4 as per drawing no. DILS-CR-01 Make Kunshan Max / China or Equivalent.	m ²	282.00		
4	<u>CEILING PANEL ACCESSORIES</u> Supply of Aluminum joint profiles Aluminum Grid Hanging bar, with expansion bolts, T screw, square regulator, connector, nuts M10, Make Kunshan Max / China or Equivalent.	m ²	1,614.00		
5	<u>CLEAN ROOM DOORS</u> Supply of Steel doors: 50mm thickness; 1.0 mm double-side electrogalvanized steel sheet, with Rockwool inside; Including 50mm thick door leaf, 50mm thick steel frame, hinge, GEZE lock, Auto-down bottom seal, with double 5mm tempered glass window (round or rectangular window), not include door closer. Make Kunshan Max / China or Equivalent.				
	Double leaf, size 1500*2100mm	Pcs	5.00		
	Single leaf, size 1000*2100mm	Pcs	55.00		
	Kick Plate (On all the doors external / Internal)	Pcs	113.00		
	Door Closer, Brand: GEZE 1000C	Pcs	85.00		
6	<u>WINDOWS</u> Supply of Double tempered glass view window, joints filled with silicon sealant, with vapour absorption, 5mm thick glass 1500x1000 mm Make Kunshan Max / China or Equivalent.	Pcs	53.00		
7	<u>INTERLOCK</u> Supply of Electronic interlock to control two or more doors, with electromagnetic lock, light Indicator and main control box Make Kunshan Max / China or Equivalent.				
	2 Doors	Pcs	9.00		
	3 Doors	Pcs	12.00		
	4 Doors	Pcs	4.00		

No.	Description	Unit	Quantity	(USD)	Total Price (USD)
1	2	3	4	5	6
8	<u>LIGHT FIXTURES</u> Supply of Ceiling Mounted 22W LED Panel size 300x300mm Fixture of Diffused Glass Color Temp 6500K CRI 90% Make Kunshan Max / China or Equivalent.	Pcs	95.00		
	Supply of Ceiling Mounted 45W LED Panel size 600x600mm Fixture of Diffused Glass Color Temp 6500K CRI 90% Make Kunshan Max / China or Equivalent.				
9	<u>INDUSTRIAL SOCKETS</u> Supply of 25A 5Pin Socket & Plug	Nos.	16.00		
10	<u>DYNAMIC PASS BOX</u> 1. Material: SS 304, thickness: 1.2mm; 2. With electric interlocking system, 3. SS control panel (HMI), 4. Blower, 5. H14 HEPA filters: 6. Light: Philips 7. UV light: Philips, 8. Double glass window, tempered glass; 9. Door type: Recessed (flush-installed); 10. DP Gauge: Dwyer, 11. Inlet / Outlet DOP port: SS 304; 12. Power supply: 220V, 50HZ; 13. All internal wires are equipped with conduits;				
10.1	Supply of 2 door Interior Dimension (W*D*H, mm): W445*D546*H508, External Dimension (W*D*H, mm): W645*D606*H1038; wall install, Make Kunshan Max / China or Equivalent.	Pcs	5.00		
11	<u>STATIC PASS BOX</u> 1. Material: SS 304, thickness: 1.2mm;2. With electric interlocking system,3. SS control panel (HMI),6. Light: Philips7. UV light: Philips,8. Double glass window, tempered glass;9. Door type: Recessed (flush-Installed);				
11.1	Supply of 2 door Interior Dimension (W*D*H, mm): W1220*D12220*H1220, External Dimension (W*D*H, mm): W1420*D1280*H1450; wall install, Make Kunshan Max / China or Equivalent.	Pcs	5.00		
11.2	Supply of 2 door Interior Dimension (W*D*H, mm): W445*D546*H508, External Dimension (W*D*H, mm): W645*D606*H1038; wall install. Make Kunshan Max / China or Equivalent.	Pcs	1.00		
12	<u>SILICONE</u> Supply of Dow corning silicone or Equivalent	m ²	3,578.00		

No.	Description	Unit	Quantity	(USD)	Total Price (USD)
1	2	3	4	5	6
13	PVC CONDUITS Supply of PVC conduit (25mm) inside wall panels	m ²	1,964.00		
14	OPENINGS COST Openings in ceiling panels for diffusers or lights with reinforcement.	m ²	1,614.00		
CIVIL WORKS (CLEAN ROOM SYSTEM) TOTAL COST (CNF KARACHI)					

No.	Description	Unit	Quantity	Unit Price	Total Price
1	2	3	4	5	6
	A2 - Cleanroom System Installation				
1	Installation of Wall Panels and Fixing of Doors, Windows along with coving and connection parts complete in all respect.	M ²	1,964		
2	Installation of Ceiling Panels including hanging and finishes along with all accessories complete in all respect.	M ²	1,614		
3	Application of Silicone in all joints of Walls and Ceiling Panels including sealing all equipment's on Cleanroom Panels and openings with Silicone complete in all respect.	M ²	3,578		
4	Opening in Wall and Ceiling for Switches & Sockets, Utilities, Systems such as Public Address, Sound and Fire etc. complete in all respect.	M ²	3,578		
	TOTAL FOR CLEANROOM SYSTEM INSTALLATION RS.				

No.	Product	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2		3	4	5	6
A3 - Miscellaneous Civil Works						
1	Design / Coordination Charges (Civil, Electrical, Plumbing, Utility & Ancillary Works)		Job	1		
2	Removal Cost of Existing Civil (Cleanroom System), Electrical and Plumbing Services		Job	1		
3	DRAINAGE PIPES	Providing and laying 6" dia drainage pipe including removing of existing flooring, laying of pipe and casing and relaying of flooring	Rft	200		
4	EPOXY SELF LEVEL COATING	Providing and applying 2 mm thick self-leveling epoxy flooring from ZOR chemicals on existing floor	Sft	10000		
5	AREA FOR AHU'S	Making area for placing AHUs including fiber roof, horizontal and vertical framings flooring, AHU pads complete with all respect	Sft	2300		
6	GMP DRAINS	Providing and fixing of SS GMP drains	Nos	7		
7	MANHOLES	Providing and MAKING 3' X 3' Manholes	Nos	5		
8	CLEANROOM DOORS	(FRP) Double leaf, size 1500*2100mm (with accessories)	Nos	7		
		(FRP) single leaf, size 1000*2100mm (with accessories)	Nos	26		
	Total Cost Misc. Civil Works (PKR.)					

BOQ – ELECTRICAL WORKS

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
1	ELECTRICAL NON SCHEDULE WORKS				
1	WIRING & WIRING ACCESSORIES				
	Providing & fixing of point wiring (including circuit wiring with 2.5mmsq conductors and 2.5mmsq green/yellow (CPC) with 1.5mmsq single core PVC insulated 450/750V grade copper conductors, in PVC conduit rigid/flexible in already laid cable trunking or in PREFAB WALLS, PREFAB CIELLING surface extra light GI conduit and PVC Conduits, sheet steel back boxes, galvanized/powder coated sheet steel surface junction boxes, 1.0mmsq 3-core flexible PVC/PVC cord in flexible PVC conduit upto fixture, etc., & 1.5mmsq green/yellow wire as CPC all along the conduit (Pakistan Cables / Fast Cables / Newage Cables or Equivalent for:				
a)	Wiring for Light point from switch board to first light point with 1.5 Sq.mm phase, common neutral of 2.5 Sq.mm and common ECC of 2.5 Sq.mm in 25mm dia PVC Conduit or 25mm dia EMT conduit on surface of Prefab.	No.	66		
b)	Same as above item but wiring from light point to point	No.	143		
c)	Circuit wiring for Light Fixtures from DB to Light Control Switch Board with 3C x 2.5 Sq.mm + ECC 1 x 2.5 Sqmm, Cu/PVC wires in 25mm dia PVC OR 25 mm dia EMT conduit.	No.	18		
2	Providing & fixing of circuit & point wiring with 3 x 2.5mmsq single core PVC insulated 450/750V grade copper conductors, in PVC conduit /EMT or in already laid cable for socket outlet, solid state fan speed controller, sheet steel back boxes, galvanized/powder coated sheet steel surface junction boxes, with earth & phase terminals and PVC glands on pipe entries into surface steel back boxes/junction boxes as follows:				
a)	Wiring of 13A/15A Switch Socket units (RAW Power) from DB to first power outlet back boxes with 3C x 4 Sqmm Cu/PVC /PVC	No.	66		
b)	Same as above item, but wiring from outlet to outlet	No.	47		
3	Wiring of 32A 5-Pin Industrial Socket from DB to Industrial Socket with the following size of wires in 38mm dia EMT Conduit as shown in the drawings.				
a)	4C-6 Sqmm Cu/PVC/PVC + ECC 1C-6 Sqmm Cu/PVC	No.	22		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
3a	Wiring of 25A 5-Pin Industrial Socket with 4C 6mm ² copper PVC / PVC + ECC S/C 6mm ² copper PVC.	No.	16		
3b	Wiring of 63A 5-Pin Industrial Socket with 4C 25mm ² copper PVC/PVC + ECC S/C 16mm ² copper PVC.	No.	4		
4	Wiring Devices SWITCHES & SOCKETS				
	Supply and Installation of following 10 Amp, gang type switches, 13/15/20 Amp Switch Socket outlets & Industrial Sockets make Clipsal / MK / Philips and Isolators make Riva / Legrand, recessed on wall or column as per design drawings. (Selected Series for Switch socket outlet is Clipsal C Vivace or equivalent)				
a)	10A, 220V One Gang Switch Unit	No.	22		
b)	10A, 220V Two Gang Switch Unit	No.	9		
c)	10A, 220V Three Gang Switch Unit	No.	7		
d)	13A, International Switch Socket Unit	No.	55		
e)	13A, 3-Pin Flat Simplex Switch Socket Unit	No.	28		
f)	15A, Round Simplex Switch Socket Unit	No.	44		
g)	20A SP Isolator Switch Unit	No.	2		
h)	20A TP Isolator Switch Unit	No.	2		
I)	32A TP Isolator Switch Unit	No.	2		
j)	32A TP 5 PIN Industrial Socket & Plug	No.	22		
k)	16A TP 5 PIN Industrial Socket & Plug	No.	3		
5	MAIN CABLES				
	Supply, installation & connecting of 600/1000V grade Copper PVC/PVC insulated/sheathed conductor cable clipped to the surface, or in surface/EMT / concealed PVC conduit Pipe, including all fixing, jointing & termination cable lugs, glands (Pakistan Cables / Fast Cables / New Age Cables or Equivalent)				

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
A1.1	8 Nos. 1C X 185 Sqmm Cu/PVC/PVC + 2 X 1C X 95mm PVC GREEN (For MCC) (75 M X 8 Nos. = 600Mtr)	Rm.	660		
A1.2	ECC 2 X 1C X 95mm PVC GREEN (For MCC) (75M x 2= 150 M Green)	Rm.	165		
B1.1	4C- 95 Sqmm Cu/PVC/PVC (MDB)	Rm.	110		
B1.2	ECC 2No X 1C X 50mm PVC GREEN (MDB)	Rm.	110		
C1.1	8 Nos. 1C X 185 Sqmm Cu/PVC/PVC + 2 X 1C X 95mm PVC GREEN (For MCC) (75 M X 8 Nos. = 600Mtr)	Rm.	660		
C1.2	ECC 2 X 1C X 95mm PVC GREEN (For MCC) (75M x 2= 150 M Green)	Rm.	165		
D1.1	4C- 35 Sqmm Cu/PVC/PVC (PDB)	Rm.	110		
D1.2	ECC 2 X 1C- 16 Sqmm Cu/PVC Green (PDB)	Rm.	220		
E1.1	4C- 25 Sqmm Cu/PVC/PVC (LDB)	Rm.	110		
E1.2	ECC 2No x 1C- 10 Sqmm Cu/PVC Green (LDB)	Rm.	220		
6	CABLE CONTAINMENT				
a)	25mm dia PVC Conduit OR 25mm EMT Conduit (Data, Voice, Wifi, Public Address, CCTV, Power (Jeddah Polymer, Ezzi Engineering Index)	Rm.	275		
b)	25mm dia PVC Conduit OR 25mm EMT Conduit (Fire Alarm, Public Address) 25mm dia PVC OR 25mm EMT Conduit (Jeddah Polymer / Ezzi Engineering Index).	Rm.	132		
c)	25mm dia PVC OR 25mm EMT Conduit (CCTV, Wifi) (Jeddah Polymer / Ezzi Engineering Index).	Rm.	110		
d)	25mm dia Flexible G.I Conduit with PVC Coating (Jeddah Polymer / Ezzi Engineering Index).	Rm.	220		
7	Supply and Installation of M.S Pull Box of 16 SWG sheet with M.S. Top Cover of 14 SWG sheet for carrying heavy weights. Complete in all respects as per details and drawings.				
a)	75mm x 75mm x 75mm (Master Engineering, Hussain Co, Laiq & Sons, Electroline)	No.	110		
b)	150mm x 100mm Cable Tray for Light & Power (SA Enterprises, Electroline, Ezzi Engineering)	Rm.	88		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
c)	150mm x 100mm Cable Tray for Communication (SA Enterprises, Electroline, Ezzi Engineering)	Rm.	66		
8	Supply and Installation of 16 SWG Sheet Steel Back Boxes for installation of Switches, Sockets, Isolators, Communication Outlets. (Master Engineering, Hussain Co, Laiq & Sons, Electroline)				
a)	45mm x 75mm x 75mm for installation of Light Switches on 50mm wall.	No.	77		
b)	45mm x 75mm x 75mm for installation of 13A/15A Power Outlets on 50mm wall.	No.	72		
c)	45mm x 75mm x 75mm for installation of Data/Voice Communication Outlets on 50mm wall.	No.	66		
d)	45mm x 75mm x 75mm for installation of Industrial Sockets on 50mm wall.	No.	17		
e)	45mm x 75mm x 75mm for Sounders on 50mm wall.	No.	17		
9	Supply & installation of Ceiling Mounted Junction Box for Ceiling Points as per drawings including all fixing accessories. Sample must be approved by the consultant. (Jeddah Polymer, Laiq & Sons)				
a)	MS Powder Coated Junction Box for at each Light	No.	110		
b)	MS Powder Coated Junction Box for Fire Alarm System	No.	83		
c)	MS Powder Coated Junction Box for Public Address	No.	28		
d)	MS Powder Coated Junction Box for Wifi	No.	2		
e)	MS Powder Coated Junction Box for CCTV System	No.	28		
10	INSTALLTION OF LIGHTING FIXTURES Installation of lighting fixtures complete with driver, specified LED including all mounting, suspension and fixing materials as follows:				
a)	IP-65 Rated Recessed 600mm x 600mm Smart Panel Light Fixture with 40W LED (COARTS, NVC, PIERLITE or Equivalent) Color 6000K CRI-83	No.	150		
b)	IP-65 Rated Recessed 300mm x 300mm Smart Panel Light Fixture with 30W LED (COARTS, NVC, PIERLITE or Equivalent) Color 6000K CRI-83	No.	90		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
11	SUPPLY & INSTALLTION OF DISTRIBUTION BOARD				
11a	Main DISTRIBUTION BOARDS: Supply, installation & connecting wall or floor mounted MDB - (DMI, Karimi, HRA, Schneider). Circuit Breakers (Terasaki, Schneider, ABB (Japan, France, Italy))	No.	1		
11b	DISTRIBUTION BOARDS: Supply, installation & connecting wall or floor mounted PDB - (DMI, Karimi, HRA, Schnieder). Circuit Breakers (Terasaki, Schneider, ABB (Japan, France, Italy))	No.	1		
11c	DISTRIBUTION BOARDS: Supply, installation & connecting wall or floor mounted LDB - (DMI, Karimi, HRA, Schnieder). Circuit Breakers (Terasaki, Schneider, ABB (Japan, France, Italy))	No.	1		
11d	Process Machine DISTRIBUTION BOARD: Supply, installation & connecting wall or floor mounted Production Machines DB - DMI, Karimi, , HRA, Schneider. (Circuit Breakers Terasaki, Schneider, ABB (Japan, France, Italy))	No.	1		
11f	Energy Metering Lovato, (DMG-600)	Job	1		
12	VOICE & DATA COMMUNICATION SYSTEM: Supply, installation, and connecting up of Category 6 UTP data outlet wiring point with 24 AWG, 4-pair Cat 6 solid copper conductor UTP cable (CORNING, Schneider) in surface mounted PVC Conduit, EMT or in already laid cable trunking in buried 25mm dia pipe complete with 4-pair RJ45 modular jack on face plates installed on concealed steel back-box, or surface mounting back boxes. (Corning, Schneider).				
a)	Single Face plate with 1 No. CAT-6 RJ-45 I/O for Data, and 1 No. CAT-6 RJ-45 I/O for Voice, white / off white finish, complete with shuttered click-ins, labels and all accessories. Complete in all respects (Corning, Schneider).	No.	53		
b)	Supply & Wiring of CAT-6 UTP Cables for Data Communication from Communication Rack to each outlet in already laid conduit via cable tray as per drawings including termination and tagging at both ends. Complete in all respects. (Coil =305 Rm.) (Corning, Schneider).	Coil	6		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
c)	Supply & Wiring of CAT-6 UTP Cables for Voice Communication from Communication Rack to each outlet in already laid conduit via cable tray as per drawings including termination and tagging at both ends. Complete in all respects. (Coil =305 Rm.) (Corning, Schneider)	Coil	5		
d)	Supply & Installation of Imported 6U Communication Rack suitable for installation of standard patch panels and etc. Complete with floor base, vertical cable managers. Rack shall be equipped with 2 No. power distribution units (PDUs) with at least 5 imported power sockets & proper ventilation system including fan etc. Complete in all respects. (Corning, Schneider).	No.	1		
e)	Supply & Installation of the following CAT-6, Patch Panel equipped with RJ-45 I/Os for Data / Voice / CCTV & WIFI Communication System including all labeling and all mounting accessories. Complete in all respects. (Corning, Schneider).				
f)	24-Port CAT-6 Patch Panel for Data Communication	No.	6		
g)	24-Port CAT-6 Patch Panel for Voice Communication Conventional Telephone	No.	4		
h)	24-Port CAT-6 Patch Panel for WIFI System	No.	2		
i)	Front Cable Organizer for patch panels / wiring blocks with complete labeling and dressing for incoming cable management.	No.	6		
j)	Supply & Installation of following CAT-6 , factory certified Patch Cords of specified color having RJ-45 connectors at both ends for Data, CCTV & Wifi Communication .				
k)	3 meter long Cat-6 Patch Cord	No.	17		
l)	1 meter long Cat-6 Patch Cord (Patch panel to switch)	No.	22		
m)	IT Switches For Data & Voice + routers Gigabit Ethernet LAN switch: (Data/Voice Switches) 24-port 10/100/1000 BaseT with 4 x 1GigE SFP Ports with transceivers with stack module and 2 meter stack cable SFP port versions Universal Network Profiles (UNP): Policy based access (Cisco <Voice & Data>, Dahua <IP based CCTV System>.	No.	2		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
n)	Imported 42U Communication Rack (Floor Mounted) suitable for installation of standard patch panels etc. Complete with floor base, vertical cable managers. Rack shall be equipped with 2 No. power distribution units (PDUs) with at least 5 imported power sockets & proper ventilation system including fan etc. Complete in all respects. TOTEN, OJAYs	No.	1		
o)	Termination Fluke Testing & commissioning	Job	2		
13	LOW CURRENT SYSTEMS IP BASED CCTV SYSTEM (HIKVISION, DAHUA)				
a)	CAT-6 UTP Cable for CCTV System in already laid conduit via cable tray from camera to Communication Rack in Electrical Rooms as per drawings including termination and tagging at both ends. Complete in all respects. (Coil = 305 Rm.)	Mtr	671		
b)	Supply & Installation of IP IR Dome Camera, 1/2.7" 2 MP progressive CMOS, 2.8-12 mm Motorized focus & zoom Lens, F1.4, 20 Meter IR Distance, H.264 High Profile, TDN, with WDR, 3DNR, AWB, AGC, BLC, Privacy Masking, Motion & Tampering Detection, IP-66 Weatherproof, , PoE, 12VDC/24VAC, ONVIF Compliant. (HIKVISION, DAHUA)	Nos	2		
c)	CAT-6 UTP Cable for Access Control System in already laid PVC conduit via cable tray from Door Controller to all devices as per drawings including termination and tagging at both ends. Complete in all respects. (Coil = 305 Rm.) CORNING, SCHNIEDER)	Mtr	671		
d)	Supply & Installation of Network Video Recorder for 16 Channel @ 1080P recording, 8 SATA, 4 HDD bays up to 40TB Capacity, ONVIF Profile S, 350 Mbps Bandwidth outgoing, HDMI, VGA & DVI-D Display Ports for dual monitor support, Single Power. Make Hik Vision, Model NO. DS-7732NXI-K4	No	1		
e)	Supply of 42" LED Full HD 1080P, Monitor with Mounting Bracket and accessories. Make Sony / Samsung.	No	3		
f)	Programming Testing & Commissioning	Job	1		
14	FIRE ALARM SYSTEM (MORLEY)				
a)	2C, 2.5 Sq.mm Fire Resistant Shielded Cable (Prysmian FP Plus or Equivalent) in 25mm dia EMT conduit from fire alarm control panel to all sensors & devices including all installation accessories complete in all respect.	Rm.	330		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
b)	Control Cable from FACP to Public Address, Fire Pump, Elevators, Access Control System, CCTV System with 5C, 2.5 Sq.mm fire resistant cable in 25mm dia PVC Conduit. Complete in all respect.	Rm.	330		
c)	Supply & Installation of Low profile intelligent analogue addressable optical smoke sensor, incorporating a dual LED for 360 deg. viewing with mounting base.	Nos.	55		
d)	Supply & Installation of Intelligent Analogue Addressable manual call glass break unit having glass element with back box. Make : Morely by Honeywell, Model No. MI-MCP-GLASS	Nos.	11		
e)	Supply & Installation of Intelligent Addressable Loop powered sounder with red body and wall mounting base, minimum Sound output 100 dB at 1 meter with frequencies for variety of sounds as required.	Nos.	11		
f)	Supply & Installation of 2 Loop intelligent analogue addressable fire alarm control panel , Networkable, having power supply unit, automatic battery charger and specified battery backup	No.	1		
g)	Programming Testing & Commissioning	Job	1		
15	PUBLIC ADDRESS SYSTEM (BOSCH)				
	2C, 2.5 Sq.mm Flexible Imported Shielded Speaker Cable for Public Address System from Speaker to Speaker till Amplifier in Comm Rack as per zoning layout shown in drawings in 25mm dia EMT Conduit. Complete in all respects.	Rm.	220		
a)	6Watts Metal Round False Ceiling Speaker must be suitable for speech and music reproduction confirming EVAC, BS 5839_8 and EN 60849 compliant.	No.	33		
b)	120Watts Power Amplifier with 70 V / 100 V and 8 ohm outputs, Dual inputs with priority switching, 100 V input for slave.	No.	1		
c)	6Zone Call Station with Microphone	No	1		
d)	Imported 42U Communication Rack (Floor Mounted) suitable for installation of standard patch panels etc. Complete with floor base, vertical cable managers. Rack shall be equipped with 2 No. power distribution units (PDUs) with at least 5 imported power sockets & proper ventilation system including fan etc. Complete in all respects. TOTEN, OJAYs	No	1		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
e)	Programming Testing & Commissioning	Job	1		
16	DOOR INTERLOCKING				
a)	Two Door Controller	Nos.	9		
b)	Three Door Controller	Nos.	12		
c)	Four Door Controller	Nos.	4		
d)	Magnatic Locks	Nos.	70		
e)	Door Status Indication	Nos.	140		
f)	Door Contact	Nos.	70		
g)	Doors interlocking Cables & Wirings	Job	1		
h)	Programming Testing & Commissioning	Job	1		
17	AS-BUILT DRAWINGS				
a)	Preparation of as-built drawings of all electrical works after final approval from the consultant/client. Note: Submission of as-built drawings 3 sets & soft copy of complete electrical works after final commissioning of project. Approvals of final bills are subject to completion of as built drawings.	Job	1		
18	Misc. Expenses obtaining NOC/Approval certificate for entire Electrical installation works of including all wiring installation, from electric inspector, Karachi Region Office	Jobs	1		
	TOTAL ELECTRICAL WORKS				

BOQ – PLUMBING WORKS

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
GROUP-A					
1)	WATER FOR INJECTION (WFI) LOOP WORKS				
	(i) <u>SUPPLY OF ASME-BPE 316L STAINLESS STEEL TUBE</u> having thickness 1.65 mm, Dia 1" internally & externally polished (less than 0.5 micron) tubing for Highly Purified water distribution loop with all fitting, tees, elbows, etc complete in all respect. Preferred Brands Alfa Laval, Kinglai, CSE or approved equal.	Rft	250		
	(ii) <u>SUPPLY OF ZERO DEAD LEG VALVES</u> Material 316L SS, Forged body, Diaphragm with PTFE+ EPDM seal, T/U type for WFI loop. Size 1" Preferred Brands Alfa Laval, King-Lai, IIT,	No	06		
	(iii) <u>SUPPLY OF 1-INCH THICK PREMOULDED GLASS WOOL</u> insulation 64 Kg/cum with externally polished SS cladding on tubing in Production area and GI cladding in technical areas complete in all respect Preferred Brands Knauf, Kimco or approved equivalent	RFT	250		
2)	PURIFIED WATER (PW) LOOP WORKS				
	(i) <u>SUPPLY OF ASME-BPE 316L STAINLESS STEEL TUBE</u> having thickness 1.65 mm, Dia 1.5" internally & externally polished (less than 0.5 micron) tubing for Purified water distribution loop with all fitting, tees, elbows, etc complete in all respect. Preferred Brands Alfa Laval, Kinglai, CSE or approved equal.	RFT	250		
	(II) <u>SUPPLY OF ZERO DEAD LEG VALVES</u> Material 316L SS, Forged body, Diaphragm with PTFE+ EPDM seal, T/U type for PW loop. Size 1.5" Preferred Brands Alfa Laval, King-Lai, IIT,	No	06		
3)	PURE STEAM (PS)				

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
	(i) <u>SUPPLY OF ASME-BPE 316L STAINLESS STEEL TUBE</u> having thickness 1.65 mm, Dia 1" internally & externally polished (less than 0.5	RFT	117		
	Steam distribution with all fitting, tees, elbows, etc complete in all respect. Preferred Brands Alfa Laval, Kinglai, CSE or				
	(II) <u>SUPPLY OF ZERO DEAD LEG VALVES</u> Material 316L SS, Forged body, Diaphragm with PTFE+ EPDM seal, 2way type for pure steam. Size 1" Preferred Brands Alfa Laval, King-Lai, IIT, Saunders or approved	No	3		
	(III) <u>SUPPLY OF 1-INCH THICK PREMOULDED GLASS WOOL</u> insulation 64 Kg/cum with externally polished SS cladding on tubing in Production area and GI cladding in technical areas complete in all respect Preferred Brands Knauf, Kimco or approved equivalent	RFT	117		
4)	NITROGEN GAS				
	(i) <u>SUPPLY OF ASME-BPE 316L STAINLESS STEEL TUBE</u> having thickness 1.65 mm, Dia 1" or $\frac{3}{4}$ " internally & externally polished (less than 0.5 micron) tubing for Nitrogen distribution with all fitting, tees, elbows, etc complete in all respect. Preferred Brands Alfa Laval, Kinglai, CSE or	RFT	117		
	(ii) <u>SUPPLY OF ZERO DEAD LEG VALVES</u> Material 316L SS, Forged body, Diaphragm with PTFE+ EPDM seal, 2way type for Nitrogen Gas. Size 1" or $\frac{3}{4}$ " Preferred Brands Alfa Laval, King-Lai, IIT,	No	6		
5)	COMPRESSED AIR				
	(i) <u>SUPPLY OF SMS 304L STAINLESS STEEL TUBE</u> having thickness 1.5 mm, Dia 1" for compressed air distribution with all fitting, tees, elbows, etc complete in all respect. Preferred Brands Alfa-Laval, King-Lai, Ghalib International, Sandvik or approved equal.	RFT	186		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
	<p>(II) <u>SUPPLY OF BALL VALVE</u> <u>GENERAL PURPOSE FULL BORE</u> <u>THREADED TYPE WITH SWAGELOK/</u> <u>TRICLOVER FITTING FOR EASY</u> REPLACEMENT Material SCS14A SS, casted body, Ball valve with PTFE seal, 2way type for compressed air. Size $\frac{3}{4}$" Preferred Brands Alfa Laval, King-Lai, Kitz or approved equivalent</p>	No	12		
	<p>(iii) <u>SUPPLY OF TERMINAL FRL UNIT</u> <u>FOR COMPRESSED AIR SIZE 3/8</u> Preferred Brands SMC, FESTO PARKER or approved equivalent</p>	No	09		
6)	NATURAL GAS CH4 and LPG				
	<p>(i) <u>SUPPLY OF SMS 304L STAINLESS</u> <u>STEEL TUBE</u> having thickness 1.5 mm, Dia $\frac{3}{4}$" for natural gas distribution with all fitting, tees, elbows, etc complete in all respect. Preferred Brands Alfa-Laval, King-Lai, Ghalib International,</p>	RFT	276		
	<p>(ii) <u>SUPPLY OF BALL VALVE</u> <u>GENERAL PURPOSE FULL BORE THREADED</u> <u>TYPE WITH SWAGELOK/ TRICLOVER</u> <u>FITTING FOR EASY REPLACEMENT</u> Material SCS14A SS, casted body, Ball valve with PTFE seal, 2way type for CH4. Size $\frac{3}{4}$" Preferred Brands Alfa Laval, King-Lai, Kitz or approved equivalent</p>	No	03		
	<p>(iii) <u>SUPPLY OF GAS REGULATOR $\frac{3}{4}$"</u> Preferred Brands Madas, Techno Gas, Weldability, Weldgas or approved equivalent</p>	No	03		
7)	OXYGEN GAS O2				
	<p>(i) <u>SUPPLY OF SMS 316L STAINLESS</u> <u>STEEL TUBE</u> having thickness 1.5 mm, Dia $\frac{3}{4}$" for natural gas distribution with all fitting, tees, elbows, etc complete in all respect. Preferred Brands Alfa-Laval, King-Lai, Ghalib International,</p>	RFT	276		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
	(ii) <u>SUPPLY OF BALL VALVE</u> <u>GENERAL PURPOSE FULLBORE THREADED TYPE WITH SWAGELOK/ TRICLOVER FITTING FOR EASY REPLACEMENT</u> Material SCS14A SS, casted body, Ball valve with PTFE seal, 2way type for O2. Size $\frac{3}{4}$ " Preferred Brands Alfa Laval, King-Lai, Kitz or approved equivalent	No	01		
	(iii) <u>SUPPLY OF REGULATOR $\frac{3}{4}$"</u> Preferred Brands SMC, CKD, Weldability, Weldgas or approved equivalent	No	01		
7)	CHILL WATER LINES				
	(i) <u>SUPPLY OF SCH 40 SEAMLESS BLACK CARBON STEEL PIPE DN40</u> for chilled water supply and return system, complete with fittings, flanges, union, gasket specialties etc.,	RFT	231		
	(ii) Valves and specialties with matching flanges, nuts, bolts and gaskets for all chilled water piping as per specifications. Preferred Brand: GALA, TLV, ECONOSTO, KITZ /Hattersley, WIKA, BLD or approved equal:				
	a. Gate Valve DN40	No	02		
	b. Balancing Valve DN40	No	01		
	c. Strainer Y type DN40	No	01		
	d. Check Valve DN 40	No	01		
	e. Pressure Gauges 0-10 Bar	No	02		
	f. Temperature Gauges	No	02		
	(iii) Cross-linked Polyolefin PIPE Insulation with SS 304 Cladding in Production area and GI cladding in all technical areas for Chill Water PIPE with alupet foil and self-adhesive tape.	RFT	231		
8)	DRAIN PIPING				
	(i) <u>STEEL TUBE</u> having thickness 1.5 mm, for drain connection with all fitting, tees, elbows, etc complete in all respect. Preferred Brands Alfa-Laval, King-Lai, Ghalib International, Sandvik or approved equal.				
	a. 2" Line from washing machine, SIP Tunnel to nearest drain point	RFT	117		
9)	EXHAUST CONNECTION				
	<u>SUPPLY OF ROUND DUCT</u> SS 304 Round Duct Dia 4" for Steam Exhaust of Washing machine estimated length 20ft	LOT	01		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
	<u>SUPPLY OF ROUND DUCT</u> GI Round Duct Dia 4" for Exhaust Install after blower of washing machine estimated length	LOT	1		
	<u>STAND FOR BLOWER</u> Fabrication and installation of an angle iron frame sized L 2 ft x W 1 ft , constructed from 2" x 2" x 5 mm thick angle iron , designed for ceiling suspension of a blower unit . The frame shall be engineered and fabricated to ensure adequate structural strength to safely support the total weight and operational thrust of the blower , including all mounting accessories. The installation will be carried out complete in all respects, ensuring proper alignment, secure anchoring, and vibration resistance for long-term reliable operation	LOT	01		
	<u>SUPPLY OF DUCT FOR DEHUMIDIFYING</u> SS 304 82x97 mm Duct for dehumidifying exhaust of machine with NRV estimated	LOT	01		
	<u>SUPPLY OF BLOWER FOR DEHUMIDIFYING</u> Blower for exhaust of air volume 100-300 cubic meter per hour at temperature 150 to	LOT	01		
	<u>STAND FOR BLOWER</u> Fabrication and installation of an angle iron frame sized L 2 ft x W 1 ft , constructed from 2" x 2" x 5 mm thick angle iron , designed for ceiling suspension of a blower unit . The frame shall be engineered and fabricated to ensure adequate structural strength to safely support the total weight and operational thrust of the blower , including all mounting accessories. The installation will be carried out complete in all respects, ensuring proper alignment, secure anchoring, and vibration resistance for long-term reliable operation	LOT	01		
	<u>SUPPLY OF DUCT FOR PREHEATING EXHAUST</u> SS 304 120x120 mm Duct for Preheat exhaust of machine with NRV estimated length 20ft	LOT	01		
	<u>SUPPLY OF BLOWER FOR PREHEATING</u> Blower for exhaust of air volume 800- 1000 cubic meter per hour at temperature 40 to	LOT	01		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
	<p><u>STAND FOR BLOWER</u> Fabrication and installation of an angle iron frame sized L 2 ft x W 1 ft, constructed from 2" x 2" x 5 mm thick angle iron, designed for ceiling suspension of a blower unit. The frame shall be engineered and fabricated to ensure adequate structural strength to safely support the total weight and operational thrust of the blower, including all mounting accessories. The installation will be carried out complete in all respects, ensuring proper alignment, secure anchoring, and vibration resistance for long- term reliable operation</p>	LOT	01		
	<p><u>SUPPLY OF DUCT FOR AIR PRESSURE BALANCE</u> SS 304 190x190 mm Duct for AIR pressure balance exhaust of machine estimated length</p>	LOT	01		
	<p><u>STAND FOR BLOWER</u> Fabrication and installation of an angle iron frame sized L 4 ft x W 4 ft, constructed from 4" x 2" x 5 mm thick angle iron, designed for ceiling suspension of a blower unit. The frame shall be engineered and fabricated to ensure adequate structural strength to safely support the total weight and operational thrust of the blower, including all mounting accessories. The installation will be carried out complete in all respects, ensuring proper alignment, secure anchoring, and vibration resistance for long- term reliable operation</p>	LOT	01		
	<p><u>COVER TO FLUSH TUNNEL WITH THE CEILING</u> SS 304 sheets having thickness 1 mm L 6184 X W 1654 X H465</p>	LOT	01		
10)	ELECTRICAL CONDUIT/TRAYES				
	(i) Supply of S.S 304 Tube for Filling & Sealing Machine (within the room) Tube size: Dia. 50mm	LOT	01		
	(ii) Supply of S.S 304 tube for Filling & Sealing Machine (within the room) Tube size: Dia. 38mm.	LOT	01		
	(iii) Supply of S.S 304 Conduit tube Dia. 50mm & Dia 38mm.	LOT	01		
	(iv) Supply of G.I Cable Tray in technical area. Size: 4" x 2"	LOT	01		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
11)	<p>Supply and installation Storage Vessel Application: Storage of Water for Injection (WFI) for pharmaceutical use.</p> <p>Tank Type: Vertical cylindrical, jacketed, pressure-less tank. Design Standard: ASME BPE / cGMP compliant / FDA Guidelines Construction: Sanitary grade Nominal Capacity: 1000 Liters Working Volume: 90-95% of Nominal Capacity Design Pressure: 3 bar Test Pressure: 1.5 times the design pressure Product Contact Parts: SS 316L T 8 mm, with MOC certificates Non-Contact Parts: SS 304 Surface Finish: External Finish: Matt / Dull polished Top Dish: Elliptical / Torispherical with manhole Bottom Dish: 3D / 2D / Torispherical sloped for complete drainage Supports: Legs or Skirt as per design Insulation: PUF / Mineral wool, thickness as per design Cladding: SS 304 polished finish Manhole: Hinged, 450mm dia. with safety interlock Inlet/Outlet: Tri-clamp fittings, sanitary design Vent Filter Housing: 0.2 μm hydrophobic filter housing Level Sensor: DP type with Heating control Temperature Sensor: RTD PT-100 w Spray Ball: 360° coverage for CIP/SIP Pressure Gauge: Glycerin filled, SS construction FAT, SAT, DQ, IQ, OQ documents MOC certificates</p> <p>Weld maps and passivation reports Surface finish test reports Calibration certificates for instruments Experience with pharmaceutical-grade tank manufacturing</p>	No	01		
12)	SUPPORT STANDS FOR LAF OF SIZE 670×1064 MM AND 1860×880 The stands will be fabricated from suitable structural members to ensure stable and secure installation	No	2		
13)	Misc. items to complete the job. Like supports, flanges Units etc	Lot	1		
	Total Cost Group-A				

PACKAGE / LOT -02 Services

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
GROUP-B					
1)	DE-CARTING RIGGING, SHIFTING AND PLACEMENT				
	a) Washing machine	Lot	1		
	b) De-Pyrogeneration Tunnel	Lot	1		
	c) Filling Line	Lot	1		
	d) Autoclave	Lot	3		
2)	Installation of WFI Loop extension for Washing machine, CIP/SIP SKID, Compounding Line Size 1” All joint to be internally flushed to give smooth finish & made with special orbital welding machine. The work includes sterilization required limits, boroscopy (10%), pressure testing, commissioning and tagging	Job	250		
3)	Installation of 1-inch thick Premoulded Glass Wool insulation 64 Kg/cum with externally polished SS cladding on tubing, complete in all respect	RFT	250		
4)	Installation of PW Loop extension for Sink in ampoule washing line, Sterility room, Ampoule Compounding Line Size 1.5” All joint to be internally flushed to give smooth finish & made with special orbital welding machine. The work includes sterilization required limits, boroscopy (10%), pressure testing, commissioning and tagging	RFT	250		
5)	Installation of Pure Steam Line extension for CIP/SIP SKID, Ampoule Filling line, Compounding area of ampoule filling line Line Size 1” All joint to be internally flushed to give smooth finish & made with special orbital welding machine. The work includes sterilization required limits, boroscopy (10%), pressure testing, commissioning and tagging	Rft	117		
6)	Installation of 1-inch thick Premoulded Glass Wool insulation 64 Kg/cum with externally polished SS cladding on tubing, complete in all respect	RFT	117		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
7)	Installation of Compressed Air S.S 304 Pipe T 1.5 mm Dia 1" including fittings with hangers and supports complete in all respect. Vial Washing Machine, De-Pyrogenation Tunnel, Filling line Autoclaves, Ampoule filling and Compounding All joint to weld argon welding. The work includes, pressure testing, commissioning and	RFT	186		
8)	Installation of Nitrogen S.S 316L Pipe T 1.5 mm Dia 3/4" including fittings with hangers and supports complete in all respect. Filling line, Sterility Area, Ampoule filling and Compounding All joint to be internally flushed to give smooth finish & made with special orbital welding machine. The work includes sterilization required limits, boroscopy (10%), pressure testing, commissioning and tagging	RFT	117		
9)	Other Gases CH4 Installation of S.S 304 Pipe T 1.5 mm Dia 3/4" including fittings with hangers and supports complete in all respect. Sterility Area, Ampoule Filling area All joint to weld argon welding. The work includes, pressure testing, commissioning and	RFT	276		
10)	Other Gases O2 Installation of S.S 316 Pipe T 1.5 mm Dia 3/4" including fittings with hangers and supports complete in all respect. Sterility Area, Ampoule Filling area All joint to weld argon welding. The work includes, pressure testing, commissioning and	RFT	276		
11)	Chill Water lines Installation of MS SCH 40 DN 40 Pipe with Insulation and Cladding for chill water connection at tunnel All joint to weld argon welding. The work includes, pressure testing, commissioning and	RFT	231		
12)	Tap Water lines Installation of PPR for Tap water connection The work includes, pressure testing, commissioning and tagging complete in all respect.	RFT	117		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
13)	Drain lines Installation of S.S 304 Seamless Pipe T 1.5 mm Dia 1.5" to 2" including fittings with hangers and supports complete in all respect. All joint to weld argon welding. The work includes, pressure testing, commissioning and	RFT	117		
14)	Making concealed drain in floor and connect	Lot	06		
15)	Pressure Testing of Utility Lines All utility lines (including WFI, PW, compressed air, steam, and others) will undergo hydrostatic or pneumatic pressure testing as applicable, prior to commissioning. This is to verify the mechanical integrity, ensure leak-free performance, and confirm that the system can safely handle the designated operating pressures. Testing will be conducted as per	Lot	01		
16)	Passivation of WFI and PW Loop Extension Before connecting the extended sections of the WFI and PW loops to the main distribution line, passivation will be carried out using nitric acid (HNO ₃). This process ensures the removal of any residual contaminants and helps form a stable, protective oxide layer on the internal stainless- steel surfaces. Proper flushing and validation will follow to ensure system integrity	Lot	02		
17)	As-Built Drawing Documentation As-built drawings will be prepared and submitted after the completion of installation drawings will reflect the actual routing, dimensions, locations, and specifications of all installed utilities and equipment, incorporating any changes made during execution. The documentation ensures accurate record-keeping for future reference, validation.	Lot	01		
	Total Cost Group-B				

BOQ – UTILITY & ANCILLARY WORKS

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
1 i)	Group A (Supply of Air Handling Units) Air Handling Unit No. 09 Capacity (23 Ton) Supply of Double Skin, Blow Thru Air Handling Unit No. 09 complete with supply air plug fan, IP-55 rated VFD, IE-3 rated fan motor, DX operated Cooling Coil with SS drain pan, complete with blygold coating, G4, F7, F9 and H-13 air filters, specified air filters, moisture eliminator, access plenums, mixing box and accessories, CFC free R-407 refrigerant gas, Condensing Unit with controls for condensing fan/compressor cycling and control wiring, electric heater with humidity controller, duct mounted multistage wired thermostat as per enclosed schedule. Preferred Brands: Ecoklima / Mecair or Approved Equal. Origin: Pakistan	No.	1		
ii)	Air Handling Unit No. 10 Capacity (23 Ton) Supply of Double Skin, Blow Thru Air Handling Unit No. 10 complete with supply air plug fan, IP-55 rated VFD, IE-3 rated fan motor, DX operated Cooling Coil with SS drain pan, complete with blygold coating, G4, F7, F9 and H-13 air filters, specified air filters, moisture eliminator, access plenums, mixing box and accessories, CFC free R-407 refrigerant gas, Condensing Unit with controls for condensing fan/compressor cycling and control wiring electric heater with humidity controller, duct mounted multistage wired thermostat as per enclosed schedule. Preferred Brands: Ecoklima / Mecair or Approved Equal. Origin: Pakistan	No.	1		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
iii)	<p>Air Handling Unit No. 11 Capacity (21 Ton)</p> <p>Supply of Double Skin, Blow Thru Air Handling Unit No. 11 complete with supply air plug fan, IP-55 rated VFD, IE-3 rated fan motor, DX operated Cooling Coil with SS drain pan, complete with blygold coating, G4, F7, F9 and H-13 air filters, specified air filters, moisture eliminator, access plenums, mixing box and accessories, CFC free R-407 refrigerant gas, Condensing Unit with controls for condensing fan/compressor cycling and control wiring electric heater with humidity controller, duct mounted multistage wired thermostat as per enclosed schedule.</p> <p>Preferred Brands: Ecoklima/Mecair or Approved Equal. Origin: Pakistan</p>	No.	1		
	Total Cost of Supply of Air Handling Units (Rs.)				
1	<p>Group B (Installation of Air Handling Units & Supply and Installation of Other Equipment/Items)</p> <p>The work includes supply and installation including cutting, fitting, fixing and cleaning, making wall opening, fixing wall and slab sleeve, hangers and supports etc.</p> <p>Air Handling Unit No. 09 Capacity (23 Ton)</p> <p>Supply of Double Skin, Blow Thru Air Handling Unit No. 09 complete with supply air plug fan, IP-55 rated VFD, IE-3 rated fan motor, DX operated Cooling Coil with SS drain pan, complete with blygold coating, G4, F7, F9 and H-13 air filters, specified air filters, moisture eliminator, access plenums, mixing box and accessories, CFC free R-407 refrigerant gas, Condensing Unit with controls for condensing fan/compressor cycling and control wiring, electric heater with humidity controller, duct mounted multistage wired thermostat as per enclosed schedule.</p>	No.	1		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
ii)	Supply and Installation of hard drawn seamless type "L" Copper refrigerant piping with 3/8" Armaflex foamed insulation approx. 100Rft total distance between units, 28g G.I. cladding, oil traps, where necessary, complete with fittings and silver soldered joints. Preferred Brands: China-Golden Dragon/Trox or, Mueller/USA.	Job	1		
iii)	Refrigerant R-407c gas charging between indoor and outdoor unit's refrigerant piping. Preferred Brands: Freezer/China or Honeywell/USA.	Job	1		
Total Cost of Installation of Air Handling Unit No. 09-Item No. 1 (Rs.)					
2	Air Handling Unit No. 10 Capacity (23 Ton) i) Supply of Double Skin, Blow Thru Air Handling Unit No. 10 complete with supply air plug fan, IP-55 rated VFD, IE-3 rated fan motor, DX operated Cooling Coil with SS drain pan, complete with blygold coating, G4, F7, F9 and H-13 air filters, specified air filters, moisture eliminator, access plenums, mixing box and accessories, CFC free R-407 refrigerant gas, Condensing Unit with controls for condensing fan/compressor cycling and control wiring electric heater with humidity controller, duct mounted multistage wired thermostat as per enclosed schedule.	No.	1		
ii)	Supply and Installation of hard drawn seamless type "L" Copper refrigerant piping with 3/8" Armaflex foamed insulation approx. 100Rft total distance between units, 28g G.I. cladding, oil traps, where necessary, complete with fittings and silver soldered joints. Preferred Brands: China-Golden Dragon/Trox or, Mueller/USA.	Job	1		
iii)	Refrigerant R-407c gas charging between indoor & outdoor unit's refrigerant piping. Preferred Brands: Freezer/China or Honeywell/USA.	Job	1		
Total Cost of Installation of Air Handling Unit No. 10-Item No. 2 (Rs.)					

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
3	Air Handling Unit No. 11 Capacity (21 Ton) i) Supply of Double Skin, Blow Thru Air Handling Unit No. 11 complete with supply air plug fan, IP-55 rated VFD, IE-3 rated fan motor, DX operated Cooling Coil with SS drain pan, complete with blygold coating, G4, F7, F9 and H-13 air filters, specified air filters, moisture eliminator, access plenums, mixing box and accessories, CFC free R-407 refrigerant gas, Condensing Unit with controls for condensing fan/compressor cycling and control wiring electric heater with humidity controller, duct mounted multistage wired thermostat as per enclosed schedule.	No.	1		
ii)	Supply and Installation of hard drawn seamless type "L" Copper refrigerant piping with 3/8" Armaflex foamed insulation approx. 100Rft total distance between units, 28g G.I. cladding, oil traps, where necessary, complete with fittings and silver soldered joints. Preferred Brands: China-Golden Dragon/Trox or, Mueller/USA.	Job	1		
iii)	Refrigerant R-407c gas charging between indoor and outdoor unit's refrigerant piping. Preferred Brands: Freezer/China or Honeywell/USA.	Job	1		
	Total Cost of Installation of Air Handling Unit No. 11-Item No. 3 (Rs.)				
4	Lifting, Shifting and Commissioning of AHUs				
i)	Cost of shifting of Air Handling Units in knock down condition from Supplier Factory to Client Factory.	Job	1		
ii)	Cost of shifting of equipment to desired location of 3 No. Air Handling Units. (Crane activity is involved)	Job	1		
iii)	Cost of assembly and Installation of 3 No. Air Handling Units.	Job	1		
iv)	Cost of testing, commissioning, balancing, adjusting and handing over the Air Handling Units.	Job	1		
	Total Cost of Lifting, Shifting and Commissioning of AHUs-Item No. 4 (Rs.)				

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
5	Ducting (Medium Pressure) and Accessories G.I sheet metal medium pressure flange type ducting including splitter dampers, take offs, elbows and other necessary fittings, wall/slab sleeves, connections with flexible duct connector, equipment, air devices, complete with all bracings, hangers, supports, access doors, etc. and ready for operation in all respect. Recommended Brand: Aisha Steel/Pakistan Steel or approved equal. Rectangular Ducting				
5.1	24 Gauge	Sqft	5,320		
5.1.1	22 Gauge	Sqft	14,190		
5.1.2	20 Gauge	Sqft	1,170		
5.2	SS 304 Stainless Steel medium pressure type ducting for return air duct of AHUs including splitter damper, take offs, elbows and other necessary fittings, wall/slab sleeves, connection with flexible duct connector, equipment, air devices, complete with all bracings, hangers, supports, access doors, etc. and ready for operation in all respect. Recommended Brand: Aisha Steel/International Industries Limited (IIL) or approved equal. Recommended Brand: Aisha Steel/International Industries Limited (IIL) or approved equal.				
5.2.1	24 Gauge	Sqft	500		
5.2.2	22 Gauge	Sqft	2,920		
	Total Cost of Ducting (Medium Pressure) and Accessories-Item No. 5 (Rs.)				
6	Pressure and air leakage rate testing of air ducts. The air leakage rate to qualify Eurovent Classifications 'B' at 1000 Pa test pressure. Duct leakage test machine to be used, blower test is not acceptable.	Job	1		
	Total Cost of Pressure and Air Leakage Testing-Item No. 6 (Rs.)				

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
7	Duct Insulation and Cladding				
7.1	Insulation over Rectangular Air Ducts Supply & fixing of XLPE closed cell Elastomeric Thermal Insulation for inside air ducting 1.7 lb./ft ³ density, K value of 0.23 Btu in/ft-hr-°F (at 73.4°F). The insulation to meet ASTM Standard E84 and Class O for fire, flame and smoke, detail specified in schedule, complete in all respect. Recommended Brand: Aerofoam/UAE, Armaflex/USA, thermobreak/Thailand. 7.1.1 0.75 inch thick for inside supply air ducts.	Sqft	11,780		
7.1.2	0.5 inch thick for return/exhaust air ducts.	Sqft	9,600		
7.3	Supply & fixing of 1" thick XLPE closed cell Elastomeric Thermal Insulation for exposed air ducting 1.7 lb./ft ³ density, K value of 0.23 Btu in/ft-hr-°F (at 73.4°F). The insulation to meet ASTM Standard E84 and Class O for fire, flame and smoke, complete in all respect. Recommended Brand: Aerofoam/UAE, Armaflex/USA, Thermobreak/Thailand.	Sqft	2,720		
7.4	26g pre-painted GI sheet metal cladding on exposed insulated air ducting.	Sqft	3,540		
	Total Cost of Duct Insulation and Cladding-Item No. 7 (Rs.)				
8	Air Devices Supply and installation of following types and sizes of Air Devices including connections with air ducts and support arrangement. Recommended Manufacturer: DMK Engineering/Mehran Engineering/Shan Industries/Waqas Engineering, Pakistan or approved Equal.				
8.1	Supply Air Diffuser (SAD) T&B Type ME of different neck sizes with M7 VCDs.	Sqin	1,000		
8.2	Perforated Exhaust Air Register (EAR) / Return Air Register (RAR) T&B Type APG (50% free area) of different neck sizes.	Sqin	5,840		
8.3	SS Perforated Return Air Grille (RAG) APG (50% free area) of different neck sizes (for Grade-B Rooms).	Sqin	7,560		
8.4	Exhaust Air Louvers of different neck sizes	Sqin	2,200		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
8.5	Filter Boxes with 2" thick G-4 washable synthetic air filters with fresh air intake louvers at Fresh air inlet, complete with external wall mounted frames, overall depth 4", Aluminium construction, fixed blades type with 0.25" mesh 22g copper wire screen on the outside, Blades with 6mm tips at both ends, set at 45 deg to be of sight tight construction as per SMACNA standards of different sizes.	Sqin	7,000		
	Total Cost of Air Devices-Item No. 8 (Rs.)				
9	Air Dampers Recommended Manufacturer: DMK Engineering/Mehran Engineering/Shan Industries/Waqas Engineering, Pakistan or approved Equal.				
9.1	Volume Control Dampers constructed as per SMACNA standard, multileaf opposed blade type gear operated , complete with marking lockable extended quadrant operator, damper bearings and linkages to be suitable for smooth operation.				
9.1.1	Rectangular Type	Sqin	1,200		
9.2	Fire Damper 1 hr fire rating, constructed as per SMACNA Standard, single blade type with duct depth (blade height) 24 inch & less multiblade type for larger depth complete with 160 deg°F fusible links and access doors of different neck sizes.	Sqin	7,800		
	Total Cost of Air Dampers-Item No. 9 (Rs.)				
10	Condensate Drain Piping Provide uPVC Class D Condensate drain piping and 3/8" closed cell foam insulation for equipment including specialties complete with fittings, hangers, supports, making connections & pressure testing. Recommended Brand for uPVC Piping: Dadex/Jeddah Polymer/Pak Arab/Pipe Plus, Pakistan or approved equal. Recommended Brand for Closed Cell Foam Insulation: Aeroflex/Thailand, Durkflex/Turkey, Superlon/Malaysia or approved equal.				
10.1	2" NB	Rft	50		
10.2	1.5" NB	Rft	100		
10.3	1.25" NB	Rft	90		
	Total Cost of Condensate Drain Piping-Item No. 10 (Rs.)				

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
11	Exhaust and Return Air Fans Supply and Installation of double skin centrifugal cabinet exhaust/return air fans with Siemens motor, inlet plenum, filter sections, vibration isolators, etc., complete in all respect as specified in schedule and drawings. Unit shall be suitable for exposed installation. Recommended Brand: Sasa Industries/Shan Industries, Pakistan. 11.1 EA Fan No. 01 rated 250 cfm, ESP 1.2 Inch for Washing.				
11.2	EA Fan No. 02 rated 1500 cfm, ESP 1.2 Inch for Material Air Lock and CR.	No.	1		
11.3	EA Fan No. 03 rated 630 cfm, ESP 1.2 Inch for CR-1, CR-2 (Left & Right) and CR-3 (Left & Right).	No.	1		
11.4	EA Fan No. 04 rated 1340 cfm, ESP 1.2 Inch for Cool Down Area.	No.	1		
11.5	EA Fan No. 05 rated 110 cfm, ESP 1.2 Inch for Change Room.	No.	1		
11.6	Return Air Fan Shall be SS Construction RA Fan No. 01 rated 4860 cfm, ESP 1.2 Inch for Biotech Filling Line and Air Lock.	No.	1		
11.7	RA Fan No. 02 rated 7010 cfm, ESP 1.2 Inch for Vaccine Filling.	No.	1		
11.8	RA Fan No. 03 rated 5010 cfm, ESP 1.2 Inch for Vaccine Ampoule Filling.	No.	1		
	Total Cost of Exhaust and Return Air Fans-Item No. 11 (Rs.)				
12	Air Filters for Fan				
12.1	G-4 90% Average Arrestance, Regeneration Type Filter with metal frames for Exhaust Air Fan. Filter inserts complete with Holding and mounting frames and gaskets, etc. Recommended Manufacturer: Guard/Tariq Corporation, Pakistan. 12.1.1 610x610x50				
12.1.2	305x610x50	No.	13		
	Total Cost of Air Filters for Fan-Item No. 12 (Rs.)				
13	Terminal HEPA H-14 Air Filters.				
13.1	HEPA H-14, 99.995% DOP Test Efficiency Air Filters (Terminal Application).				

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
13.1.1	Recommended Brand: AAF/Malaysia, Camfill Farr/Sweden or Trox/Germany. Filter Cells complete with GI casing. 610mmx610mmx292 (mini-pleat type, High Flow Rate)	No.	33		
13.1.2	610mmx610mmx150 (mini-pleat type, High Flow Rate)	No.	35		
13.1.3	305mmx305mmx150 (mini-pleat type, High Flow Rate)	No.	53		
13.2	Filter Cell terminal casing having test points and differential pressure measuring points and diffusers suitable for ceiling mounting.				
13.2.1	for 610mmx610mmx292 filter cells	No.	33		
13.2.2	for 610mmx610mmx150 filter cells	No.	35		
13.2.3	for 305mmx305mmx150 filter cells	No.	53		
	Total Cost of Terminal HEPA H-14 Air Filters-Item No. 13 (Rs.)				
14	Supply and Installation of Constant Volume regulators for the above Terminal Air Filters. Recommended Brand: AAF/Malaysia, Camfill Farr/China or Trox/Germany.				
14.1	CAV-20"x12"	No.	8		
14.2	CAV-18"x12"	No.	1		
14.3	CAV-18"x10"	No.	7		
14.4	CAV-18"x6"	No.	2		
14.5	CAV-16"x10"	No.	1		
14.6	CAV-14"x10"	No.	5		
14.7	CAV-14"x8"	No.	9		
14.8	CAV-12"x8"	No.	28		
14.9	CAV-12"x6"	No.	9		
14.10	CAV-12"x4"	No.	8		
14.11	CAV-10"x8"	No.	2		
14.12	CAV-10"x6"	No.	12		
14.13	CAV-10"x4"	No.	28		
	Total Cost of Constant Volume Regulators-Item No. 14 (Rs.)				

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
15	<p>Electrical Works</p> <p>Motor Control Center (MCC) with construction Form 3B Type-02, front access, circuit breakers, switches, fuses, motor starters, instrument, indicating lights, etc. for all equipment as per specification.</p> <p>Recommended Manufacturer: Karimi Electromech/Sun Beam/ Taj Engineering/ Zelon Engineering, Pakistan.</p> <p>15.1 MCC-01 (Weather Exposed)</p>				
15.2	<p>Provide materials for electric wiring and earthing of equipment motors from MCC, including connections for AHU, VFD Box, Fan and controls as per Site Condition. Shielded Cables to be used after VFDs till equipment.</p> <p>Recommended Brand: Fast Cables/Pakistan Cables/Pioneer Cables, Pakistan.</p>				
15.2.1	AHU-08: 4 KW, cable size 3.5 core 4 sqmm with 2 earthing Wire.	Rft	410		
15.2.2	AHU-09: 7 KW, cable size 3.5 core 6 sqmm with 2 earthing Wire.	Rft	140		
15.2.3	AHU-10: 12 KW, cable size 3.5 core 6 sqmm with 2 earthing Wire.	Rft	80		
15.2.4	AHU-11: 8 KW, cable size 3.5 core 6 sqmm with 2 earthing Wire.	Rft	200		
15.2.5	CU-09: 33 KW, cable size 3.5 core 25 sqmm with 2 earthing Wire.	Rft	80		
15.2.6	CU-10: 36 KW, cable size 3.5 core 25 sqmm with 2 earthing Wire.	Rft	70		
15.2.7	CU-11: 32 KW, cable size 3.5 core 25 sqmm with 2 earthing Wire.	Rft	230		
15.2.8	EH-09: 20 KW, cable size 3.5 core 16 sqmm with 2 earthing wire.	Rft	130		
15.2.9	EH-10: 36 KW, cable size 3.5 core 25 sqmm with 2 earthing wire.	Rft	60		
15.2.10	EH-11: 24 KW, cable size 3.5 core 25 sqmm with 2 earthing wire.	Rft	190		
15.2.11	EA Fan-01: 1 KW, cable size 3.5 core 4 sqmm with 2 earthing wire.	Rft	390		
15.2.12	EA Fan-02: 1.5 KW, cable size 3.5 core 4 sqmm with 2 earthing wire.	Rft	200		
15.2.13	EA Fan-03: 1 KW, cable size 3.5 core 4 sqmm with 2 earthing wire.	Rft	150		
15.2.14	EA Fan-04: 1.5 KW, cable size 3.5 core 4 sqmm with 2 earthing wire.	Rft	50		
15.2.15	EA Fan-05: 1 KW, cable size 3.5 core 4 sqmm with 2 earthing Wire.	Rft	390		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
15.2.16	RA Fan-01: 3 KW, cable size 3.5 core 4 sqmm with 2 earthing Wire.	Rft	110		
15.2.17	EA Fan-02: 4 KW, cable size 3.5 core 4 sqmm with 2 earthing Wire.	Rft	80		
15.2.18	EA Fan-03: 3 KW, cable size 3.5 core 4 sqmm with 2 earthing Wire.	Rft	170		
15.3	Conduiting / cable tray. Recommended Manufacturer: Ezzi/Ocean Engineering/Power Engineers, Pakistan or approved equal.	Job	1		
15.4	Provide enclosure for VFD of AHU-08 to 11 with fan for air calculation, padlock, complete with wiring etc. Recommended Brand: ABB/USA, Danfoss/USA, Siemens/USA or Schneider/France.	No.	4		
15.5	Supply and installation of 4 kW IP-55 rated VFD for existing AHU-08. Recommended Brand: ABB/Danfoss/Siemens-USA or Schneider/France.	No.	1		
	Total Cost of Electrical Works-Item No. 15 (Rs.)				
16	Automatic Controls Direct Digital Control System including programming. The transmitter, switches, etc. to be complete with all accessories, control valves with actuator, BACnet Certified Local controllers (LC) with communication and display facility, complete in all respect. Recommended Brand: Delta Control/UK, Honeywell/ USA, Schneider/USA, Johnsons IO by JCI (Tech Automation) China.				
16.1	AHU No. 08				
16.1.1	Temperature sensors/transmitter (Balco Type).	No.	2		
16.1.2	Humidity sensors/transmitter.	No.	1		
16.1.3	Smoke Detector.	No.	1		
16.1.4	Pressure differential switches across fan	No.	1		
16.1.5	Pressure differential switches across filter	No.	2		
16.1.6	Arrangement for indication from VFD for AHU fan.	No.	1		
16.1.7	Pressure Transmitter	No.	1		
16.1.8	Local controllers with Display (Bacnet Certified)	No.	1		
16.1.9	Control Panel with enclosure and accessories.	Job	1		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
------	-------------	------	------	------------	-------------

1	2	3	4	5	6
16.1.10	Electrical/Control Wiring for above	Lot	1		
16.2	AHU No. 09				
16.2.1	Temperature sensors/transmitter (Balco Type).	No.	2		
16.2.2	Humidity sensors/transmitter.	No.	1		
16.2.3	Smoke Detector.	No.	1		
16.2.4	Pressure differential switches across fan	No.	1		
16.2.5	Pressure differential switches across filter	No.	2		
16.2.6	Arrangement for indication from VFD for AHU fan.	No.	1		
16.2.7	Pressure Transmitter	No.	1		
16.2.8	Motors for Damper Operation During Fumigation.	No.	3		
16.2.9	Current Switch for Exhaust Fan for Exhaust Air During Fumigation and relays for fan stat/stop.	Set	1		
16.2.10	Local controllers with Display (Bacnet Certified)	No.	1		
16.2.11	Control Panel with enclosure and accessories.	Job	1		
16.2.12	Electrical/Control Wiring for above	Lot	1		
16.3	AHU No. 10				
16.3.1	Temperature sensors/transmitter (Balco Type).	No.	2		
16.3.2	Humidity sensors/transmitter.	No.	1		
16.3.3	Smoke Detector.	No.	1		
16.3.4	Pressure differential switches across fan	No.	1		
16.3.5	Pressure differential switches across filter	No.	2		
16.3.6	Arrangement for indication from VFD for AHU fan.	No.	1		
16.3.7	Pressure Transmitter	No.	1		
16.3.8	Motors for Damper Operation During Fumigation.	No.	3		
16.3.9	Current Switch for Exhaust Fan for Exhaust Air During Fumigation and relays for fan stat/stop.	Set	1		
16.3.10	Local controllers with Display (Bacnet Certified)	No.	1		
16.3.11	Control Panel with enclosure and accessories.	Job	1		
16.3.12	Electrical/Control Wiring for above	Lot	1		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
16.4	AHU No. 11				
16.4.1	Temperature sensors/transmitter (Balco Type).	No.	2		
16.4.2	Humidity sensors/transmitter.	No.	1		
16.4.3	Smoke Detector.	No.	1		
16.4.4	Pressure differential switches across fan	No.	1		
16.4.5	Pressure differential switches across filter	No.	2		
16.4.6	Arrangement for indication from VFD for AHU fan.	No.	1		
16.4.7	Pressure Transmitter	No.	1		
16.4.8	Motors for Damper Operation During Fumigation.	No.	3		
16.4.9	Current Switch for Exhaust Fan for Exhaust Air During Fumigation and relays for fan stat/stop.	Set	1		
16.4.10	Local controllers with Display (Bacnet Certified)	No.	1		
16.4.11	Control Panel with enclosure and accessories.	Job	1		
16.4.12	Electrical/Control Wiring for above	Lot	1		
16.5	Exhaust Air Fan No. 01 to 05 (5 No.)				
16.5.1	Current operated switch for Fan.	No.	5		
16.5.2	Local controllers with Display, (Bacnet Certified)	No.	1		
16.5.3	Control Panel with enclosure and accessories.	Job	1		
16.5.4	Electrical/Control Communication Wiring for above	Lot	1		
16.6	Return Air Fan No. 01 to 03 (3 No.)				
16.6.1	Current operated switch for Fan.	No.	3		
16.6.2	Local controllers with Display, (Bacnet Certified)	No.	1		
16.6.3	Control Panel with enclosure and accessories.	Job	1		
16.6.4	Electrical/Control Communication Wiring for above	Lot	1		
16.7	Room Pressure Differential Indications				
16.7.1	Photohelic Type Room Pressure Differential Indicator with Low and High Limit Switch.	No.	15		
16.7.2	Digital display temperature and humidity recorder in rooms with display.	No.	15		
16.7.3	DDC LON Controller for above.	Lot	1		

S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)
1	2	3	4	5	6
16.7.4	SS control panel/enclosure for installation of Photohelic gauges, temperature and relative humidity sensors.	Lot	1		
16.7.5	Buzzer arrangement if parameters to out from specified limit/values.	Lot	1		
16.7.6	Electrical Control Wiring for above	Lot	1		
16.8	Miscellaneous Items				
16.8.1	Engineering, Programming, Commissioning and handing over of controllers document, field devices etc.	Job	1		
16.8.2	Communication wiring, accessories and interfacing with existing BMS system.	Job	1		
16.8.3	Supervision and one month test run.	Job	1		
	Total Cost of Automatic Controls-Item No. 16 (Rs.)				
17	Insulated Supply Air Filter Box with Air Filter Insulated factory fabricated Supply Air Filter Boxes with access door for removal of filters with pressure drop measuring ports across air filters and flange connection at inlet/outlet as shown on drawing. Recommended Brand: Coolmax/Sabro/SASA, Pakistan. For AHU-05				
17.1		No.	1		
17.2	H-13, 99.95% Dust Spot Test Efficiency, Bag Type Air Filters, Filter Class to Minipleat EN-822 Bank Application. Filter Cells complete with Holding Frames. Bank Filter Installation Frame including stiffness. Recommended Brand: AAF/Malaysia, Camfill Farr/Sweden or Trox/Germany.				
17.2.1	610mmx610mmx150 (mini-pleat type, High Flow Rate)	No.	6		
17.2.2	305mmx610mmx150 (mini-pleat type, High Flow Rate)	No.	3		
	Total Cost of Insulated Supply Air Filter Box with Air Filter-Item No. 17 (Rs.)				
18	Sundries Items				
18.1	Duct mounted dial type temperature indicators. Recommended Brand: Weksler/Weiss/Wika, USA.	No.	6		
18.2	Digital Magnahelic gauges for room pressure indication including soft cubing on concealed SS plate. Recommended Brand: Dwyer/USA.	No.	20		
S.No	Description	Unit	Qty.	Unit Price	Total (Rs.)

1	2	3	4	5	6
18.3	Magnahelic gauge across panel and higher efficiency filters in AHU and fan with SS box mounting. Recommended Brand: Dwyer/USA.	No.	6		
18.4	Cost of flexible duct connector on AHU inlet/outlet.	Rft	150		
18.5	Cost of Air balancing of New and Existing System.	Job	1		
18.6	Duct Test holes for Air balancing.	Lot	1		
18.7	Provide Tag and Stenciling, Painting, Coating & Wrapping.	Lot	1		
18.8	Provide Shop drawings.	Job	1		
18.9	Provide As-Installed hard copy of drawings and soft copy of 16GB Kingston USB on AutoCAD 2018 of newly installed system.	Job	1		
18.10	Provide As-Installed hard copy of drawings and soft copy of 16GB Kingston USB on AutoCAD 2018 of existing installed system before new installation works.	Job	1		
18.11	Cost of testing, starting-up, commissioning, balancing, adjusting & handing over of complete system as per specifications.	Job	1		
18.12	One month test run.	Job	1		
18.13	Cost of removal of G.I. air ducts, duct insulation, hangers and supports installed at Ground Floor and handover to client at desired location in Premises.	Job	1		
18.14	Cost of removal of existing supply air terminal filters and return air grilles from ceiling and wall and re-installation of same after re-installation of false ceiling.	Job	1		
18.15	Cost of replacement of 4 No. existing 60HP reciprocating compressor installed in existing Sabro Brand 150TR Air Cooled Water with 4 No. New 60HP Copeland/Danfoss brand compressor and commissioning, complete in all respect.	Job	1		
	Total Cost of Sundries Items-Item No. 18 (Rs.)				

SECTION VI.
SAMPLE FORMS

SAMPLE FORMS

1.	BID FORM AND PRICE SCHEDULES	60
2.	BID SECURITY FORM	63
3.	CONTRACT FORM	64
4.	PERFORMANCE SECURITY FORM	65
5.	BANK GUARANTEE FOR ADVANCE PAYMENT	66
6.	MANUFACTURER'S AUTHORIZATION FORM	67
7.	INTEGRITY PACT	68

1. Bid Form and Price Schedules

NIT / IFB No: DUHS/W&S/2026/1645

Date: 5th January, 2026

To: [name and address of Procuring Agency]

Gentlemen and/or Ladies:

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

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

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

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

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

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

Name and address of agent Amount and Currency

Purpose of Commission or gratuity

(if none, state "none")

We understand that you are not bound to accept the loc

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

FOR GOODS OFFERED WITHIN THE PROCURING AGENCY'S COUNTRY

Name of Bidder _____ **IFB / NIT Number** DUHS/W&S/2026/1645.

Total Amount in Pak Rs.

Name _____

In the capacity of _____

Signed _____

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

Date _____

NOTE:

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

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

FOR GOODS OFFERED FROM OUTSIDE THE PROCURING AGENCY'S COUNTRY

Name of Bidder _____ . IFB / NIT Number DUHS/W&S/2026/1645.

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

Name _____

In the capacity of _____

Signed _____

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

Date _____

NOTE:

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

2. BID SECURITY FORM

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

KNOW ALL PEOPLE by these presents that WE *[name of bank]* of *[name of country]*, having our registered office at *[address of bank]* (hereinafter called “the Bank”), are bound unto *[name of Procuring agency]* (hereinafter called “the Procuring agency”) in the sum of for which payment well and truly to be made to the said Procuring agency, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 2026.

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder, having been notified of the acceptance of its Bid by the Procuring agency during the period of bid validity:
 - (a) fails or refuses to execute the Contract Form, if required; or
 - (b) fails or refuses to furnish the performance security, in accordance with the Instructions to Bidders;

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

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

[signature & Seal of the bank]

3. CONTRACT FORM

THIS AGREEMENT made the _____ day of _____ 2026 between [name of Procuring Agency] (hereinafter called “the Procuring Agency”) of the one part and [name of Supplier] of [city and country of Supplier] (hereinafter called “the Supplier” of the other part:

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

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)

4. PERFORMANCE SECURITY FORM

To: *[name of Procuring agency]*

WHEREAS *[name of Supplier]* (hereinafter called "the Supplier") has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated 2026 to supply *[description of goods and services]* (hereinafter called "the Contract").

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

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

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

This guarantee is valid until the _____ day of _____ 2026.

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]

5. BANK GUARANTEE FOR ADVANCE PAYMENT

To: *[name of Procuring*

agency] [name of Contract]

Gentlemen and/or Ladies:

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

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

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

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

Yours truly,

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]

6. MANUFACTURER'S AUTHORIZATION FORM

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

To: *[name of the Procuring agency]*

WHEREAS *[name of the Manufacturer]* who are established and reputable manufacturers of *[name and/or description of the goods]* having factories at *[address of factory]*

do hereby authorize *[name and address of Agent]* to submit a bid, and subsequently negotiate and sign the Contract with you against IFB No. *[reference of the Invitation to Bid]* for the above goods manufactured by us.

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

[signature for and on behalf of Manufacturer]

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

7. INTEGRITY PACT (AFFIDAVIT)

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

Contract Number: _____ Dated: _____

Contract Value: _____

Contract Title: _____

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

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

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

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

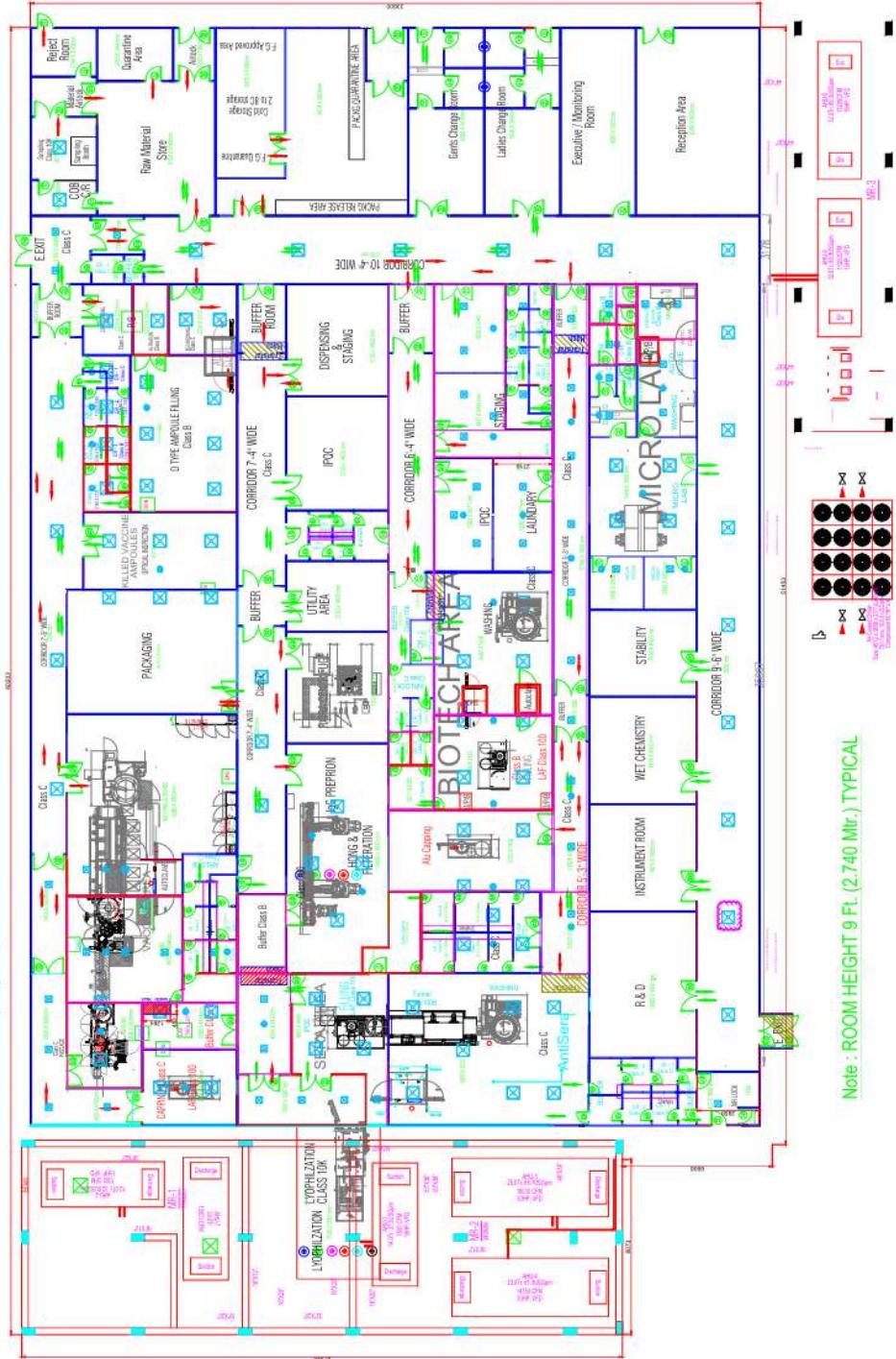
Notwithstanding any rights and remedies exercised by PA in this regard, **[Name of Supplier/Contractor/Consultant]** agrees to indemnify PA for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PA in an amount equivalent to ten times the sum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

[Procuring Agency]

[Supplier /Contractor/Consultant]

MEN/ MATERIAL FLOW

SIVP/Liquid Injectable Ampoules
Killed Vaccines (Ready to Fill)



Covered Areas:
 Plant: LxW: 134' X 197' = 26398sqft. ft or 2.33 sq.yds
 Liquid injectable vials: 756'x259'=1965 sq.ft
 Anti Sera Section: 22'x10'x61'2"=118 x146 =1278sqft
 Buffer Area: 48x248'=1183sqft
 Raw Material Store: 28'x42'x20'5"=794sqft
 Finished Goods Warehouse: 22'x5x28'11"=233sqft
 Micro Lab: 49'x16'5"=784 sq.ft

Job : DOW INSTITUTE OF LIFE SCIENCES (DILS)
DOW UNIVERSITY OF HEALTH SCIENCES OJHA CAMPUS (DUHS)

Title : Addition of
Biological (Biotech) Section file:1

UPDATED PROPOSED LAYOUT PLAN

Revision : 8

DATE	NAME	INITIAL
16/12/2025	M. HAMEED KHAN	
16/12/2025	NASIR M. MUGHAL	

Checked By: Cad By:
Approved By: Job No.: 00

DATE: 31/12/2025 Scale: NTS
Drawing No: DILS-A-01
Sheet No: 01

NORTH

Covered Areas:
 Plant: LxW: 134' X 197'= 26388sq.ft or 2,933 sq.yds
 Liquid Injectable vials: 759' X 259'=1765 sq.ft
 Liquid Injectable ampoules: 46' X 259'=118' X 15'=2,178sq.ft
 Anti-Sera Section: 22'10" X 61'2"+118' X 15'= 2,248sq.ft
 Biolet Area: 48' X 248'=1,152sq.ft
 Raw Material Store: 28'4" X 28'0"=704sq.ft
 Finished Goods Warehouse: 22'5" X 10'4"=233sq.ft
 Quarantine Area: 22'2" X 28'11"=650sq.ft
 Micro Lab: 49'0" X 15'0"=734 sq.ft

Job : DOW INSTITUTE OF LIFE SCIENCES (DILS)
 DOW UNIVERSITY OF HEALTH SCIENCES OJHA CAMPUS (DUHS)

Title : Addition of Biological (Biotech) Section file:1
Revision : 8
Checked By: Cad By :
Approved By: Job No : 00
DATE: 16/12/2025 **NAME:** M. HAMEED KHAN
DATE: 16/12/2025 **NAME:** NASIR M. MUGHAL
Sheet No : 01
Drawing No: DILS-CR-01
NORTH

MEN/ MATERIAL FLOW

SVP-Liquid Injectable Vials
 Killed Vaccines (Ready to Fill)

SVP-Liquid Injectable Ampoules
 Killed Vaccines (Ready to Fill)

Machine Stripped Area

UPDATED CLEAN ROOM CEILING AND WALL PANELS LAYOUT

Proposed Prefab Panels Area marked with Hatch

SS Panel
Powder Coated Panel

Note : ROOM HEIGHT 9ft. (2.740 Mtr.) TYPICAL


**OFFICE OF THE DIRECTOR WORKS & SERVICES
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI.**

Baba-e-Urdu Road, Karachi. Direct No. 92-21- 99216065

 Website: www.duhs.edu.pk E-mail: rahim.khan@duhs.edu.pk

NIT No. DUHS/W&S/2026/1645

Dated: 5th January, 2025

TENDER NOTICE

Dow University of Health Sciences (DUHS), Karachi is a Public Sector University that invites e-bids through E-Pak Acquisition & Disposable System (EPADS) from well-reputed Companies / Bidders / firms having registration with the Federal Board of Revenue (FBR), Income Tax Department, Sindh Revenue Service Board and Sales Tax.

S. NO:	DESCRIPTION	METHOD OF PROCUREMENT
1.	RENOVATION WORK FOR NEW AMPOULE AND BIOTECH SECTION AT DOW INSTITUTE OF LIFE SCIENCES (D.I.L.S) ON TURNKEY BASIS. (REF.NO.DUHS/W&S-NIT/191)	Single Stage – Two Envelope Procedure as per rule 46 sub rule-2 of SPP Rules 2010 (Amended upto date)
Estimated Cost	PKR. 396.50 Million	
Tender Fee	Rs. 5,000/- (Rupees Five Thousand Only) Non-Refundable in shape of Pay Order / Demand Draft in favor of Dow University of Health Sciences, Karachi.	
Security	Bid Security and Performance Security as mentioned in the bidding document.	

E-Bidding documents as per detailed terms and conditions, specifications and requirements are available for the registered bidders on Sindh Public Procurement Regulatory Authority's EPADS at <https://portalsindh.eprocure.gov.pk/#/> and University website [https://duhs.edu.pk](http://duhs.edu.pk) on the payment noted above (non-refundable) on any working day except the day of opening of tenders.

The electronics bids must be submitted using EPADS before closing time **26-01-2026** at **10:00 Hrs.** Manual bids shall not be accepted. Electronic Bids will be opened on **26-01-2026** at **11:30 Hrs.** For any query related to e-bidding, please Contact to the facilitator / Coordinator, Procurement Committee Services at Admin Block 5th floor DMC Campus, Baba-e-Urdu Road near Civil Hospital Karachi, Phone No. 021-38771000 (Ext. 5814 / 5820 / 5907). The tender fee (non-refundable) and bid security (refundable) shall be submitted in the form of a Pay Order / Demand Draft / Bank Guarantee issued by a Scheduled Bank of Pakistan in favor of Dow University of Health Sciences, Karachi and must be delivered to the above-mentioned office of the Facilitator / Coordinator, Procurement Committee at the same address.

In case of any unforeseen situation resulting in the closure of the office on the date of opening or if Government declares Holiday the tenders shall be submitted/opened online on the next working day at the same time. The Procuring Agency reserves the right to reject any or all bids subject to relevant provisions of SPP Rules, 2010 (Amended up to date) and may cancel the bidding process at any time prior to the acceptance of a bid or proposal under "Rule-25" of said Rules. In case of any ambiguity in between NIT and tender document, tender will be considered as senior.

DIRECTOR
Works & Services
Dow University of Health Sciences, Karachi



**OFFICE OF THE DIRECTOR WORKS & SERVICES
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI.**

Baba-e-Urdu Road, Karachi. Direct No. 92-21- 99216066
Website: www.duhs.edu.pk E-mail: rahim.khan@duhs.edu.pk

NIT No. DUHS/W&S/2026/1645 Dated: 5th January, 2025

TENDER NOTICE

Dow University of Health Sciences (DUHS), Karachi is a Public Sector University that invites e-bids through E-Pak Acquisition & Disposable System (EPADS) from well-reputed Companies / Bidders / firms having registration with the Federal Board of Revenue (FBR), Income Tax Department, Sindh Revenue Service Board and Sales Tax.

S. NO:	DESCRIPTION	METHOD OF PROCUREMENT
1.	RENOVATION WORK FOR NEW AMPOULE AND BIOTECH SECTION AT DOW INSTITUTE OF LIFE SCIENCES (D.I.L.S) ON TURNKEY BASIS. (REF.NO.DUHS/W&S-NIT/191)	Single Stage – Two Envelope Procedure as per rule 46 sub rule-2 of SPP Rules 2010 (Amended upto date)
Estimated Cost	PKR. 396.50 Million	
Tender Fee	Rs. 5,000/- (Rupees Five Thousand Only)Non-Refundable in shape of Pay Order / Demand Draft in favor of Dow University of Health Sciences, Karachi.	
Security	Bid Security and Performance Security as mentioned in the bidding document.	

E-Bidding documents as per detailed terms and conditions, specifications and requirements are available for the registered bidders on Sindh Public Procurement Regulatory Authority's EPADS at <https://portalsindh.eprocure.gov.pk/> and University website <https://duhs.edu.pk> on the payment noted above (non-refundable) on any working day except the day of opening of tenders.

The electronics bids must be submitted using EPADS before closing time **26-01-2026** at **10:00 Hrs**. Manual bids shall not be accepted. Electronic Bids will be opened on **26-01-2026** at **11:30 Hrs**. For any query related to e-bidding, please Contact to the facilitator /Coordinator, Procurement Committee Services at Admin Block 5th floor DMC Campus, Baba-e-Urdu Road near Civil Hospital Karachi, Phone No. 021-38771000 (Ext. 5814 / 5820 /5907).The tender fee (non-refundable) and bid security (refundable) shall be submitted in the form of a Pay Order / Demand Draft / Bank Guarantee issued by a Scheduled Bank of Pakistan in favor of Dow University of Health Sciences, Karachi and must be delivered to the above-mentioned office of the Facilitator / Coordinator, Procurement Committee at the same address.

In case of any unforeseen situation resulting in the closure of the office on the date of opening or if Government declares Holiday the tenders shall be submitted/opened online on the next working day at the same time. The Procuring Agency reserves the right to reject any or all bids subject to relevant provisions of SPP Rules, 2010 (Amended up to date) and may cancel the bidding process at any time prior to the acceptance of a bid or proposal under "Rule-25" of said Rules. In case of any ambiguity in between NIT and tender document, tender will be considered as senior.

DIRECTOR
Works & Services
Dow University of Health Sciences, Karachi

عوامي حقن جي ترجمان، ڪمپيوٽر تي پهرين مڪمل اخبار **ABC**
کراچي، حيدرآباد ۽ سڪرمان هڪ ئي وقت شايع ٿيندر

Daily **AWAMI AWAZ** روزاني

عوامي آواز

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**OFFICE OF THE DIRECTOR WORKS & SERVICES
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI.**
Baba-e-Urdu Road, Karachi. Direct No. 92-21- 99216065
Website: www.duhs.edu.pk E-mail: rahim.khan@duhs.edu.pk

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Epaper Date: 2026-01-08



FOUNDED BY QUAID-I-AZAM MOHAMMAD ALI JINNAH



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Dated: January 7, 2026

CORRIGENDUM

Reference to the Notice Inviting Tender (N.I.T) No # DUHS/W&S/2026/1645, Dated: 5th January, 2026, published in The Daily Dawn, The Daily Jang and The Daily Awami Awaz on 6th January, 2026.

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DIRECTOR

Works & Services

Dow University of Health Sciences, Karachi

جمعہ 19 ربیع الجدید 1447ھ 9 جنوری 2026ء



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